

B -02-21-200-018  
KX INVESTMENTS LLC  
NOLLAR RD  
AR AGRICULTURAL  
601.76'

20'  
EXISTING PUBLIC UTILITIES EASEMENT AS RECORDED IN LIBER 1756 PAGE 867

P.O.B. 216.00' CENTER SEC. 21  
N 89°26'20" W

B -02-21-300-016  
ADVANCED DISPOSAL SERVICES SOLID WASTE MANAGEMENT LLC  
1477 E NORTH TERRITORIAL RD  
GI GENERAL INDUSTRIAL

B -02-21-300-001  
GOULD, RHORY  
6883 NOLLAR RD  
GI GENERAL INDUSTRIAL RESIDENTIAL



**VICINITY MAP**

**GENERAL INFORMATION**

**PROPERTY LOCATION:**  
1575 E. North Territorial  
Whitmore Lake, Michigan 48189

**SITE PLANNER/ENGINEER/CONTRACTOR:**  
Vanston/O'Brien, Inc.  
2375 Bishop Circle West  
Dexter, Michigan 48130  
(734) 424-0661  
Gregory Heim, P.E.

**OWNER:**  
Ann Arbor Dog Training Club  
1575 E. North Territorial  
Whitmore Lake, Michigan 48189  
B -02-21-300-017

**SITE INFORMATION**

ZONING:	GI GENERAL INDUSTRIAL	
EXISTING USE:	CLUB	
PROPOSED BUILDING USE:	CLUB	
PROPOSED BUILDING AREA:	18,000 SF - 1 Story	
EXISTING BUILDING AREA:	10,480 SF - 1 Story	
MIN. LOT AREA	5 Acre	6.26 Acres (273,975 SF)
MIN. LOT WIDTH	200'	570'
MAX. LOT COVERAGE	25%	10.4%
MAX. BUILDING HEIGHT	50' max.	25' maximum, 1 story
FRONT SETBACK	85'	125'
SIDE SETBACK	50'	61'
REAR SETBACK	50'	30'

**PARKING & LOADING:**  
1 Space per 3 club members; 166 mem/ 3 = 55 Spaces  
Total Required Parking Spaces: 55  
Parking Spaces Provided:  
58 parking spaces are provided, including 4 barrier-free spaces  
**Loading Spaces:**  
1 Loading Space Provided.

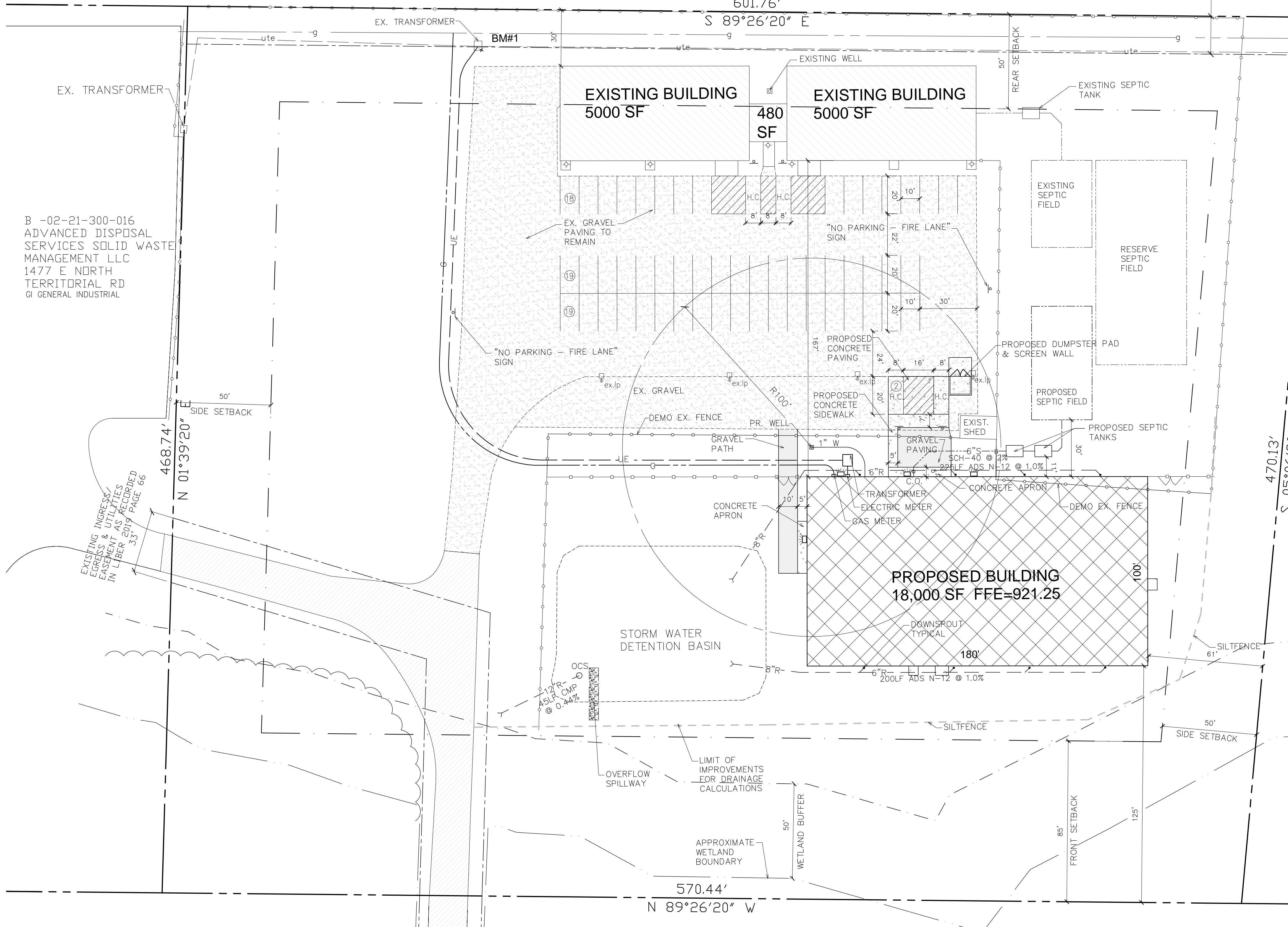
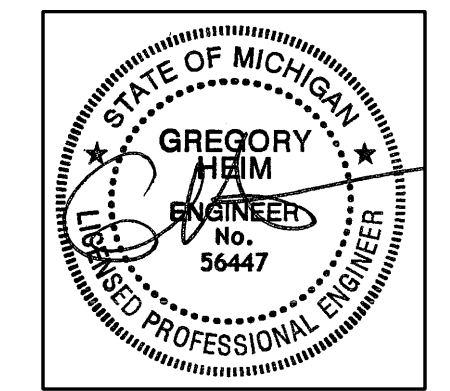
**SOILS INFORMATION:**  
M<sub>d</sub>A, Matherton sandy loam, 0 to 4 percent slopes, B  
F<sub>o</sub>B, Fox sandy loam, 2 to 6 percent slopes, B  
S<sub>b</sub>, Sebawa loam, B

THERE IS NO 100 YEAR FLOOD PLAIN LOCATED WITHIN THIS SITE  
**BENCHMARK #1**  
SE CORNER TRANSFORMER PAD ELEV. = 819.22 NAVD 88

**LEGAL DESCRIPTION:**  
REWRITE 11/91 NO 21-8A-2A-3 (002) COMMENCING AT CENTER OF SECTION 21, THENCE N 89°26'20" W 216 FEET TO THE POINT OF BEGINNING, THENCE S 05°06'30" W 470.13 FEET, THENCE N 89°26'20" W 570.44 FEET, THENCE N 01°39'20" E 468.74 FEET, THENCE S 89°26'20" E 601.76 FEET TO THE POINT OF BEGINNING, PART OF SW 1/4 SECTION 21 T1S R6E

**INGRESS/EGRESS EASEMENT:**  
33 FOOT WIDE PRIVATE INGRESS AND EGRESS EASEMENT, WHICH HAS A WEST LINE DESCRIBED AS FOLLOWS:  
COMMENCING AT THE S 1/4 CORNER OF SECTION 21, T1S, R6E, NORTHFIELD TOWNSHIP, WASHTENAW COUNTY, MICHIGAN;  
THENCE N 01°55'10" E 2640.80 FEET ALONG THE N-S 1/4 LINE OF SAID SECTION TO THE CENTER OF SAID SECTION; THENCE S 05°06'30" W 470.13 FEET ALONG THE CENTERLINE OF NOLLAR ROAD; THENCE N 89°26'20" W 650.35 FEET FOR A PLACE OF BEGINNING; THENCE S 01°39'20" W 767.09 FEET FOR A PLACE OF ENDING.

**SITE PLAN**  
SCALE: 1" = 30'-0"



**LEGEND**

—	PROPERTY LINE	—	EXISTING BUILDING
- - -	SETBACK EASEMENT	—	EXISTING GRAVEL SURFACE
- - -	PROPOSED STORM	—	EXISTING ASPHALT PAVING
- - -	PROPOSED WATER	—	EXISTING ASPHALT PAVING TO BE REMOVED
- - -	PROPOSED UNDERGROUND ELECTRIC & TELEPHONE	—	PROPOSED BUILDING
- - -	PROPOSED GAS	—	PROPOSED GRAVEL PAVING
- - -	PROPOSED SANITARY	—	PROPOSED CONCRETE
- - -	EXISTING STORM	—	
- - -	EXISTING WATER	—	
- - -	EXISTING TELEPHONE	—	
- - -	EXISTING ELECTRIC	—	
- - -	EXISTING UNDERGROUND SABLE	—	
- - -	EXISTING GAS	—	
- - -	EXISTING SANITARY	—	
- - -	EXISTING CENTERLINE OF DITCH	—	
- - -	EXISTING CONTOUR	—	
- - -	PROPOSED CONTOUR	—	
- - -	LINE OF SILT FENCE	—	
- - -	DRAINAGE AREA	—	
—	EXISTING WALL MOUNTED LIGHT FIXTURE	—	
—	NEW BUILDING MOUNTED LIGHTING	—	
—	EXISTING POLE-MOUNTED LIGHT	—	
—	NEW POLE-MOUNTED LIGHT	—	
—	EXISTING UTILITY POLE	—	
—	NEW UTILITY POLE	—	
—	EXISTING MANHOLE	—	
—	NEW MANHOLE	—	
—	EXISTING CLEAN OUT	—	
—	NEW CLEAN OUT	—	
—	EXISTING NEW CATCH BASIN	—	
—	NEW CATCH BASIN	—	
—	EXISTING FIRE HYDRANT	—	
—	NEW FIRE HYDRANT	—	
—	EXISTING ELEVATION	—	
—	PROPOSED ELEVATION	—	

