

KALAMAZOO RESA CAREER & TECHNICAL EDUCATION CENTER

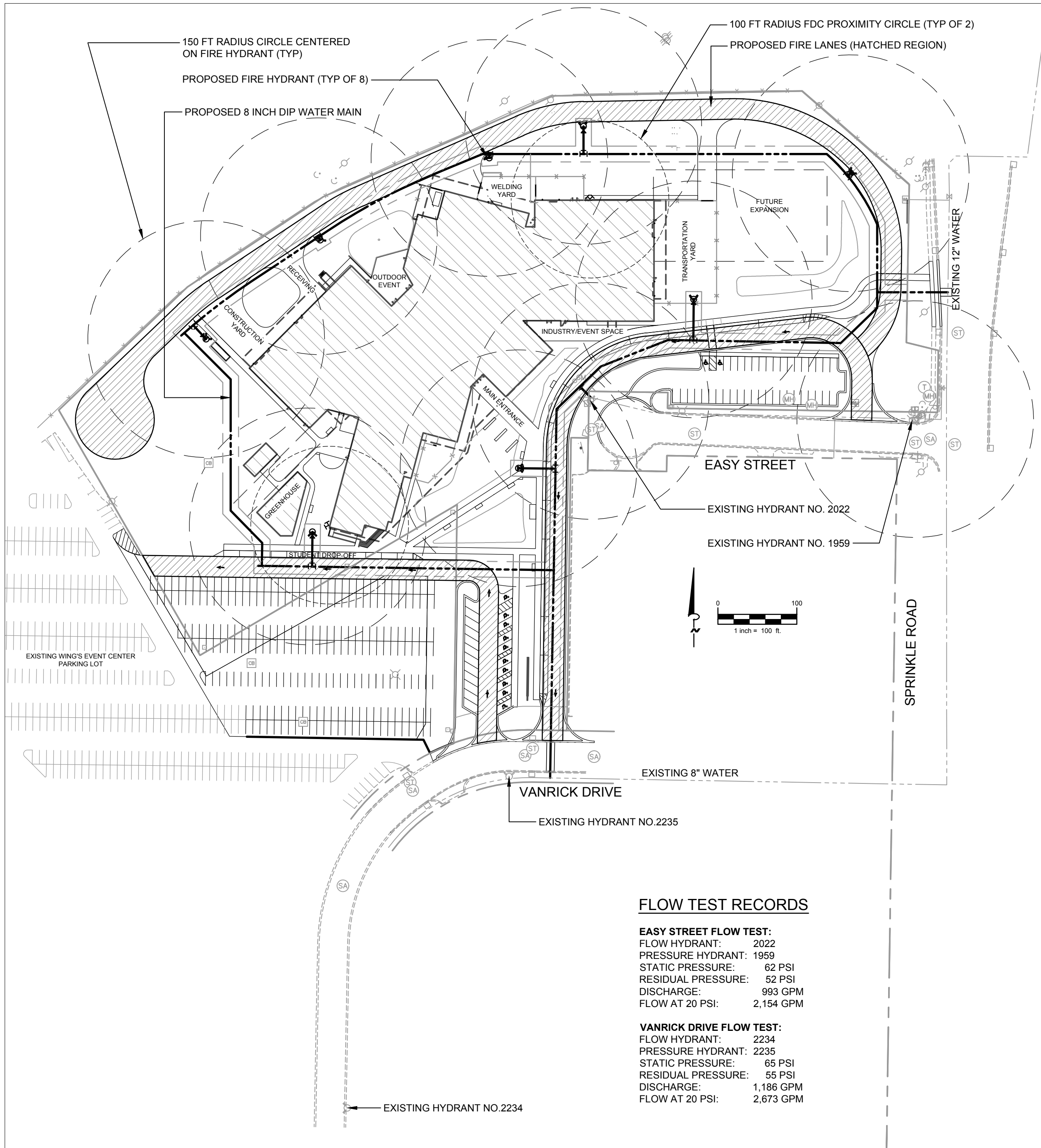
Site Plan Review
City of Kalamazoo
08/10/2022

GENERAL NOTES

EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS OR IN THE PROPOSAL AND SPECIFICATIONS CONTAINED THEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 2020 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION.

THE PLACING OF PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SHALL BE DONE IN ACCORDANCE WITH THE 2011 MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS AMENDED.

IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, ALL CONTRACTORS SHALL CALL MISS DIG @ 811 OR 800-482-7171 FOR PROTECTION OF UNDERGROUND UTILITIES A MINIMUM OF THREE FULL WORKING DAYS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) PRIOR TO BEGINNING EACH EXCAVATION IN ANY AREA. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.



SITE PLAN
RULE 6 ELEMENTS LOCATION MAP
SCALE: 1" = 100'

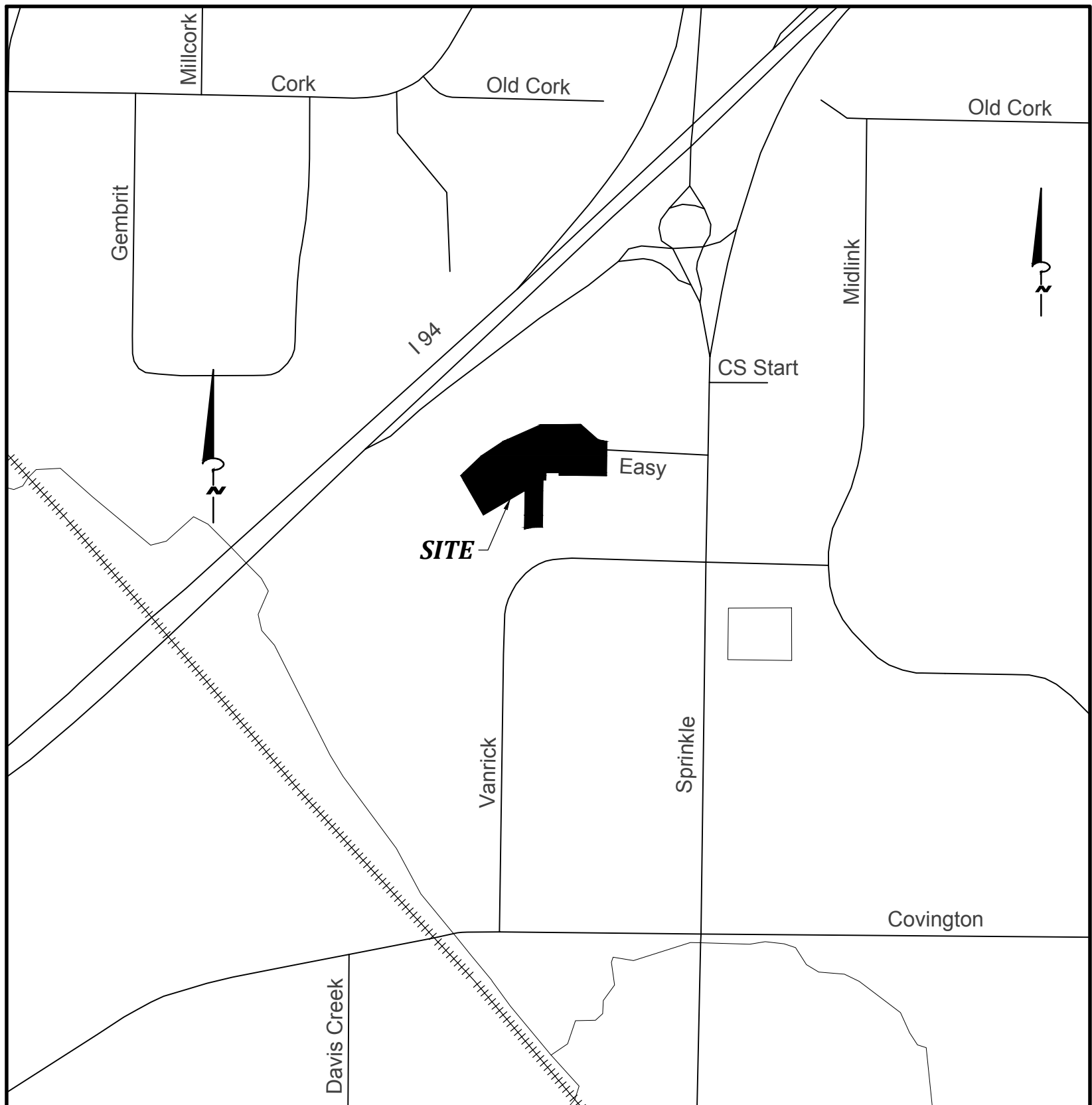
UTILITIES

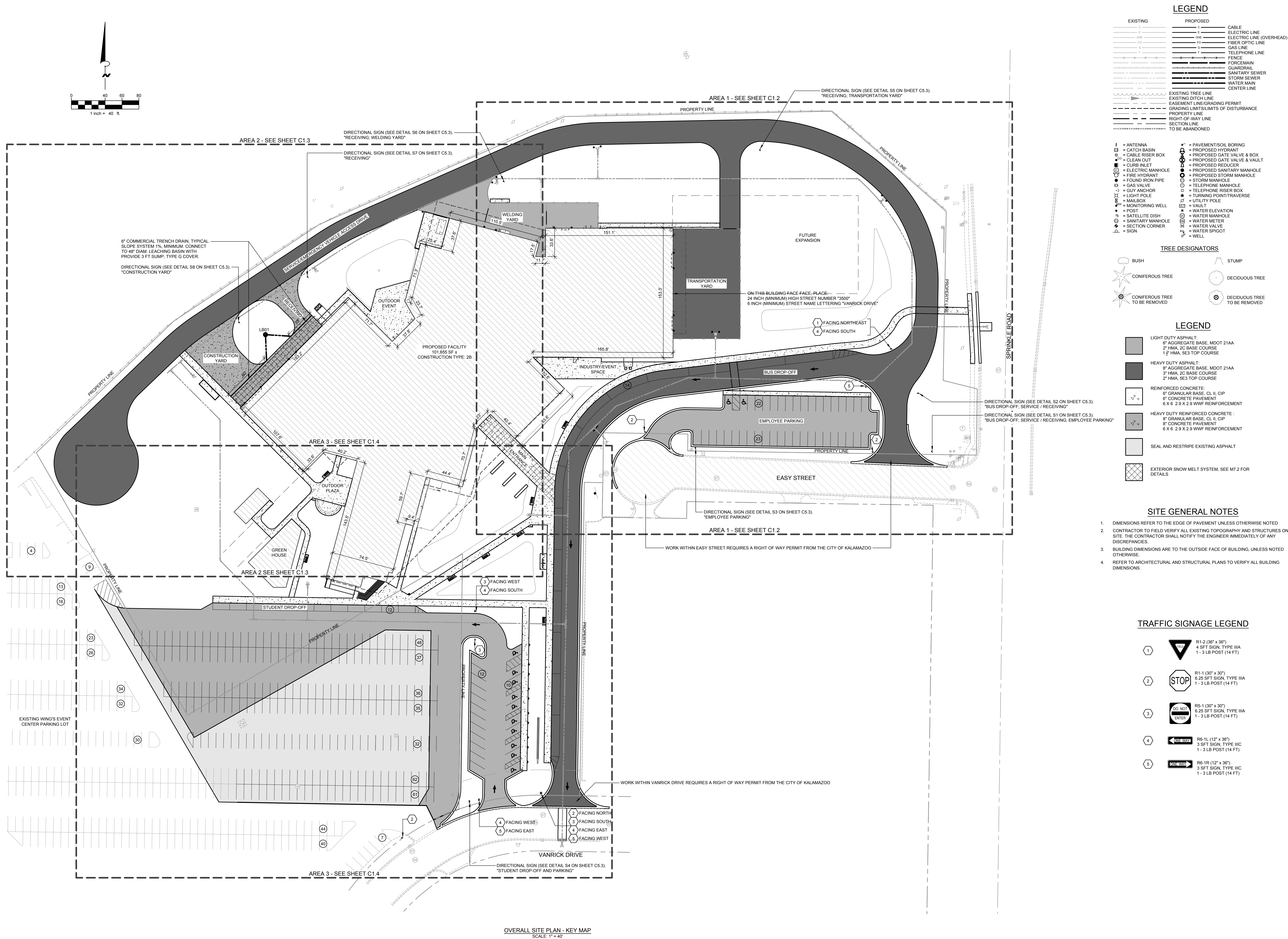
ELECTRIC:	CONSUMERS ENERGY 2500 E. CORK STREET KALAMAZOO, MI 49001 ANDRE TAYLOR (269) 337-2245 ANDRE.TAYLOR@CMENERGY.COM
GAS:	CONSUMERS ENERGY 2500 E. CORK STREET KALAMAZOO, MI 49001 CHAD DEVOS CHAD.DEVOS@CMENERGY.COM
TELEPHONE:	ATT 2919 MILLCORK STREET KALAMAZOO, MI 49001 CHRIS O'BRIEN (810) 407-3523 CO2391@ATT.COM
CABLE:	CHARTER COMMUNICATIONS (800) 242-8511 TWC_UTILITY_REQUESTS@CCISYSTEMS.COM
	COMCAST CABLE 25626 TELEGRAPH ROAD SOUTHFIELD, MI 48034 JEFF DOBIES (734) 359-1669
FIBER OPTIC:	KRESA 1819 E MILHAM AVENUE PORTAGE, MI 49002 BRIAN SCHUPBACH (269) 250-9255 BRIAN.SCHUPBACH@KRESA.ORG
	US SIGNAL CHAD WINKLER (269) 295-6455 CWINKLER@TKNS.NET
WATER:	CITY OF KALAMAZOO 415 E. STOCKBRIDGE AVENUE KALAMAZOO, MI 49001 ANNA CRANDALL (269) 337-8055 CRANDALLA@KALAMAZOOCITY.ORG
SEWER:	CITY OF KALAMAZOO 1415 NORTH HARRISON STREET KALAMAZOO, MI 49001 SOHIL MANJIYANI (269) 216-1794 MANJIYANIS@KALAMAZOOCITY.ORG
"MISS DIG"	811

INDEX OF PLANS

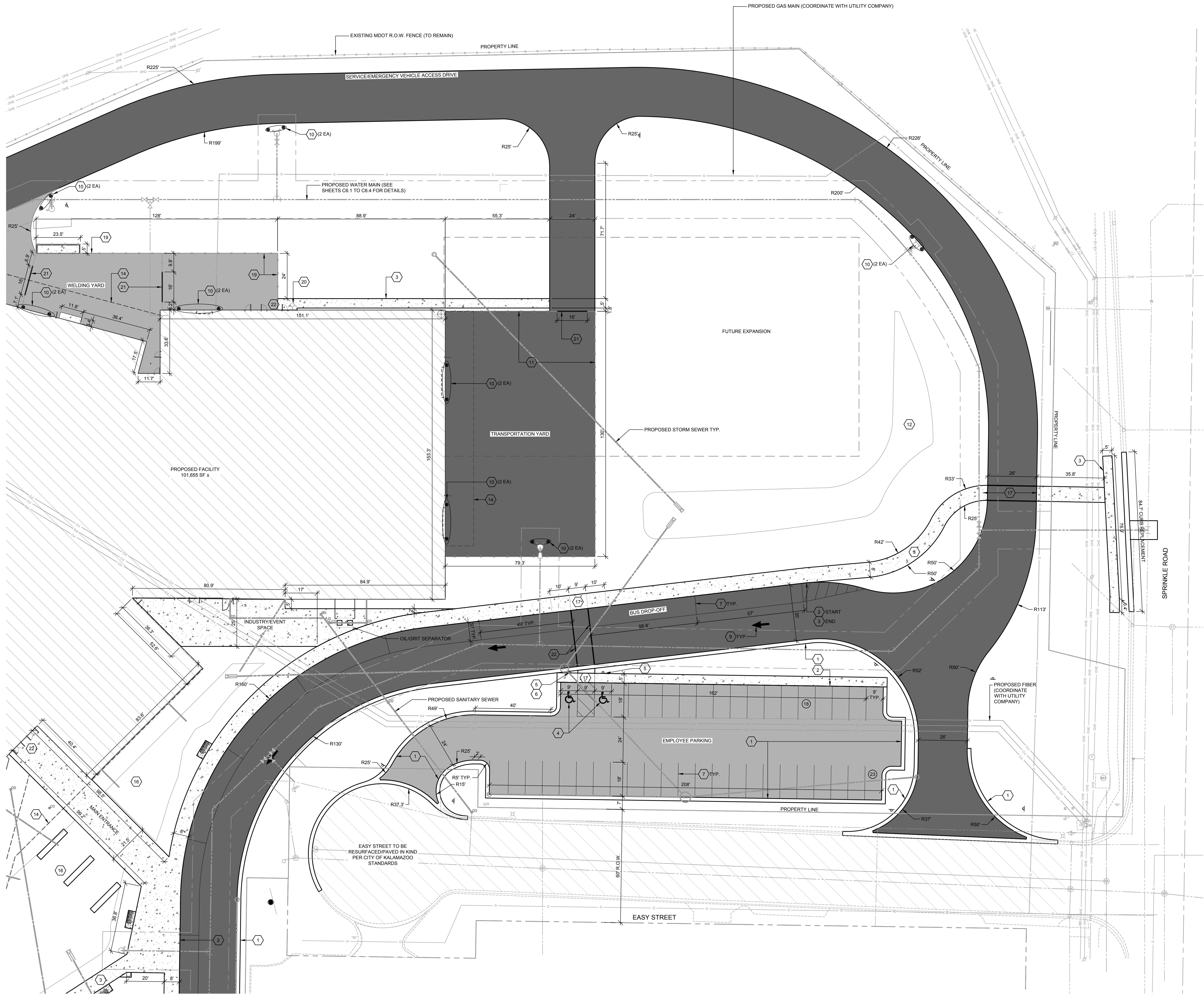
CD.1	CIVIL COVER SHEET
CD.1.1	DEMOLITION PLAN
C1.1	SITE LAYOUT PLAN - OVERALL
C1.2	SITE LAYOUT PLAN - AREA 1
C1.3	SITE LAYOUT PLAN - AREA 2
C1.4	SITE LAYOUT PLAN - AREA 3
C1.5	SITE LAYOUT PLAN - SITE LIGHTING
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C2.3	GRADING & DRAINAGE PLAN - AREA 2
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C5.3	SITE IMPROVEMENT DETAILS
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OB.2	PLAN AND PROFILE: SOUTHWEST WATER MAIN LOOP - STA. 55+00 TO STA. 62+50
OB.3	PLAN AND PROFILE: SERVICE/EMERGENCY VEHICLE ACCESS DRIVE - STA. 30+00 TO STA. 37+50
OB.4	PLAN AND PROFILE: SERVICE/EMERGENCY VEHICLE ACCESS DRIVE - STA. 37+50 TO STA. 45+00
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L2.1	SITE LANDSCAPE PLAN - OVERALL
L2.2	SITE LANDSCAPE PLAN - ENLARGEMENTS 1, 2, 3 & 4
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E6.3	ELECTRICAL DETAILS
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ELECTRICAL AND MECHANICAL DETAILS PROVIDED FOR REFERENCE - FINAL MEP DETAILS TO BE RELEASED IN FUTURE BID PACKAGES











OVERALL SITE PLAN - KEY MAP
SCALE: 1" = 40'



SITE PLAN - AREA 1
SCALE: 1" = 20'

LEGEND		
EXISTING	PROPOSED	
		CABLE
		ELECTRIC LINE
		ELECTRIC LINE (OVERHEAD)
		FIBER OPTIC LINE
		GAS LINE
		TELEPHONE LINE
		FENCE
		FORCEMAIN
		GUARDRAIL
		SANITARY SEWER
		STORM SEWER
		WATER MAIN
		CENTER LINE
		EXISTING TREE LINE
		EXISTING DITCH LINE
		EASEMENT LINE/GRADING PERMIT
		GRADING LIMITS/LIMITS OF DISTURBANCE
		PROPERTY LINE
		RIGHT-OF-WAY LINE
		SECTION LINE
		TO BE ABANDONED

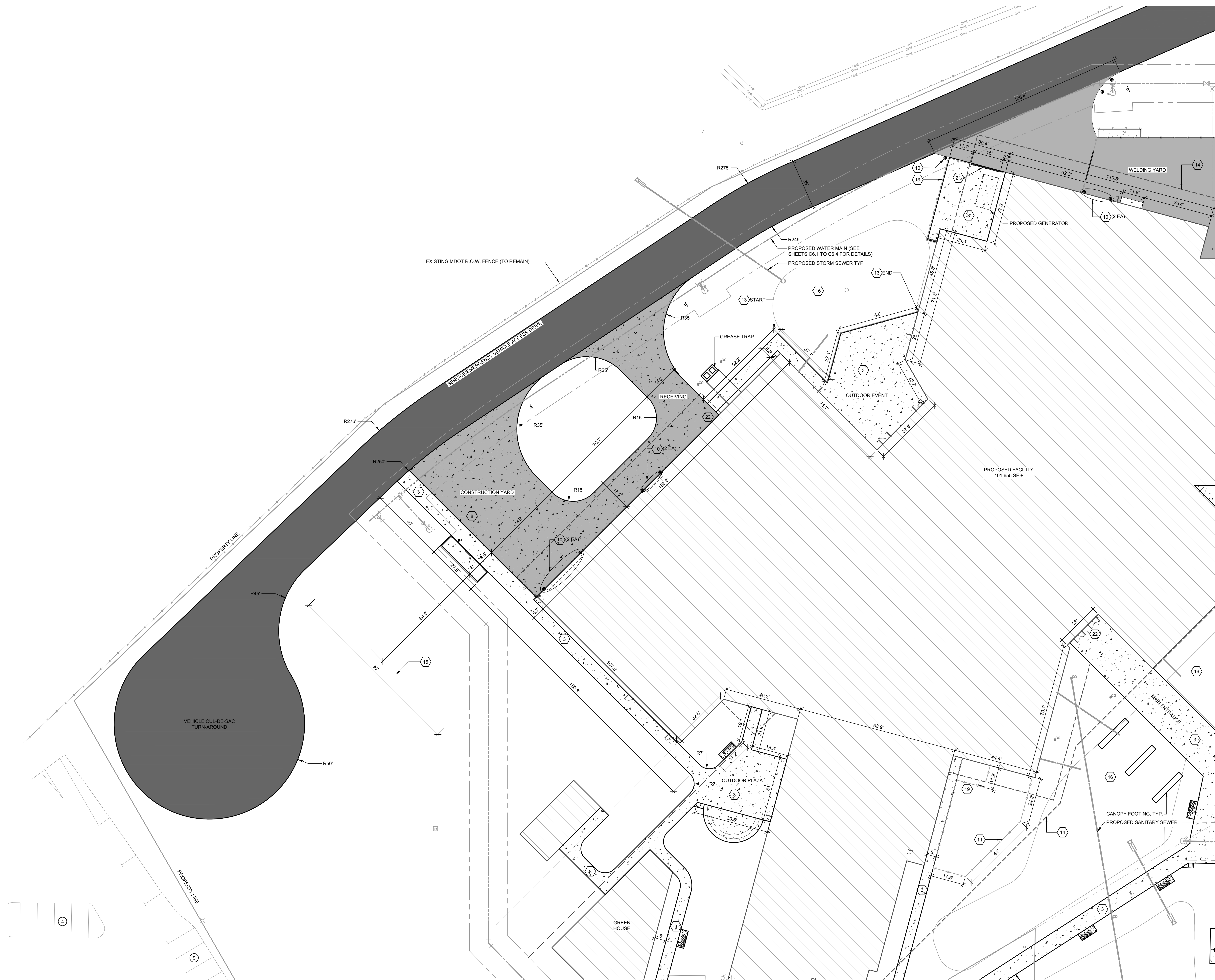
	1 = ANTENNA		10 = PAVEMENT/SOIL BORING
	2 = CATCH BASIN		11 = PROPOSED HYDRANT
	3 = CABLE RISER BOX		12 = PROPOSED GATE VALVE & BOX
	4 = CLEAN OUT		13 = PROPOSED REDUCER
	5 = CURB INLET		14 = PROPOSED SANITARY MANHOLE
	6 = ELECTRIC MANHOLE		15 = PROPOSED STORM MANHOLE
	7 = FIRE HYDRANT		16 = FOUND IRON PIPE
	8 = FOUND IRON PIPE		17 = TELEPHONE MANHOLE
	9 = GAS VALVE		18 = TELEPHONE RISER BOX
	10 = GUY ANCHOR		19 = TURNING POINT/TRAVERSE
	11 = LIGHT POLE		20 = UTILITY POLE
	12 = MAILBOX		21 = VAULT
	13 = MONITORING WELL		22 = WATER ELEVATION
	14 = POST		23 = WATER MANHOLE
	15 = SATELLITE DISH		24 = WATER METER
	16 = SANITARY MANHOLE		25 = WATER VALVE
	17 = SECTION CORNER		26 = WATER SPIGOT
	18 = SIGN		27 = WELL

<u>TREE DESIGNATORS</u>			
	BUSH		STUMP
	CONIFEROUS TREE		DECIDUOUS TREE
	CONIFEROUS TREE TO BE REMOVED		DECIDUOUS TREE TO BE REMOVED

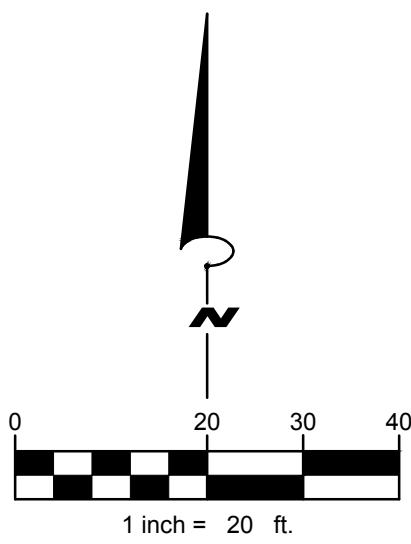
LEGEND	
	LIGHT DUTY ASPHALT: 6" AGGREGATE BASE, MDOT 21AA 2" HMA, 13A BASE COURSE 1 1/2" HMA, 36A TOP COURSE
	HEAVY DUTY ASPHALT: 8" AGGREGATE BASE, MDOT 21AA 3" HMA, 2C BASE COURSE 2" HMA, 36A TOP COURSE
	REINFORCED CONCRETE: 6" GRANULAR BASE, CL II, CIP 6" CONCRETE PAVEMENT 6 X 6 2.9 X 2.9 WWF REINFORCEMENT
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	SEAL AND RESTRIPE EXISTING ASPHALT

- SITE GENERAL NOTES**
- DIMENSIONS REFER TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED
 - CONTRACTOR TO FIELD VERIFY ALL EXISTING TOPOGRAPHY AND STRUCTURES ON SITE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
 - BUILDING DIMENSIONS ARE TO THE OUTSIDE FACE OF BUILDING, UNLESS NOTED OTHERWISE.
 - REFER TO ARCHITECTURAL AND STRUCTURAL PLANS TO VERIFY ALL BUILDING DIMENSIONS.

- KEY NOTES**
- TYPE C4 CURB AND GUTTER (SEE DETAILS)
 - THICKENED EDGE SIDEWALK INTEGRAL CURB AND GUTTER (SEE DETAILS)
 - CONCRETE SIDEWALK, TYP.
 - ACCESSIBLE PAVEMENT MARKINGS, TYP. (SEE DETAILS)
 - ACCESSIBLE PARKING SIGN, TYP. (MUTCD R7-8)
 - ACCESSIBLE PARKING SIGN, TYP. (MUTCD R7-8P)
 - 4" WIDE PAINTED SOLID WHITE LINE, TYP.
 - REFUSE ENCLOSURE (SEE ARCHITECTURAL)
 - DIRECTIONAL PAVEMENT MARKING (SEE DETAILS)
 - CONCRETE FILLED BOLLARD (SEE DETAILS)
 - ARCHITECTURAL FENCING, 8 FT
 - BIO-SWALE/RAIN GARDEN
 - RETAINING WALL
 - ROOF/ SECOND STORY OVERHANG
 - BRANDING WALL
 - WATER FEATURE
 - PEDESTRIAN RAMP
 - STAIR AND PEDESTRIAN RAMP
 - BLACK VINYL COATED CHAIN LINK FENCE, 8 FT
 - FIRE DEPARTMENT CONNECTION WITH SIGN, HORN, & STROBE PER CITY STANDARDS
 - GATE (MATERIAL TO MATCH FENCE)
 - KNOX BOX



SITE PLAN - AREA 2
SCALE: 1" = 20'



LEGEND

EXISTING	PROPOSED	
—	—	CABLE
—	—	ELECTRIC LINE (OVERHEAD)
—	—	FIBER OPTIC LINE
—	—	GAS LINE
—	—	TELEPHONE LINE
—	—	FENCE
—	—	FORCEMAIN
—	—	GUARDRAIL
—	—	SANITARY SEWER
—	—	STORM SEWER
—	—	WATER MAIN
—	—	CENTER LINE
—	—	EXISTING TREE LINE
—	—	EXISTING DITCH LINE
—	—	EASEMENT LINE/GRADING PERMIT
—	—	GRADING LIMITS/LIMITS OF DISTURBANCE
—	—	PROPERTY LINE
—	—	RIGHT-OF-WAY LINE
—	—	SECTION LINE
—	—	TO BE ABANDONED

1 = ANTENNA	• = PAVEMENT/SOIL BORING
2 = CATCH BASIN	• = PROPOSED HYDRANT
3 = CABLE RISER BOX	• = PROPOSED GATE VALVE & BOX
4 = CLEAN OUT	• = PROPOSED REDUCER
5 = CURB INLET	• = PROPOSED SANITARY MANHOLE
6 = ELECTRIC MANHOLE	• = PROPOSED STORM MANHOLE
7 = FIRE HYDRANT	• = STORM MANHOLE
8 = FOUND IRON PIPE	• = TELEPHONE MANHOLE
9 = GAS VALVE	• = TELEPHONE RISER BOX
10 = GUY ANCHOR	• = TURNING POINT/TRAVERSE
11 = LIGHT POLE	• = UTILITY POLE
12 = MAILBOX	• = VAULT
13 = MONITORING WELL	• = WATER ELEVATION
14 = POST	• = WATER MANHOLE
15 = SATELLITE DISH	• = WATER METER
16 = SANITARY MANHOLE	• = WATER VALVE
17 = SECTION CORNER	• = WATER SPIGOT
18 = SIGN	• = WELL

TREE DESIGNATORS

BUSH	STUMP
CONIFEROUS TREE	DECIDUOUS TREE
CONIFEROUS TREE TO BE REMOVED	DECIDUOUS TREE TO BE REMOVED

LEGEND

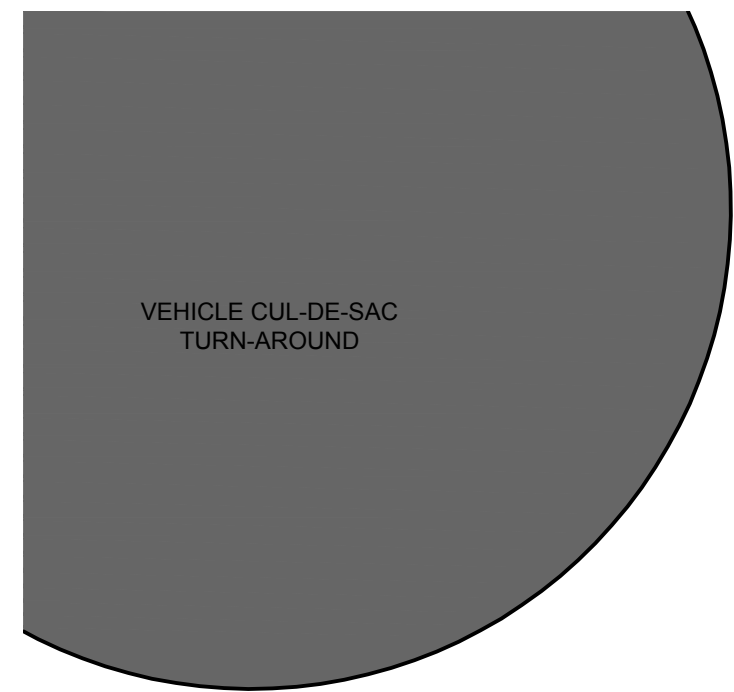
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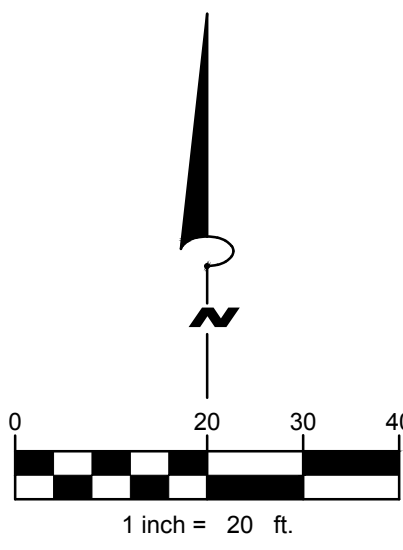
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- ACCESSIBLE PARKING SIGN, TYP. (MUTCD R7-8)
- ACCESSIBLE PARKING SIGN, TYP. (MUTCD R7-8P)
- 4" WIDE PAINTED SOLID WHITE LINE, TYP.
- REFUSE ENCLOSURE (SEE ARCHITECTURAL)
- DIRECTIONAL PAVEMENT MARKING (SEE DETAILS)
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- ARCHITECTURAL FENCING, 8 FT
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- GATE (MATERIAL TO MATCH FENCE)
- KNOX BOX



VEHICLE CUL-DE-SAC
TURN-AROUND

PROPOSED WATER MAIN (SEE
SHEETS C6.1 TO C6.4 FOR DETAILS)

SITE PLAN - AREA 3
SCALE: 1" = 20'



LEGEND

EXISTING	PROPOSED	
—	—	CABLE
—	—	ELECTRIC LINE (OVERHEAD)
—	—	FIBER OPTIC LINE
—	—	GAS LINE
—	—	TELEPHONE LINE
—	—	FENCE
—	—	FORCEMAIN
—	—	GUARDRAIL
—	—	SANITARY SEWER
—	—	STORM SEWER
—	—	WATER MAIN
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—	—	SECTION LINE
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3	= CABLE RISER BOX	•	= PROPOSED GATE VALVE & BOX
4	= CLEAN OUT	•	= PROPOSED GATE VALVE & VAULT
5	= PROPOSED REDUCER	•	= PROPOSED STORM MANHOLE
6	= ELECTRIC MANHOLE	•	= PROPOSED SANITARY MANHOLE
7	= FIRE HYDRANT	•	= TELEPHONE MANHOLE
8	= FOUND IRON PIPE	•	= TELEPHONE RISER BOX
9	= GAS VALVE	•	= TURNING POINT/TRAVERSE
10	= GUY ANCHOR	•	= UTILITY POLE
11	= LIGHT POLE	•	= VAULT
12	= MAILBOX	•	= WATER ELEVATION
13	= MONITORING WELL	•	= WATER MANHOLE
14	= POST	•	= WATER METER
15	= SATELLITE DISH	•	= WATER VALVE
16	= SANITARY MANHOLE	•	= WATER SPIGOT
17	= WATER VALVE	•	= WELL
18	= SECTION CORNER		
19	= SIGN		

TREE DESIGNATORS

•	BUSH	•	STUMP
•	CONIFEROUS TREE	•	DECIDUOUS TREE
•	CONIFEROUS TREE TO BE REMOVED	•	DECIDUOUS TREE TO BE REMOVED

LEGEND

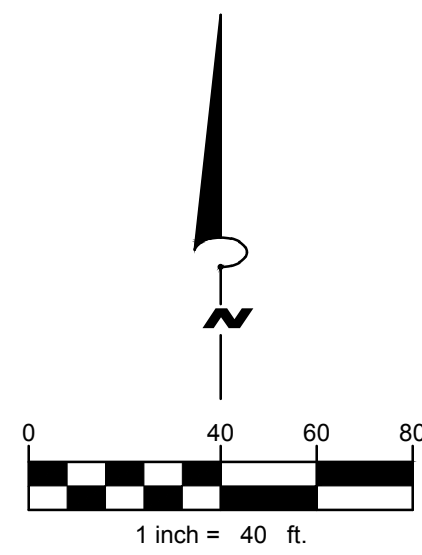
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SITE GENERAL NOTES

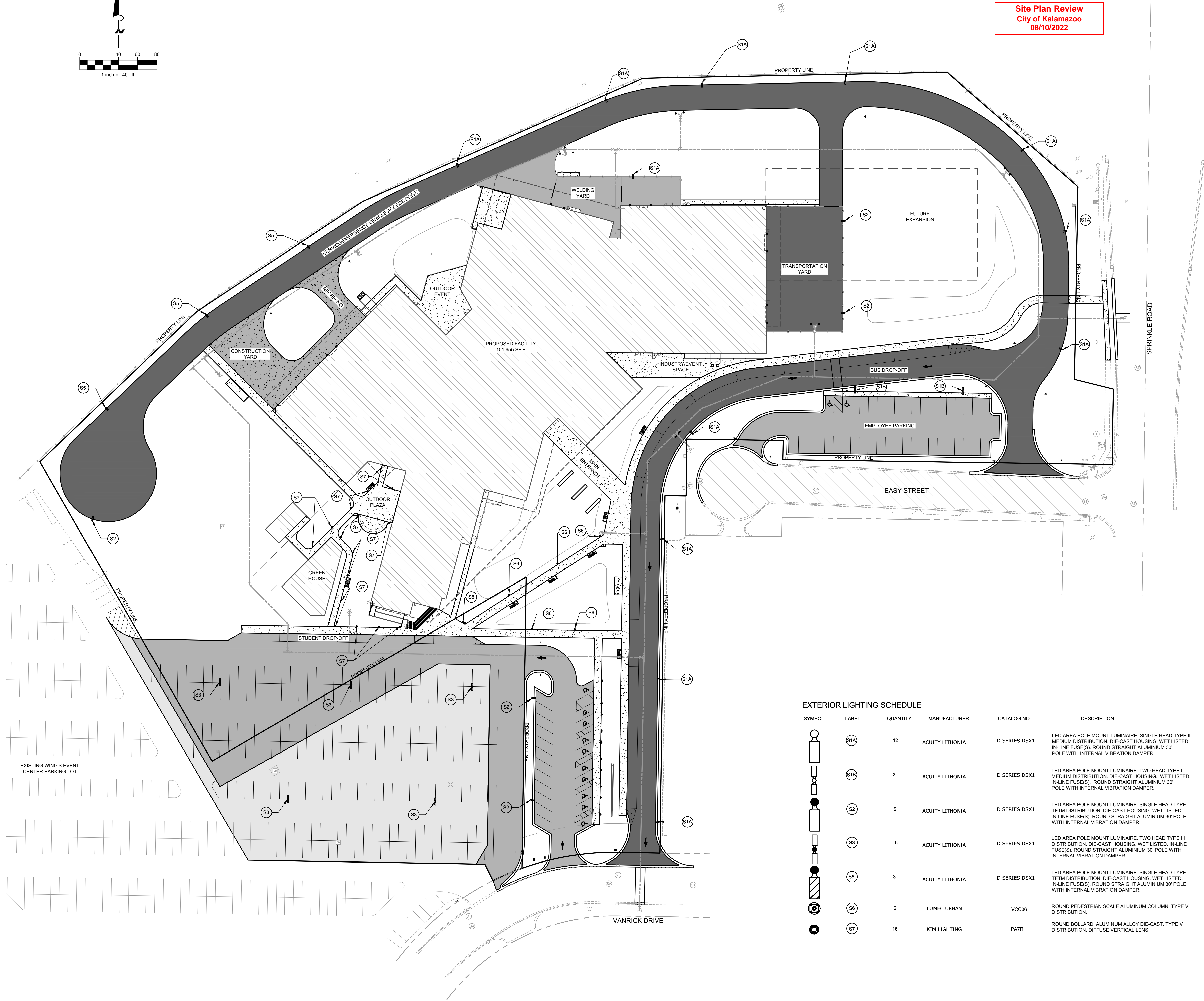
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KEY NOTES

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- THICKENED EDGE SIDEWALK INTEGRAL CURB AND GUTTER (SEE DETAILS)
- CONCRETE SIDEWALK, TYP.
- ACCESSIBLE PAVEMENT MARKINGS, TYP. (SEE DETAILS)
- ACCESSIBLE PARKING SIGN, TYP. (MUTCD R7-8)
- ACCESSIBLE PARKING SIGN, TYP. (MUTCD R7-8P)
- 4" WIDE PAINTED SOLID WHITE LINE, TYP.
- REFUSE ENCLOSURE (SEE ARCHITECTURAL)
- DIRECTIONAL PAVEMENT MARKING (SEE DETAILS)
- CONCRETE FILLED BOLLARD (SEE DETAILS)
- ARCHITECTURAL FENCING, 8 FT
- BIO-SWALE/RAIN GARDEN
- RETAINING WALL
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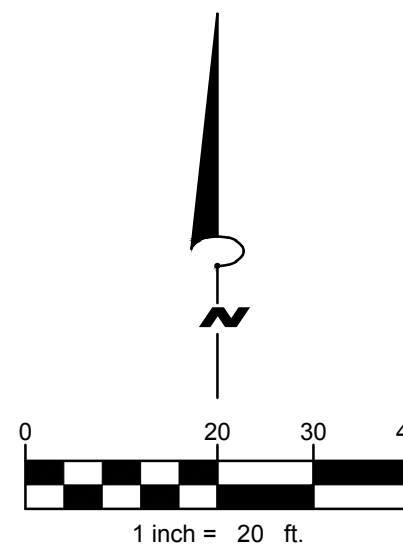
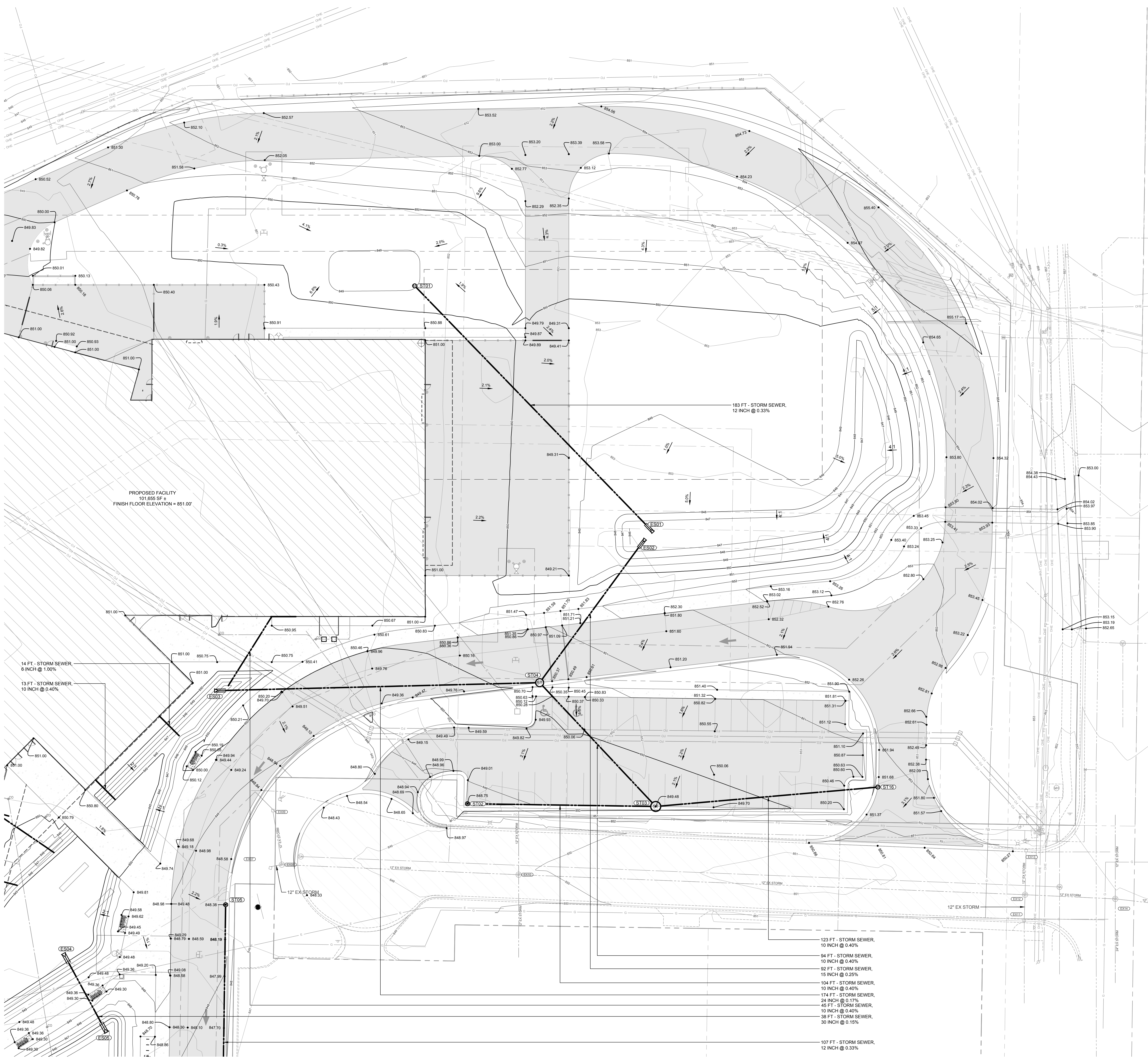
Site Plan Review
City of Kalamazoo
08/10/2022



EXTERIOR LIGHTING SCHEDULE

SYMBOL	LABEL	QUANTITY	MANUFACTURER	CATALOG NO.	DESCRIPTION	LAMP	NO. LAMPS	LUMENS/LAMP	WATTAGE
	S1A	12	ACUITY LITHONIA	D SERIES DSX1	LED AREA POLE MOUNT LUMINAIRE. SINGLE HEAD TYPE II MEDIUM DISTRIBUTION. DIE-CAST HOUSING. WET LISTED. IN-LINE FUSE(S). ROUND STRAIGHT ALUMINIUM 30' POLE WITH INTERNAL VIBRATION DAMPER.	LED	1	14,500	125
	S1B	2	ACUITY LITHONIA	D SERIES DSX1	LED AREA POLE MOUNT LUMINAIRE. TWO HEAD TYPE II MEDIUM DISTRIBUTION. DIE-CAST HOUSING. WET LISTED. IN-LINE FUSE(S). ROUND STRAIGHT ALUMINIUM 30' POLE WITH INTERNAL VIBRATION DAMPER.	LED	2	14,500	125
	S2	5	ACUITY LITHONIA	D SERIES DSX1	LED AREA POLE MOUNT LUMINAIRE. SINGLE HEAD TYPE II MEDIUM DISTRIBUTION. DIE-CAST HOUSING. WET LISTED. IN-LINE FUSE(S). ROUND STRAIGHT ALUMINIUM 30' POLE WITH INTERNAL VIBRATION DAMPER.	LED	1	14,500	125
	S3	5	ACUITY LITHONIA	D SERIES DSX1	LED AREA POLE MOUNT LUMINAIRE. TWO HEAD TYPE III MEDIUM DISTRIBUTION. DIE-CAST HOUSING. WET LISTED. IN-LINE FUSE(S). ROUND STRAIGHT ALUMINIUM 30' POLE WITH INTERNAL VIBRATION DAMPER.	LED	2	14,500	125
	S5	3	ACUITY LITHONIA	D SERIES DSX1	LED AREA POLE MOUNT LUMINAIRE. SINGLE HEAD TYPE II MEDIUM DISTRIBUTION. DIE-CAST HOUSING. WET LISTED. IN-LINE FUSE(S). ROUND STRAIGHT ALUMINIUM 30' POLE WITH INTERNAL VIBRATION DAMPER.	LED	1	24,250	207
	S6	6	LUMEC URBAN	VCC06	ROUND PEDESTRIAN SCALE ALUMINUM COLUMN. TYPE V DISTRIBUTION.	LED	1	4,330	34
	S7	16	KIM LIGHTING	PA7R	ROUND BOLLARD. ALUMINUM ALLOY DIE-CAST. TYPE V DISTRIBUTION. DIFFUSE VERTICAL LENS.	LED	1	1,875	34

SITE LIGHTING
SCALE: 1" = 40'



LEGEND

EXISTING	PROPOSED	
C	C	CABLE
E	E	ELECTRIC LINE (OVERHEAD)
FO	FO	FIBER OPTIC LINE
G	G	GAS LINE
T	T	TELEPHONE LINE
X	X	FENCE
+	+	FORCEMAIN
+	+	GUARDRAIL
+	+	SANITARY SEWER
+	+	STORM SEWER
+	+	WATER MAIN
+	+	CENTER LINE
---	---	EXISTING TREE LINE
---	---	EXISTING DITCH LINE
---	---	EASEMENT LINE/GRADING PERMIT
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---	---	SECTION LINE
---	---	TO BE ABANDONED

1	= ANTENNA	+	= PAVEMENT/SOIL BORING
2	= CATCH BASIN	+	= PROPOSED HYDRANT
3	= CABLE RISER BOX	+	= PROPOSED GATE VALVE & BOX
4	= CLEAN OUT	+	= PROPOSED GATE VALVE & VAULT
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15	= SANITARY MANHOLE	+	= WATER MANHOLE
16	= SECTION CORNER	+	= WATER VALVE
17	= SIGN	+	= WATER SPOGOT
18		+	= WELL

TREE DESIGNATORS

BUSH	STUMP
CONIFEROUS TREE	DECIDUOUS TREE
CONIFEROUS TREE TO BE REMOVED	DECIDUOUS TREE TO BE REMOVED

EXISTING STRUCTURES		STORM STRUCTURES	
EX01 EXISTING DR STRUCTURE	RIM 841.34 INV. 835.60 - 15' E INV. 835.34 - 18' SW INV. 836.36 - 12' NW INV. 836.32 - 12' SE	ST01 DR STRUCTURE, 24 INCH DIA COVER G 2.0 FT SUMP	RIM 849.00 INV. 847.14 - 12' SE
EX02 EXISTING DR STRUCTURE	RIM 841.31 INV. 836.61 - 12' SE INV. 836.81 - 12' NW 0.0 FT SUMP	ST02 DR STRUCTURE, 24 INCH DIA COVER K	RIM 848.75 INV. 847.08 - 10' E
EX03 EXISTING DR STRUCTURE	RIM 841.31 INV. 837.47 - 12' NW INV. 837.71 - 12' SE 2.0 FT SUMP	ST03 DR STRUCTURE, 60 INCH DIA COVER K 2.0 FT SUMP	RIM 849.48 INV. 846.66 - 10' W INV. 846.66 - 10' E INV. 846.66 - 10' NW
EX04 EXISTING DR STRUCTURE	RIM 843.15 INV. 838.70 - 12' N INV. 839.00 - 12' S	ST05 DR STRUCTURE, 24 INCH DIA COVER K 0.0 FT SUMP	RIM 848.38 INV. 844.45 - 12' S
EX05 EXISTING DR STRUCTURE	RIM 843.23 INV. 837.39 - 15' E INV. 837.17 - 15' W INV. 837.91 - 12' N INV. 837.75 - 12' S	ST06 DR STRUCTURE, 48 INCH DIA COVER K 2.0 FT SUMP	RIM 847.31 INV. 844.10 - 12' N INV. 844.10 - 12' W
EX06 EXISTING DR STRUCTURE	RIM 843.07 INV. 838.24 - 12' S INV. 838.49 - 12' N	ST07 DR STRUCTURE, 48 INCH DIA COVER G 2.0 FT SUMP	RIM 847.40 INV. 843.90 - 12' S
EX07 EXISTING DR STRUCTURE	RIM 848.16 INV. 844.66 - 12' E	ST08 DR STRUCTURE, 24 INCH DIA COVER K 0.0 FT SUMP	RIM 843.88 INV. 841.83 - 12' E
EX08 EXISTING DR STRUCTURE	RIM 848.13 INV. 844.93 - 12' S	ST09 DR STRUCTURE, 48 INCH DIA COVER K 2.0 FT SUMP	RIM 845.42 INV. 841.79 - 12' N INV. 841.79 - 12' W INV. 841.79 - 12' S
EX10 EXISTING DR STRUCTURE	RIM 849.92 INV. 843.92 - 12' W INV. 844.19 - 12' N INV. 844.19 - 12' S	ST10 DR STRUCTURE, 24 INCH DIA COVER K 0.0 FT SUMP	RIM 842.20 INV. 840.89 - 12' NE
EX11 EXISTING DR STRUCTURE	RIM 850.19 INV. 847.19 - 12' N	ST11 DR STRUCTURE, 48 INCH DIA COVER K 2.0 FT SUMP	RIM 843.76 INV. 840.75 - 12' N INV. 840.75 - 12' SW INV. 840.75 - 12' E
EX12 EXISTING DR STRUCTURE	RIM 850.38 INV. 842.98 - 12' W INV. 846.18 - 12' S INV. 842.88 - 12' E INV. 845.53 - 12' N	ST12 DR STRUCTURE, 24 INCH DIA COVER K 0.0 FT SUMP	RIM 846.18 INV. 839.40 - 12' S
EX13 EXISTING DR STRUCTURE	RIM 850.22 INV. 846.87 - 12' S	ST13 DR STRUCTURE, 48 INCH DIA COVER K 2.0 FT SUMP	RIM 844.35 INV. 839.02 - 12' N INV. 839.02 - 12' W
EX14 EXISTING DR STRUCTURE	RIM 844.10 INV. 842.93 - 12' W INV. 845.73 - 12' N INV. 845.58 - 12' E INV. 845.58 - 24' S	ST14 DR STRUCTURE, 60 INCH DIA SOLID PER MANUFACTURER 4.5 FT SUMP	RIM 845.21 INV. 838.89 - 12' E INV. 838.89 - 12' W INV. 838.89 - 12' S
EX15 EXISTING DR STRUCTURE	RIM 850.34 INV. 846.00 - 12' W	ST16 DR STRUCTURE, 24 INCH DIA COVER K 0.0 FT SUMP	RIM 851.60 INV. 847.15 - 10' W
EX16 EXISTING DR STRUCTURE	RIM 839.28 INV. 840.33 - 12' SE		
EX17 EXISTING DR STRUCTURE	RIM 840.33 INV. 835.93 - 12' NW		
END SECTIONS			
	ES01 PROPOSED CONC END SECTION		RIM 846.53 - 12' NW
	ES02 PROPOSED CONC END SECTION		RIM 846.52 - 15' SW
	ES03 PROPOSED CONC END SECTION		RIM 845.99 - 24' E
	ES04 PROPOSED CONC END SECTION		
	ES05 PROPOSED CONC END SECTION		RIM 845.45 - 30' NW
	ES06 PROPOSED CONC END SECTION		RIM 843.90 - 12' E
	ES07 PROPOSED CONC END SECTION		RIM 847.56 - 12' SE

WIGHTMAN
BENTON HARBOR
269.927.0100
KALAMAZOO
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ALLEGAN
269.673.8465
ROYAL OAK
248.791.1371
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DLRGROUP
333 WEST WALSH DRIVE, SUITE 450
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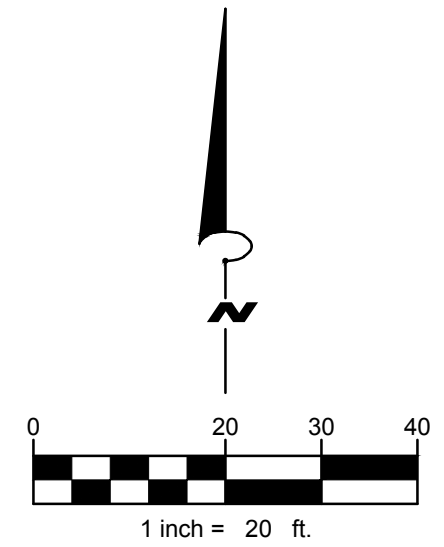
IMEG
1100 WARRENVILLE ROAD
SUITE 400W
NAPERVILLE, IL 60563
www.imegcorp.com
630.527.2320

PROJECT NAME:
KALAMAZOO RESA
Career & Technical Education

CAREER & TECHNICAL EDUCATION CENTER
VANRICK DRIVE
KALAMAZOO, MI 49001
KALAMAZOO RESA
1819 EAST MILHAM ROAD
PORTAGE, MI 49002

02 8/10/2022 PDS
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DATE: JULY 2022
SCALE: 1" = 20'

GRADING & DRAINAGE PLAN AREA 1
JOB No. 214175
C2.2



LEGEND

EXISTING	PROPOSED	
C	C	CABLE
E	E	ELECTRIC LINE (OVERHEAD)
FO	FO	FIBER OPTIC LINE
G	G	GAS LINE
T	T	TELEPHONE LINE
X	X	FENCE
		FORCEMAIN
		GUARDRAIL
		SANITARY SEWER
		STORM SEWER
		WATER MAIN
		CENTER LINE
		EXISTING TREE LINE
		EXISTING DITCH LINE
		EASEMENT LINE/GRADING PERMIT
		GRADING LIMITS/LIMITS OF DISTURBANCE
		PROPERTY LINE
		RIGHT-OF-WAY LINE
		SECTION LINE
		TO BE ABANDONED

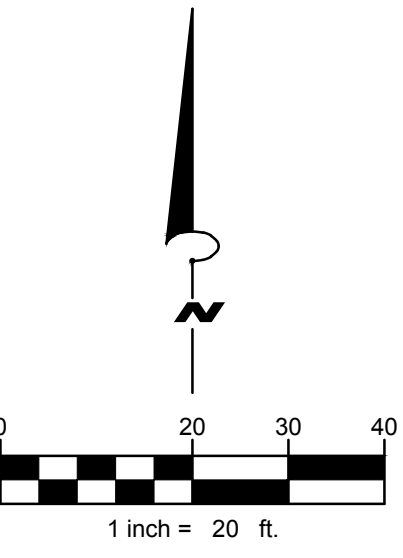
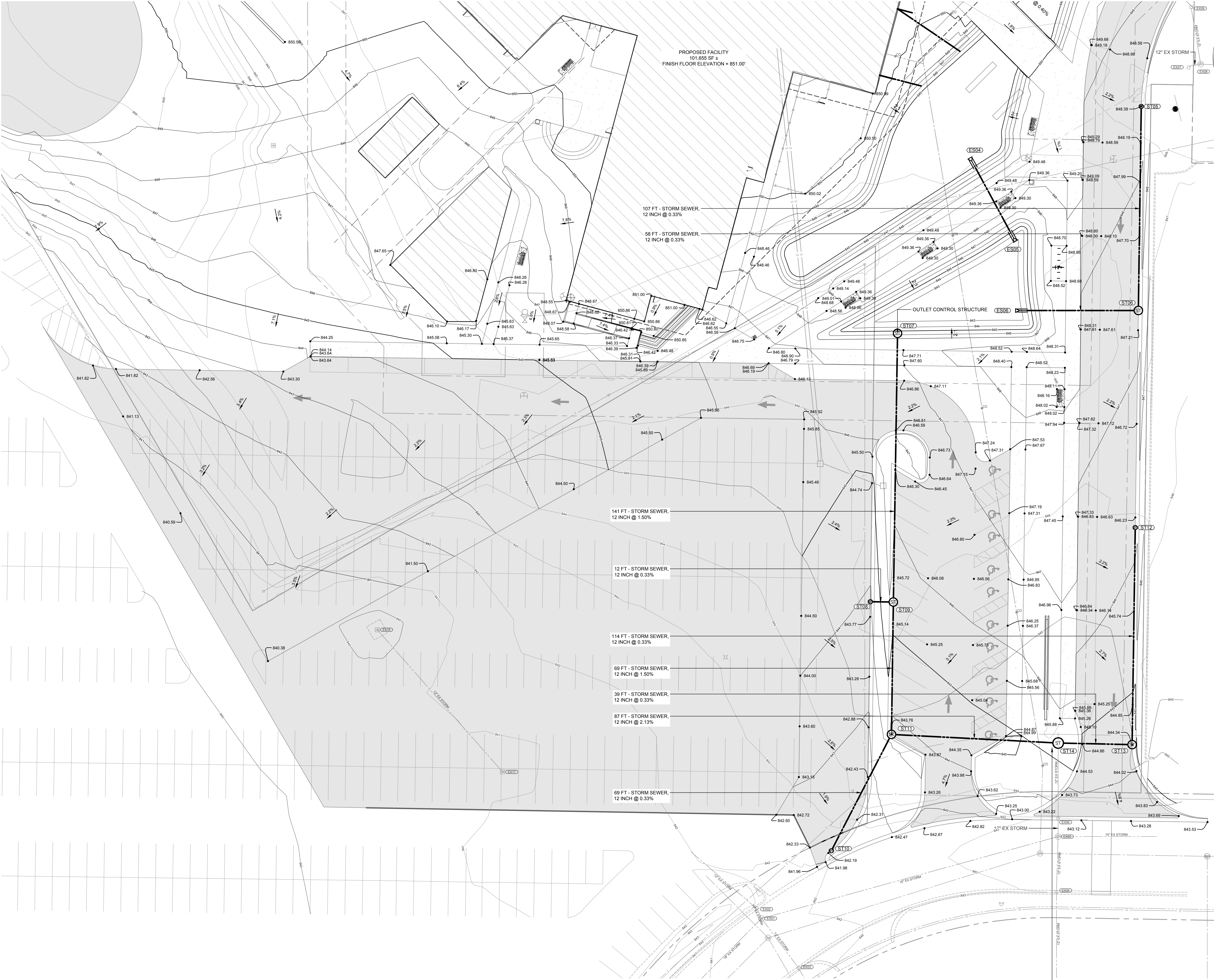
1	= ANTENNA	•	= PAVEMENT/SOIL BORING
2	= CATCH BASIN	•	= PROPOSED HYDRANT
3	= CABLE RISER BOX	•	= PROPOSED GATE VALVE & BOX
4	= CLEAN OUT	•	= PROPOSED GATE VALVE & VAULT
5	= CURB INLET	•	= PROPOSED REDUCER
6	= ELECTRIC MANHOLE	•	= PROPOSED SANITARY MANHOLE
7	= FIRE HYDRANT	•	= PROPOSED STORM MANHOLE
8	= FOUND IRON PIPE	•	= STORM MANHOLE
9	= GAS VALVE	•	= TELEPHONE MANHOLE
10	= GUY ANCHOR	•	= TELEPHONE RISER BOX
11	= LIGHT POLE	•	= TURNING POINT/TRVERSE
12	= MAILBOX	•	= UTILITY POLE
13	= MONITORING WELL	•	= VAULT
14	= POST	•	= WATER ELEVATION
15	= SATELLITE DISH	•	= WATER MANHOLE
16	= SANITARY MANHOLE	•	= WATER METER
17	= SECTION CORNER	•	= WATER VALVE
18	= SIGN	•	= WATER SPIGOT
19		•	= WELL

TREE DESIGNATORS

BUSH	STUMP
CONIFEROUS TREE	DECIDUOUS TREE
CONIFEROUS TREE TO BE REMOVED	DECIDUOUS TREE TO BE REMOVED



EXISTING STRUCTURES	STORM STRUCTURES
EX01 EXISTING DR STRUCTURE RIM 841.34 INV. 835.60 - 15' E INV. 835.34 - 18' SW INV. 836.36 - 12' NW INV. 836.32 - 12' SE	ST01 DR STRUCTURE, 24 INCH DIA COVER G 2.0 FT SUMP RIM 849.00 INV. 847.14 - 12' SE
EX02 EXISTING DR STRUCTURE RIM 841.31 INV. 836.61 - 12' SE INV. 836.81 - 12' NW 0.0 FT SUMP	ST02 DR STRUCTURE, 24 INCH DIA COVER K 0.0 FT SUMP RIM 848.75 INV. 847.08 - 10' E
EX03 EXISTING DR STRUCTURE RIM 841.31 INV. 837.47 - 12' NW INV. 837.71 - 12' SE 0.0 FT SUMP	ST03 DR STRUCTURE, 60 INCH DIA COVER K 2.0 FT SUMP RIM 849.48 INV. 846.66 - 10' W INV. 846.66 - 10' NW
EX04 EXISTING DR STRUCTURE RIM 843.15 INV. 838.70 - 12' N INV. 839.00 - 12' S 0.0 FT SUMP	ST05 DR STRUCTURE, 24 INCH DIA COVER K 0.0 FT SUMP RIM 848.38 INV. 844.45 - 12' S
EX05 EXISTING DR STRUCTURE RIM 843.23 INV. 837.39 - 15' E INV. 837.91 - 12' N INV. 837.75 - 12' S	ST06 DR STRUCTURE, 48 INCH DIA COVER K 2.0 FT SUMP RIM 847.31 INV. 844.10 - 12' N INV. 844.10 - 12' W
EX06 EXISTING DR STRUCTURE RIM 843.07 INV. 838.24 - 12' S INV. 838.49 - 12' N 0.0 FT SUMP	ST07 DR STRUCTURE, 48 INCH DIA COVER G 2.0 FT SUMP RIM 847.40 INV. 843.90 - 12' S
EX07 EXISTING DR STRUCTURE RIM 848.16 INV. 844.66 - 12' E	ST08 DR STRUCTURE, 24 INCH DIA COVER K 0.0 FT SUMP RIM 843.88 INV. 841.83 - 12' E
EX08 EXISTING DR STRUCTURE RIM 848.24 INV. 844.54 - 12' N INV. 844.54 - 12' W INV. 844.44 - 12' E	ST09 DR STRUCTURE, 48 INCH DIA COVER K 2.0 FT SUMP RIM 845.42 INV. 841.79 - 12' N INV. 841.79 - 12' S
EX09 EXISTING DR STRUCTURE RIM 849.92 INV. 843.92 - 12' W INV. 843.92 - 12' E INV. 844.19 - 12' N INV. 844.19 - 12' S	ST10 DR STRUCTURE, 24 INCH DIA COVER K 0.0 FT SUMP RIM 842.20 INV. 840.98 - 12' NE
EX11 EXISTING DR STRUCTURE RIM 850.19 INV. 847.19 - 12' N	ST11 DR STRUCTURE, 48 INCH DIA COVER K 2.0 FT SUMP RIM 843.76 INV. 840.75 - 12' N INV. 840.75 - 12' SW INV. 840.75 - 12' E
EX12 EXISTING DR STRUCTURE RIM 850.38 INV. 842.98 - 12' W INV. 846.16 - 12' S INV. 842.88 - 12' E INV. 845.53 - 12' N	ST12 DR STRUCTURE, 24 INCH DIA COVER K 0.0 FT SUMP RIM 846.18 INV. 839.40 - 12' S
EX13 EXISTING DR STRUCTURE RIM 850.22 INV. 846.87 - 12' S	ST13 DR STRUCTURE, 48 INCH DIA COVER K 2.0 FT SUMP RIM 844.35 INV. 839.02 - 12' N INV. 839.02 - 12' W
EX14 EXISTING DR STRUCTURE RIM 844.10 INV. 842.93 - 12' W INV. 845.73 - 12' N INV. 845.58 - 12' E INV. 842.58 - 24' S	ST14 DR STRUCTURE, 60 INCH DIA SOLID PER MANUFACTURER 4.5 FT SUMP RIM 845.21 INV. 838.89 - 12' E INV. 838.89 - 12' W INV. 838.89 - 12' S
EX15 EXISTING DR STRUCTURE RIM 850.34 INV. 846.00 - 12' W	ST16 DR STRUCTURE, 24 INCH DIA COVER K 0.0 FT SUMP RIM 851.60 INV. 847.15 - 10' W
EX16 EXISTING DR STRUCTURE RIM 839.28 INV. 834.73 - 12' SE	
EX17 EXISTING DR STRUCTURE RIM 840.33 INV. 835.93 - 12' NW	
	END SECTIONS
	ES01 PROPOSED CONC END SECTION INV. 846.53 - 12' NW
	ES02 PROPOSED CONC END SECTION INV. 846.52 - 15' SW
	ES03 PROPOSED CONC END SECTION INV. 845.99 - 24' E
	ES04 PROPOSED CONC END SECTION INV. 845.45 - 30' NW
	ES05 PROPOSED CONC END SECTION INV. 845.99 - 12' E
	ES06 PROPOSED CONC END SECTION INV. 847.56 - 12' SE



LEGEND

- | | |
|----------|---|
| EXISTING | PROPOSED |
| — C — | — C — CABLE |
| — E — | — E — ELECTRIC LINE (OVERHEAD) |
| — FO — | — FO — FIBER OPTIC LINE |
| — G — | — G — GAS LINE |
| — T — | — T — TELEPHONE LINE |
| — F — | — F — FENCE |
| — G — | — G — GUARDRAIL |
| — S — | — S — SANITARY SEWER |
| — W — | — W — WATER MAIN |
| — CL — | — CL — CENTER LINE |
| — ET — | — ET — EXISTING TREE LINE |
| — EL — | — EL — EASEMENT LINE/GRADING PERMIT |
| — GL — | — GL — GRADING LIMITS/LIMITS OF DISTURBANCE |
| — PL — | — PL — PROPERTY LINE |
| — RW — | — RW — RIGHT-OF-WAY LINE |
| — SL — | — SL — SECTION LINE |
| — TL — | — TL — TO BE ABANDONED |