B -02-21-300-015  
GYDA LEASING INC  
1451 E NORTH TERRITORIAL RD  
GI GENERAL INDUSTRIAL

B -02-21-300-014  
ADVANCED DISPOSAL SERVICES  
E NORTH TERRITORIAL RD  
GI GENERAL INDUSTRIAL-VACANT

EXISTING INGRESS/EGRESS EASEMENT AS RECORDED IN LIBER 1956 PAGE 484

**ANN ARBOR DOG TRAINING**  
 1575 E. North Territorial Road  
 Northfield Township, Michigan

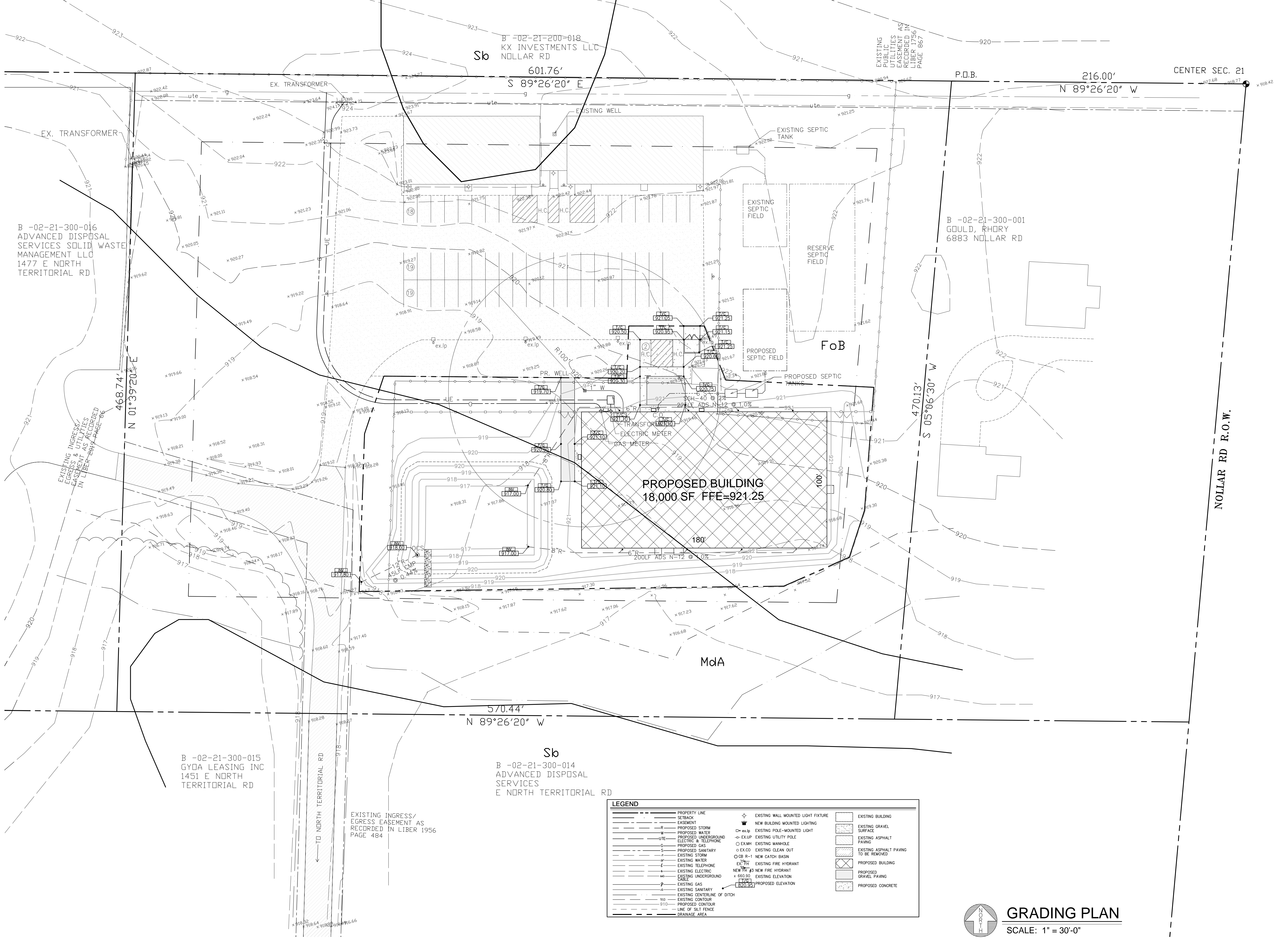
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ISSUED FOR:	DATE:
CONDITIONAL USE	3-9-17
SITE PLAN	5-9-17
REVISED	6-5-17

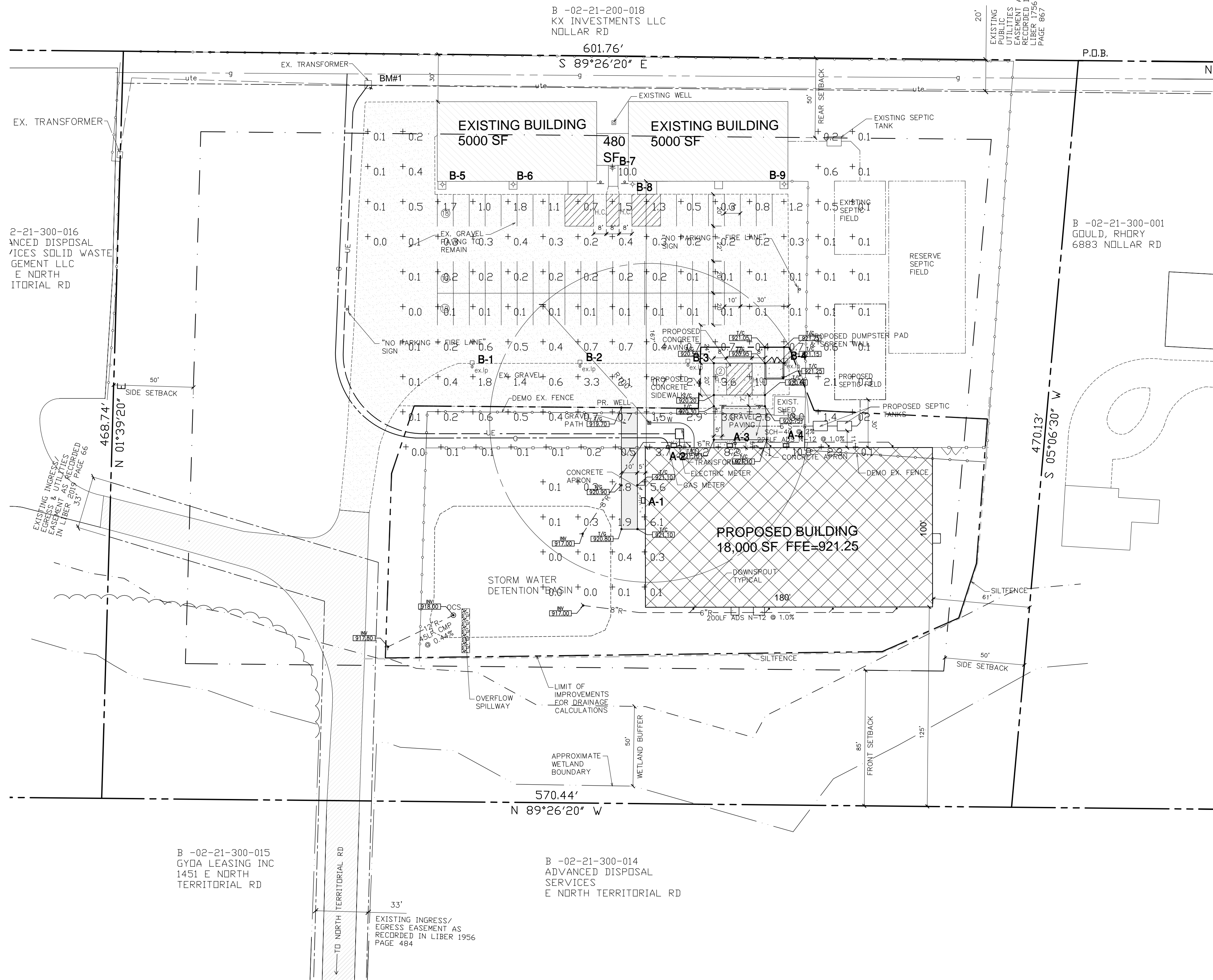
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 JOB NO.:

**GRADING PLAN**  
 SHEET NO.

**C-2**



**GRADING PLAN**  
 SCALE: 1" = 30'-0"



**LIGHTING PLAN**  
SCALE: 1" = 40'-0"

**Arrangement**

Single  
Arm : 0 ft  
Offset : -- ft

**Layout**

Cols (X) Rows (Y)  
Layout : Varies Varies  
Spacing : Varies Varies ft  
Mounting Height : 16 ft  
Orient : Varies deg  
Tilt : 0 deg

**Statistical Analysis**

**Illuminance Values**  
Average : 1.14 fc  
Maximum : 14.98 fc  
Minimum : 0.00 fc  
Avg/Min Ratio : N.A. fc  
Max/Min Ratio : N.A. fc  
Max/Avg Ratio : 13.17 fc

**Arrangement**

Single  
Arm : 1 ft  
Offset : -- ft

**Layout**

Cols (X) Rows (Y)  
Layout : Varies Varies  
Spacing : Varies Varies ft  
Mounting Height : 16 ft  
Orient : 90 deg  
Tilt : 0 deg

**Statistical Analysis**

**Illuminance Values**  
Average : 0.55 fc  
Maximum : 5.69 fc  
Minimum : 0.02 fc  
Avg/Min Ratio : 28.98 fc  
Max/Min Ratio : 280.63 fc  
Max/Avg Ratio : 10.40 fc

**Arrangement**

Single  
Arm : 1 ft  
Offset : -- ft

**Layout**

Cols (X) Rows (Y)  
Layout : Varies Varies  
Spacing : Varies Varies ft  
Mounting Height : Varies ft  
Orient : 270 deg  
Tilt : 0 deg

**Statistical Analysis**

**Illuminance Values**  
Average : 0.67 fc  
Maximum : 10.83 fc  
Minimum : 0.01 fc  
Avg/Min Ratio : 45.63 fc  
Max/Min Ratio : 741.66 fc  
Max/Avg Ratio : 16.25 fc



**Luminaire Location Summary**

N	Arrangement	Lum #	X	Y	Z	Orient	Tilt	Tilt Factor
1	Single	A	-44.2	-33.0	16.0	180	0	1.000
2	Single	A	-28.0	0.0	16.0	90	0	1.000
3	Single	A	9.0	0.0	16.0	90	0	1.000
4	Single	A	44.3	0.0	16.0	90	0	1.000



**Luminaire Location Summary**

N	Arrangement	Lum #	X	Y	Z	Orient	Tilt	Tilt Factor
1	Single	B	-101.0	0.0	16.0	90	0	1.000
2	Single	B	-34.0	0.0	16.0	90	0	1.000
3	Single	B	34.0	0.0	16.0	90	0	1.000
4	Single	B	95.4	0.0	16.0	90	0	1.000



**Luminaire Location Summary**

N	Arrangement	Lum #	X	Y	Z	Orient	Tilt	Tilt Factor
5	Single	B	-107.0	-5.0	16.0	270	0	1.000
6	Single	B	-62.5	-5.0	16.0	270	0	1.000
7	Single	B	0.0	5.0	12.0	270	0	1.000
8	Single	B	12.5	-5.0	16.0	270	0	1.000
9	Single	B	107.0	-5.0	16.0	270	0	1.000



**Luminaire A Proposed**

IES Filename : E-AL3L315NZ.IES  
Description : E-AL3L315NZ  
LED wall pack. Black metal housing with integrated heat sink.  
Two Cree CXA3050 LED arrays

Light Loss Factor : 0.72  
Number of Lamps : 1  
Lamp Lumens : -1 lms  
Luminaire Watts : 151 W



**Luminaire B Existing**

IES Filename : E-DD1L68C1.IES  
Description : E-DD1L68C1  
Gray painted metal fixture with one mounting arm on the back. One LED array.  
One type CXA array

Light Loss Factor : 0.72  
Number of Lamps : 1  
Lamp Lumens : -1 lms  
Luminaire Watts : 66 W



ANN ARBOR DOG TRAINING  
DESIGNERS  
**Vanston/O'Brien, Inc.**  
BUILDERS  
2375 Bishop Circle West  
Dexter, MI 48130  
Tel: (734) 424-0661  
Fax: (734) 424-0677  
e-mail: sales@vanston.com • www.vanston.com

ANN ARBOR DOG TRAINING  
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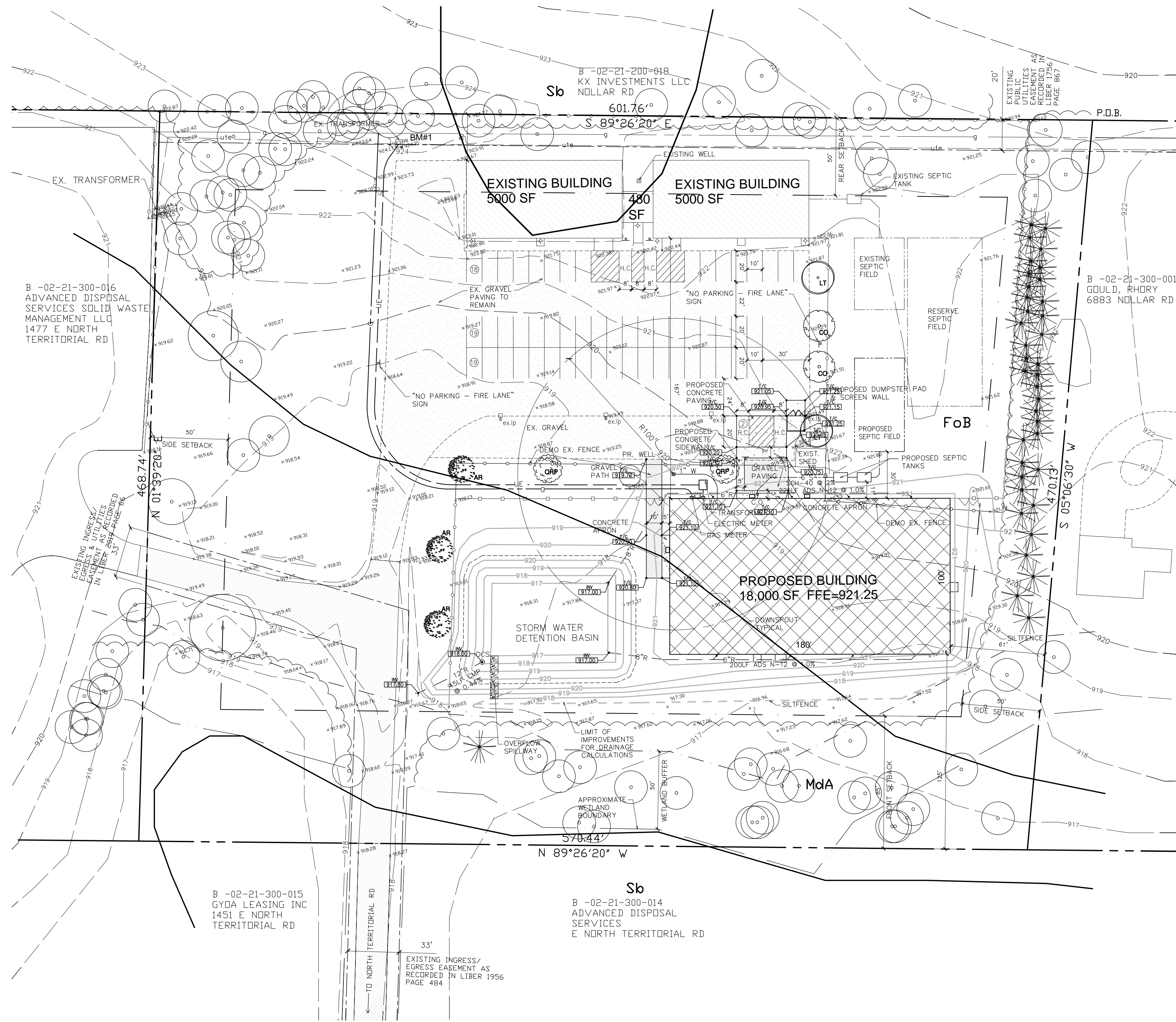
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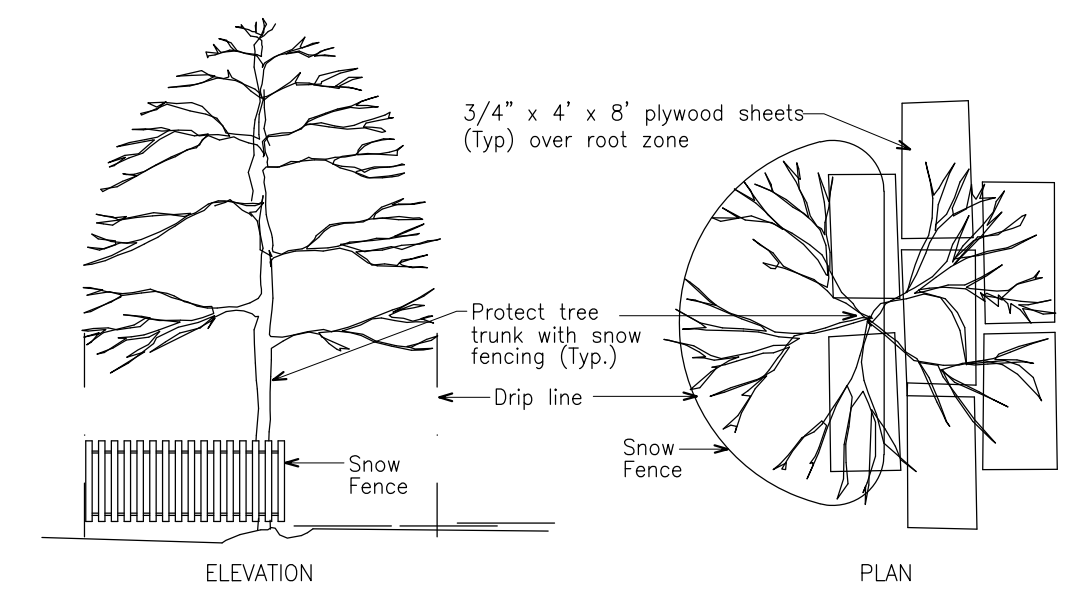
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JOB NO.: ---

LIGHTING PLAN  
SHEET NO.