- | | |
|-----------------------|----------------------------------|
| 1 = ANTENNA | 10 = PAVEMENT/SOIL BORING |
| 2 = CATCH BASIN | 11 = PROPOSED HYDRANT |
| 3 = CABLE RISER BOX | 12 = PROPOSED GATE VALVE & BOX |
| 4 = CLEAN OUT | 13 = PROPOSED GATE VALVE & VAULT |
| 5 = CURB INLET | 14 = PROPOSED REDUCER |
| 6 = ELECTRIC MANHOLE | 15 = PROPOSED SANITARY MANHOLE |
| 7 = FIRE HYDRANT | 16 = PROPOSED STORM MANHOLE |
| 8 = FOUND IRON PIPE | 17 = STORM MANHOLE |
| 9 = GAS VALVE | 18 = TELEPHONE MANHOLE |
| 10 = GUY ANCHOR | 19 = TELEPHONE RISER BOX |
| 11 = LIGHT POLE | 20 = TURNING POINT/TRAVERSE |
| 12 = MAILBOX | 21 = VAULT |
| 13 = MONITORING WELL | 22 = WATER ELEVATION |
| 14 = POST | 23 = WATER MANHOLE |
| 15 = SATELLITE DISH | 24 = WATER METER |
| 16 = SANITARY MANHOLE | 25 = WATER VALVE |
| 17 = SECTION CORNER | 26 = WATER SPIGOT |
| 18 = SIGN | 27 = WELL |

TREE DESIGNATORS

- | | |
|-------------------------------|------------------------------|
| BUSH | STUMP |
| CONIFEROUS TREE | DECIDUOUS TREE |
| CONIFEROUS TREE TO BE REMOVED | DECIDUOUS TREE TO BE REMOVED |

EXISTING STRUCTURES

- | | | |
|------|-----------------------|---|
| EX01 | EXISTING DR STRUCTURE | RIM 841.34
INV. 835.60 - 15' E
INV. 835.34 - 18' SW
COVER G
INV. 836.36 - 12' NW
2.0 FT SUMP
INV. 836.32 - 12' SE |
| EX02 | EXISTING DR STRUCTURE | RIM 841.31
INV. 836.61 - 12' SE
COVER K
INV. 836.81 - 12' NW
0.0 FT SUMP |
| EX03 | EXISTING DR STRUCTURE | RIM 841.31
INV. 837.47 - 12' NW
COVER K
INV. 837.71 - 12' SE
2.0 FT SUMP |
| EX04 | EXISTING DR STRUCTURE | RIM 843.15
INV. 838.70 - 12' N
INV. 839.00 - 12' S |
| EX05 | EXISTING DR STRUCTURE | RIM 843.23
INV. 837.39 - 15' E
INV. 837.17 - 15' W
INV. 837.91 - 12' N
INV. 837.75 - 12' S |
| EX06 | EXISTING DR STRUCTURE | RIM 843.07
INV. 838.24 - 12' S
INV. 838.49 - 12' N |
| EX07 | EXISTING DR STRUCTURE | RIM 848.16
INV. 844.66 - 12' E |
| EX08 | EXISTING DR STRUCTURE | RIM 848.24
INV. 844.54 - 12' N
INV. 844.54 - 12' W
INV. 844.44 - 12' E |
| EX09 | EXISTING DR STRUCTURE | RIM 848.13
INV. 844.93 - 12' S |
| EX10 | EXISTING DR STRUCTURE | RIM 849.92
INV. 843.92 - 12' W
INV. 843.92 - 12' E
INV. 844.19 - 12' N
INV. 844.19 - 12' S |
| EX11 | EXISTING DR STRUCTURE | RIM 850.19
INV. 847.19 - 12' N |
| EX12 | EXISTING DR STRUCTURE | RIM 850.38
INV. 842.98 - 12' W
INV. 846.18 - 12' S
INV. 842.88 - 12' E
INV. 845.53 - 12' N |
| EX13 | EXISTING DR STRUCTURE | RIM 850.22
INV. 846.87 - 12' S |
| EX14 | EXISTING DR STRUCTURE | RIM 844.10
INV. 842.93 - 12' W
INV. 845.73 - 12' N
INV. 845.58 - 12' E
INV. 842.58 - 24' S |
| EX15 | EXISTING DR STRUCTURE | RIM 850.34
INV. 846.00 - 12' W |
| EX16 | EXISTING DR STRUCTURE | RIM 839.28
INV. 834.73 - 12' SE |
| EX17 | EXISTING DR STRUCTURE | RIM 840.33
INV. 835.93 - 12' NW |

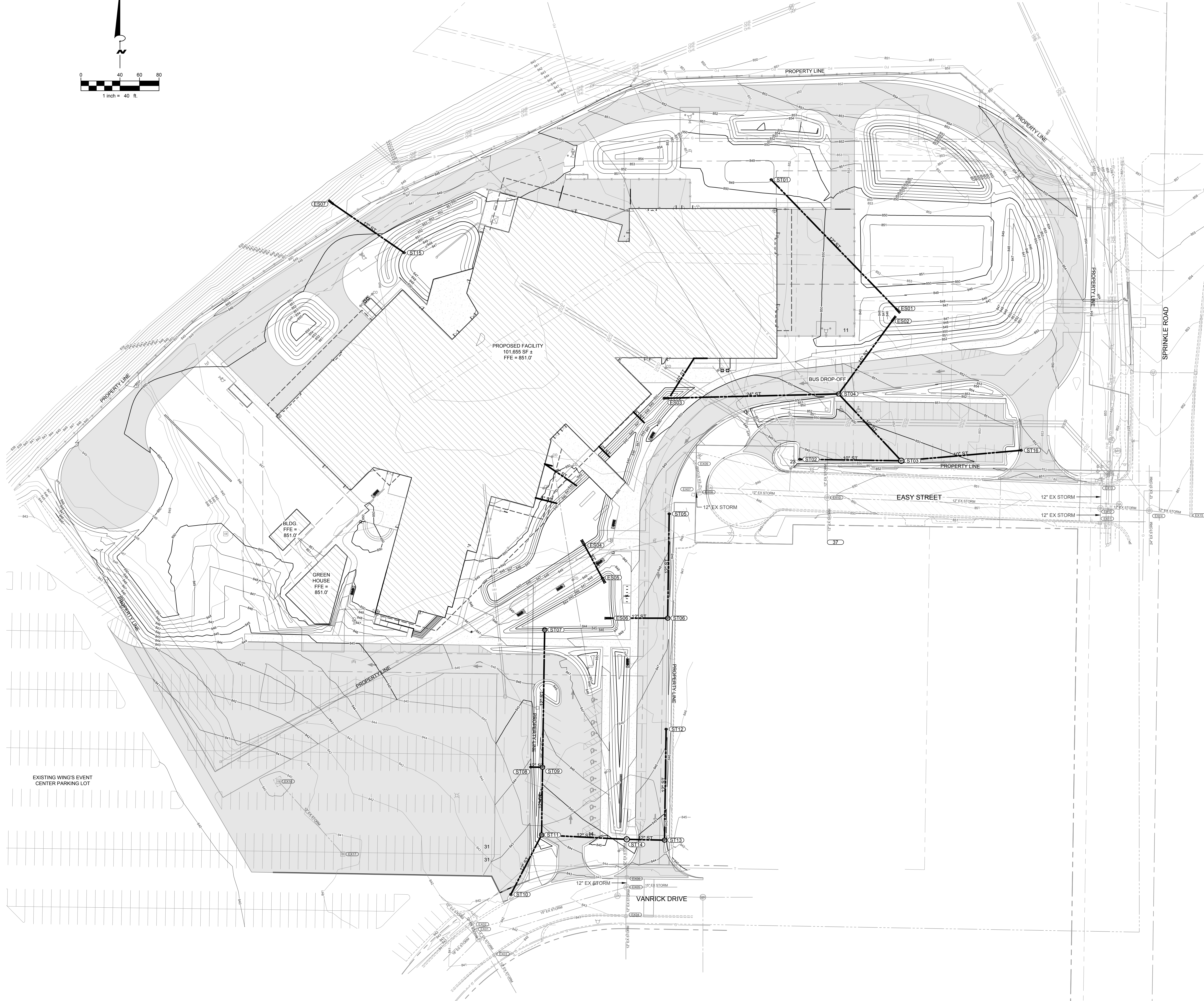
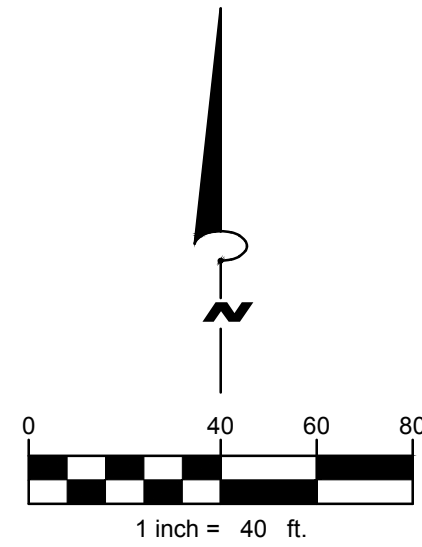
STORM STRUCTURES

- | | | |
|------|--|--|
| ST01 | DR STRUCTURE, 24 INCH DIA
COVER G
2.0 FT SUMP | RIM 849.00
INV. 847.14 - 12' SE |
| ST02 | DR STRUCTURE, 24 INCH DIA
COVER K
0.0 FT SUMP | RIM 848.75
INV. 847.08 - 10' E |
| ST03 | DR STRUCTURE, 60 INCH DIA
COVER K
2.0 FT SUMP | RIM 849.48
INV. 846.66 - 10' W
INV. 846.66 - 10' E
INV. 846.66 - 10' NW |
| ST05 | DR STRUCTURE, 24 INCH DIA
COVER K
0.0 FT SUMP | RIM 848.38
INV. 844.45 - 12' S |
| ST06 | DR STRUCTURE, 48 INCH DIA
COVER K
2.0 FT SUMP | RIM 847.31
INV. 844.10 - 12' N
INV. 844.10 - 12' W |
| ST07 | DR STRUCTURE, 48 INCH DIA
COVER G
2.0 FT SUMP | RIM 847.40
INV. 843.90 - 12' S |
| ST08 | DR STRUCTURE, 24 INCH DIA
COVER K
0.0 FT SUMP | RIM 843.88
INV. 841.83 - 12' E |
| ST09 | DR STRUCTURE, 48 INCH DIA
COVER K
2.0 FT SUMP | RIM 845.42
INV. 841.79 - 12' N
INV. 841.79 - 12' W
INV. 841.79 - 12' S |
| ST10 | DR STRUCTURE, 24 INCH DIA
COVER K
0.0 FT SUMP | RIM 842.20
INV. 840.98 - 12' NE |
| ST11 | DR STRUCTURE, 48 INCH DIA
COVER K
2.0 FT SUMP | RIM 843.76
INV. 840.75 - 12' N
INV. 840.75 - 12' SW
INV. 840.75 - 12' E |
| ST12 | DR STRUCTURE, 24 INCH DIA
COVER K
0.0 FT SUMP | RIM 846.18
INV. 839.40 - 12' S |
| ST13 | DR STRUCTURE, 48 INCH DIA
COVER K
2.0 FT SUMP | RIM 844.35
INV. 839.02 - 12' N
INV. 839.02 - 12' W |
| ST14 | DR STRUCTURE, 60 INCH DIA
SOLID PER MANUFACTURER
4.5 FT SUMP | RIM 845.21
INV. 838.89 - 12' E
INV. 838.89 - 12' W
INV. 838.89 - 12' S |
| ST16 | DR STRUCTURE, 24 INCH DIA
COVER K
0.0 FT SUMP | RIM 851.60
INV. 847.15 - 10' W |

END SECTIONS

- | | | |
|------|---------------------------|----------------------|
| ES01 | PROPOSED CONC END SECTION | INV. 846.53 - 12' NW |
| ES02 | PROPOSED CONC END SECTION | INV. 846.52 - 15' SW |
| ES03 | PROPOSED CONC END SECTION | INV. 845.99 - 24' E |
| ES04 | PROPOSED CONC END SECTION | INV. 845.45 - 30' NW |
| ES05 | PROPOSED CONC END SECTION | INV. 843.90 - 12' E |
| ES06 | PROPOSED CONC END SECTION | INV. 847.56 - 12' SE |
| ES07 | PROPOSED CONC END SECTION | INV. 847.56 - 12' SE |

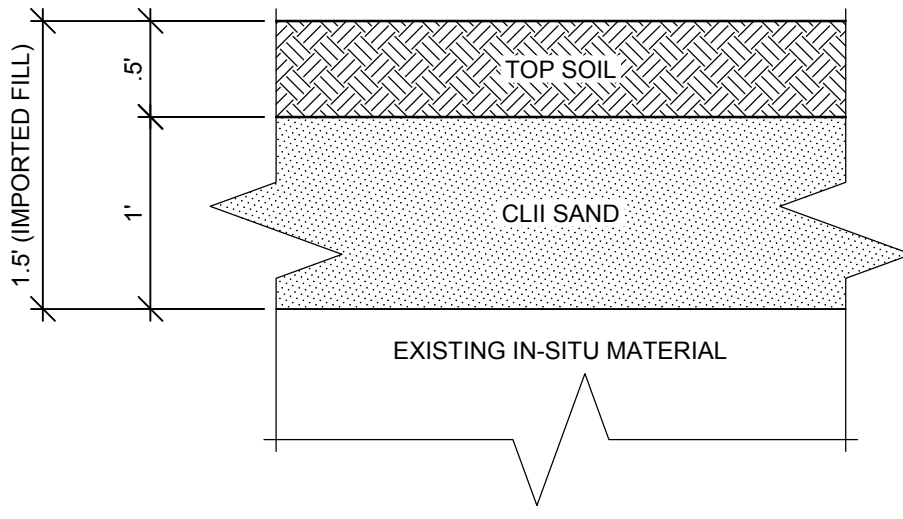
WATER QUALITY
STRUCTURE, CASCADE
SEPARATOR, C.S.S. BY
CONTECH (SEE DETAILS).



- LEGEND**
- | EXISTING | PROPOSED | |
|----------|----------|--------------------------------------|
| — | — | CABLE |
| — | — | ELECTRIC LINE |
| — | — | ELECTRIC LINE (OVERHEAD) |
| — | — | FIBER OPTIC LINE |
| — | — | GAS LINE |
| — | — | TELEPHONE LINE |
| — | — | FENCE |
| — | — | FORCEMAIN |
| — | — | GUARDRAIL |
| — | — | SANITARY SEWER |
| — | — | STORM SEWER |
| — | — | WATER MAIN |
| — | — | CENTER LINE |
| — | — | EXISTING TREE LINE |
| — | — | EXISTING DITCH LINE |
| — | — | EASEMENT LINE/GRADING PERMIT |
| — | — | GRADING LIMITS/LIMITS OF DISTURBANCE |
| — | — | PROPERTY LINE |
| — | — | RIGHT-OF-WAY LINE |
| — | — | SECTION LINE |
| — | — | TO BE ABANDONED |
-
- | | | | |
|----|--------------------|-----|-------------------------------|
| 1 | = ANTENNA | 4" | = PAVEMENT/SOIL BORING |
| 2 | = CATCH BASIN | 5" | = PROPOSED HYDRANT |
| 3 | = CABLE RISER BOX | 6" | = PROPOSED GATE VALVE & BOX |
| 4 | = CLEAN OUT | 7" | = PROPOSED GATE VALVE & VAULT |
| 5 | = CURB INLET | 8" | = PROPOSED REDUCER |
| 6 | = ELECTRIC MANHOLE | 9" | = PROPOSED SANITARY MANHOLE |
| 7 | = FIRE HYDRANT | 10" | = PROPOSED STORM MANHOLE |
| 8 | = FOUND IRON PIPE | 11" | = STORM MANHOLE |
| 9 | = GAS VALVE | 12" | = TELEPHONE MANHOLE |
| 10 | = GUY ANCHOR | 13" | = TELEPHONE RISER BOX |
| 11 | = LIGHT POLE | 14" | = TURNING POINT/TRAVERSE |
| 12 | = MAILBOX | 15" | = VAULT |
| 13 | = MONITORING WELL | 16" | = WATER ELEVATION |
| 14 | = POST | 17" | = WATER MANHOLE |
| 15 | = SATELLITE DISH | 18" | = WATER METER |
| 16 | = SANITARY MANHOLE | 19" | = WATER VALVE |
| 17 | = SECTION CORNER | 20" | = WATER SPIGOT |
| 18 | = SIGN | 21" | = WELL |
-
- TREE DESIGNATORS**
- | | |
|-------------------------------|------------------------------|
| BUSH | STUMP |
| CONIFEROUS TREE | DECIDUOUS TREE |
| CONIFEROUS TREE TO BE REMOVED | DECIDUOUS TREE TO BE REMOVED |

BID ALTERNATE NOTE

1. ALTERNATE GRADING PLAN ASSUMES 1' 5" OF IMPORTED FILL AT ALL NON-PAVED AREAS. THIS DRAWING ACCOUNTS FOR PLACING APPROXIMATELY 7,000 CYDS OF VIRGIN FILL.



ALTERNATE GREENSPACE CROSS SECTION
SCALE: 1" = 1'-0"

WIGHTMAN

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KALAMAZOO
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ROYAL OAK
248.791.1371

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IMEG

1100 WARRENVILLE ROAD
SUITE 400W
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630.527.2320

PROJECT NAME:

Career & Technical Education

CAREER & TECHNICAL EDUCATION CENTER

VANRICK DRIVE
KALAMAZOO, MI 49001

KALAMAZOO RESA
INSPIRING EDUCATIONAL EXCELLENCE

KALAMAZOO RESA
1819 EAST MILHAM ROAD
PORTAGE, MI 49002

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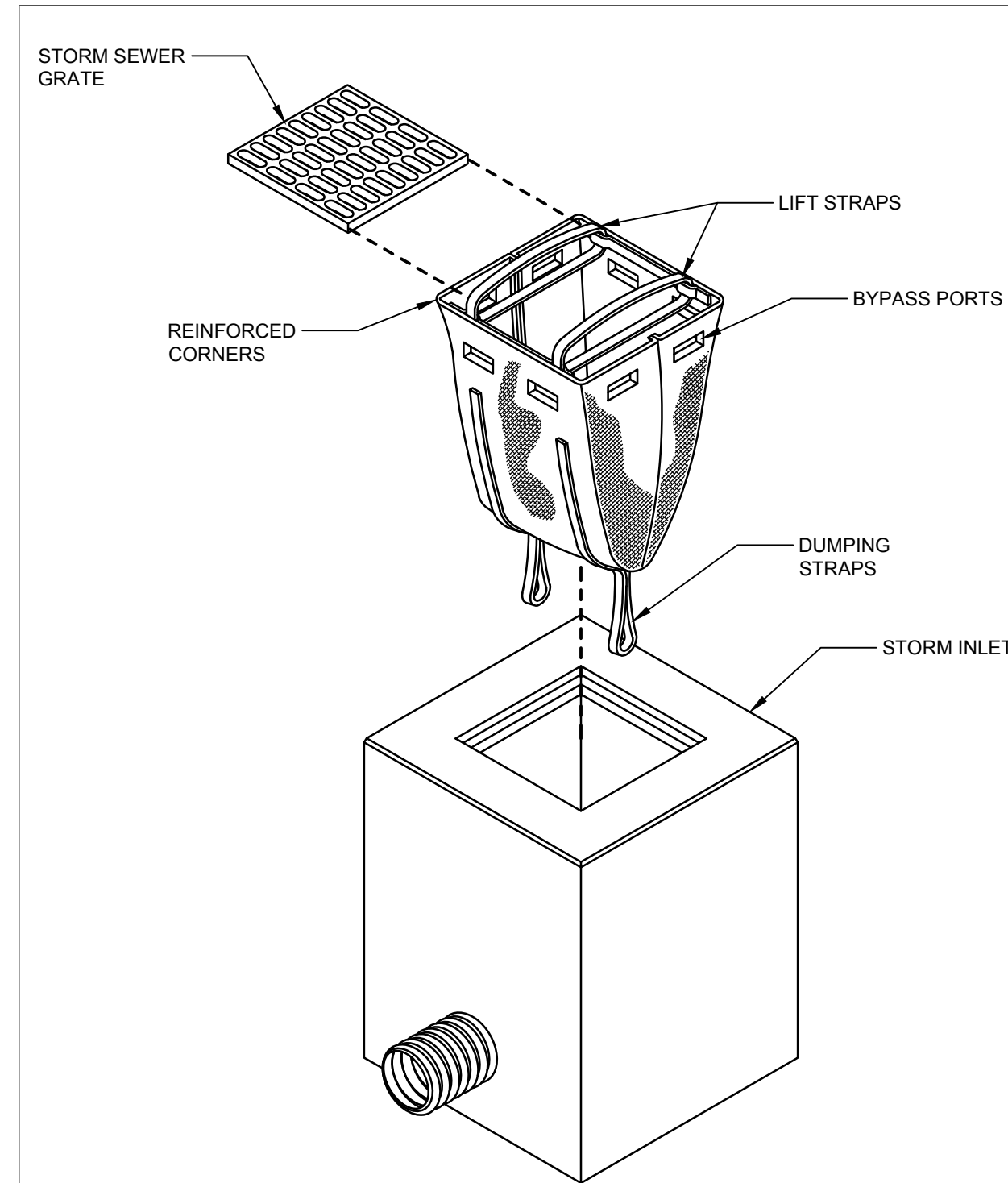
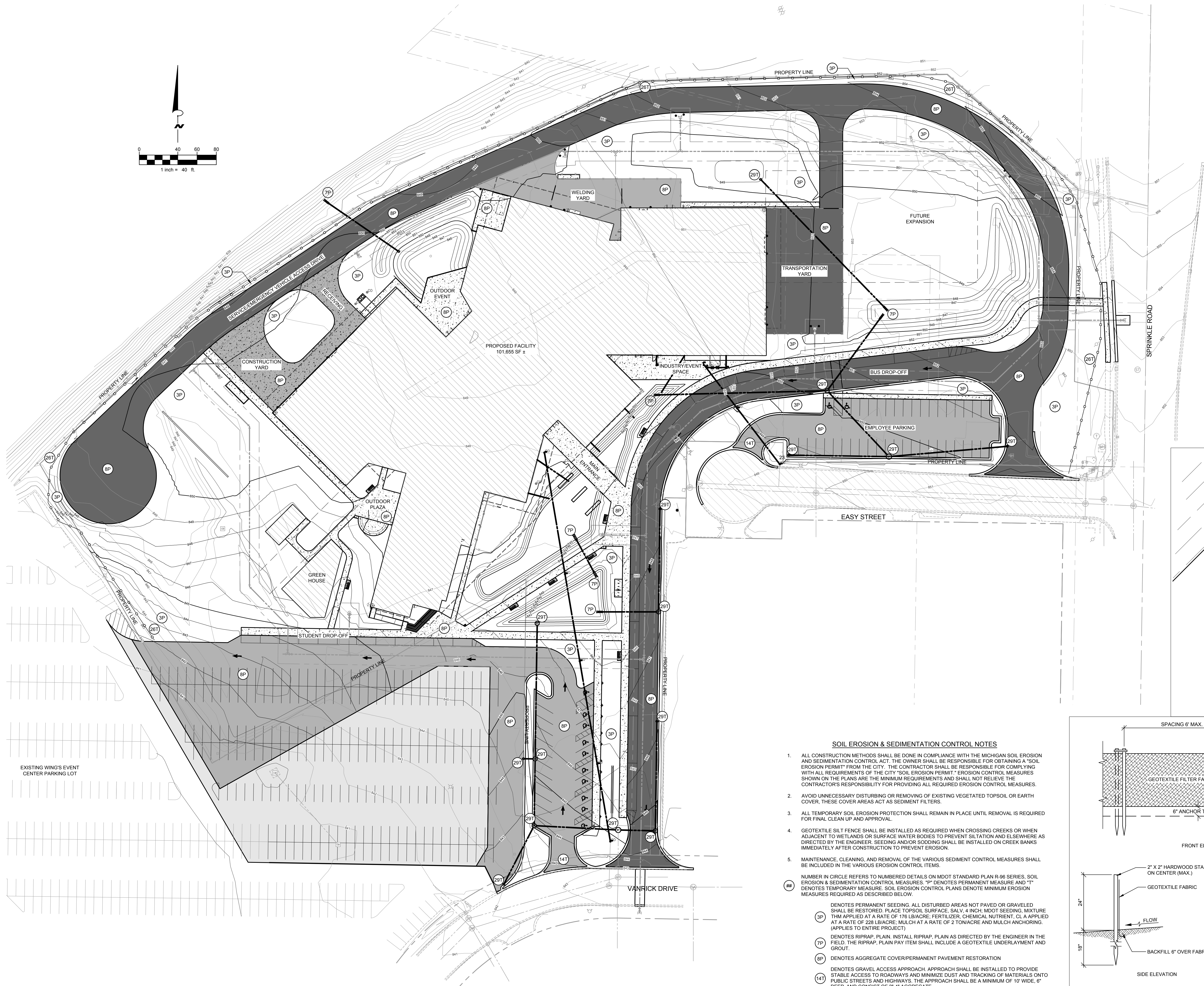
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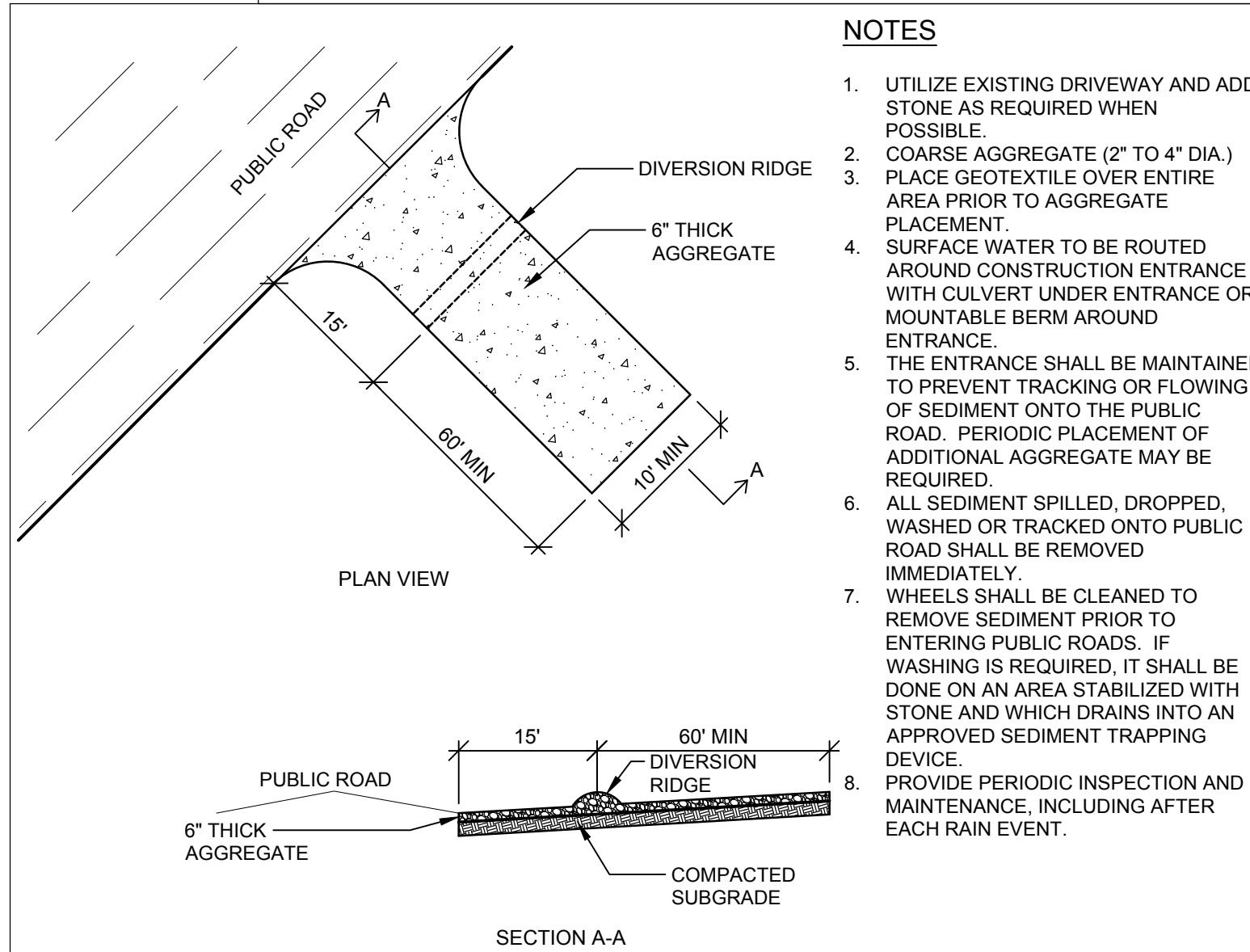
DATE: JULY 2022
SCALE: 1" = 40'

ALTERNATE GRADING PLAN OVERALL

JOB No. 214175
C2.5



INLET PROTECTION DETAIL
SCALE: NONE



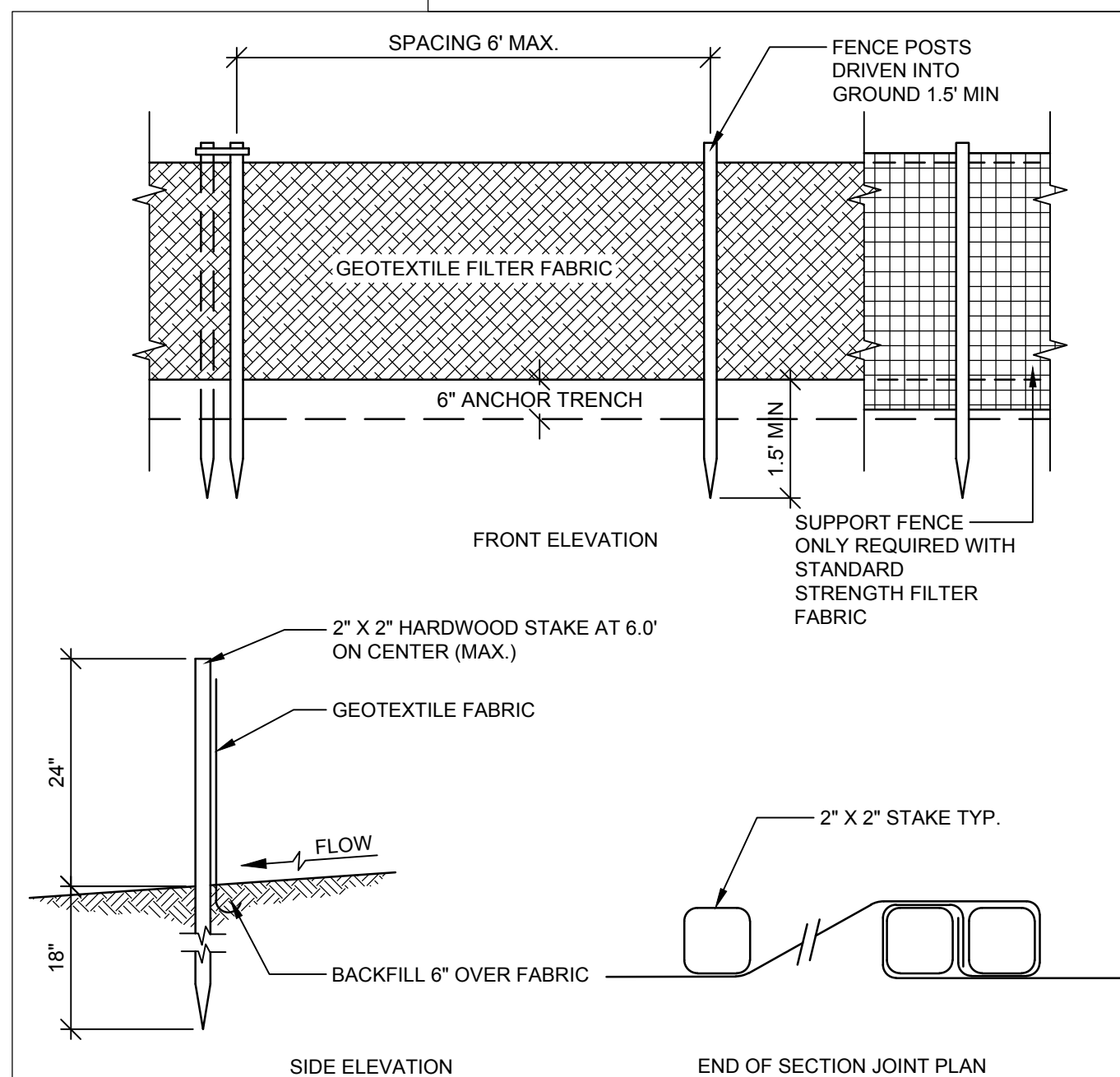
TEMPORARY CONSTRUCTION ENTRANCE
SCALE: NONE

SOIL EROSION & SEDIMENTATION CONTROL NOTES

1. ALL CONSTRUCTION METHODS SHALL BE DONE IN COMPLIANCE WITH THE MICHIGAN SOIL EROSION AND SEDIMENTATION CONTROL ACT. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING A "SOIL EROSION PERMIT" FROM THE CITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS OF THE CITY "SOIL EROSION PERMIT". EROSION CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS AND SHALL NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR PROVIDING ALL REQUIRED EROSION CONTROL MEASURES.
2. AVOID UNNECESSARY DISTURBING OR REMOVING OF EXISTING VEGETATED TOPSOIL OR EARTH COVER. THESE COVER AREAS ACT AS SEDIMENT FILTERS.
3. ALL TEMPORARY SOIL EROSION PROTECTION SHALL REMAIN IN PLACE UNTIL REMOVAL IS REQUIRED FOR FINAL CLEAN UP AND APPROVAL.
4. GEOTEXTILE SILT FENCE SHALL BE INSTALLED AS REQUIRED WHEN CROSSING CREEKS OR WHEN ADJACENT TO WETLANDS OR SURFACE WATER BODIES TO PREVENT SILTATION AND ELSEWHERE AS DIRECTED BY THE ENGINEER. SEEDING AND/OR SODDING SHALL BE INSTALLED ON CREEK BANKS IMMEDIATELY AFTER CONSTRUCTION TO PREVENT EROSION.
5. MAINTENANCE, CLEANING, AND REMOVAL OF THE VARIOUS SEDIMENT CONTROL MEASURES SHALL BE INCLUDED IN THE VARIOUS EROSION CONTROL ITEMS.