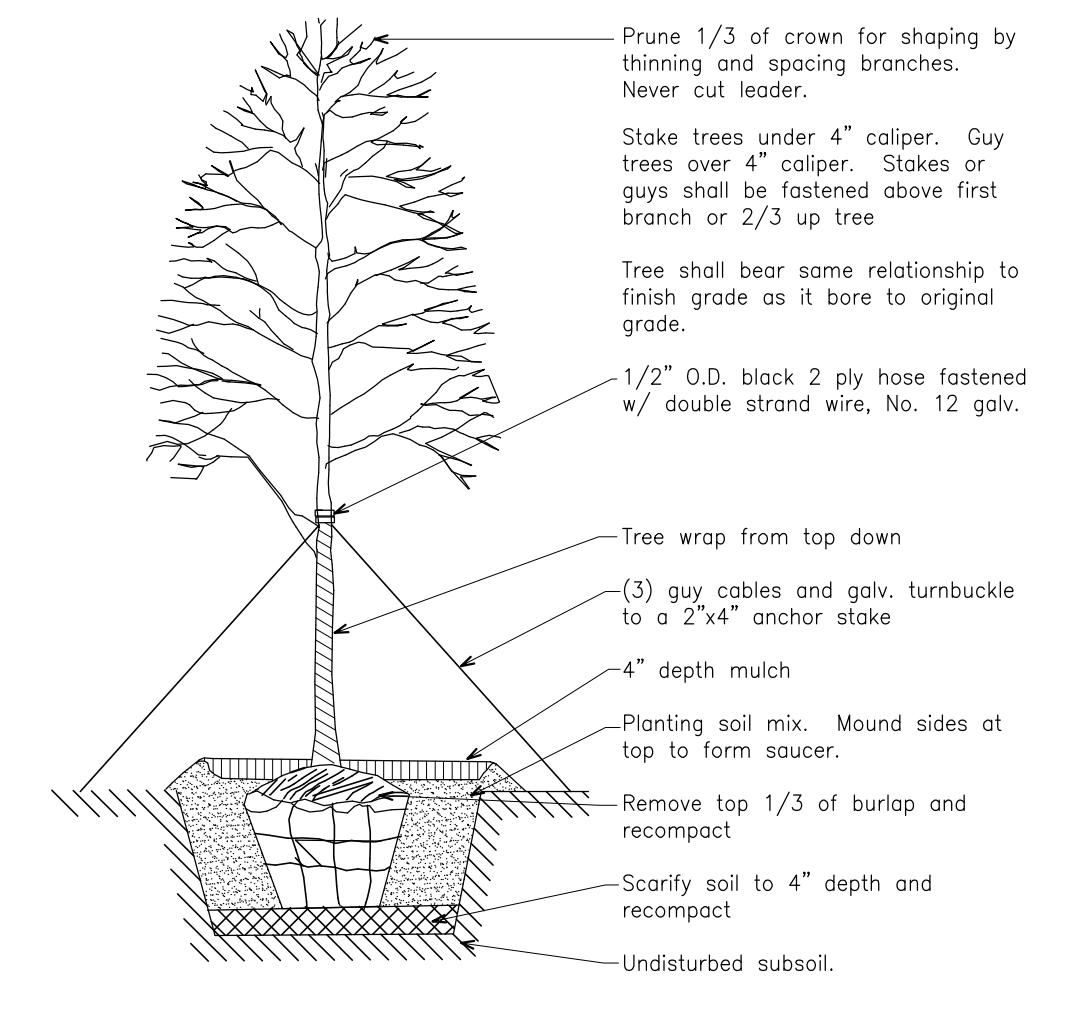
C-3



**LANDSCAPE PLAN**  
SCALE: 1" = 40'-0"



**STANDARD TREE PROTECTION**  
NOTE: Pull back fencing to install plywood when access in root zone is necessary.



**Landscape Notes**

- All plant material shall meet current American Association of Nurserymen, Inc. (AAN) standard for nursery stock. (ANSI 260.1 - 1973)
- Landscape installation shall be in accordance with the American Association of Nursery standards and with the Township/City's landscape requirements.
- Planting schedules: 1) Deciduous material shall be planted from March 15 for spring planting and from October 1 until the ground freezes for fall planting. 2) Evergreen material shall be planted from March 1 through May 31 for Spring plantings and from August 1 through September 30 for all fall planting.
- Mulch plant beds, individual tree and shrub planting pits uniform depth of 4 inches.
- Provide weed mat for greenbelt and foundation plantings.
- All planting beds are to be edged. Recommended either "Permaloc Aluminum" edging or "Black Diamond" plastic edging.
- All areas with stone cover shall have weed mat.
- All landscaping to be continuously maintained.
- All site improvements detailed on this plan are to be completed prior to issuance of final certificate of occupancy.
- All construction to conform to the latest applicable Township/City regulations.
- R.O.W. areas to be seeded or sod.
- Tree protection consists of:
  - Yellow ribbon barriers for large areas not disturbed by construction.
  - Stakes 10' on center and wood snow fence around individual and groups of individual trees.
  - Trees to be removed will be tagged with red ribbon.

The barrier or fence surrounding the tree or group of trees shall be located no closer to the tree than the tree's drip line. If this is not possible, the barrier shall be no closer than 6 feet from the trunk of the tree or group of trees.
- There will be no outside storage on site.
- Seed Mix
  - Temporary planting mixture for erosion control.
    - Seed Oats 30 pounds per acre
    - Annual Rye 10 pounds per acre
  - Permanent planting mixture on all disturbed areas, excluding BMPs.
    - Scalds Hard Fescue 12 pounds per acre
    - Danson's Creeping Red Fescue 6 pounds per acre
    - Perennial Rye 20 pounds per acre
    - Buffalo Grass 20 pounds per acre
    - Creeping Bent 0.5 pounds per acre
    - Little Blue Stem 20 pounds per acre
    - Sheep Fescue 15 pounds per acre
- Existing soil nutrient levels shall be tested by an independent soil testing laboratory before fertilizers are applied.
- Rain Water Garden / Infiltration Basin Plantings
  - Within areas above the first flush elevation of the infiltration basins, seeding and/or live plantings are allowed. Only native seeds (as defined by Michigan Flora, www.michiganflora.net) are allowed for permanent soil stabilization. Annual seeds are allowed in an amount necessary to temporarily stabilize the limits of disturbance.
  - Within areas below the first flush elevation of the infiltration basins, only live plantings are allowed in a storm water system of any kind. Native plants are preferred. Cultivars and non-native perennials are allowable if approved by WCWRC. Plants listed on the WCWRC Rain Garden Plant List are acceptable. Invasive species are not allowed (see the City of Ann Arbor's invasive species list).
- Large trees shall not be planted directly on top of utility pipes or service leads.

**PLANT LIST**

KEY	QTY	SPECIES	SIZE	SPECS
AR	3	Acer rubrum 'Autumn Blaze'	2.5" cal	B&B
		Autumn Blaze Red Maple		
CO	2	Celtis occidentalis	2.5" cal	B&B
		Hackberry		
LT	2	Liriodendron tulipifera	2.5" cal	B&B
		Tulip Poplar		
QRP	2	Quercus x warei 'Long'	2.5" cal	B&B
		Regal Prince Oak		

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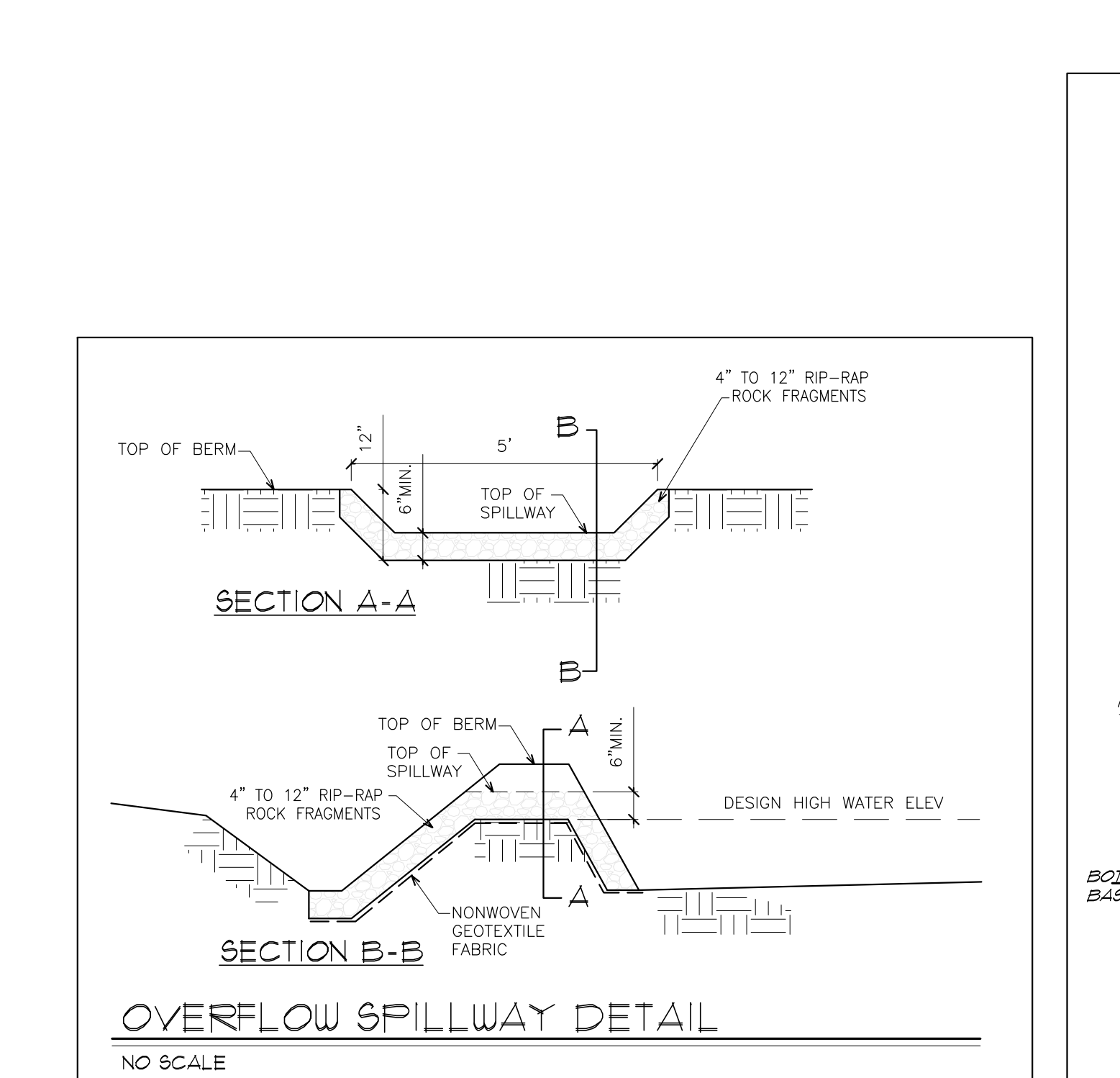
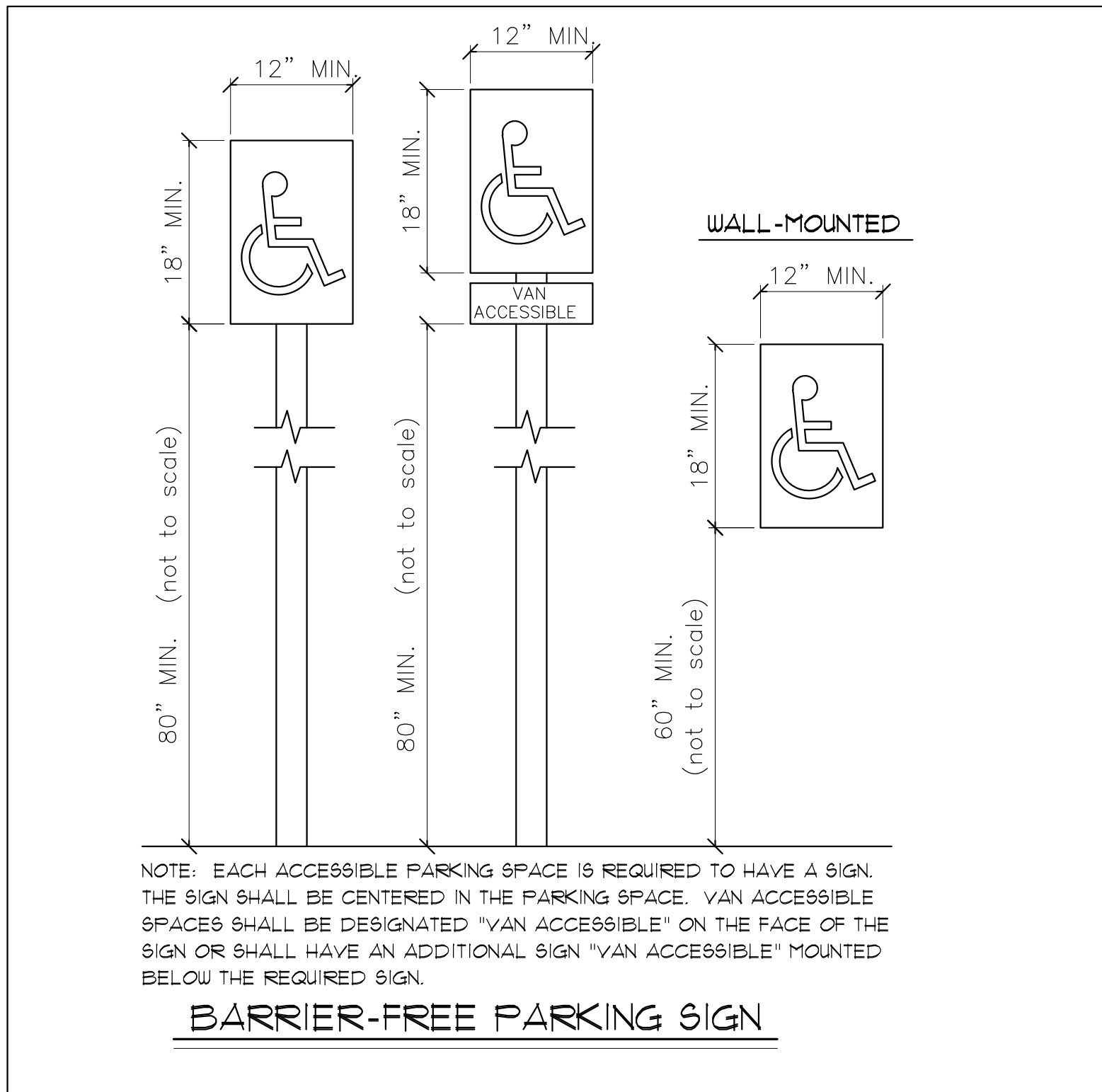
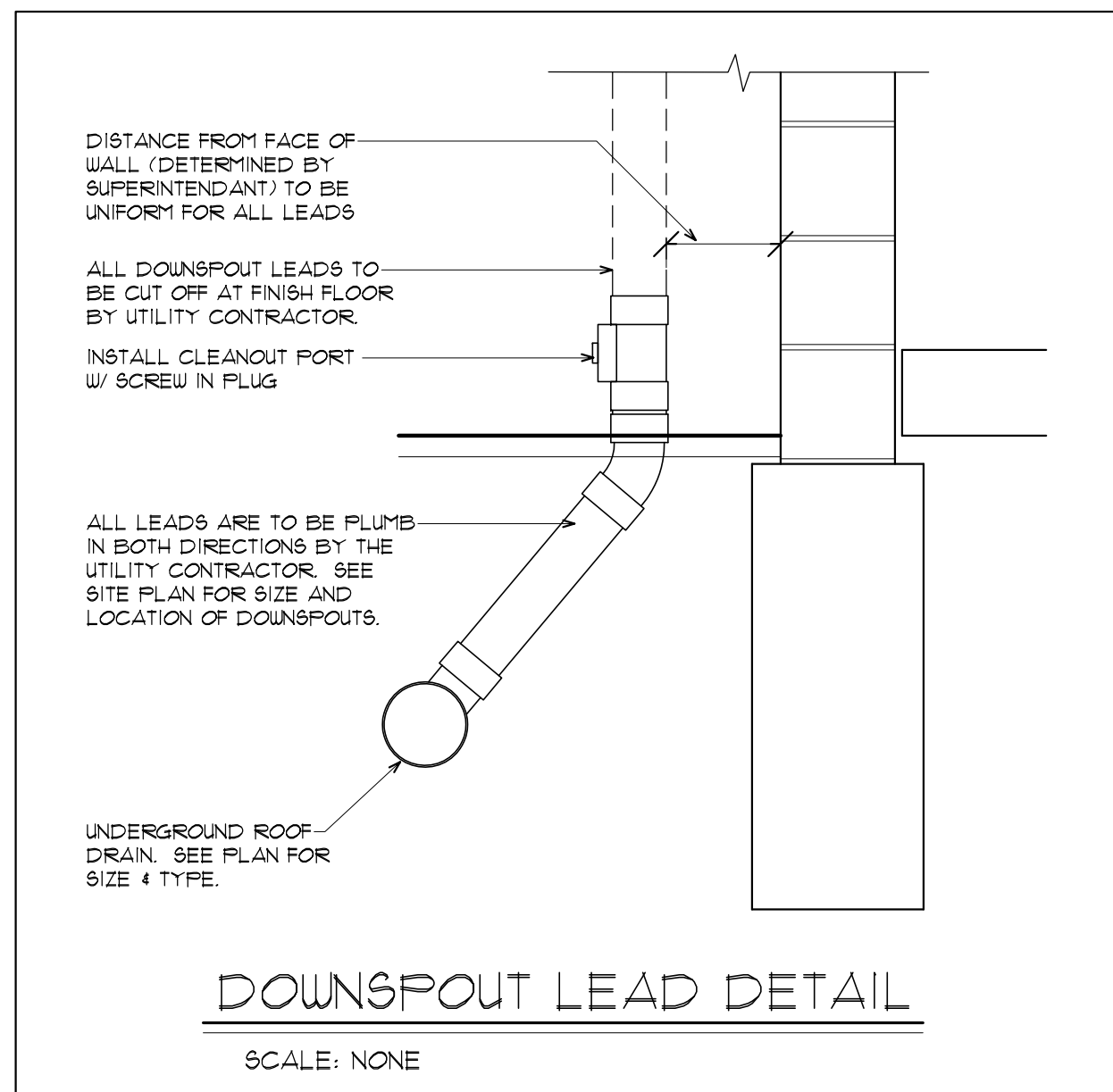
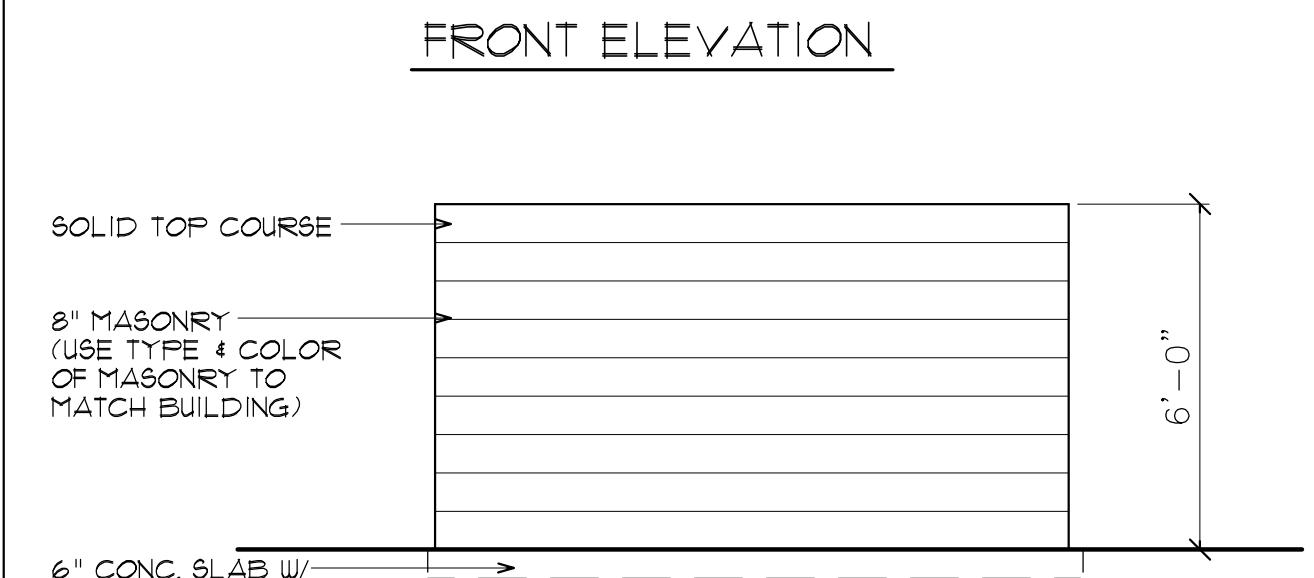
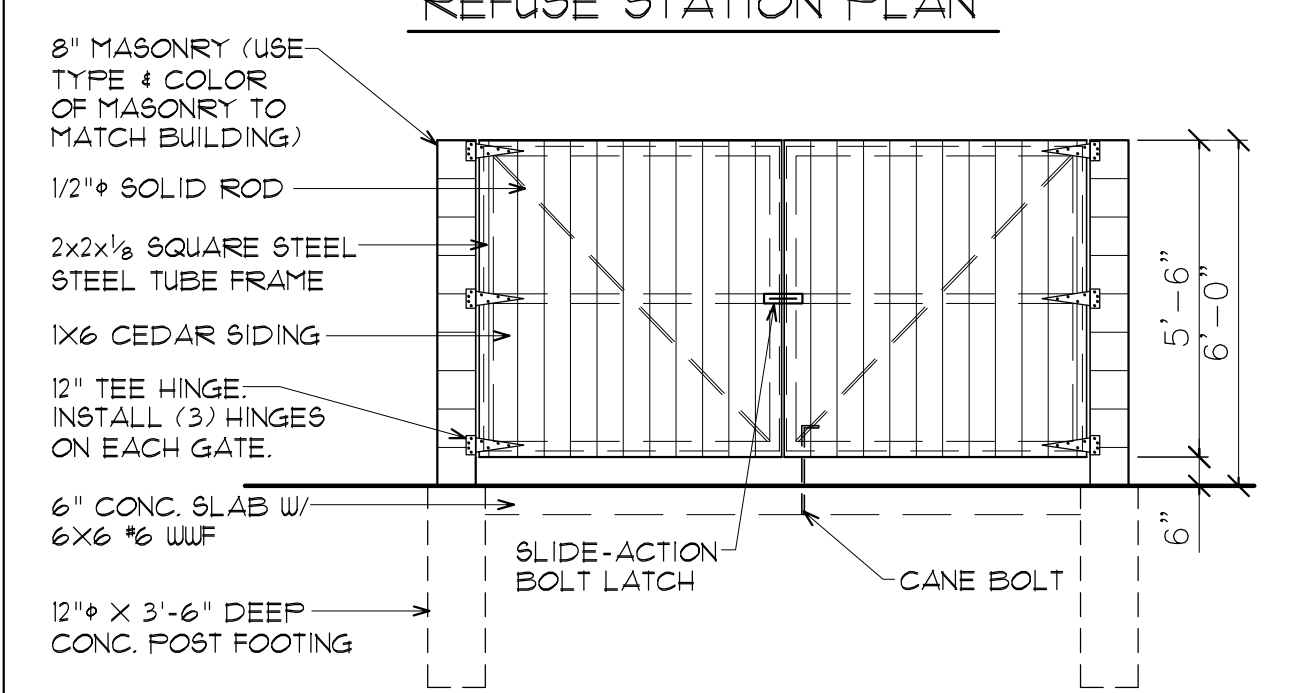
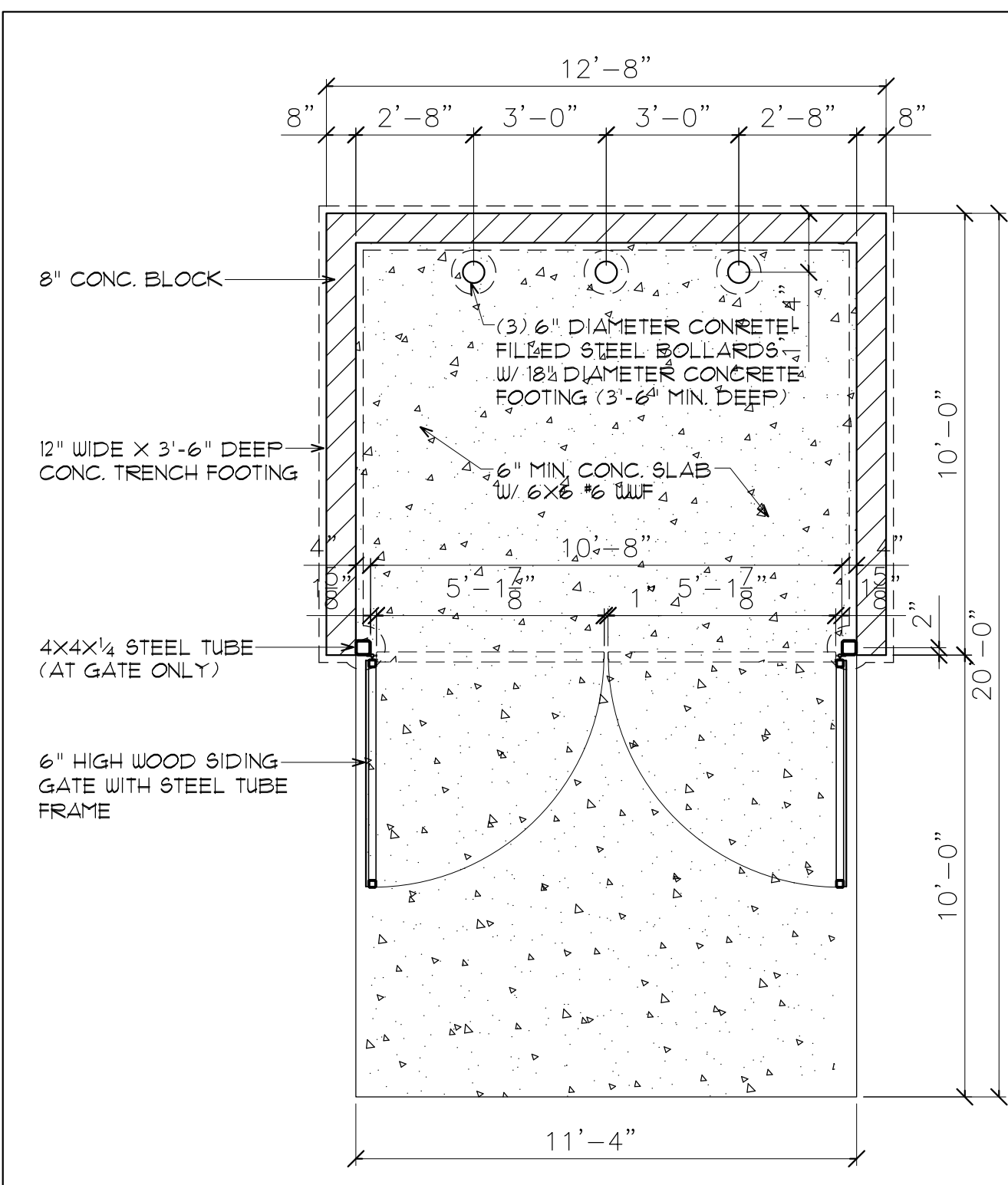
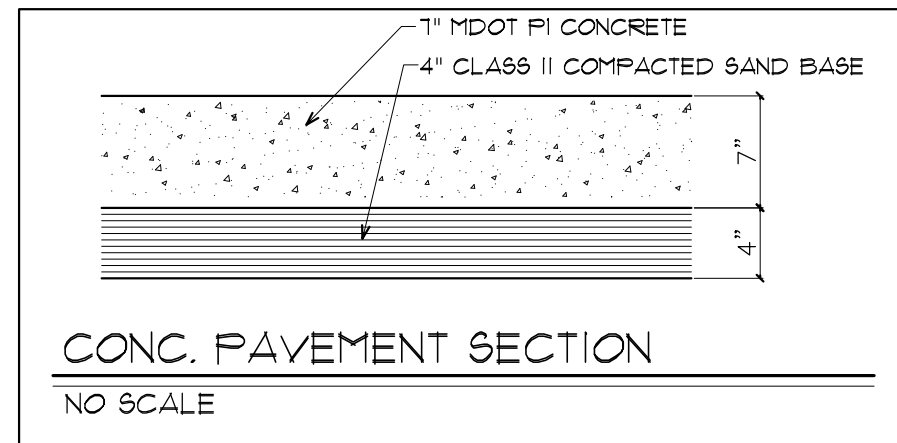
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ISSUED FOR:	DATE:
CONDITIONAL USE	3-9-17
SITE PLAN	5-9-17
REVISED	6-5-17