NUMBER IN CIRCLE REFERS TO NUMBERED DETAILS ON MDT STANDARD PLAN R-96 SERIES. SOIL EROSION & SEDIMENTATION CONTROL MEASURES: "P" DENOTES PERMANENT MEASURE AND "T" DENOTES TEMPORARY MEASURE. SOIL EROSION CONTROL PLANS DENOTE MINIMUM EROSION MEASURES REQUIRED AS DESCRIBED BELOW.

- 3P DENOTES PERMANENT SEEDING. ALL DISTURBED AREAS NOT PAVED OR GRAVELED SHALL BE RESTORED. PLACE TOPSOIL SURFACE, SALV. 4 INCH. MUD SEEDING MIXTURE. THIN APPLIED AT A RATE OF 176 LB/ACRE. FERTILIZER, CHEMICAL NUTRIENT, G.A. APPLIED AT A RATE OF 228 LB/ACRE. MULCH AT A RATE OF 2 TON/ACRE AND MULCH ANCHORING. (APPLIES TO ENTIRE PROJECT)
- 7P DENOTES RIPRAP. PLAIN. INSTALL RIPRAP. PLAIN AS DIRECTED BY THE ENGINEER IN THE FIELD. THE RIPRAP, PLAIN PAV. ITEM SHALL INCLUDE A GEOTEXTILE UNDERLAYMENT AND GROUT.
- 8P DENOTES AGGREGATE COVER/PERMANENT PAVEMENT RESTORATION
- 14T DENOTES GRAVEL ACCESS APPROACH. APPROACH SHALL BE INSTALLED TO PROVIDE STABLE ACCESS TO ROADWAYS AND MINIMIZE DUST AND TRACKING OF MATERIALS ONTO PUBLIC STREETS AND HIGHWAYS. THE APPROACH SHALL BE A MINIMUM OF 10' WIDE, 6" DEEP, AND CONSIST OF 2" - 4" AGGREGATE.
- 20T DENOTES TEMPORARY SILT FENCE. SILT FENCE SHALL BE INSTALLED AT CREEK CROSSINGS, ADJACENT TO ALL WETLANDS AND SURFACE WATERS, AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. EACH SILT FENCE SHALL BE INSTALLED GENERALLY ALONG THE SAME CONTOUR ELEVATION.
- 29T DENOTES INLET PROTECTION FABRIC DROP. SHALL BE INSTALLED AT EXISTING AND PROPOSED STORM SEWER INLETS TO PROVIDE SETTLING AND FILTERING OF SILT LADEN WATER PRIOR TO ENTRY INTO THE DRAINAGE SYSTEM.

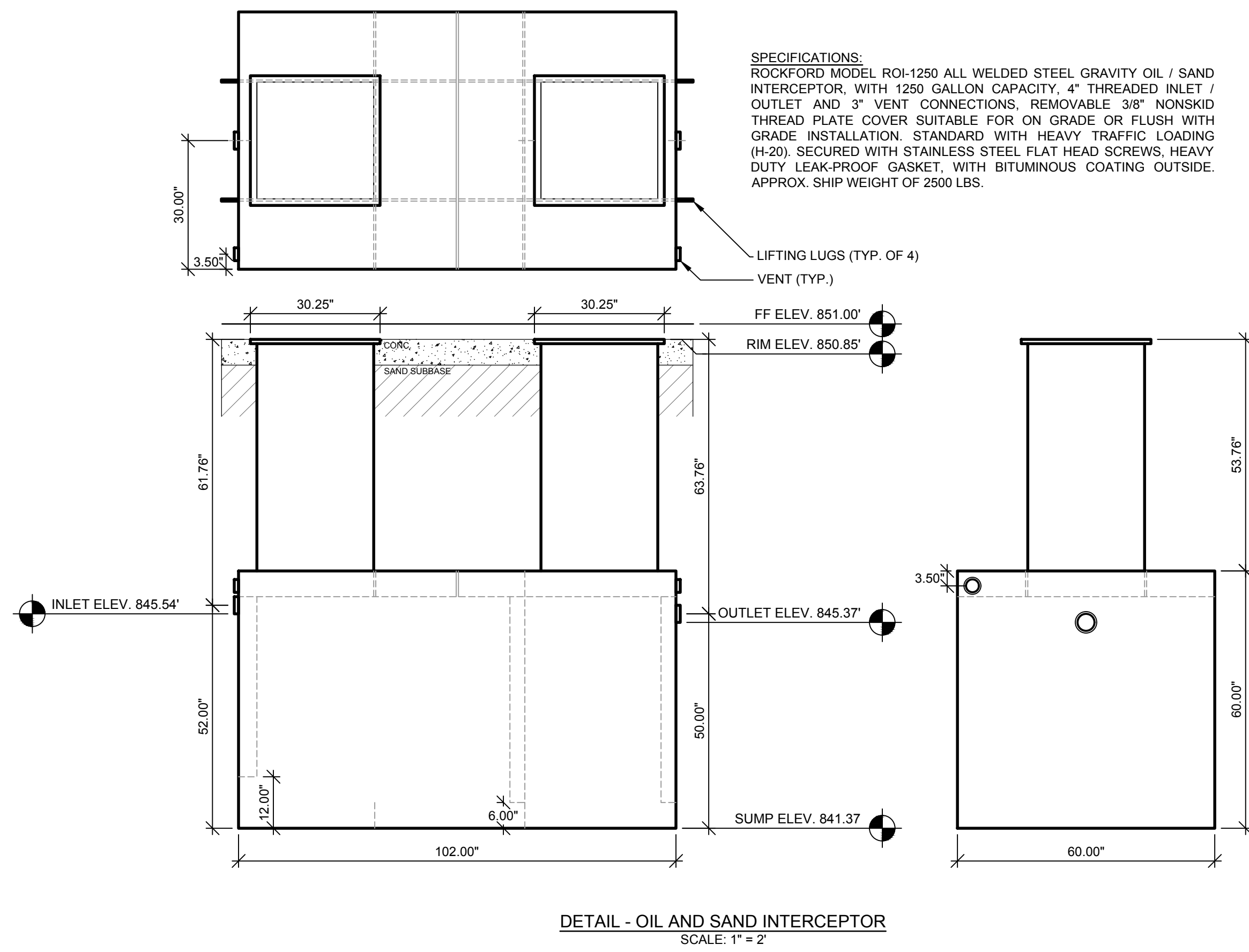
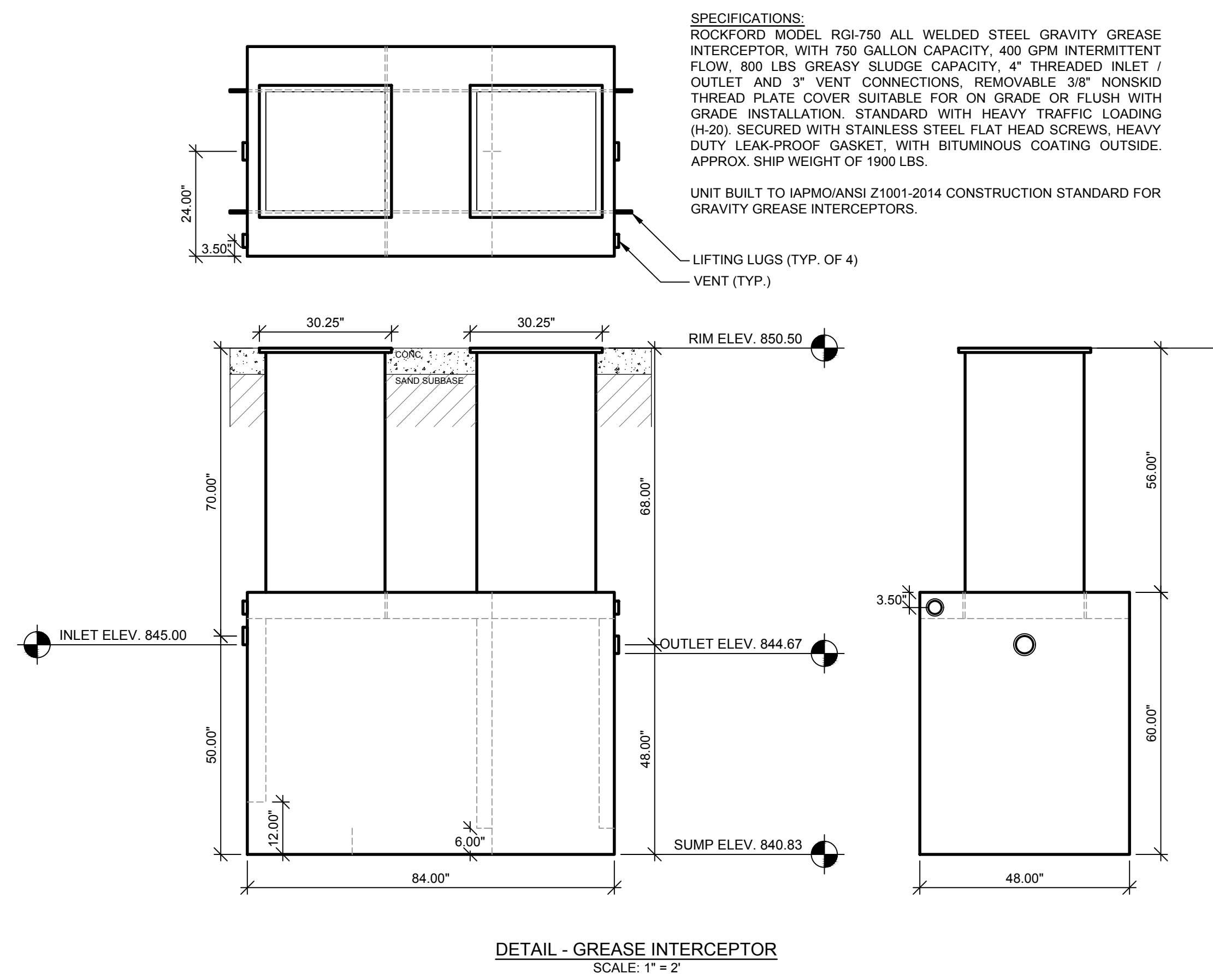


SILT FENCE NOTES

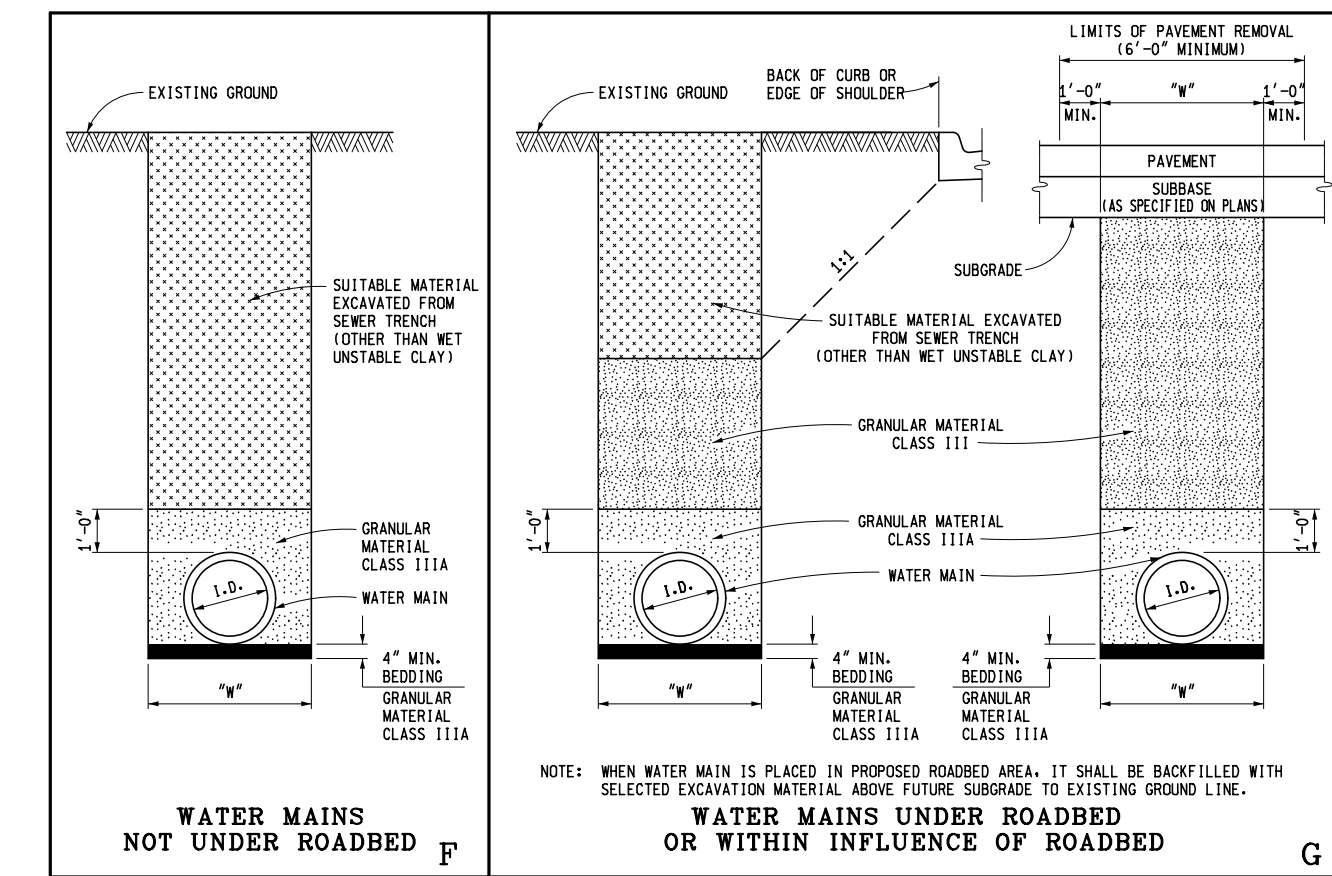
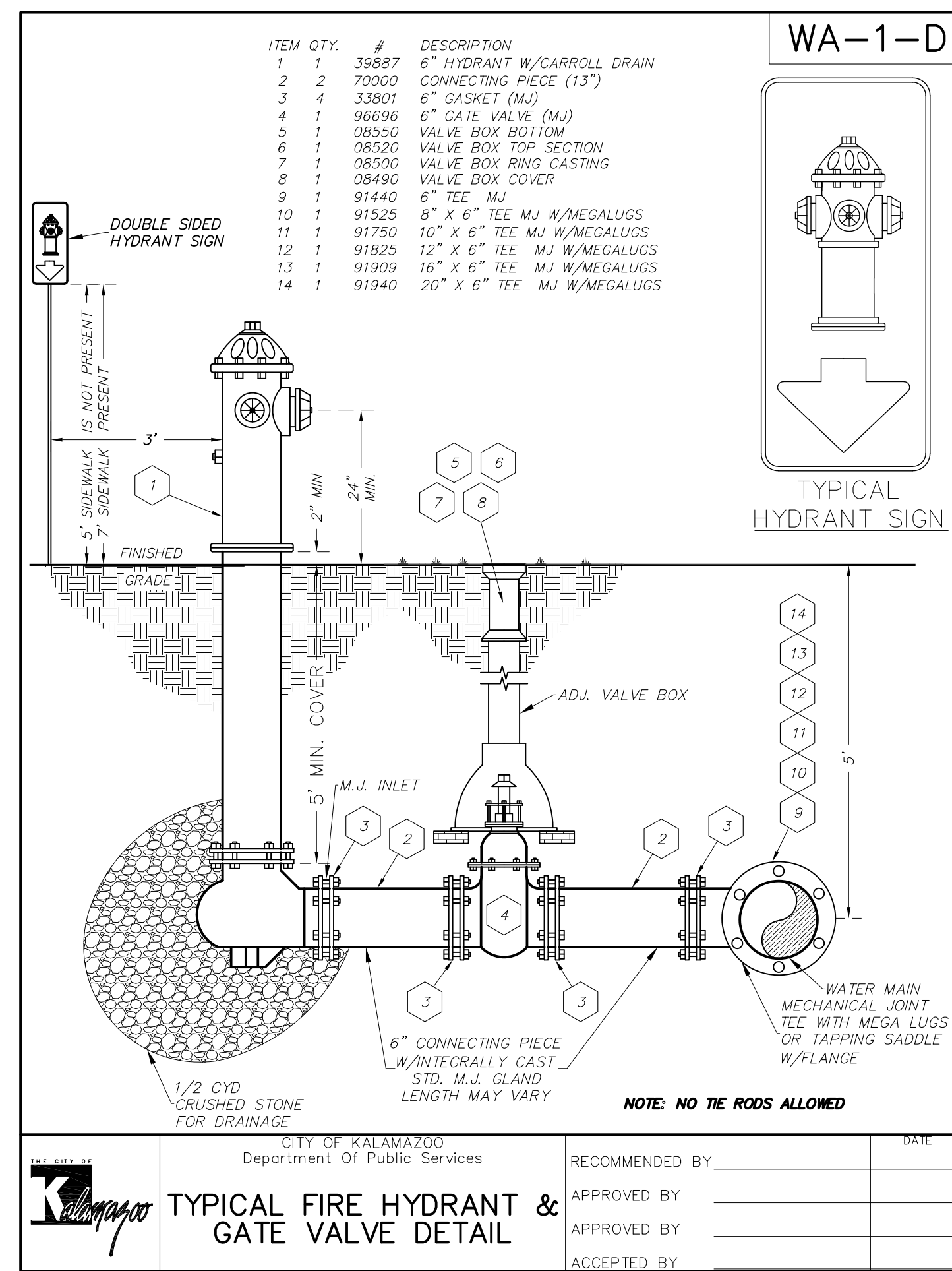
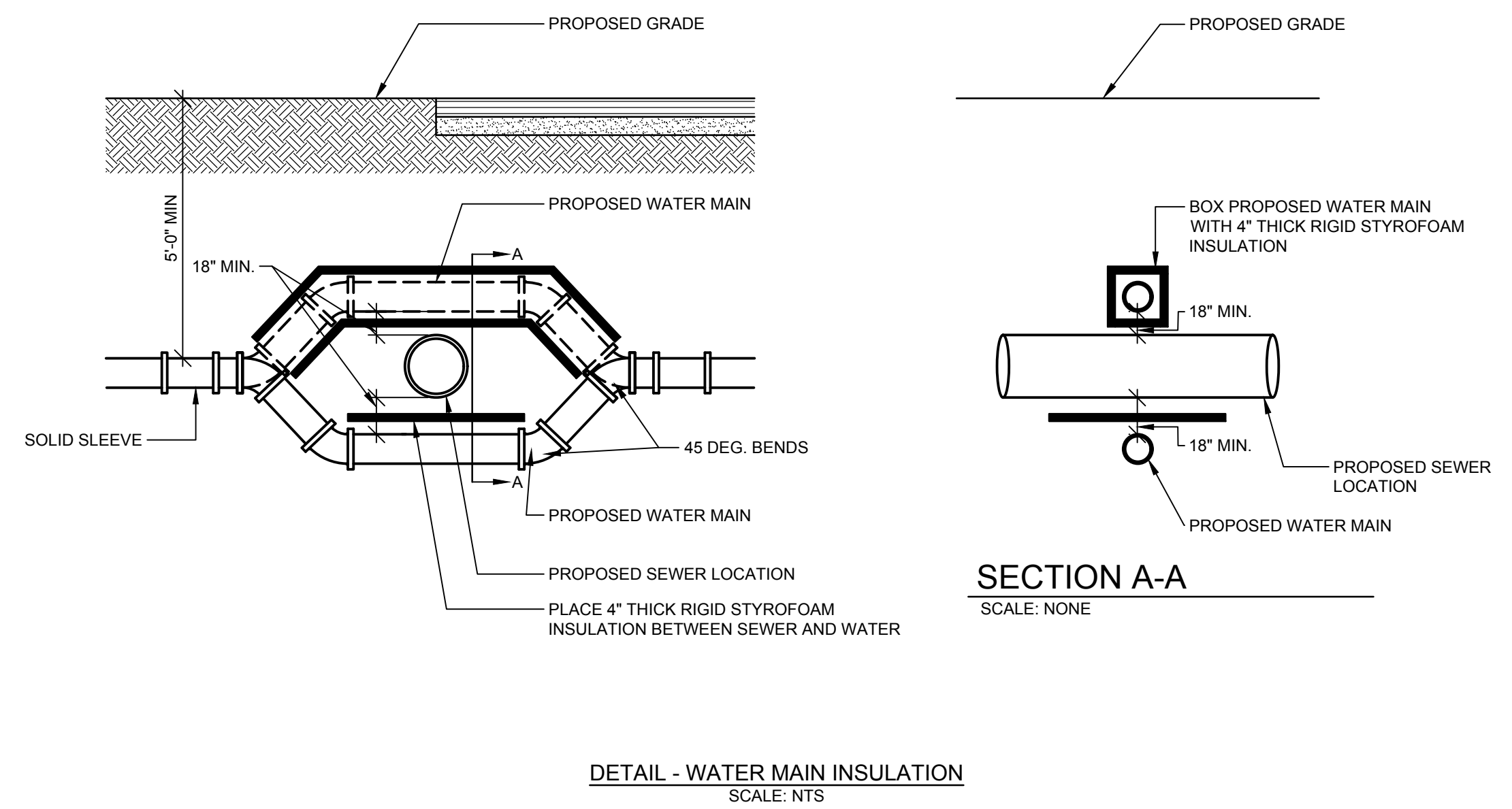
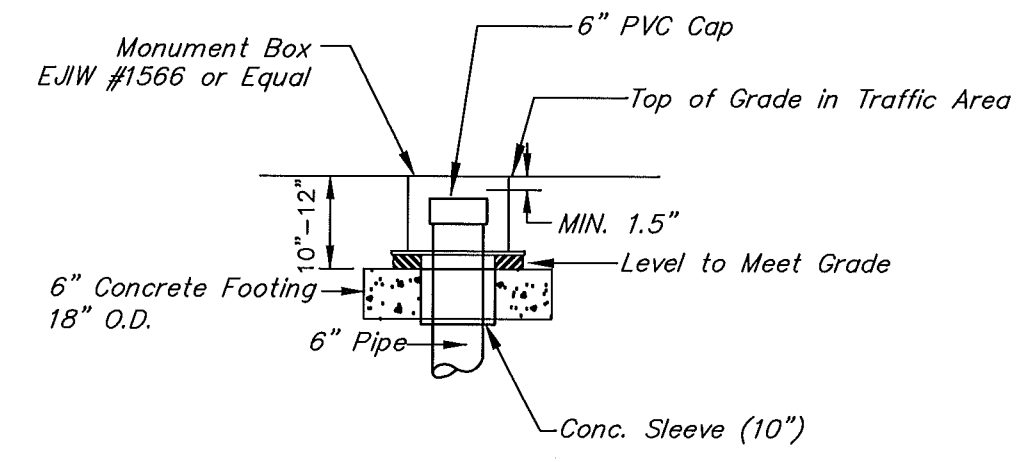
1. THE HEIGHT OF SILT FENCE SHALL NOT EXCEED 36 INCHES ABOVE GROUND.
2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM OF A 6 INCH OVERLAP, AND SECURELY SEALED.
3. POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 18 INCHES).
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG. TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES.
6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 6 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH.
7. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
8. WHEN EXTRA STRENGTH FILTER FABRIC IS USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS.
9. THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC.
10. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
11. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
12. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
13. SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEED.

SEDIMENT CONTROL FENCE
SCALE: NONE

SOIL EROSION AND SEDIMENTATION PLAN
SCALE: 1" = 40'



Site Plan Review
 City of Kalamazoo
 08/10/2022



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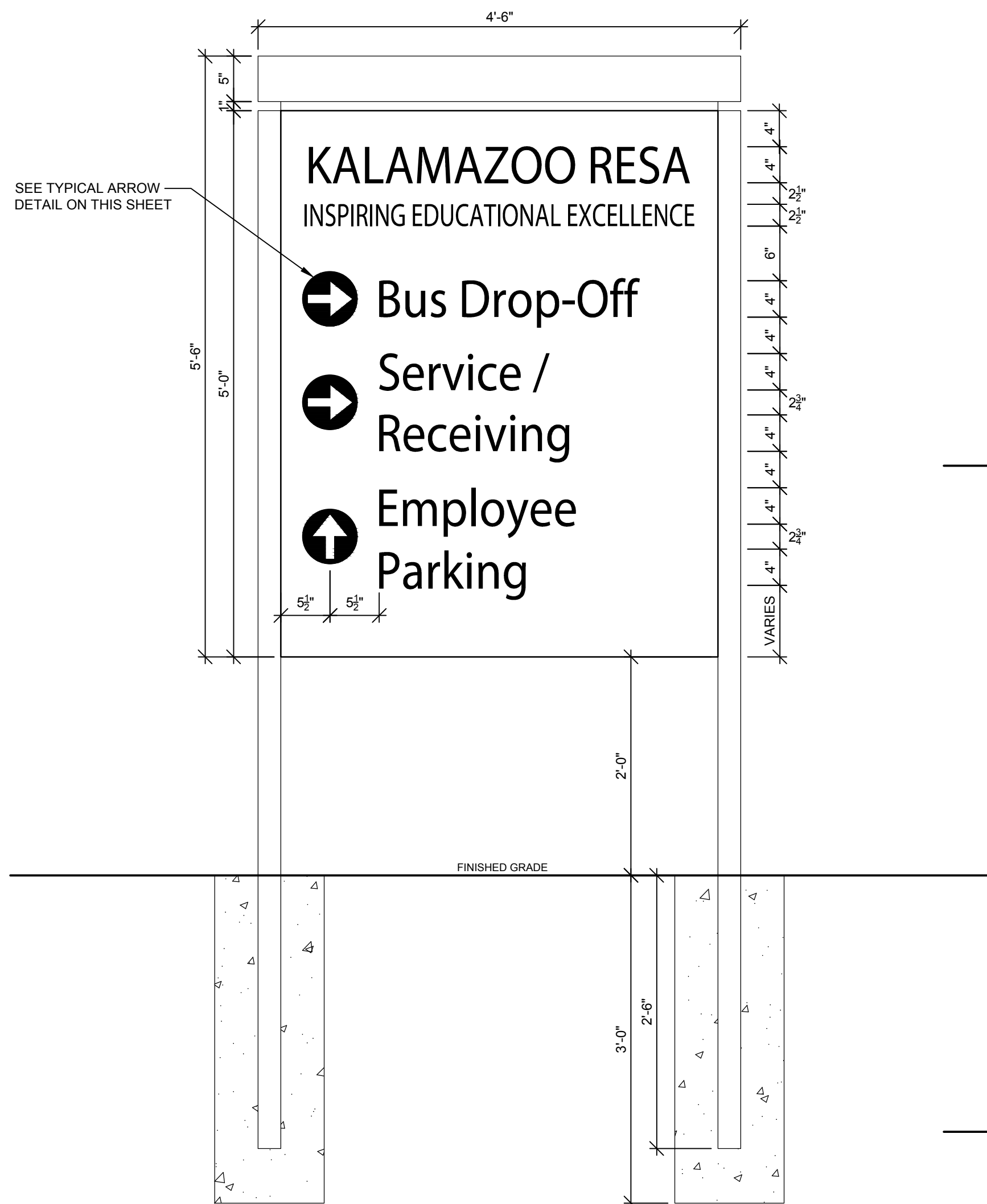
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DATE: JULY 2022
 SCALE: VARIES

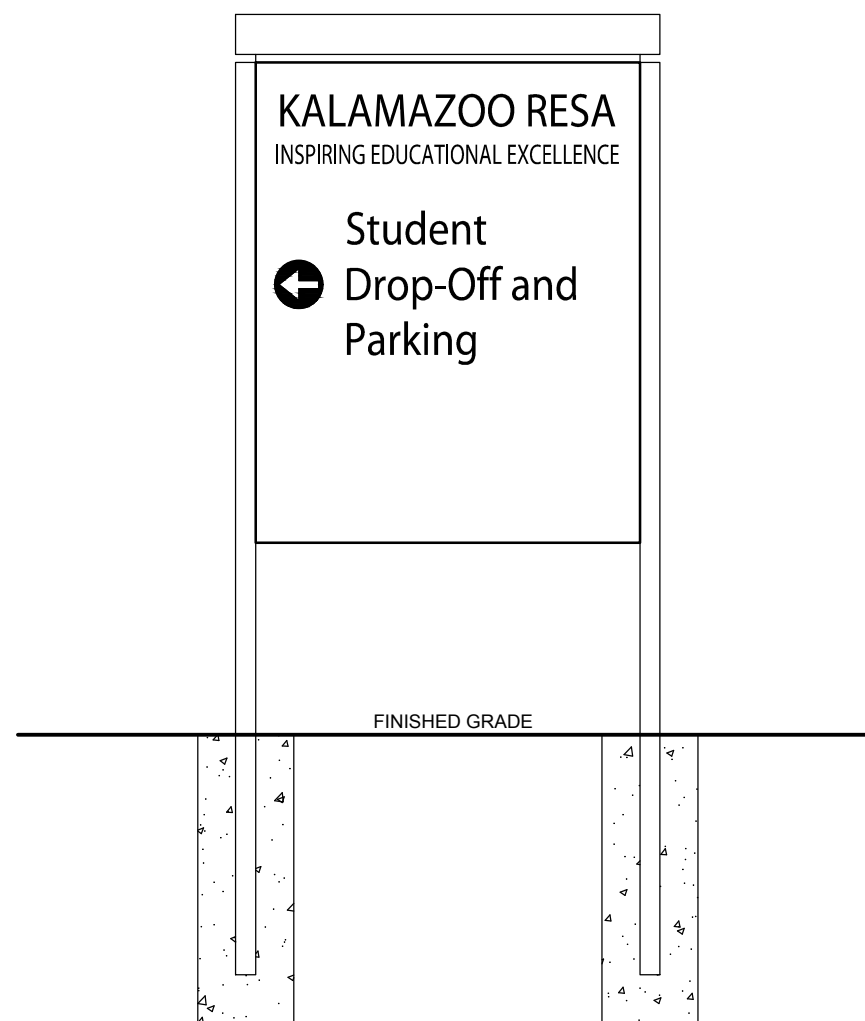
SITE IMPROVEMENT DETAILS

JOB No. 214175
C5.1

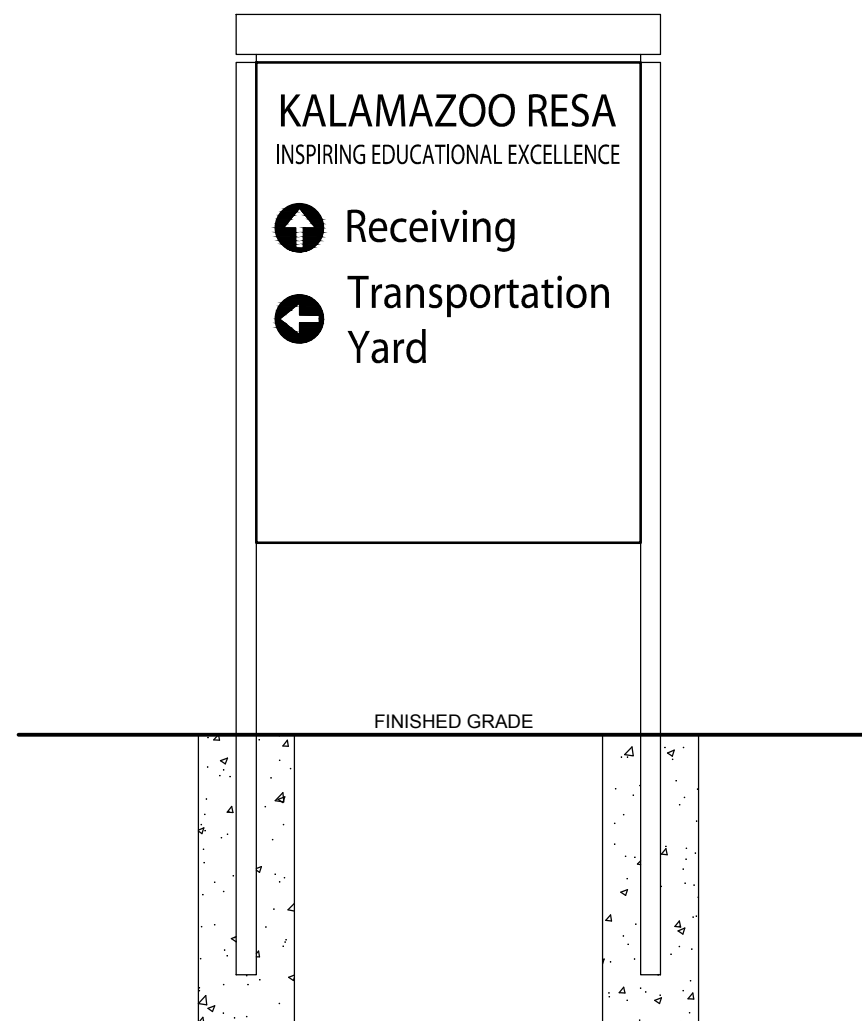


DIRECTIONAL SIGN DETAIL S1
SCALE: 1" = 1'

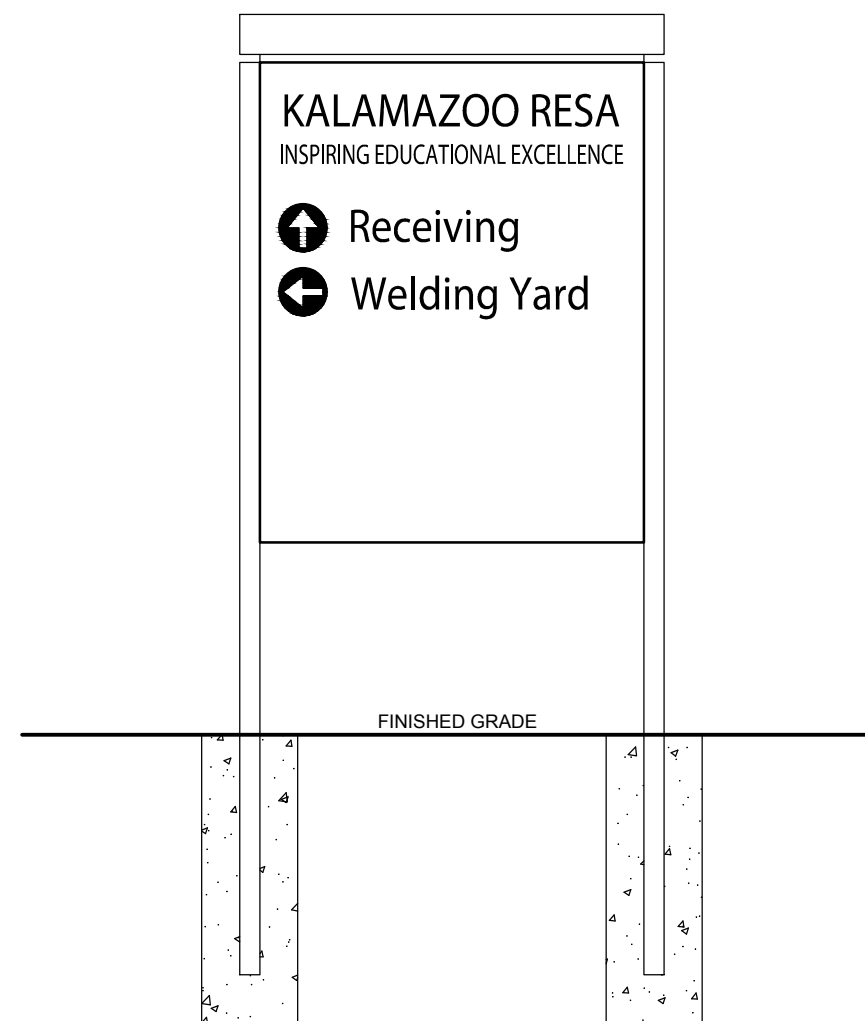
NOTE: SPACING AND DIMENSIONS SHOWN ABOVE IS TYPICAL FOR ALL DIRECTIONAL SIGNS. DIRECTIONAL SIGNS SHALL MATCH MATERIAL AND COLOR WITH EXISTING KRESA DIRECTIONAL SIGNAGE AT 1819 EAST MILHAM AVENUE.