DRAWN BY: GAH  
JOB NO.: ---

**LANDSCAPE PLAN**  
SHEET NO.  
**C-4**



WASHTENAW COUNTY PROPOSED DRAINAGE CALCULATION

ACRES	ON-SITE
Impervious Area (0.95)	0.44
Pervious Area (0.30)	0.70
Impervious Area (0.85)	0.07
Bankfull Basin (1.0)	0.13

ALLOWABLE RELEASE RATE =  $Q_{(on-site)} = \text{ALLOWABLE RELEASE RATE} \times A =$

0.15 CFS/AC  
0.20 CFS

DETENTION VOLUME CALCULATIONS

**FIRST FLUSH VOLUME**  
 $V_{ff} = (1") \cdot (1/12") \cdot (43560 \text{ SF}/1 \text{ ac}) \times A \times C =$   $V_{ff} =$  2945 cf

**Pre-Development Bankfull Volume**  
 2-year/24 hour storm event  
 Pre-Development CN = 58  
 $S = 1000/\text{CN} - 10 =$  7.241 in.  
 $Q = (P - 0.2S)^2 / (P + 0.8S) =$  0.100 in.  
 Total Site Area (sf) excl. S-C BMPs = 58600 sf  
 $V_{df-pre} = Q/12 \times A =$  483 cf

**Pervious Cover Post-Development Bankfull Volume**  
 2-year/24 hour storm event  
 Pervious Cover CN = 61  
 $S = 1000/\text{CN} - 10 =$  6.393 in.  
 $Q = (P - 0.2S)^2 / (P + 0.8S) =$  0.154 in.  
 Pervious Cover Area (sf) = 30455 sf  
 $V_{df-per post} = Q/12 \times A_p =$  390 cf

**Impervious Cover Post-Development Bankfull Volume**  
 2-year/24 hour storm event  
 Impervious Cover CN = 97  
 $S = 1000/\text{CN} - 10 =$  0.349 in.  
 $Q = (P - 0.2S)^2 / (P + 0.8S) =$  1.978 in.  
 Impervious Cover Area (sf) = 27605 sf  
 $V_{df-imp post} = Q/12 \times A_i =$  4550 cf

**Pervious Cover Post-Development 100-Year Volume**  
 100-year storm event  
 Pervious Cover CN = 61  
 $S = 1000/\text{CN} - 10 =$  6.393 in.  
 $Q_{100-per} = (P - 0.2S)^2 / (P + 0.8S) =$  1.436 in.  
 Pervious Cover Area (sf) = 30455 sf  
 $V_{100-per post} = Q/12 \times A_p =$  3644 cf

**Impervious Cover Post-Development 100-Year Volume**  
 100-year storm event  
 Impervious Cover CN = 97  
 $S = 1000/\text{CN} - 10 =$  0.349 in.  
 $Q_{100-imp} = (P - 0.2S)^2 / (P + 0.8S) =$  4.714 in.  
 Impervious Cover Area (sf) = 27605 sf  
 $V_{100-imp post} = Q/12 \times A_{100-imp} =$  10844 cf

**Runoff Summary**

$V_{ff} =$	2945 cf
$V_{df-pre} =$	483 cf
$V_{df-per post} =$	390 cf
$V_{df-imp post} =$	4550 cf
$V_{df-post} =$	4940 cf
$V_p =$	0 cf
$V_{100-per} =$	3644 cf
$V_{100-imp} =$	10844 cf
$V_{100} =$	14488 cf

**On-Site Infiltration Requirement**  
 Greater of First Flush volume or Difference between pre and post development bankfull volumes  
 Bankfull Volume Difference =  $V_{df-post} - V_{df-pre} =$  4457 cf

**INFILTRATION DESIGN**

Required Infiltration	$V_{req-inf} =$	4457 cf
Depth of basin storage	$d =$	1 ft
Field Infiltration Rate	$I_f =$	0.5 in/hr
Design Infiltration Rate $I_d = I_f / 2$	$I_d =$	0.25 in/hr
Infiltration period	$t_i =$	6 hr
Infiltration Interface Area	$A_i =$	4100 sf
Initial Infiltration Volume	$V_i = A_i \times I_d \text{ (in/hr)} \times t_i \text{ (hr)} =$	512 cf
Basin Storage Volume	$V_b =$	4100 cf
Total Proposed Infiltration	$V_{inf} =$	4612 cf

**On-Site Infiltration Proposed**  
 On-Site design soil infiltration rate  $I_{so} =$  0.25 in/hr  
**PROPOSED INFILTRATION  $V_{inf} =$**  4612 cf  
**INFILTRATION PERIOD  $T_i =$**  54.0 hr

DRAINAGE AREA CALCULATIONS

Pre-Development	Cover Type	Soil Type	AREA(sf)	AREA(ac)	C Value	CN	CN'A
Meadow	B	B	58060	1.333	0.30	58	77
			TOTAL	58060	1.333	Weighted CN	58
Post-Development	Cover Type	Soil Type	AREA(sf)	AREA(ac)	C Value	CN	CN'A
Impervious	Pavement	B	1165	0.027	0.95	98	3
	Pond	B	5500	0.126	1	98	12
	Gravel	B	2910	0.067	0.85	85	6
	Building	B	18000	0.413	0.95	98	40
			TOTAL	27605	0.634	Weighted CN	97
Pervious	Lawn	B	30455	0.699	0.30	61	43
			TOTAL	30455	0.699	Weighted CN	61

**Time of Concentration**

Flow Type	K	Elev. Change	Length (L)	Slope % (S)	$S^{0.5}$	$V_e \times S^{0.5}$	$T_c = L / (V \times 3600)$
Sheet Flow	0.48	4.0	300	1.300	1.140	0.547	0.152
Watenway	1.20	0.5	100	1.300	1.140	1.368	0.020
Small Tributary	2.10	0.0	0	0.000	0.000	0.000	0.000

**REQUIRED DETENTION VOLUME WITH INFILTRATION**  
 $V_{det} = V_b - V_{inf} =$  9651 cf

**BASIN STORAGE PROVIDED**

ELEV.	AREA (FT <sup>2</sup> )	DEPTH (FT)	VOLUME (FT <sup>3</sup> )	TOTAL VOLUME (FT <sup>3</sup> )	Freeboard
920.6	8935	0.6	5,041	17,592	Design Volume
920	7867	1	7,054	12,552	
919	6240	1	5,498	5,498	
918	4756	1	4,100	4,100	Infiltration
917	3443	0	0	0	

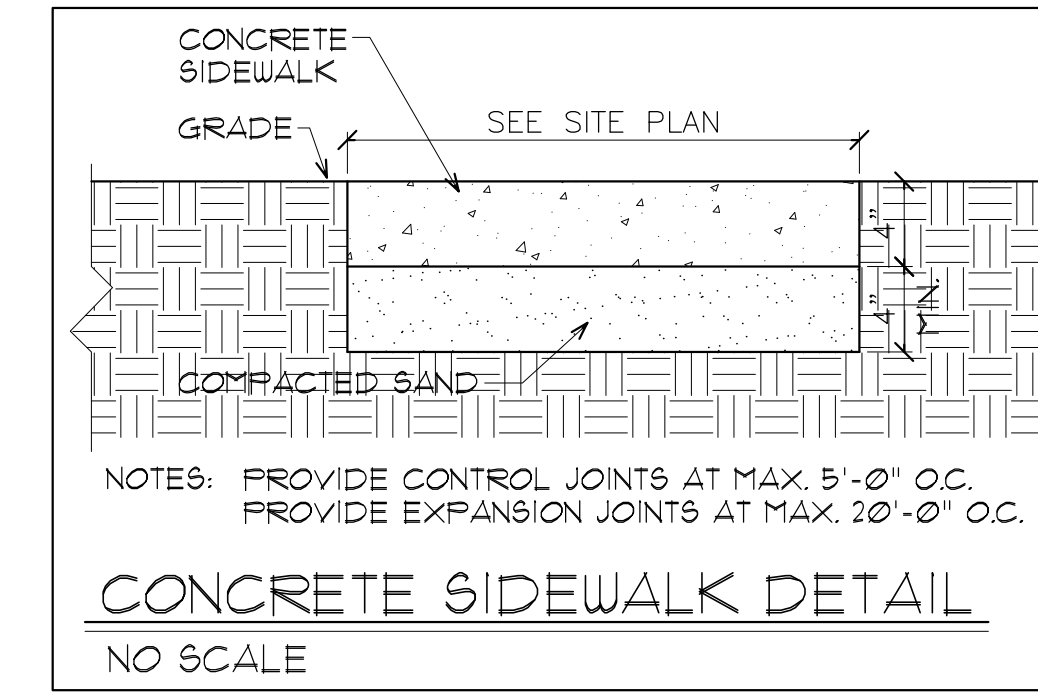
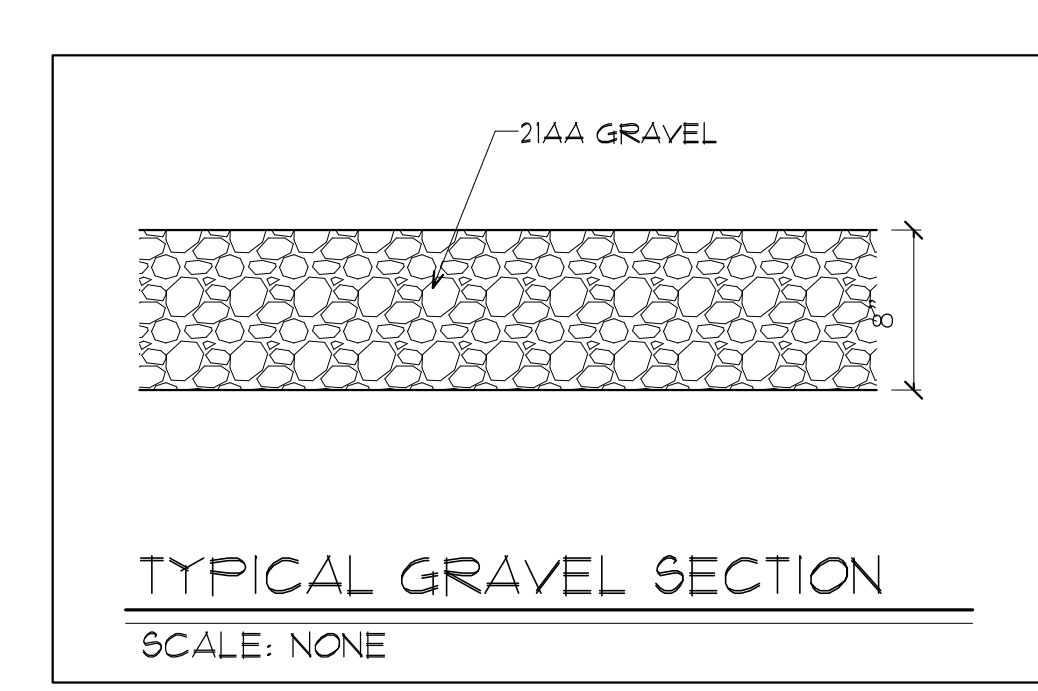
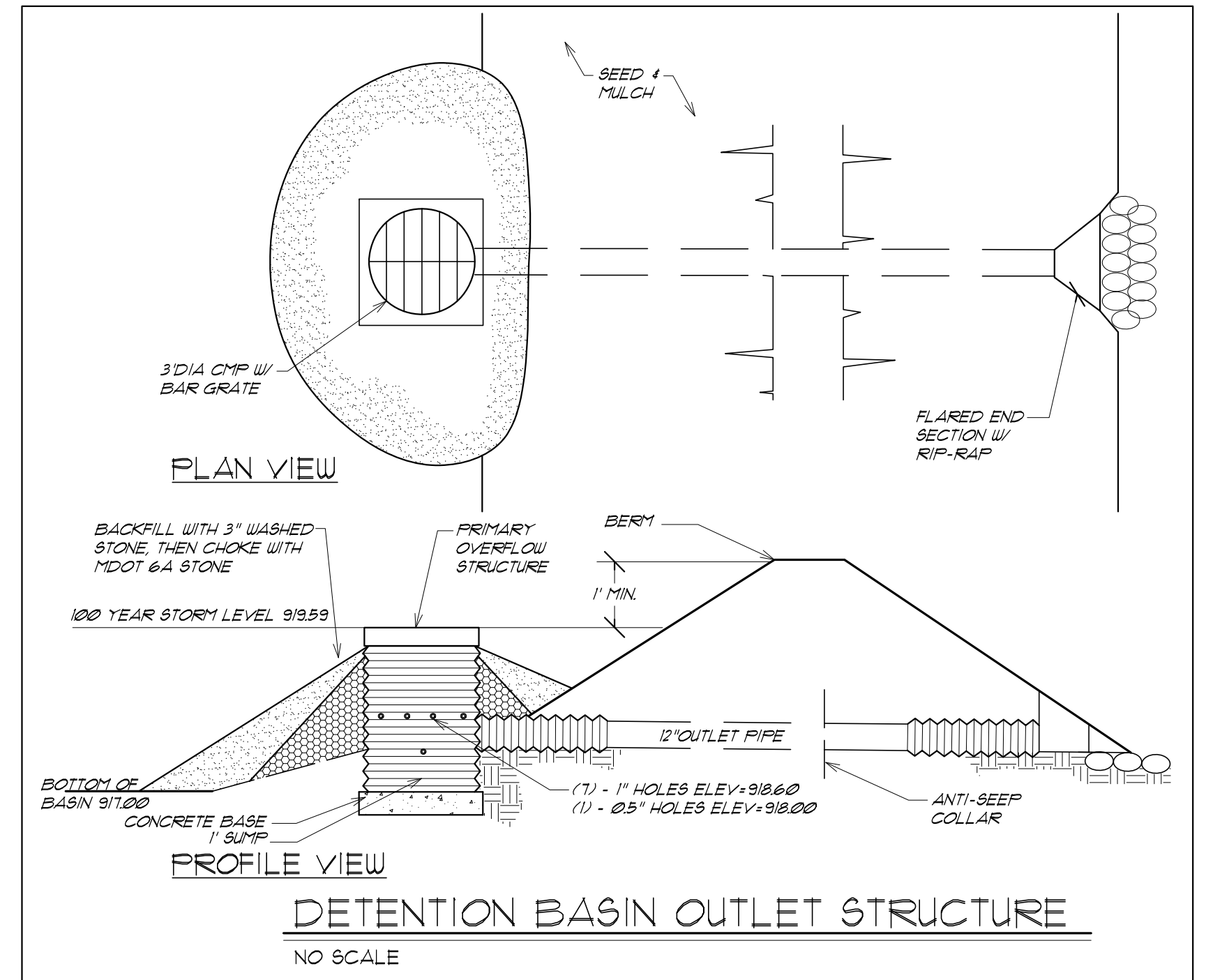
**BOTTOM OF BASIN  $X_b =$**  917.00  
**INFILTRATION  $X_i =$**  918.00  
**FIRST FLUSH  $X_{ff} =$**  917.72  
**BANKFULL  $X_{bf} =$**  918.60  
**100 YEAR  $X_{100} =$**  919.59