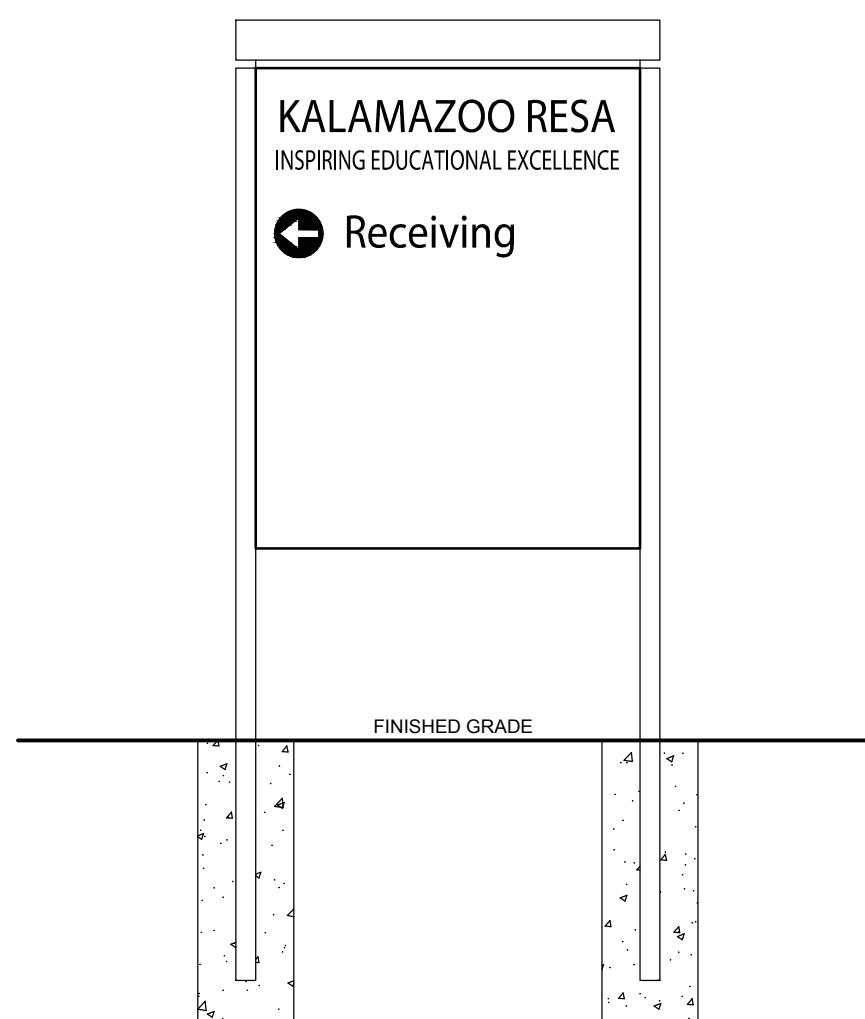
DIRECTIONAL SIGN DETAIL S4
SCALE: 1" = 2'



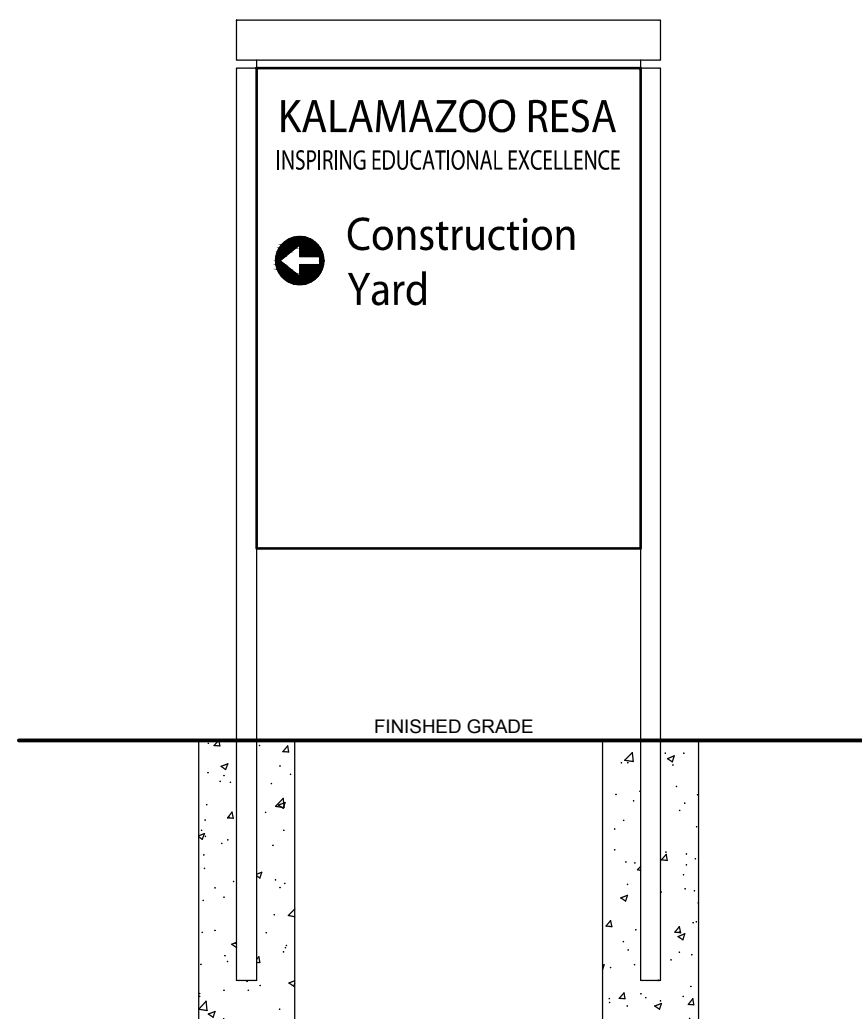
DIRECTIONAL SIGN DETAIL S5
SCALE: 1" = 2'



DIRECTIONAL SIGN DETAIL S6
SCALE: 1" = 2'

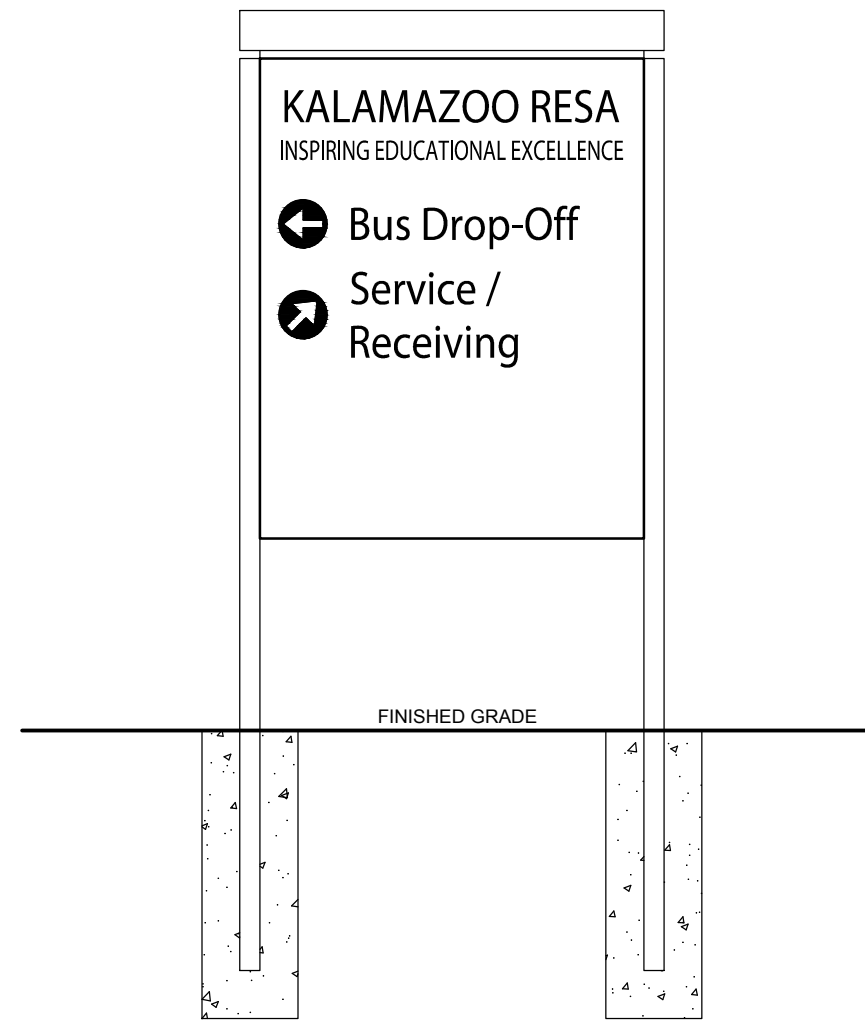


DIRECTIONAL SIGN DETAIL S7
SCALE: 1" = 2'

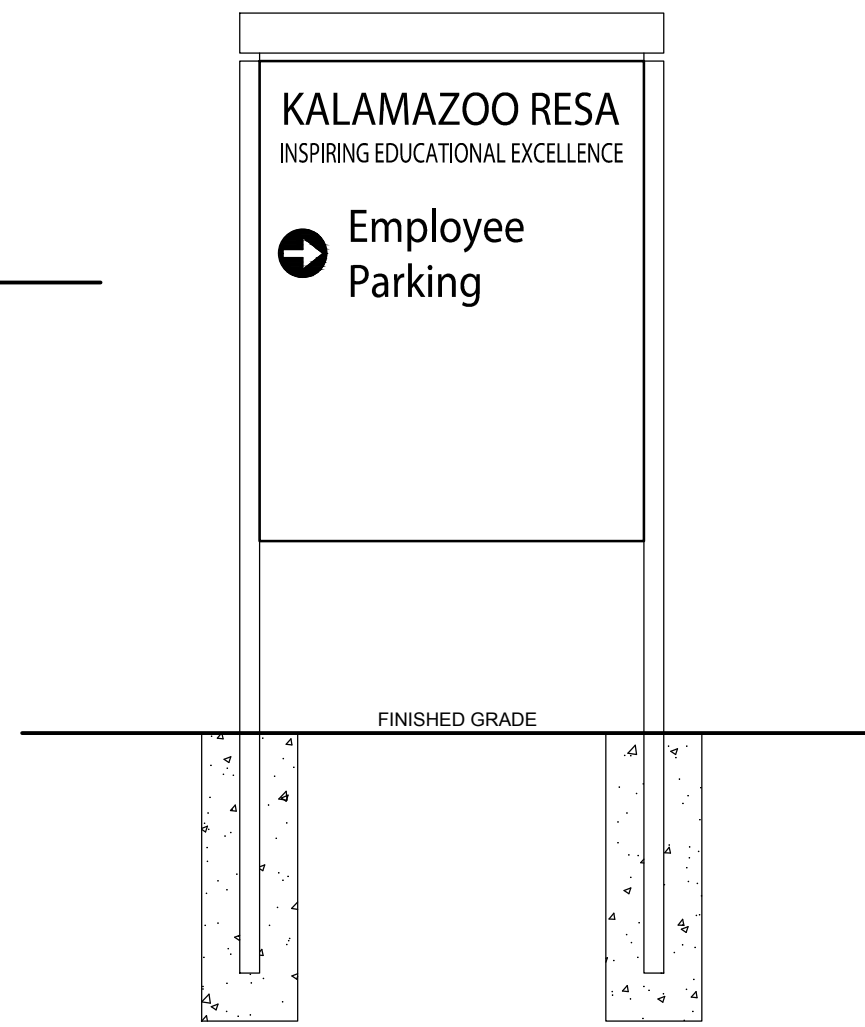


DIRECTIONAL SIGN DETAIL S8
SCALE: 1" = 2'

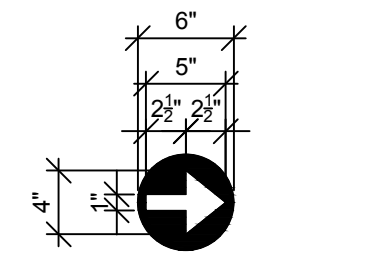
DIRECTIONAL SIGN DETAILS



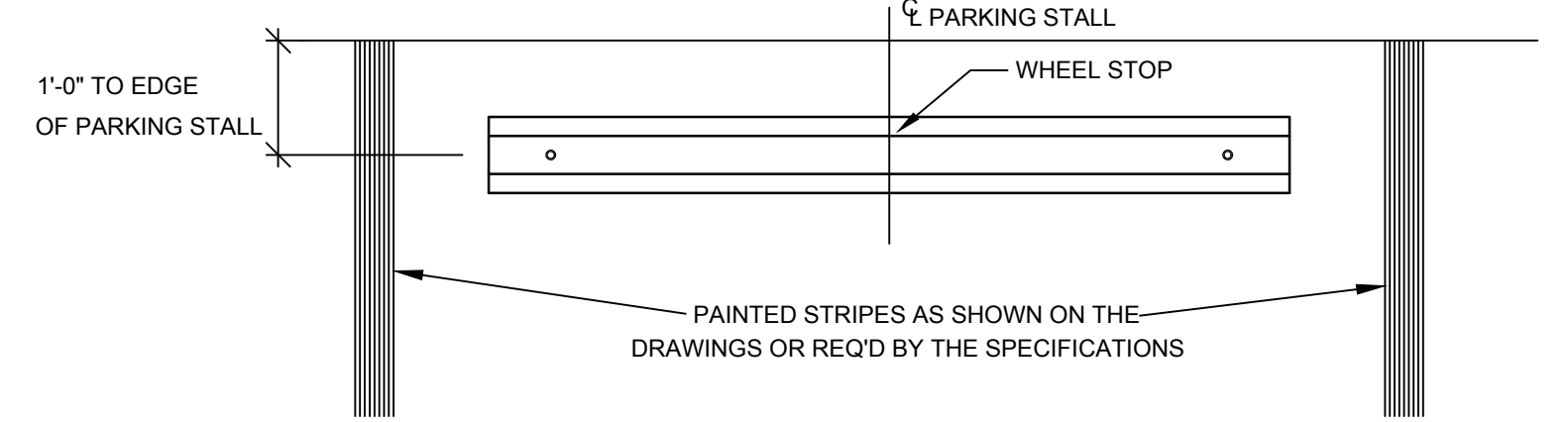
DIRECTIONAL SIGN DETAIL S2
SCALE: 1" = 2'



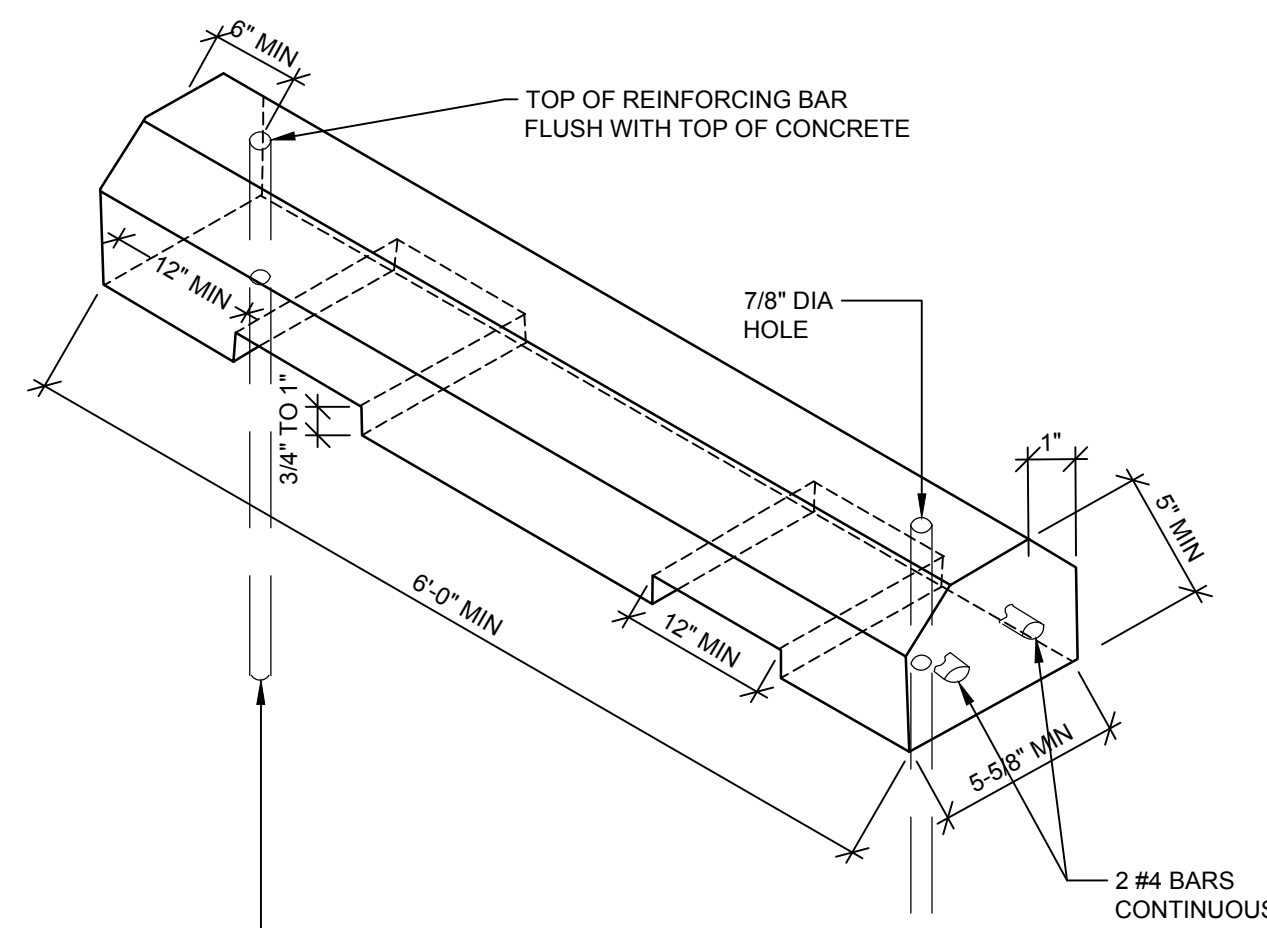
DIRECTIONAL SIGN DETAIL S3
SCALE: 1" = 2'



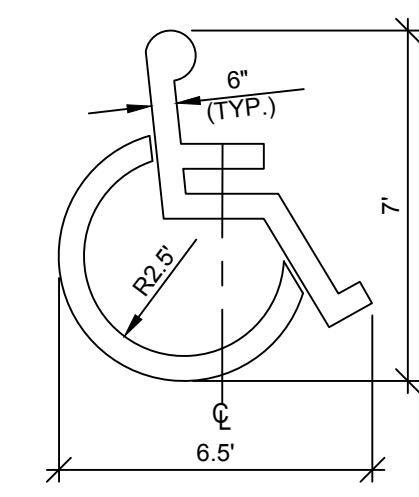
ARROW DETAIL - TYPICAL
SCALE: 1" = 1'



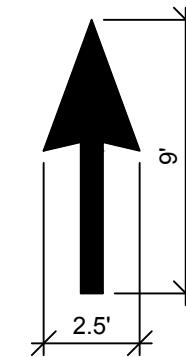
PARKING BUMPER INSTALLATION PLAN
SCALE: NOT TO SCALE



PARKING BUMPER
SCALE: NOT TO SCALE

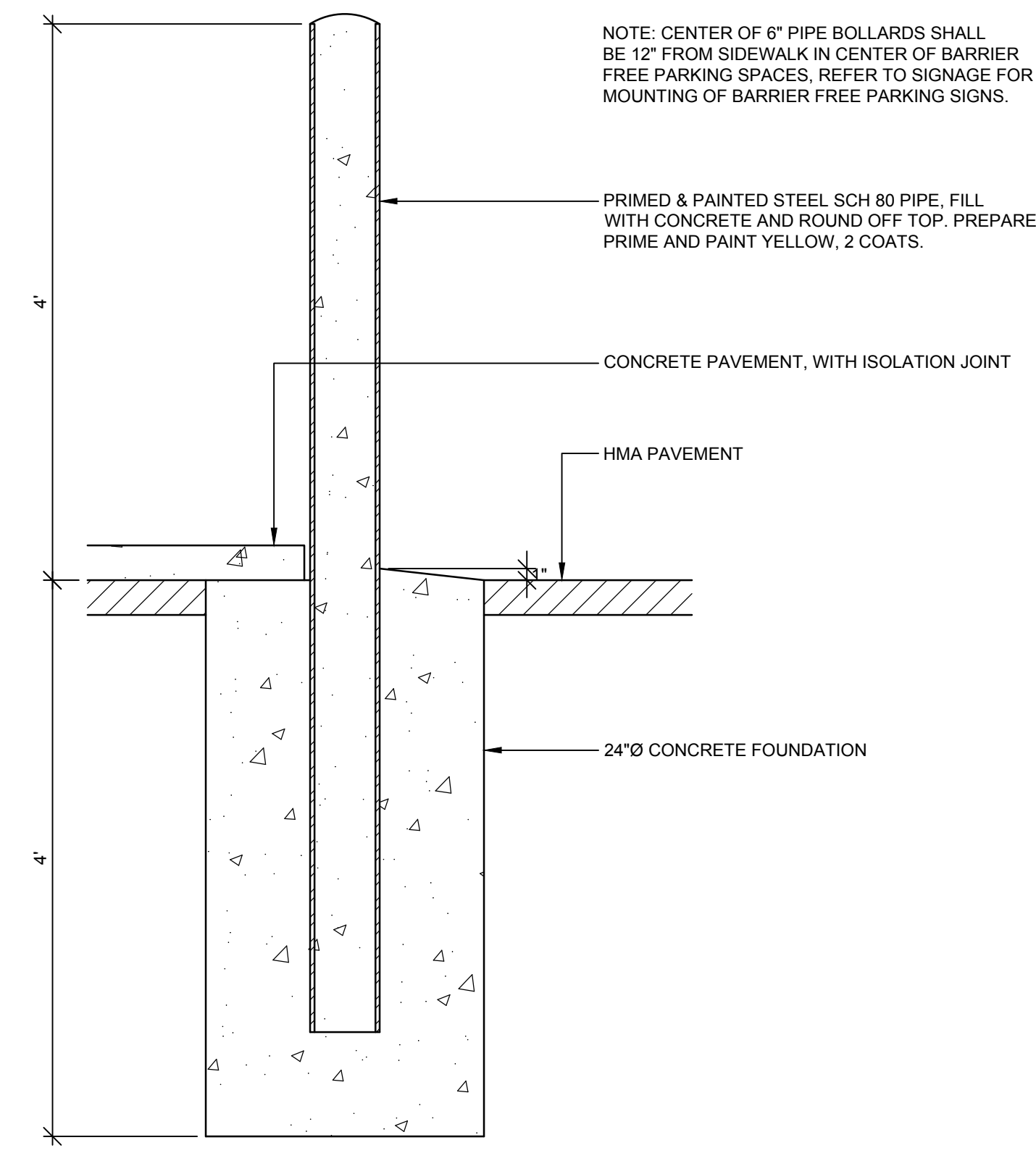


ADA SYMBOL DETAIL
SCALE: NONE

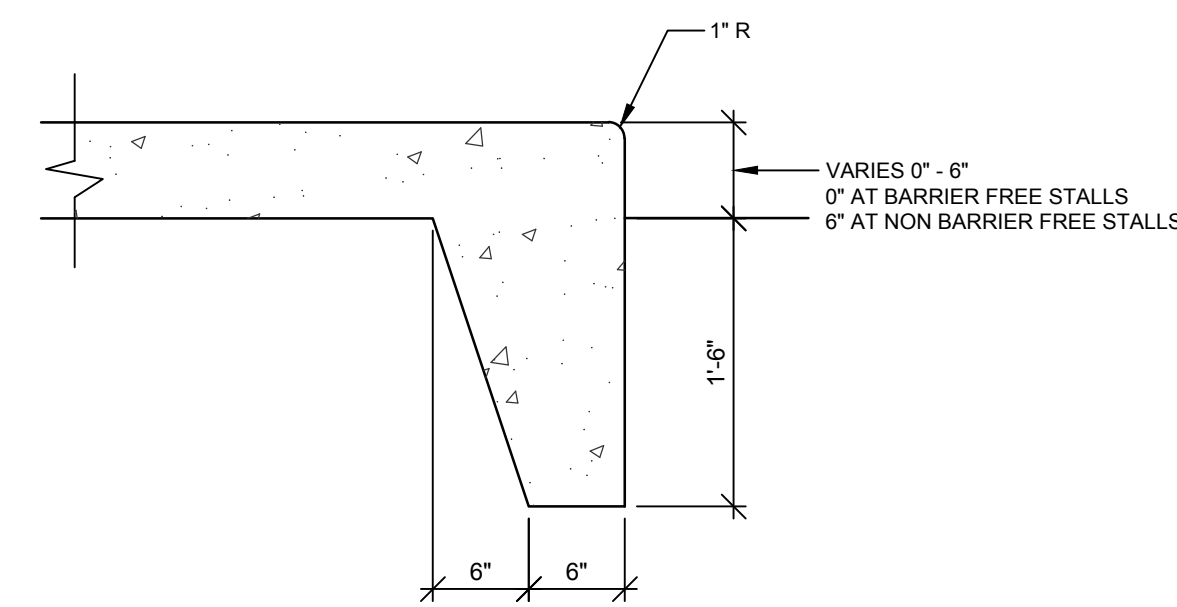


THROUGH LANE ARROW
NOTE: ALL TRAFFIC FLOW ARROWS TO BE PAINTED PER STATE DOT STANDARDS PER DIMENSIONS ABOVE.

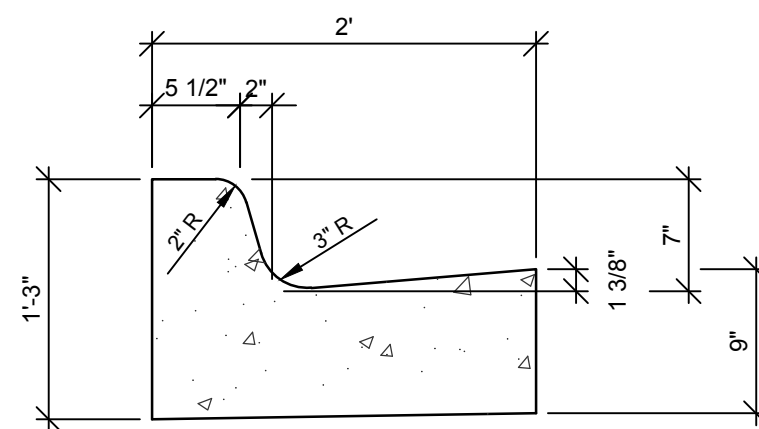
DIRECTION PAVEMENT MARKING
SCALE: NONE



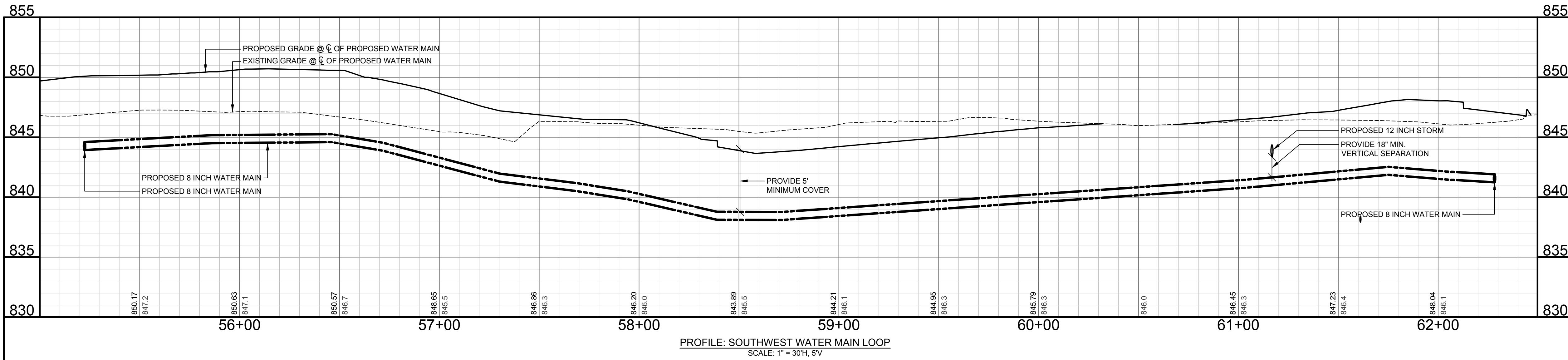
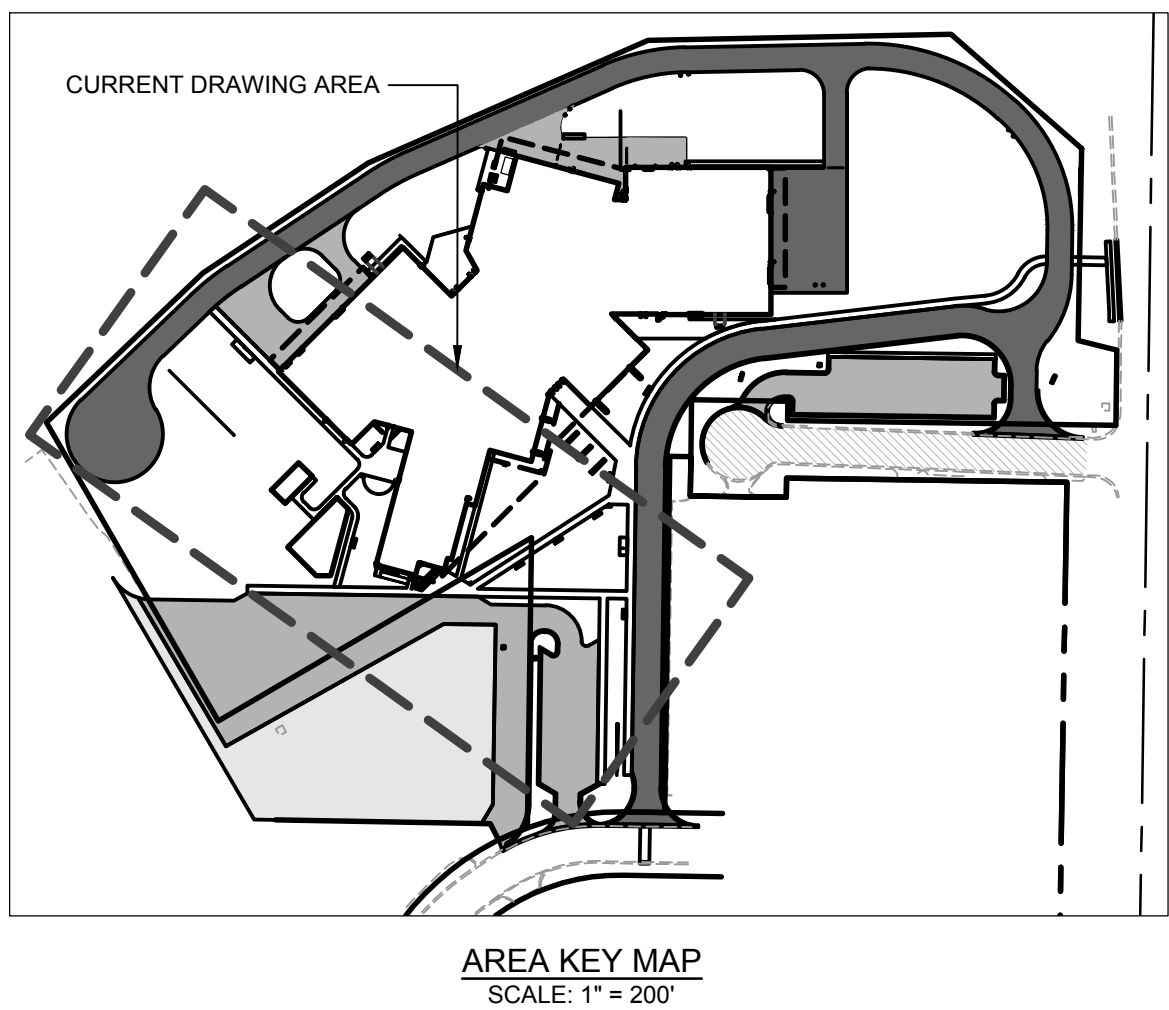
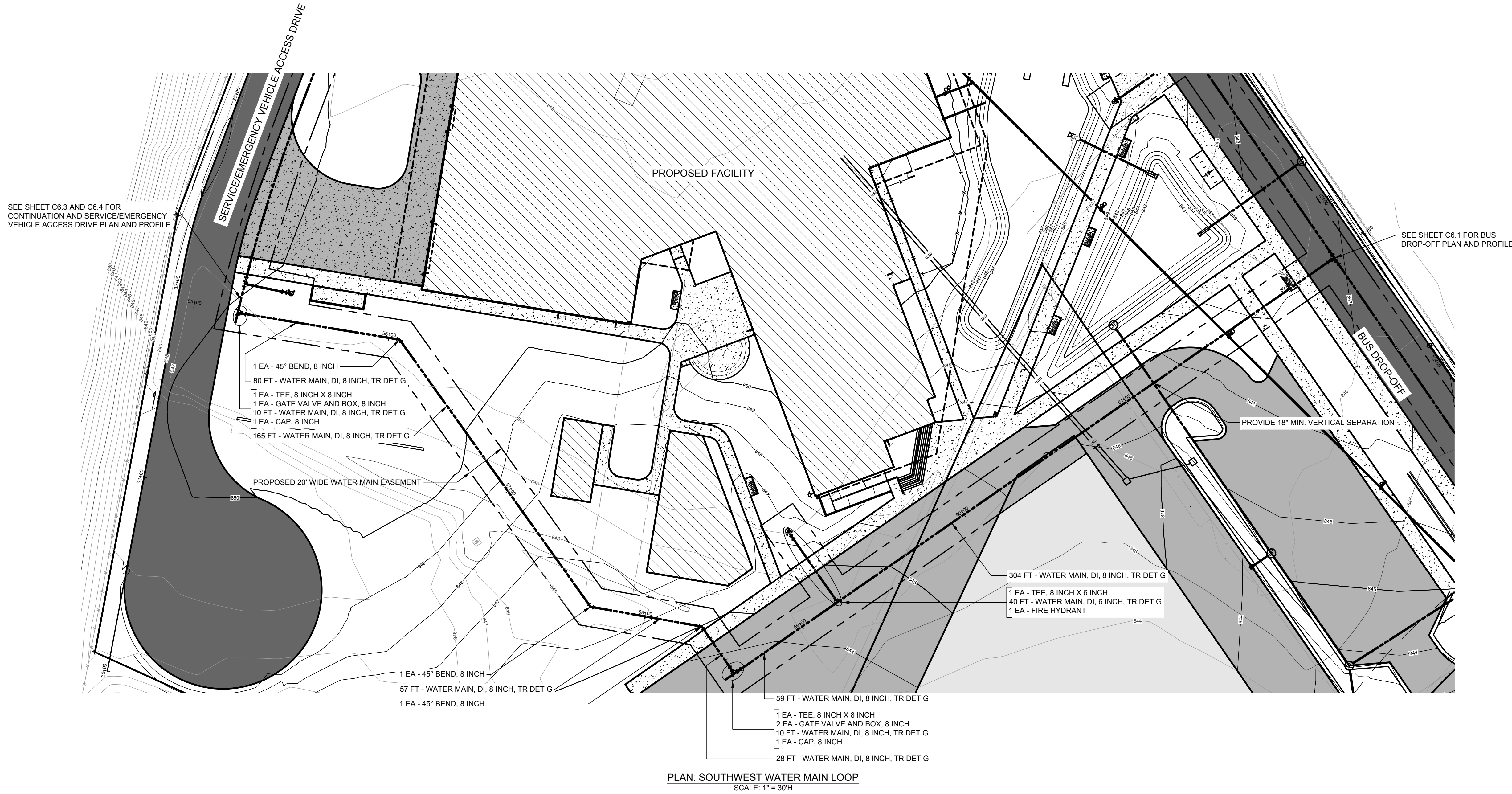
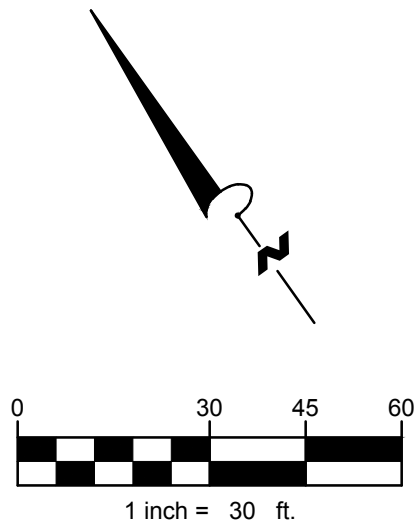
PIPE BOLLARD DETAIL
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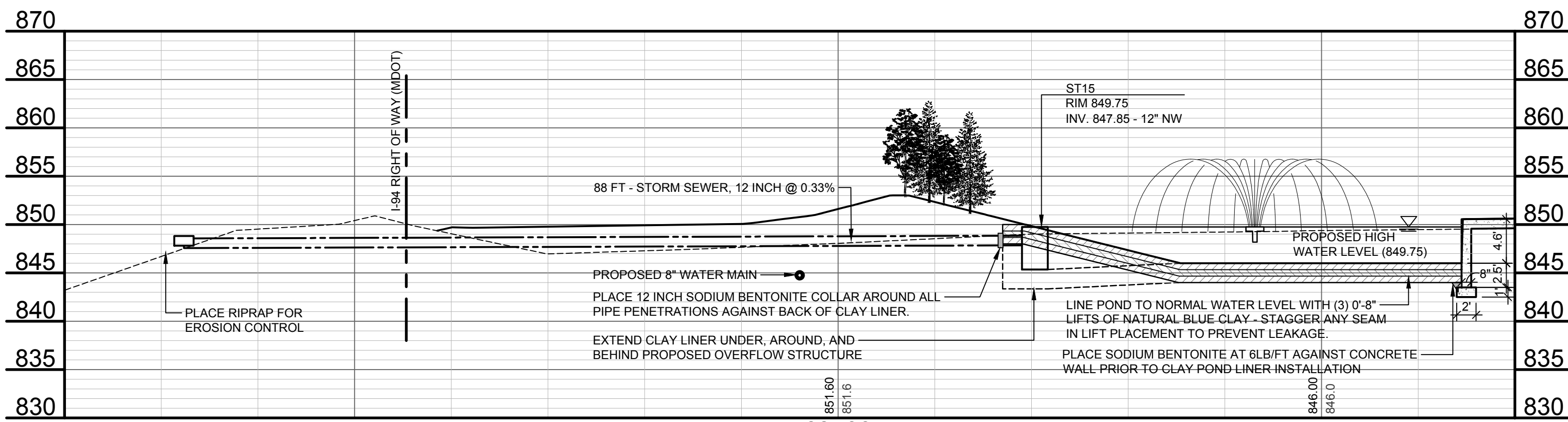
CURB & GUTTER - THICKENED SIDEWALK CURB



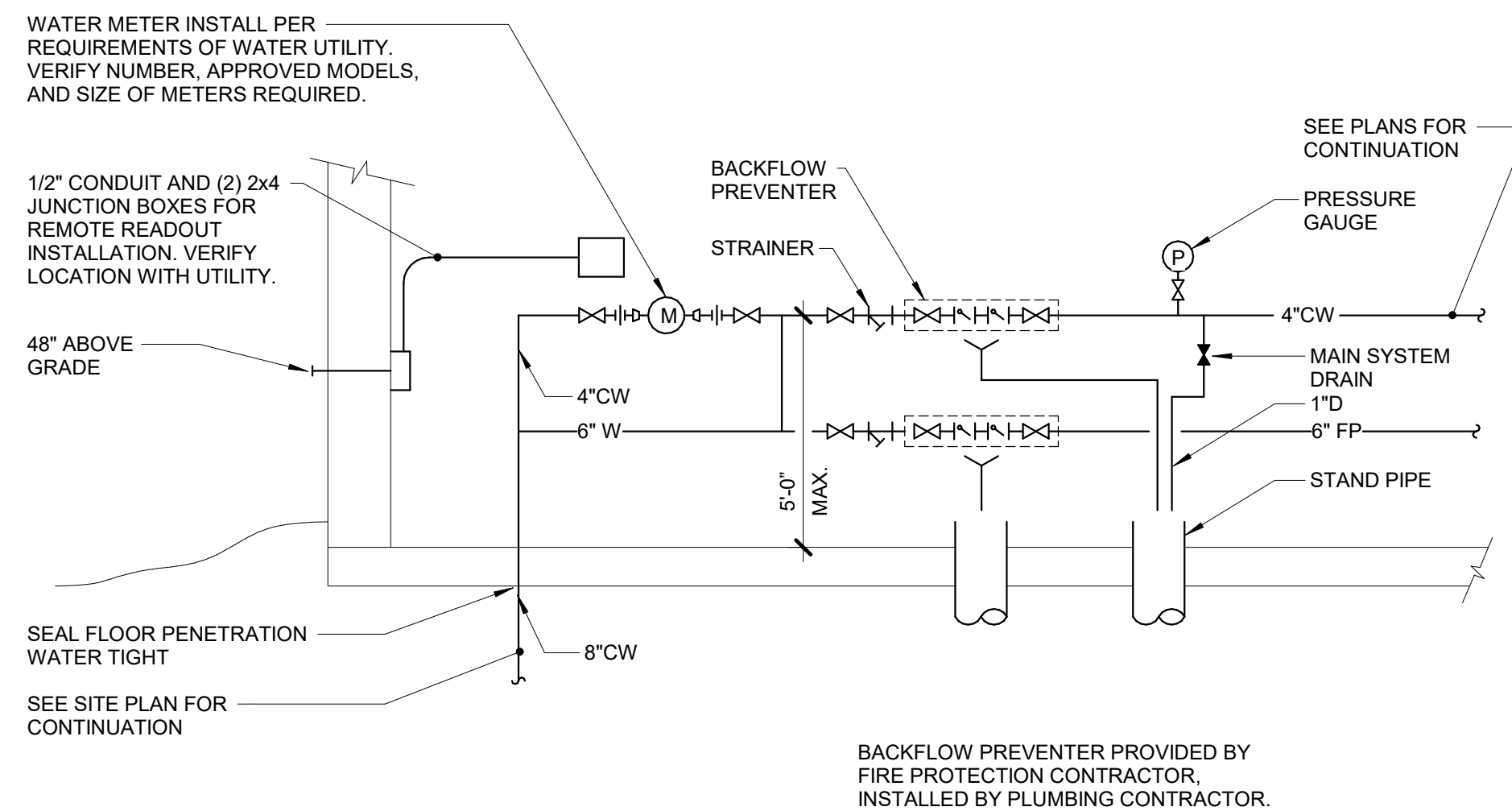
CURB & GUTTER - DETAIL C4



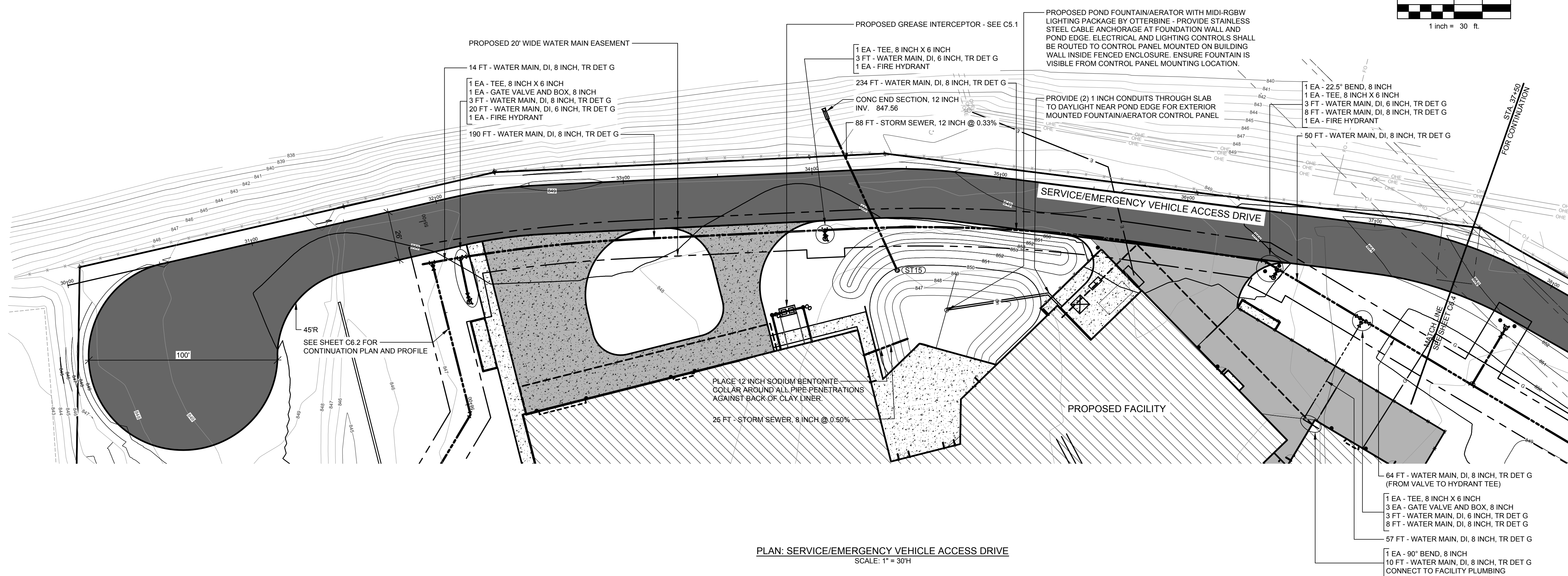
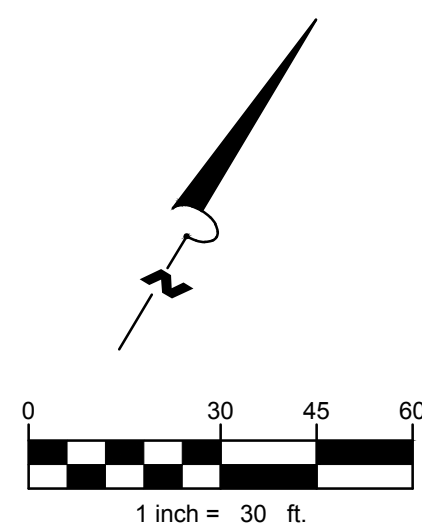
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DATE: JULY 2022		
SCALE: 1" = 30'H, 5'V		



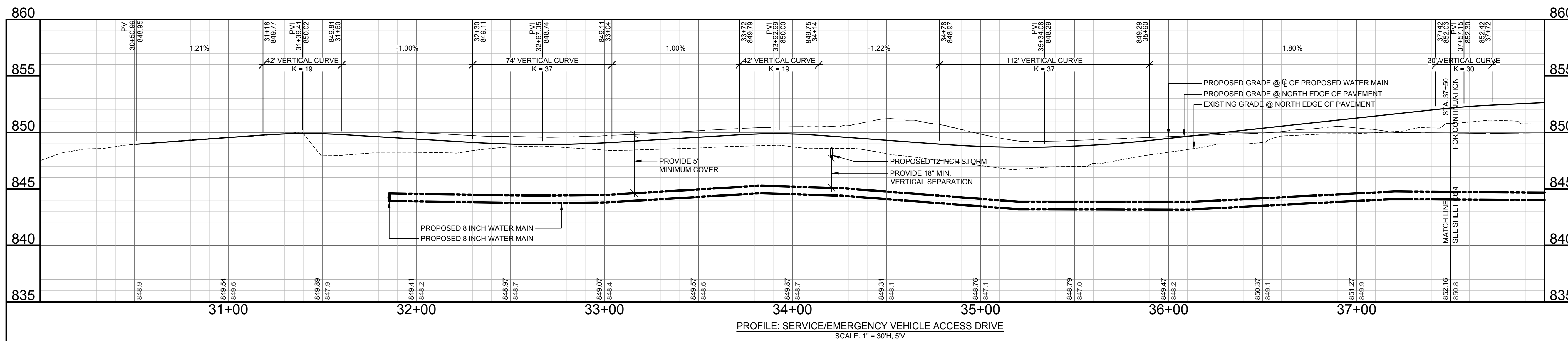
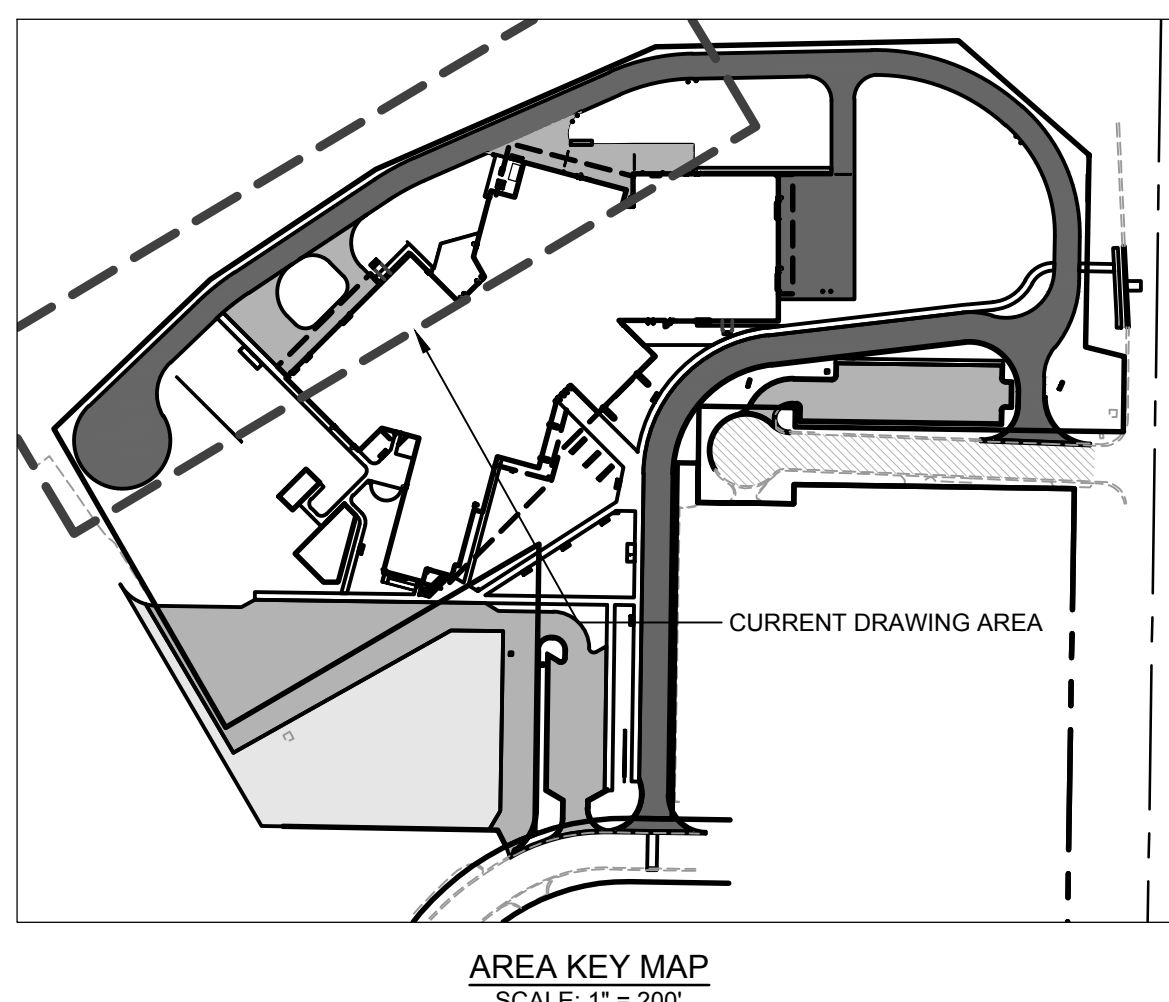
PROFILE: NORTH POND
SCALE: 1" = 10'

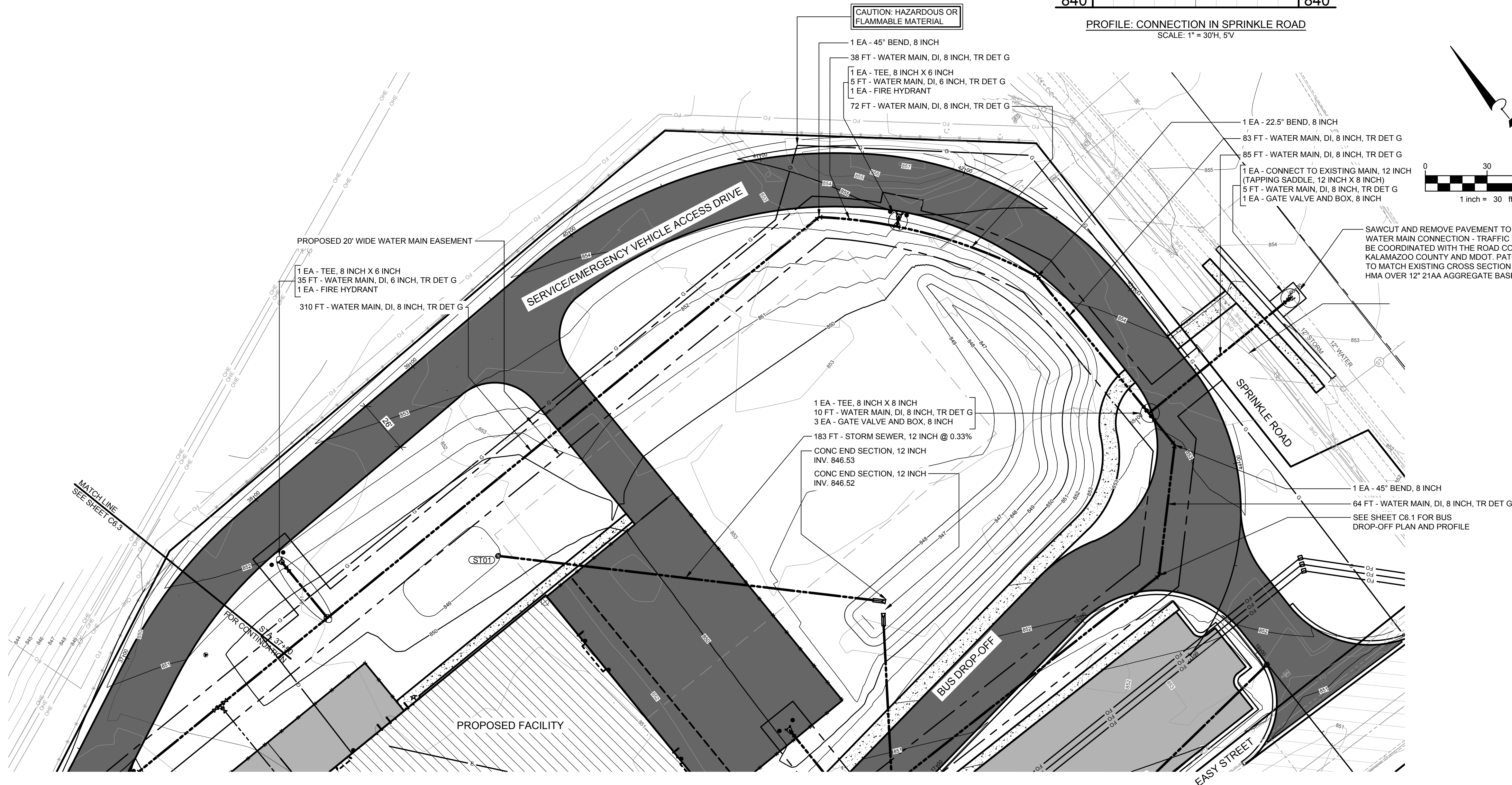
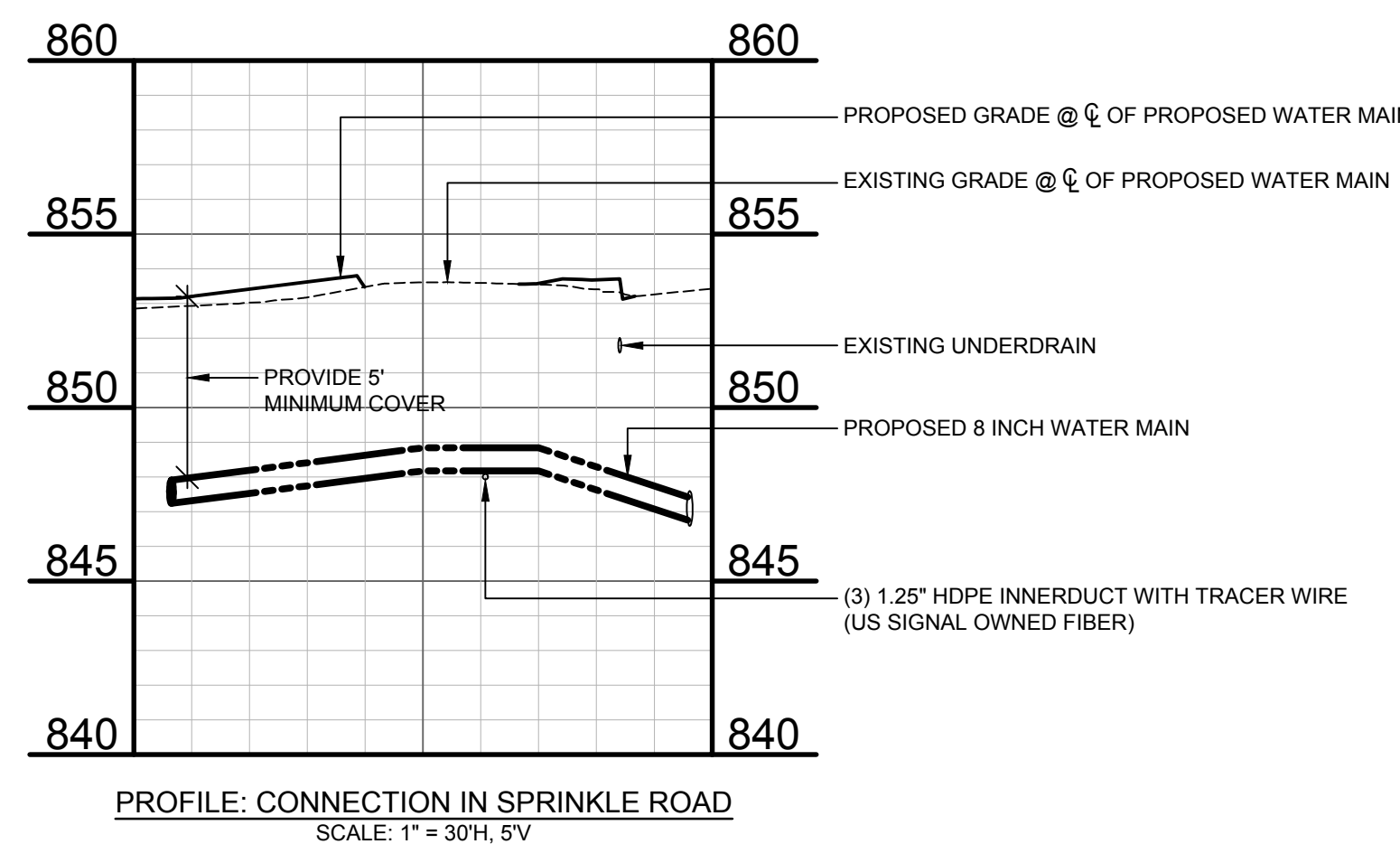


1 DOMESTIC WATER ENTRANCE
NO SCALE



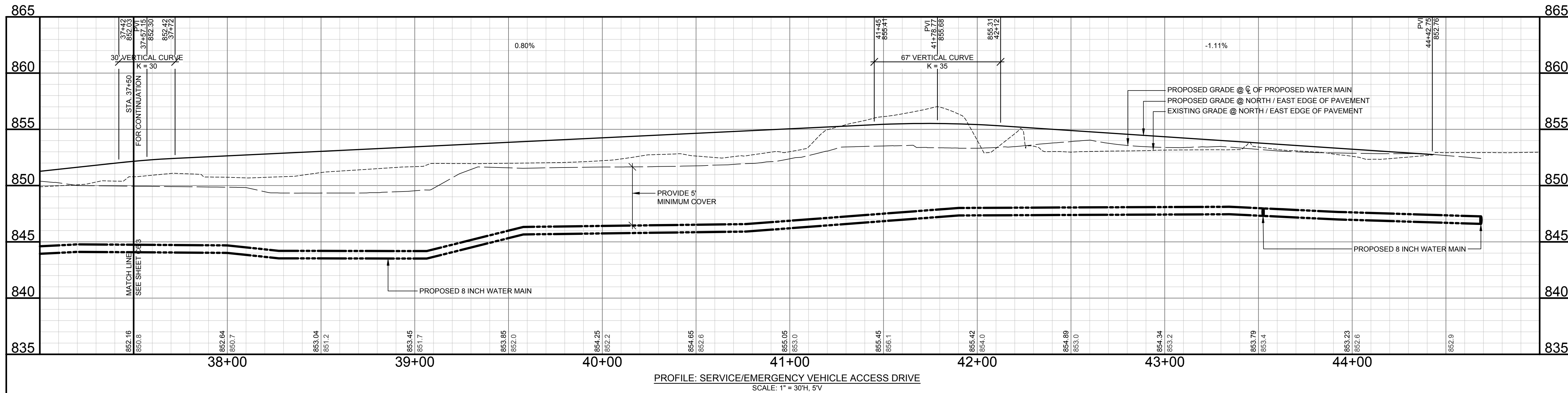
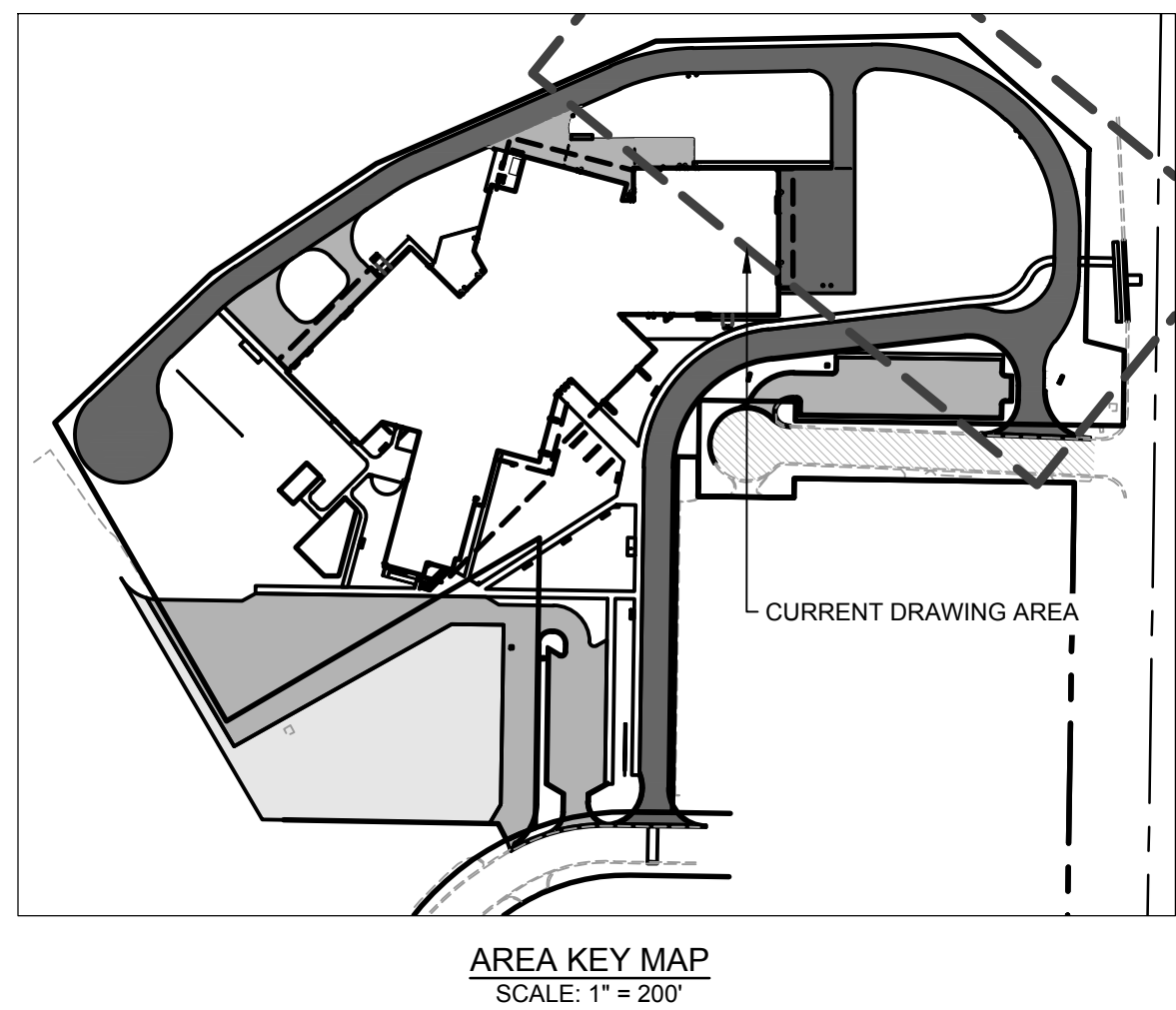
STORM STRUCTURES
ST15
DR STRUCTURE, 24 INCH DIA RIM 849.75
COVER G INV. 847.85 - 12" NW
2.0 FT SUMP

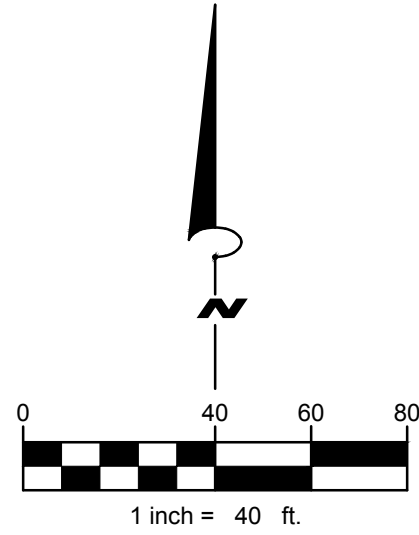
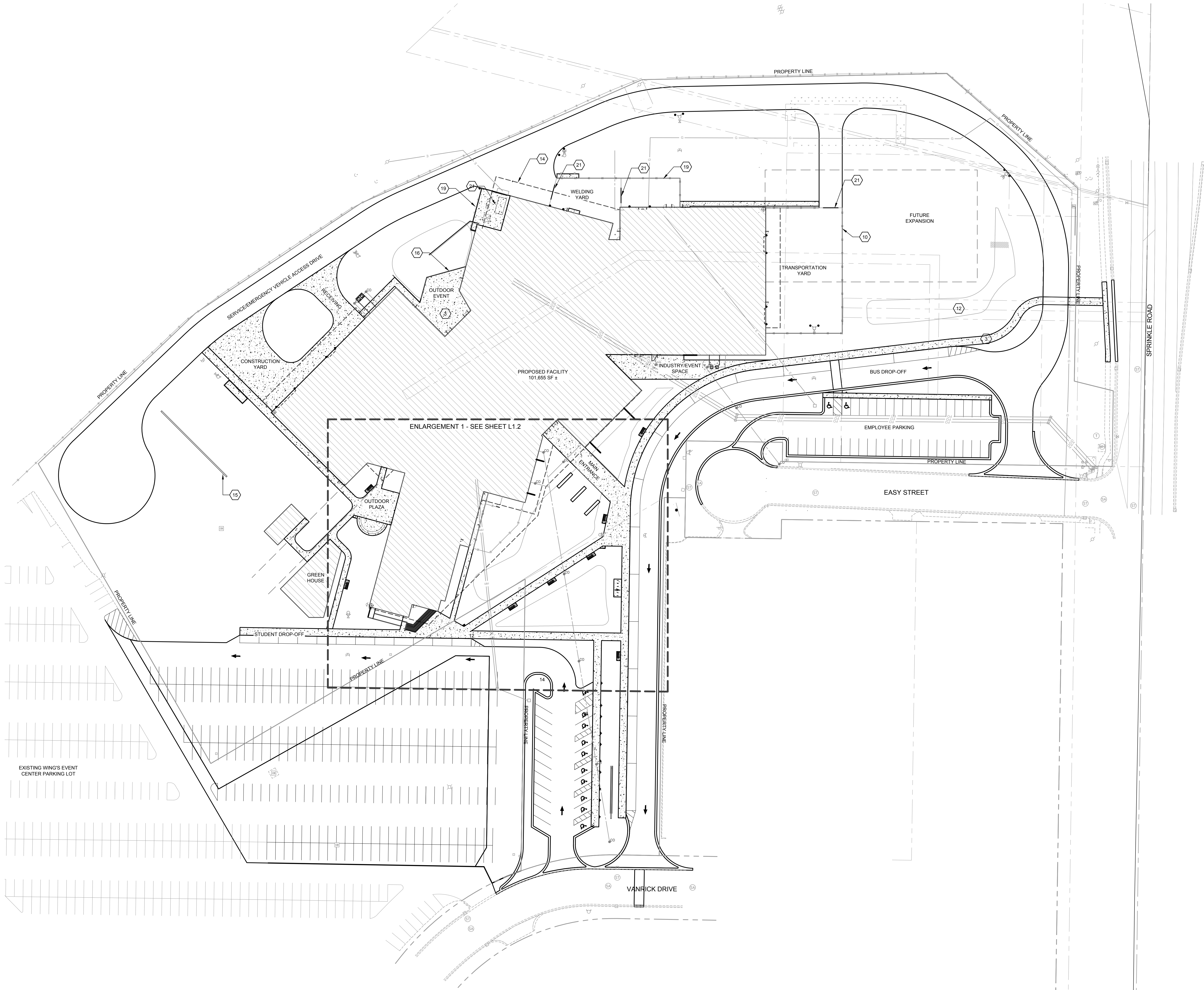




PLAN: SERVICE/EMERGENCY VEHICLE ACCESS DRIVE
SCALE: 1" = 30'H

STORM STRUCTURES
ST01
DR STRUCTURE, 24 INCH DIA RIM 849.00
COVER G INV. 847.14 - 12" SE
2.0 FT SUMP





SITE GENERAL NOTES

- DIMENSIONS REFER TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED
- CONTRACTOR TO FIELD VERIFY ALL EXISTING TOPOGRAPHY AND STRUCTURES ON SITE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- BUILDING DIMENSIONS ARE TO THE OUTSIDE FACE OF BUILDING, UNLESS NOTED OTHERWISE.
- REFER TO ARCHITECTURAL AND STRUCTURAL PLANS TO VERIFY ALL BUILDING DIMENSIONS.