**PROPOSED OUTLET CONTROL**  
**BANKFULL FLOOD**  
 A PORTION OF THE BANKFULL VOLUME SHALL BE STORED FOR INFILTRATION  
 THE REMAINING VOLUME SHALL DISCHARGE THROUGH HOLES AT THE TOP OF THE INFILTRATION STORAGE X  
 REMAINING VOLUME = 325 CF  
 $Q_{BF} = \text{REMAINING VOLUME} \times (1 / 24 \text{ HRS}) \times (1 / 3600 \text{ SEC}) =$  0.004 CFS  
 PLACE OPENINGS AT INFILTRATION STORAGE ELEVATION = 918.00  
 $h_{ave} = 2/3 \times (X_{BF} - X_i) =$  0.40 FT  
 $A = Q_{BF} / \{ (0.62 \times \text{SQRT}(2 \times 32.2 \times h_{ave})) \} =$  0.001 SF  
 THEREFORE, USE 1 INCH DIAMETER ORIFICE HAS AN AREA OF 0.001 SF

**100 YEAR FLOOD**  
 $Q_a = \text{ALLOWABLE RELEASE RATE} \times \text{AREA SITE IN ACRES} =$  0.20 CFS  
 $Q_a$  IS A PEAK OR MAXIMUM FLOW. CALCULATE THE MAXIMUM FLOW PASSING THROUGH BANKFULL ORIFICES, USING THE TOTAL HEAD, AND SUBTRACT FROM  $Q_a$  TO DETERMINE THE ORIFICE SIZE TO RELEASE THE 100 YEAR STORM VOLUME:  
 $Q_{BF} = 0.62 \times \# \text{HOLES} \times \text{AREA EACH HOLE} \times (2 \times 32.2 \times (X_{100} - X_i))^{0.5}$   
 $Q_{BF} =$  0.01 CFS  
 $Q_a - (Q_{BF}) =$  0.19 CFS  
 $A = Q_a / (0.62 \times (2 \times 32.2 \times (X_{100} - X_i))^{0.5}) =$  0.039 SF  
 THEREFORE, USE THE FOLLOWING NUMBER OF 1" DIAMETER HOLES:  
 7 HOLES AT ELEV. = 918.60

**SUMMARY OF REQUIRED STANDPIPE HOLES:**

ELEVATION	# OF HOLES	DIAMETER OF HOLES
918.60	7	1 in.
918.00	1	0.5 in.



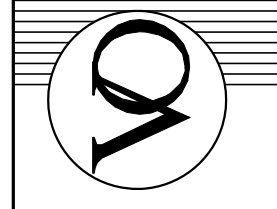
ANN ARBOR DOG TRAINING  
 Vanston/O'Brien, Inc.  
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ISSUED FOR: DATE:  
 CONDITIONAL USE 3-9-17  
 SITE PLAN 5-9-17  
 REVISED 6-5-17

DRAWN BY: GAH/CLN  
 JOB NO.:  
 DETAIL SHEET  
 SHEET NO.  
**C-5**



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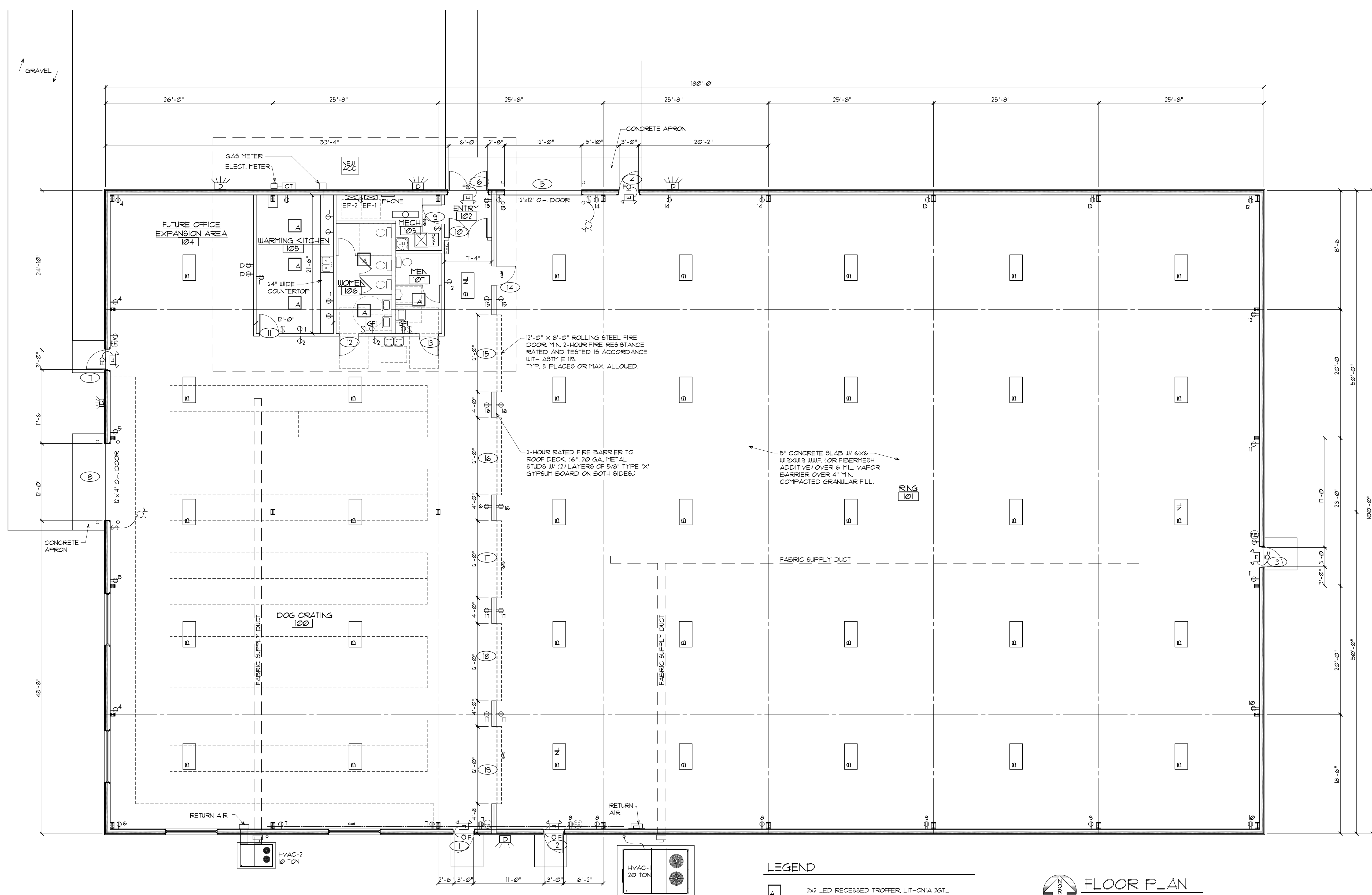
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ISSUED FOR:	DATE:
REVIEW	5-31-12
PROPOSAL	6-5-12
REVISED	4-26-16
REVISED	5-3-16
PROPOSAL	7-11-16
REVISED	5-17-17

DRAWN BY: CLN/SA  
JOB NO.:

FLOOR PLAN  
SHEET NO.

A-1



LEGEND

- A 2x2 LED RECESSED TROFFER, LITHONIA 2GTL
- B 2x4 LED HIGH-BAY, LITHONIA 1BH (12,000 LUMENS)
- B BM SAME AS B' W/ BATTERY BACKUP
- B NL SAME AS B' ON A NIGHT LIGHT CIRCUIT
- 4'-0" LONG 2 TUBE, CHAIN HUNG, FLUORESCENT LIGHT FIXTURE
- Ⓛ LED, 76 WATT, WALL-MOUNTED, DOWN LIGHT, EXTERIOR FIXTURE.
- ⊗ X EXIT SURFACE MOUNTED EMERGENCY EXIT SIGN SHALL BE "LED" W/ BATTERY BACK UP. LITHONIA • LQMSUR 120/211 EL
- Ⓛ X EXIT/COMBO SAME AS TYPE EBU AND X EXCEPT COMBINATION. LITHONIA • LQMSUR 120/211 H.
- FQ REMOTE EMERGENCY EGRESS UNIT VIA E'.
- Ⓚ BATH EXHAUST FAN
- Ⓛ(1) NEW DUPLEX ELECTRICAL RECEPTACLE. NUMBER DEFINES CIRCUIT.
- Ⓛ(D) SAME AS ABOVE - ON DEDICATED CIRCUIT
- Ⓛ SWITCH
- Ⓛ(3) THREE-WAY SWITCH
- Ⓛ(E) FIRE EXTINGUISHER
- Ⓛ(E)C FIRE EXTINGUISHER IN CABINET

FLOOR PLAN  
SCALE: 1/8" = 1'-0"

HVAC, PLUMBING & ELECTRICAL GENERAL NOTES:

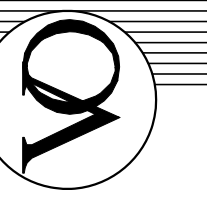
- These drawings are to be considered as design drawings only, and are meant to establish minimum requirements for the project.
- Work not identified on the drawings, however, required by code and/or required to provide complete operable systems shall be the subcontractors responsibility.
- Subcontractor shall be responsible for final shop drawings, properly engineered and containing all information as may be required by the local Building Department for issuance of the building permit. Sealed drawings shall not be part of the subcontractors responsibility.

MECHANICAL NOTES:

- All supply air ducts shall be wrapped with insulation.
- HVAC contractor shall be responsible for all roof curbs, wall penetrations, curbs, flashings and seals as required.
- Supply and return air duct sizes to be determined by mechanical contractor.
- Gas piping sizes shall be determined by mechanical contractor.

PLUMBING NOTES:

- All sanitary piping shall be SCH. 40 PVC.
- All hot and cold water piping shall be type K copper.
- All cold water piping shall be insulated.



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PROPOSAL	7-11-16
REVISED	5-17-17

DRAWN BY: CLN  
JOB NO.:

ELEVATIONS  
SHEET NO.

**A-2**