KEY NOTES

- TYPE C4 CURB AND GUTTER (SEE DETAILS)
- THICKENED EDGE SIDEWALK INTEGRAL CURB AND GUTTER (SEE DETAILS)
- CONCRETE SIDEWALK, TYP.
- ARCHITECTURAL FENCING, 9 FT
- ARCHITECTURAL FENCING, 12 FT
- BIO-SWALE/RAIN GARDEN
- RETAINING WALL
- ROOF/ SECOND STORY OVERHANG
- BRANDING WALL
- POND RAILING
- PEDESTRIAN RAMP
- STAIR AND PEDESTRIAN RAMP
- BLACK VINYL COATED CHAIN LINK FENCE, 8 FT
- GATE (MATERIAL TO MATCH FENCE)
- BENCH ON CONCRETE PAD - SEE SHEET L4.1 FOR DETAIL
- LITTER RECEPTACLE ON CONCRETE PAD - SEE SHEET L4.1 FOR DETAIL
- BIKE RACK ON CONCRETE PAD - SEE SHEET L4.1 FOR DETAIL
- CIRCULAR BENCH



BENTON HARBOR

269.927.0100

KALAMAZOO
 000 0000 0000

269.327.3532

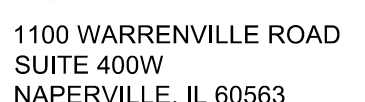
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SITE GENERAL NOTES

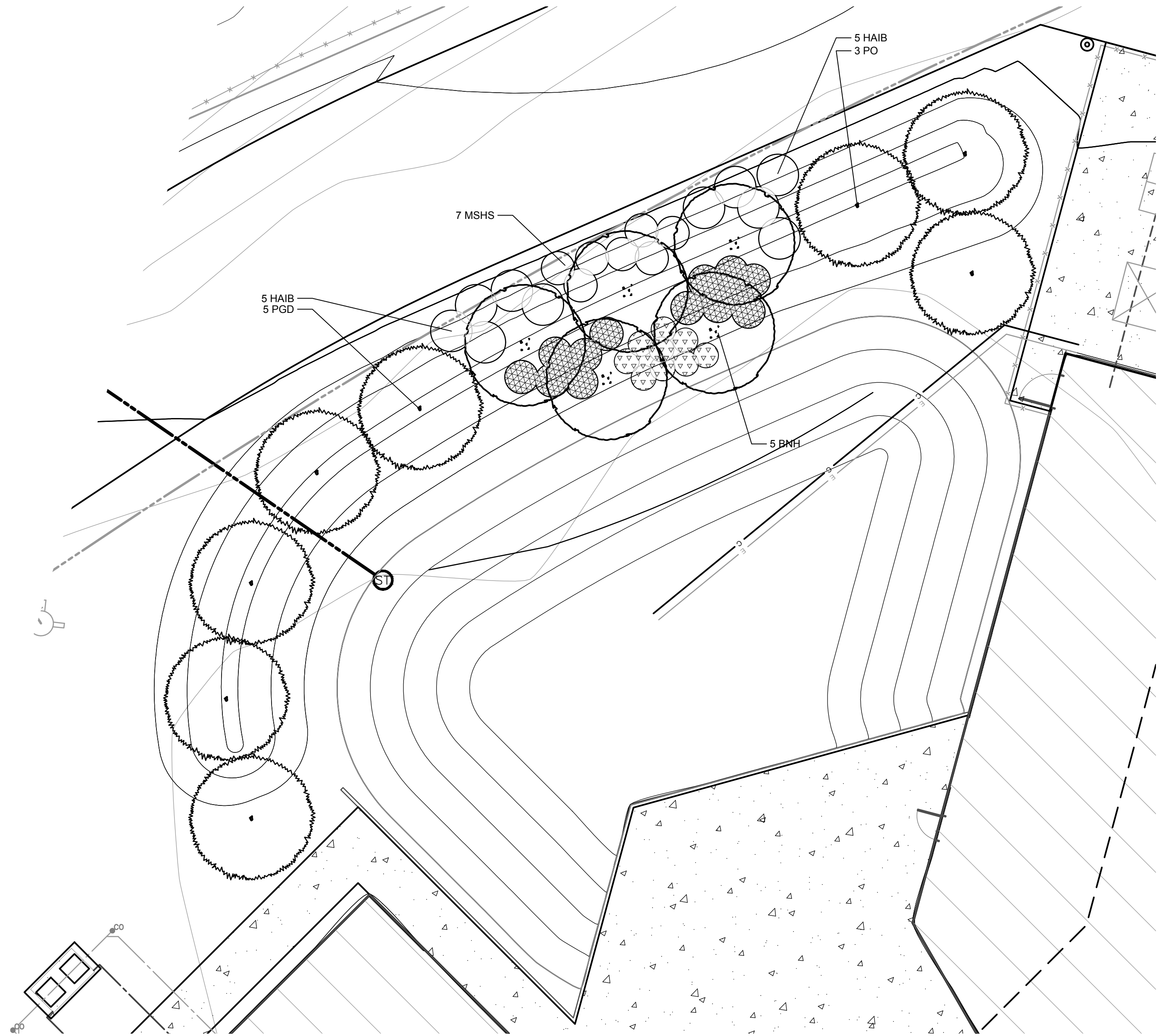
1. DIMENSIONS REFER TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED
2. CONTRACTOR TO FIELD VERIFY ALL EXISTING TOPOGRAPHY AND STRUCTURES ON SITE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
3. BUILDING DIMENSIONS ARE TO THE OUTSIDE FACE OF BUILDING, UNLESS NOTED OTHERWISE.
4. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS TO VERIFY ALL BUILDING DIMENSIONS.

KEY NOTES

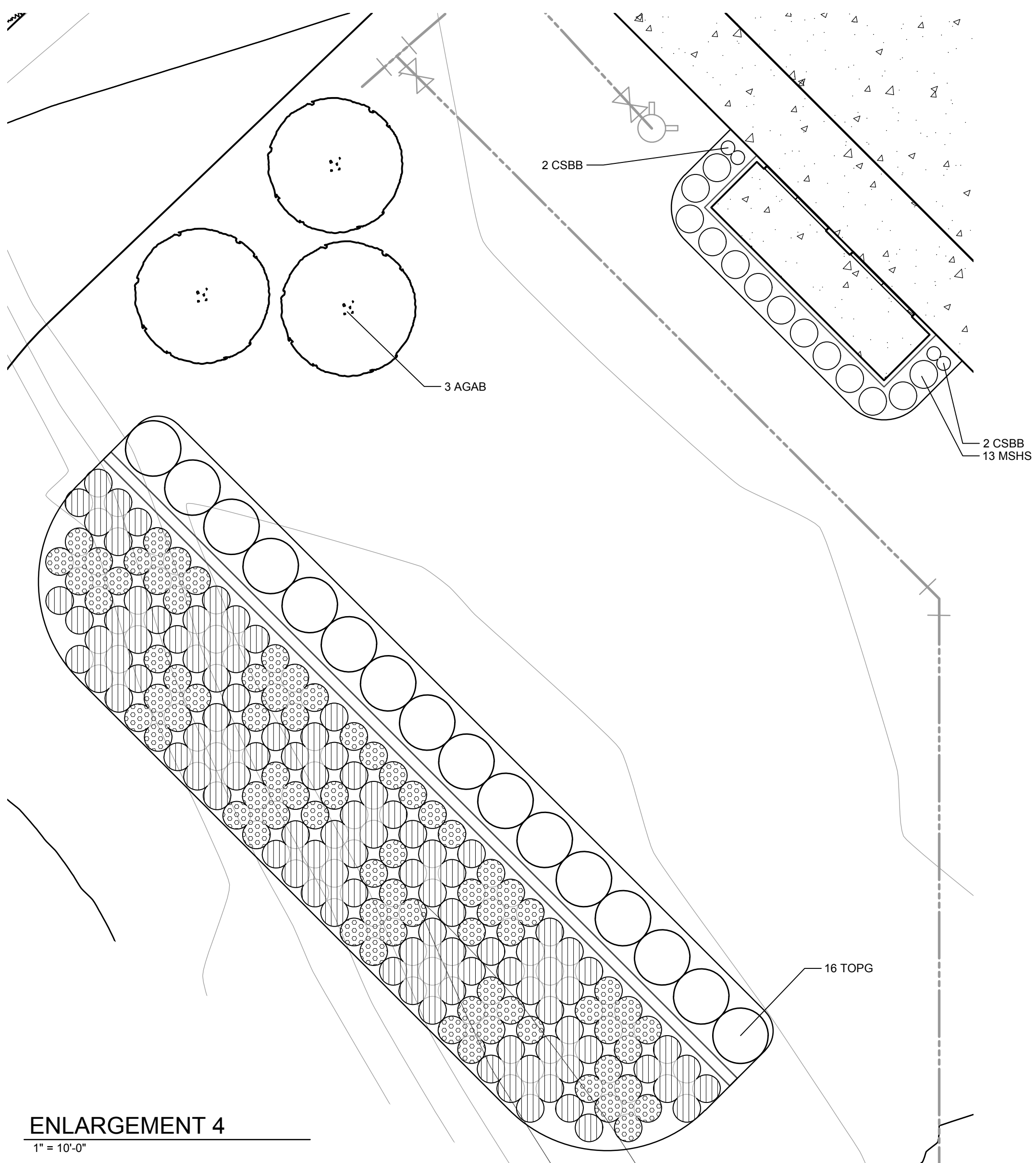
- 1 TYPE C4 CURB AND GUTTER (SEE DETAILS)
- 2 THICKENED EDGE SIDEWALK INTEGRAL CURB AND GUTTER (SEE DETAILS)
- 3 CONCRETE SIDEWALK, TYP.
- 10 ARCHITECTURAL FENCING, 9 FT
- 11 ARCHITECTURAL FENCING, 12 FT
- 12 BIO-SWALE/RAIN GARDEN
- 13 RETAINING WALL
- 14 ROOF/ SECOND STORY OVERHANG
- 15 BRANDING WALL
- 16 POND RAILING
- 17 PEDESTRIAN RAMP
- 18 STAIR AND PEDESTRIAN RAMP
- 19 BLACK VINYL COATED CHAIN LINK FENCE, 8 FT
- 21 GATE (MATERIAL TO MATCH FENCE)
- 22 BENCH ON CONCRETE PAD -
SEE SHEET L4.1 FOR DETAIL
- 23 CYLINDER PERPETUAL ON CONCRETE PAD -
SEE SHEET L4.1 FOR DETAIL
- 24 BIKE RACK ON CONCRETE PAD -
SEE SHEET L4.1 FOR DETAIL
- 26 CIRCULAR BENCH

SITE FURNITURE SCHEDULE

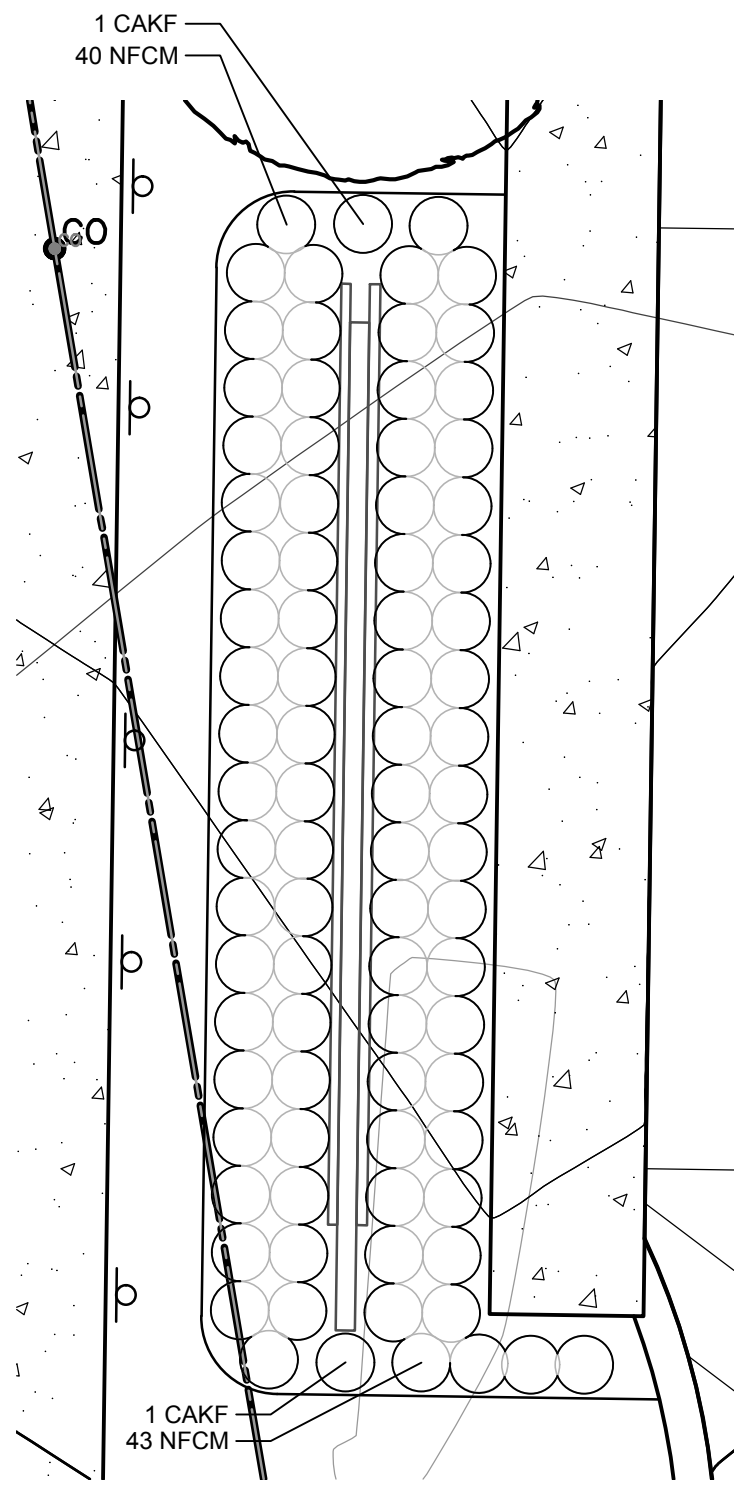
KEY NOTE	QTY	DESCRIPTION		Company
22	8 BENCH	Model Number CE1872T / Surface Mount / Stone to be Chosen by Architect		Anova Site Furniture
23	3 LITTER RECEPTACLE	Model Number ELV45T / Surface Mount		Anova Site Furniture
24	6 BIKE RACK	Loop Bike Rack / Surface Mount		Landscape Forms
25	1 CIRCULAR BENCH	14' Radius Bench System / 180 Degree Layout / Surface Mount / Stone to be Chosen by Architect		Anova Site Furniture



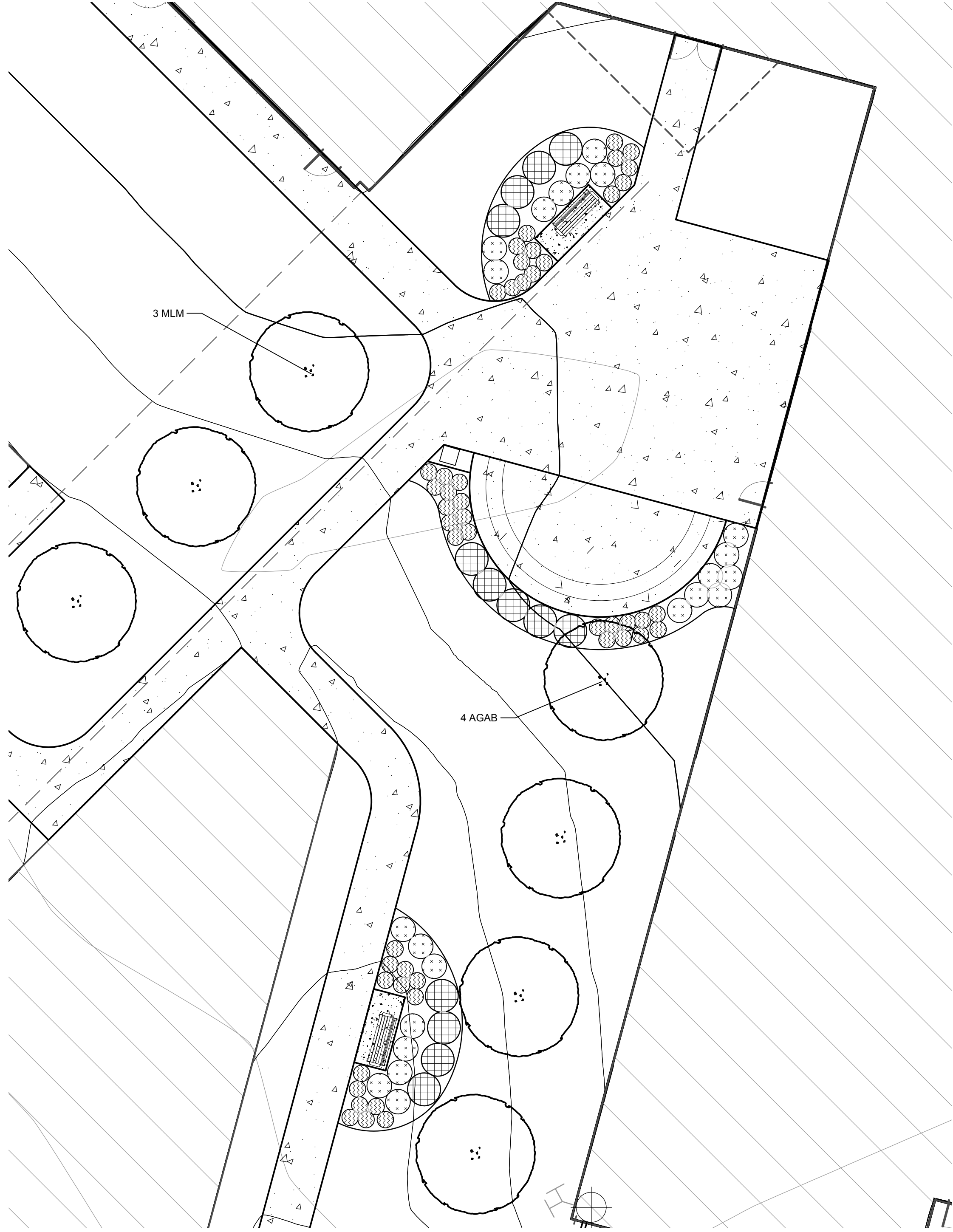
ENLARGEMENT 1
1" = 10'-0"



ENLARGEMENT 4
1" = 10'-0"



ENLARGEMENT 2
1" = 10'-0"



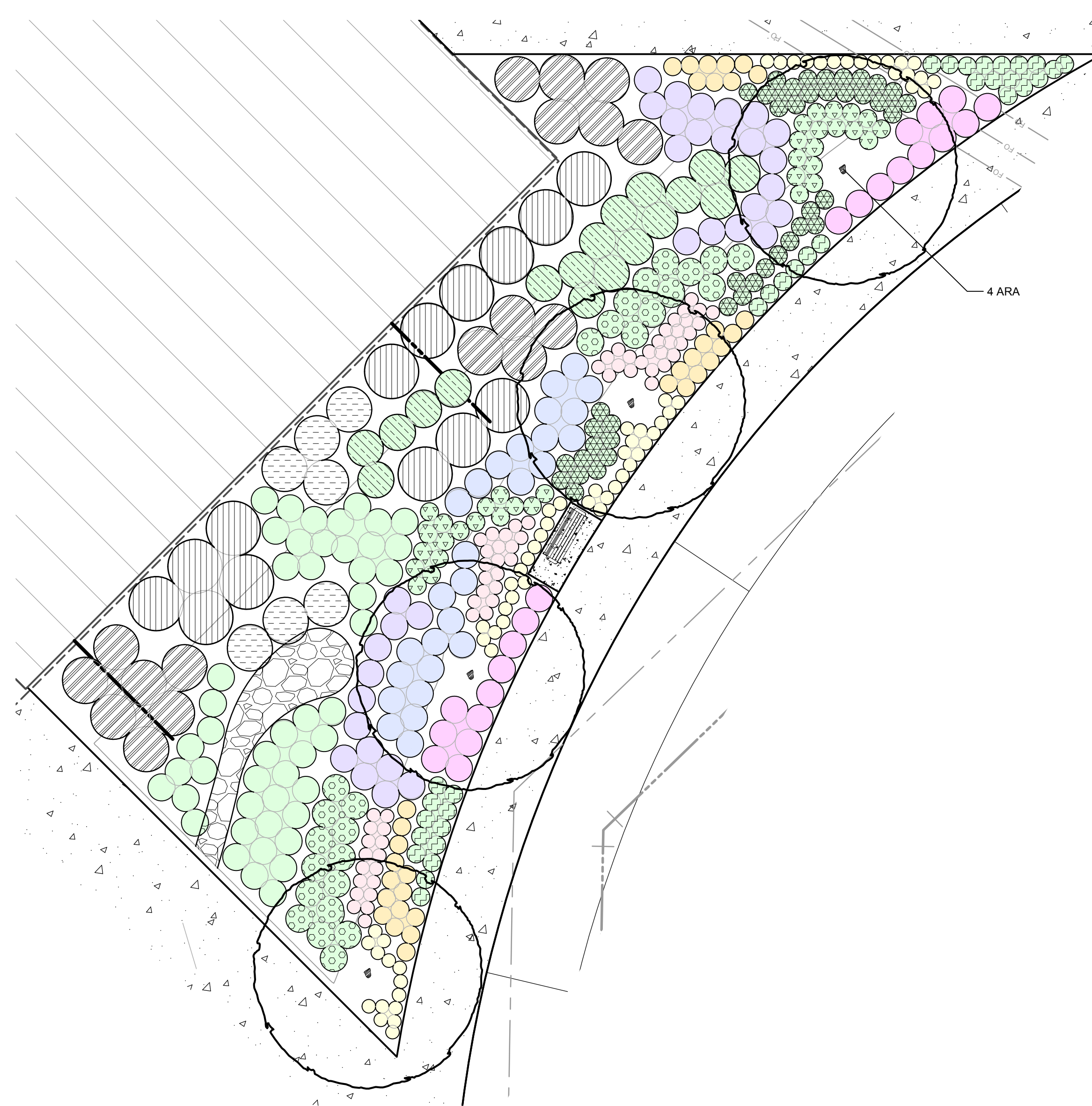
ENLARGEMENT 3
1" = 10'-0"

LEGEND

- EVERGREEN TREE
- ORNAMENTAL TREE
- SHRUBS & PERENNIALS
- HHSE - SEE PLANT LIST FOR QUANTITY
- NFWL - SEE PLANT LIST FOR QUANTITY
- AKLB - SEE PLANT LIST FOR QUANTITY
- RFG - SEE PLANT LIST FOR QUANTITY
- MSHS - SEE PLANT LIST FOR QUANTITY
- BGBA - SEE PLANT LIST FOR QUANTITY
- HSS - SEE PLANT LIST FOR QUANTITY



ENLARGEMENT 5
1" = 10'-0"



ENLARGEMENT 6
1" = 10'-0"



ENLARGEMENT 7
1" = 10'-0"

LEGEND

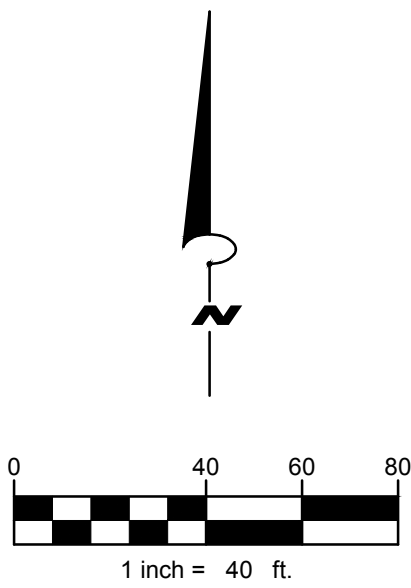
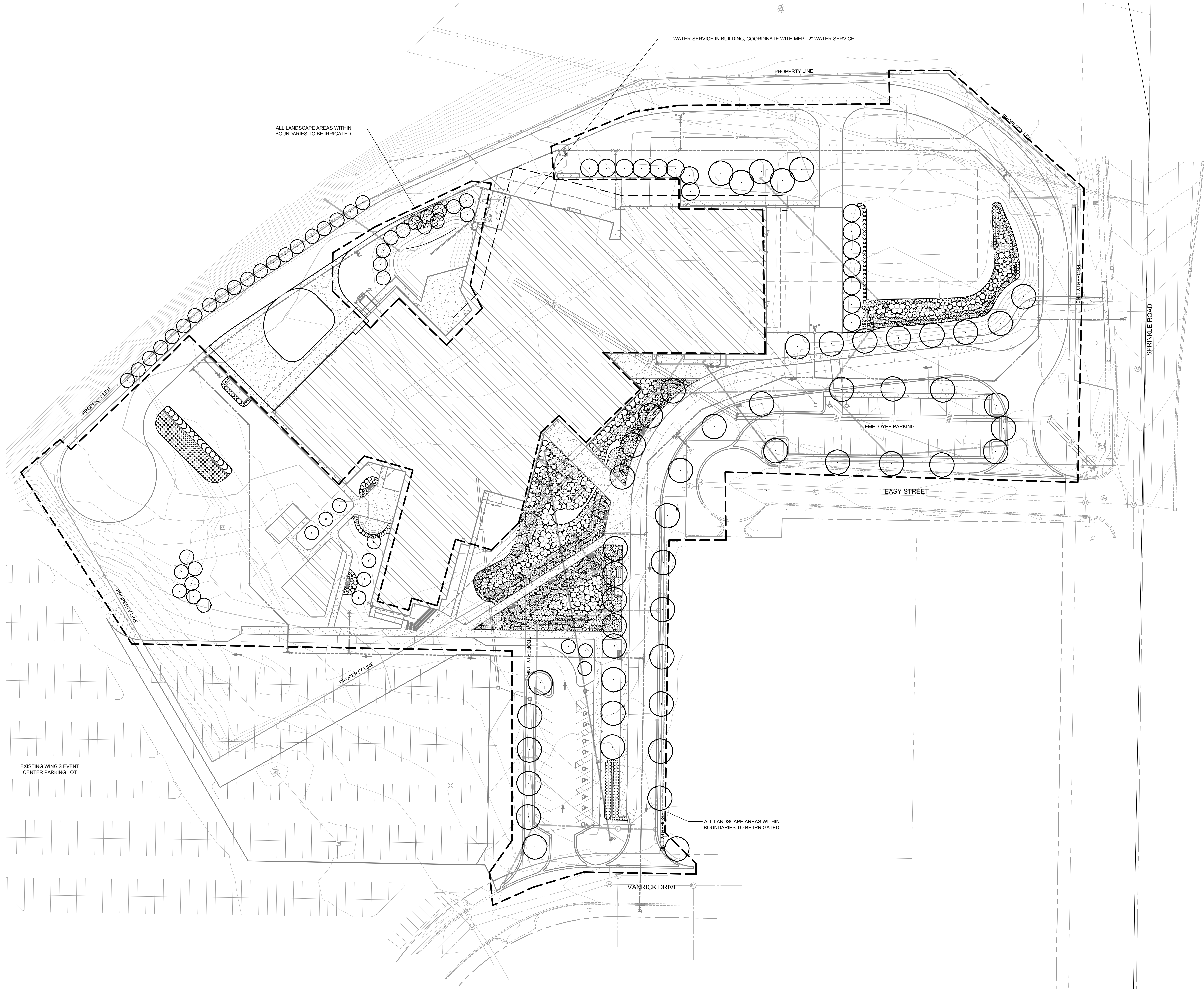
- SHADE TREE
- SHRUBS & PERENNIALS
- CSA - SEE PLANT LIST FOR QUANTITY
- CAB - SEE PLANT LIST FOR QUANTITY
- VC - SEE PLANT LIST FOR QUANTITY
- CAKF - SEE PLANT LIST FOR QUANTITY
- BGBA - SEE PLANT LIST FOR QUANTITY
- MSHS - SEE PLANT LIST FOR QUANTITY
- PSR - SEE PLANT LIST FOR QUANTITY
- HSS - SEE PLANT LIST FOR QUANTITY
- CB - SEE PLANT LIST FOR QUANTITY
- ANPC - SEE PLANT LIST FOR QUANTITY
- RFG - SEE PLANT LIST FOR QUANTITY
- EPM - SEE PLANT LIST FOR QUANTITY
- BBS - SEE PLANT LIST FOR QUANTITY
- AT - SEE PLANT LIST FOR QUANTITY
- PAT - SEE PLANT LIST FOR QUANTITY

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PLANT LIST

NOTE: QUANTITIES ON THE PLANT LIST ARE PROVIDED FOR INFORMATION ONLY. PLANT QUANTITIES UNDER THE CONTRACT ARE INDICATED ON THE PLANS. IN THE EVENT OF ANY DISCREPANCIES, THE CONTRACT SHALL BE BASED ON THE QUANTITIES SHOWN ON THE PLANS.

CODE ▾	BOTANICAL NAME ▾	COMMON NAME ▾	QTY ▾	CAL ▾	HT ▾	ROO ▾	REMARKS ▾
SHADE TREES							
ARA	ACER RUBRUM 'ARMSTRONG'	ARMSTRONG RED MAPLE	18	4"		B&B	SINGLE STRAIGHT T
GBAG	GINKGO BILOBA 'AUTUMN GOLD'	AUTUMN GOLD GINKGO	0	4"		B&B	SINGLE STRAIGHT T
GTSH	GLEDITSIA TRIACANTHOS VAR. INERMIS 'SHADEMASTER'	SHADEMASTER HONEYLOCUST	14	4"		B&B	SINGLE STRAIGHT T
TCGR	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LITTLELEAF LINDEN	9	4"		B&B	SINGLE STRAIGHT T
UF	ULMUS X 'FRONTIER'	FRONTIER ELM	11	4"		B&B	SINGLE STRAIGHT T
EVERGREEN TREES							
PA	PICEA ABIES	NORWAY SPRUCE	0		8'	B&B	SINGLE STRAIGHT T
PGD	PICEA GLAUCA 'DENSATA'	BLACK HILLS SPRUCE	20			B&B	SINGLE STRAIGHT T
PO	PICEA OMORIKA	SERBIAN SPRUCE	11		8'	B&B	SINGLE STRAIGHT T
PPG	PICEA PUNGENS 'GLAUCA'	COLORADO BLUE SPRUCE	19		8'	B&B	SINGLE STRAIGHT T
ORNAMENTAL TREES							
AGAB	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE APPLE SERVICEBERRY	7		8'	B&B	MULTI-STEM, 4-5 ST
BNH	BETULA NIGRA 'HERITAGE'	HERITAGE RIVER BIRCH	5		8'	B&B	MULTI-STEM, 4-5 ST
CC	CERCIS CANADENSIS	EASTERN REDBUD	3		8'	B&B	MULTI-STEM, 4-5 ST
MLM	MAGNOLIA X LOEBNERI "MERRILL"	MERRILL MAGNOLIA	3		8'	B&B	MULTI-STEM, 4-5 ST
SHRUBS							
AG	ABELIA X GRANDIFLORA	GLOSSY ABELIA	0			#3	5'-0" ON CENTER
CAB	CORNUS ALBA 'BAILHALO'	IVORY HALO DOGWOOD	62			#5	6'-0" ON CENTER
CSA	CORNUS SERICEA 'ALLEMANS'	ALLEMAN'S RED TWIG DOGWOOD	71			#5	5'-0" ON CENTER
HPL	HYDRANGEA PANICULATA 'LIMELIGHT'	LIMELIGHT HYDRANGEA	0			#3	8'-0" ON CENTER
HAIB	HYDRANGEA ARBORESCENS 'INCREDIBALL BLUSH'	INCREDIBALL BLUSH SMOOTH HYDRANGEA	10			#3	5'-0" ON CENTER
TOPG	THUJA OCCIDENTALIS 'POLAR GOLD'	POLAR GOLD ARBORVITAE	16			#3	6'-0" ON CENTER
VC	VIBURNUM CARLESII 'SPICE BABY'	SPICE BABY KOREANSPICE VIBURNUM	65			#5	5'-0" ON CENTER
GRASSES							
BGBA	BOUTELOUA GRACILIS 'BLONDE AMBITION'	BLONDE AMBITION BLUE GRAMA GRASS	255			#1	3'-0" ON CENTER
CAKF	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	301			#3	3'-0" ON CENTER
CB	CAREX BEBBII	BEBB'S OVAL SEDGE	206			#1	2'-0" ON CENTER
CSBB	CAREX SIDEROSTICHA 'BANANA BOAT'	BANANA BOAT SEDGE	4			#1	1'-6" ON CENTER
HSS	HELICTOTRICHON SEMPERVIRENS 'SAPPHIRE'	SAPPHIRE BLUE OAT GRASS	393			#1	2'-0" ON CENTER
MSHS	MISCANTHUS SINENSIS 'HURON SUNRISE'	HURON SUNRISE MISCANTHUS	235			#1	4'-0" ON CENTER
MSML	MISCANTHUS SINENSIS 'MORNING LIGHT'	MORNING LIGHT MISCANTHUS	0			#1	3'-6" ON CENTER
PSR	PENNISETUM SETACEUM 'RUBRUM'	GRACEFUL GRASSES PURPLE FOUNTAIN GRASS	253			#1	2'-0" ON CENTER
PERENNIALS							
AT	ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	338			#1	2'-0" ON CENTER
ANPC	ASTER NOVAE-ANGLIAE 'PINK CRUSH'	PINK CRUSH NEW ENGLAND ASTER	213			#1	3'-0" ON CENTER
AKLB	ASTER HYBRID 'KICKIN LILAC BLUE'	KICKIN LILAC BLUE ASTER	96			#1	3'-0" ON CENTER
AG	ATHYRIUM HYBRID 'GHOST'	GHOST FERN	0			#1	2'-0" ON CENTER
BBS	BAPTISIA HYBRID 'BLUEBERRY SUNDAE'	DECADENCE 'BLUEBERRY SUNDAE' FALSE INDIGO	193			#1	3'-0" ON CENTER
EPM	ECHINACEA PURPUREA 'MAGNUS'	MAGNUS PURPLE CONEFLOWER	386			#1	1'-6" ON CENTER
EY	ERYNGIUM YUCCIFOLIUM	RATTLESNAKE MASTER	0			#1	3'-0" ON CENTER
HHSE	HOSTA 'HOPE SPRINGS ETERNAL'	SHADOWLAND 'HOPE SPRINGS ETERNAL' HOSTA	12			#1	4'-0" ON CENTER
MSTR	MATTEUCCIA STRUTHIOPTERIS	EUROPEAN OSTRICH FERN	0			#1	4'-0" ON CENTER
NFCM	NEPETA FAASSENII 'CATS MEOW'	CATS MEOW CATMINT	83			#1	3'-0" ON CENTER
NFWL	NEPETA X FAASSENII 'WALKER'S LOW'	WALKER'S LOW CATMINT	9			#1	3'-0" ON CENTER
OC	OSMUNDA CINNAMOMEA	CINNAMON FERN	0			#1	3'-0" ON CENTER
PAT	PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	232			#1	3'-0" ON CENTER
RFG	RUDBECKIA FULGIDA 'GOLDSTURM'	BLACK EYED SUSAN	579			#1	1'-6" ON CENTER



- NOTES**
1. ALL LANDSCAPE AREAS INDICATED TO BE SERVED BY AN AUTOMATIC IRRIGATION SYSTEM.
 2. TURFGRASS SHALL BE COVERED BY SPRAY HEADS AND ROTORS
 3. PLANTING BEDS TO BE COVERED BY DRIP IRRIGATION



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KALANAZOC

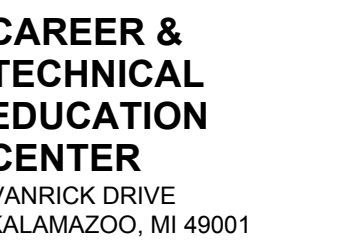
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PORTAGE, MI 49002

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DATE: JULY 2022
SCALE: 1" = 40'

LANDSCAPE DETAILS

OB No. 214175

L4.1



-NOT TO SCALE



-NOT TO SCALE



SCALE: NONE



-NOT TO SCALE



-NOT TO SCALE



•NOT TO SCALE



-NOT TO SCALE

[illegible]

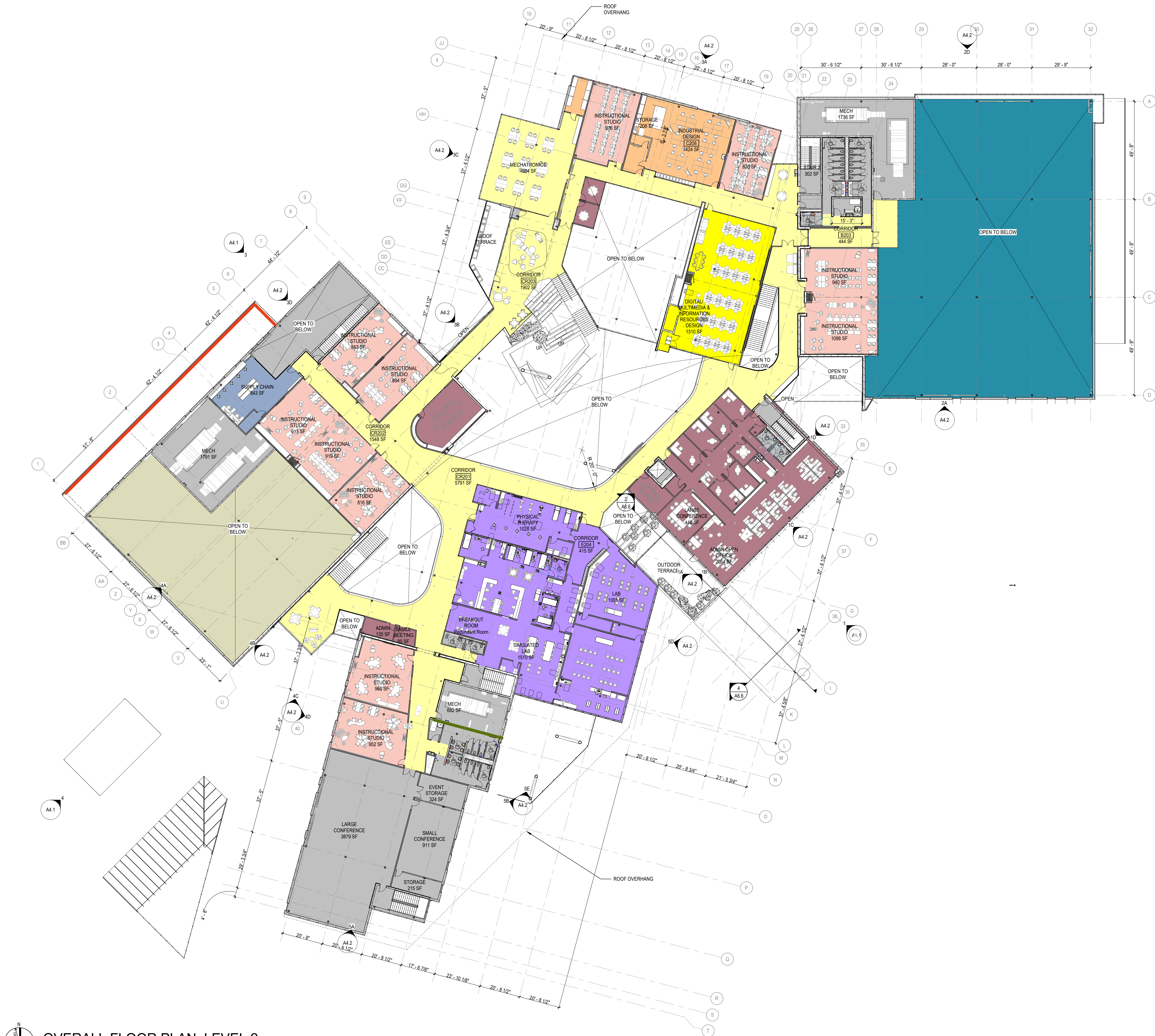
 SHEET NOTES

- 1 PLAN SHEET NOTE 1
2 PLAN SHEET NOTE 2
3 PLAN SHEET NOTE 3

AI.1

AI.1

1
2
3
4
5



OVERALL FLOOR PLAN, LEVEL 2
SCALE: 1" = 20'-0"

GENERAL ARCHITECTURAL NOTES

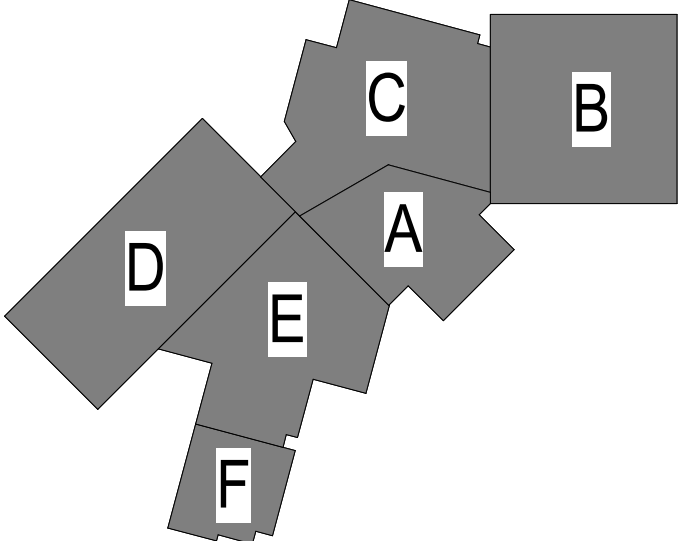
1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. WALL TYPES SHALL BE DESIGNATED ON FLOOR PLANS THUS: XX.X.XX. SEE SHEET XXX FOR WALL TYPES. ALL INTERIOR PARTITIONS ARE WALL TYPE XX.XX UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE. SEE REFLECTED CEILING PLAN NOTES.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS. SEE DETAILS ON SHEET XX.X.
5. SEE STRUCTURAL DRAWINGS FOR BRACING OF NON-LOAD BEARING MASONRY WALLS.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS, I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABOUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. "MBD" AND "TBD" INDICATE MARKER BOARDS AND TACK BOARDS ON PLANS. THE LENGTH PRECEDES THE DESIGNATION (EXAMPLE 16" MBD). ALL BOARDS ARE 4'-0" TALL. SEE WALL ELEVATIONS OR SPECIFICATIONS FOR MOUNTING HEIGHT.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. PROVIDE SEISMIC BRACING FOR SUSPENDED CEILINGS OR AS SHOWN ON THE DRAWINGS.

REFERENCE KEYNOTES

SHEET NOTES

1. PLAN SHEET NOTE 1
2. PLAN SHEET NOTE 2
3. PLAN SHEET NOTE 3

KEY PLAN



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PROJECT NAME:

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KALAMAZOO, MI 49001

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OVERALL SECOND FLOOR

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A1.2



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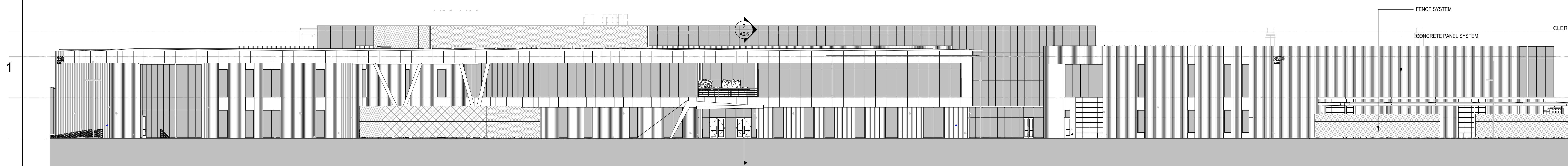
REVISIONS

DATE: 5 AUG 22
SCALE: 1/16" = 1'-0"

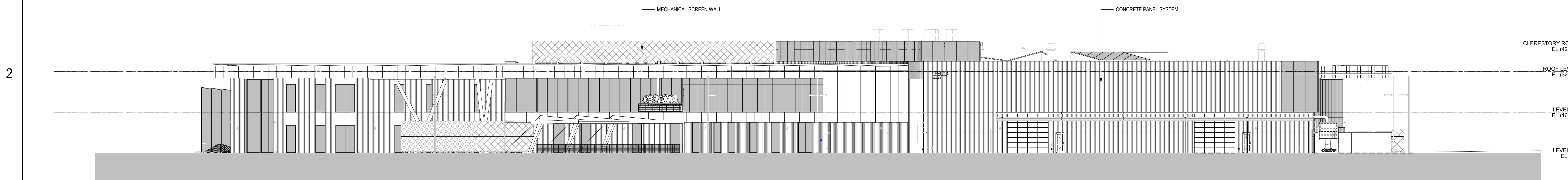
EXTERIOR ELEVATIONS

JOB NO: 214175

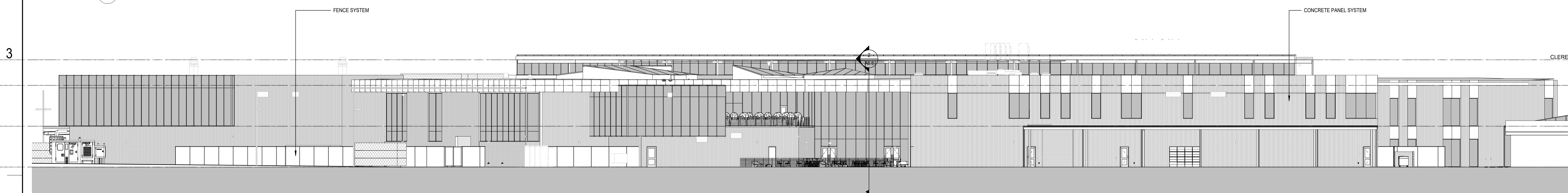
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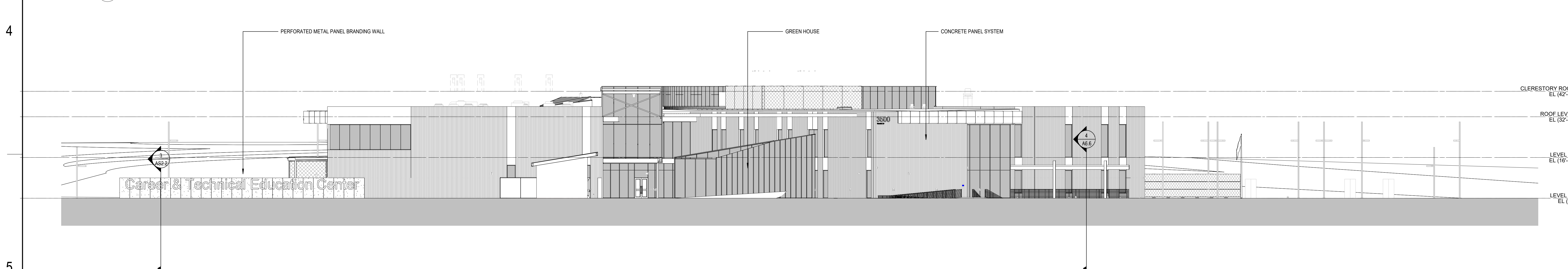
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A4.1 ELEVATION - SOUTH
SCALE: 1/16" = 1'-0"



2 ELEVATION - EAST
A4.1 SCALE: 1/16" = 1'-0"



3 ELEVATION - NORTH
A4.1 SCALE: 1/16" = 1'-0"



4
A4.1

ELEVATION - WEST

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

1



2



3



4



5



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EXTERIOR PERSPECTIVES

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G2.2

1



2



3



4

5



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INTERIOR PERSPECTIVES

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G2.3

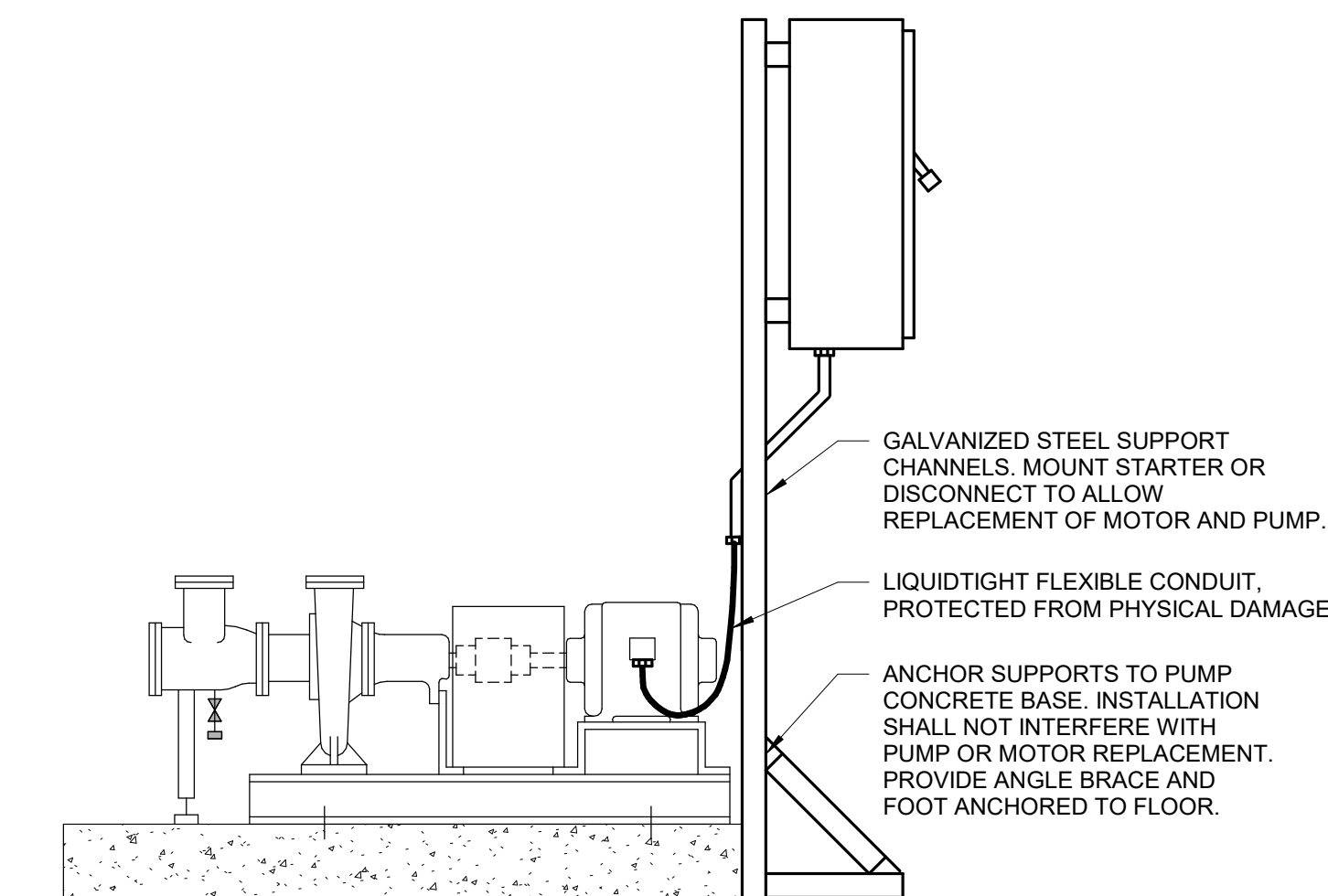
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2

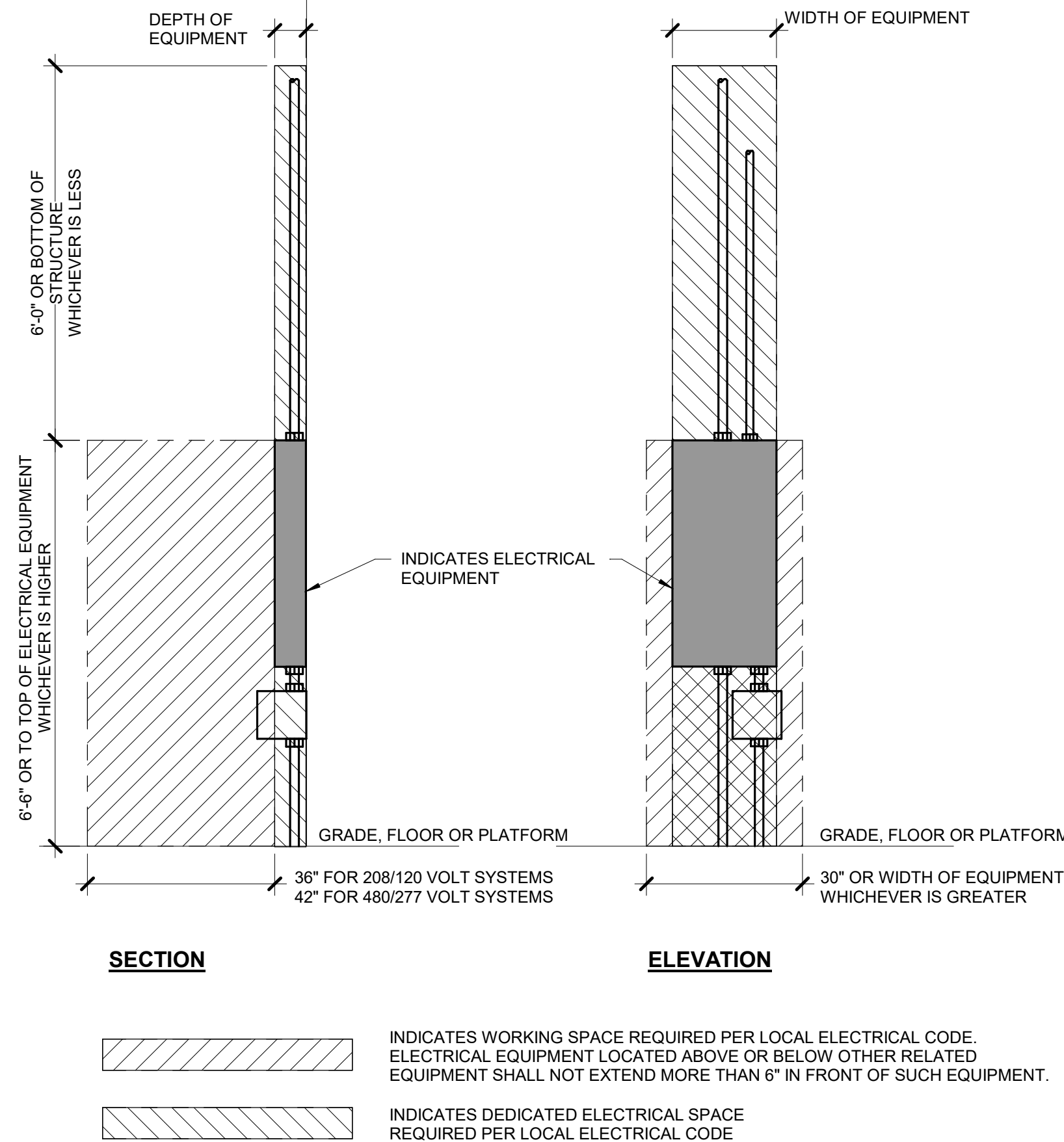
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4

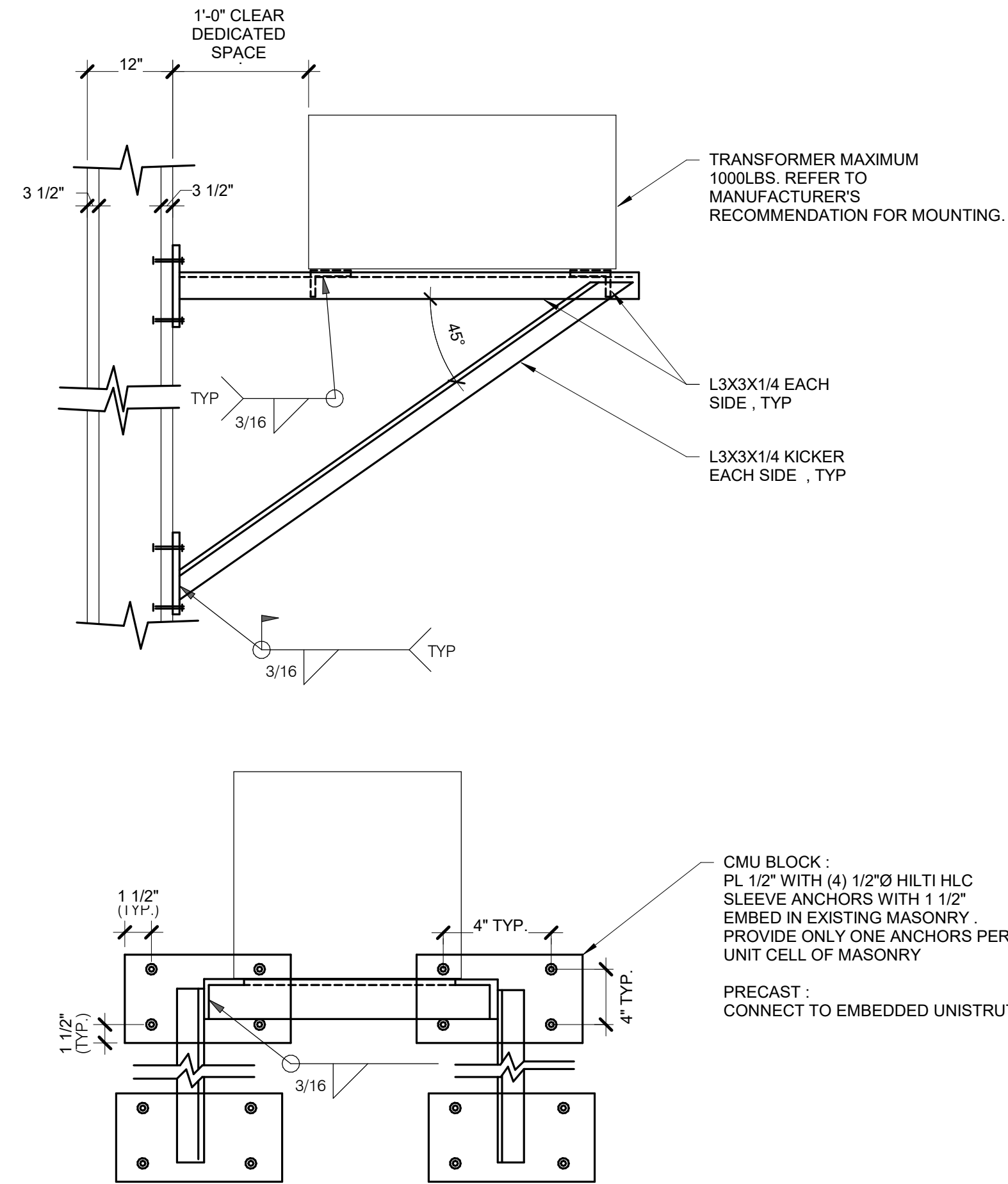
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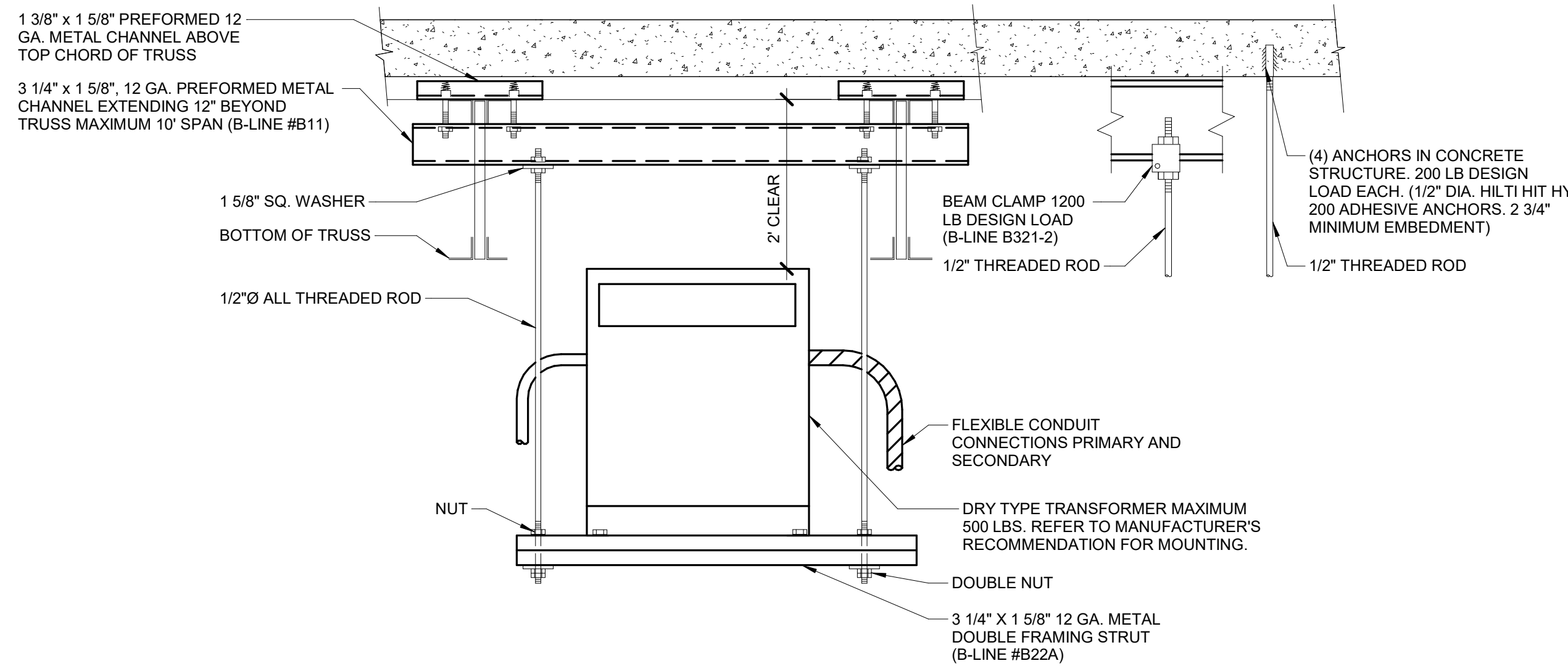
1 PUMP CONNECTION DETAIL
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2 ELECTRICAL EQUIPMENT CLEARANCES
NO SCALE

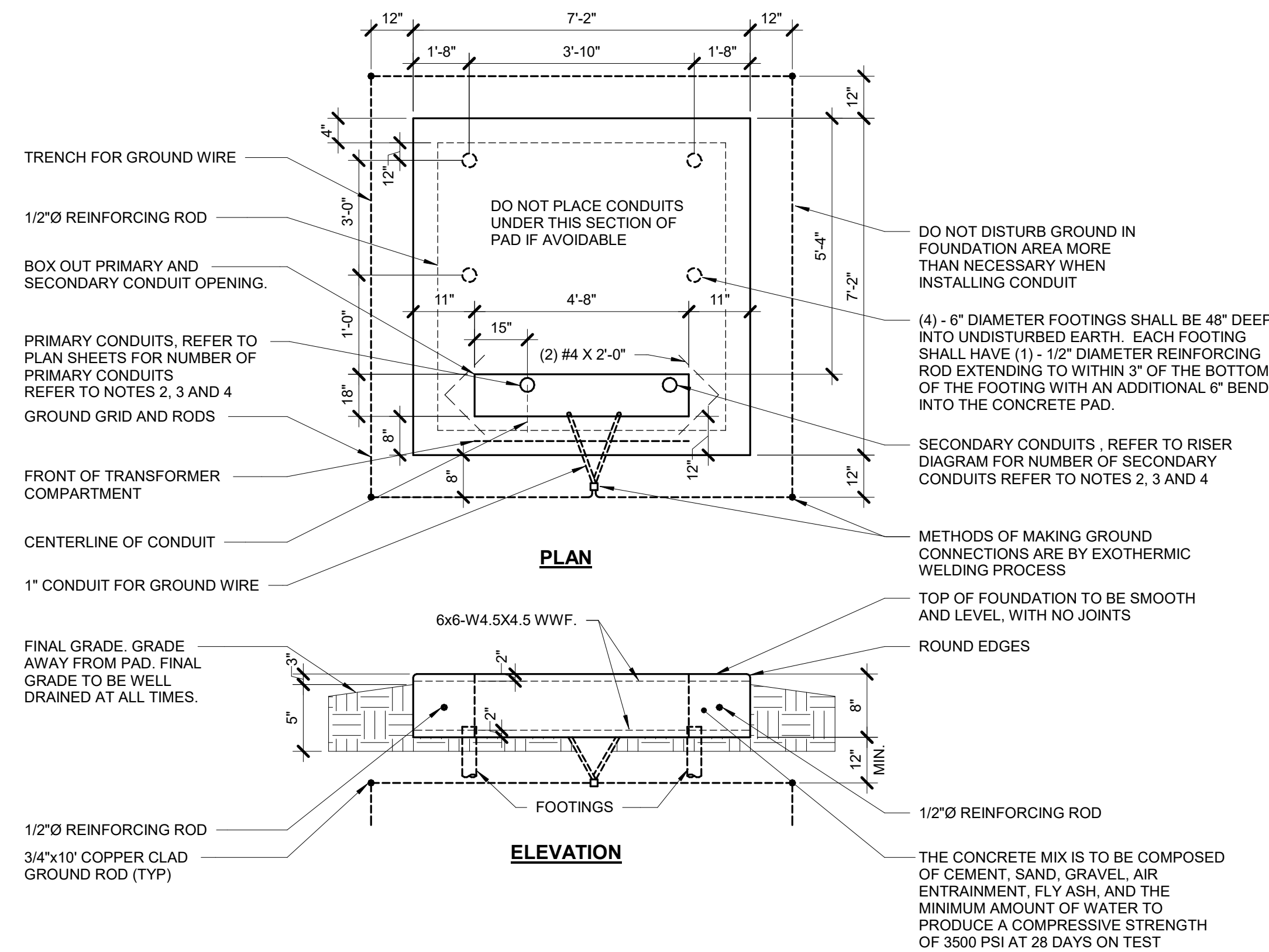


3 TRANSFORMER PLATFORM DETAIL
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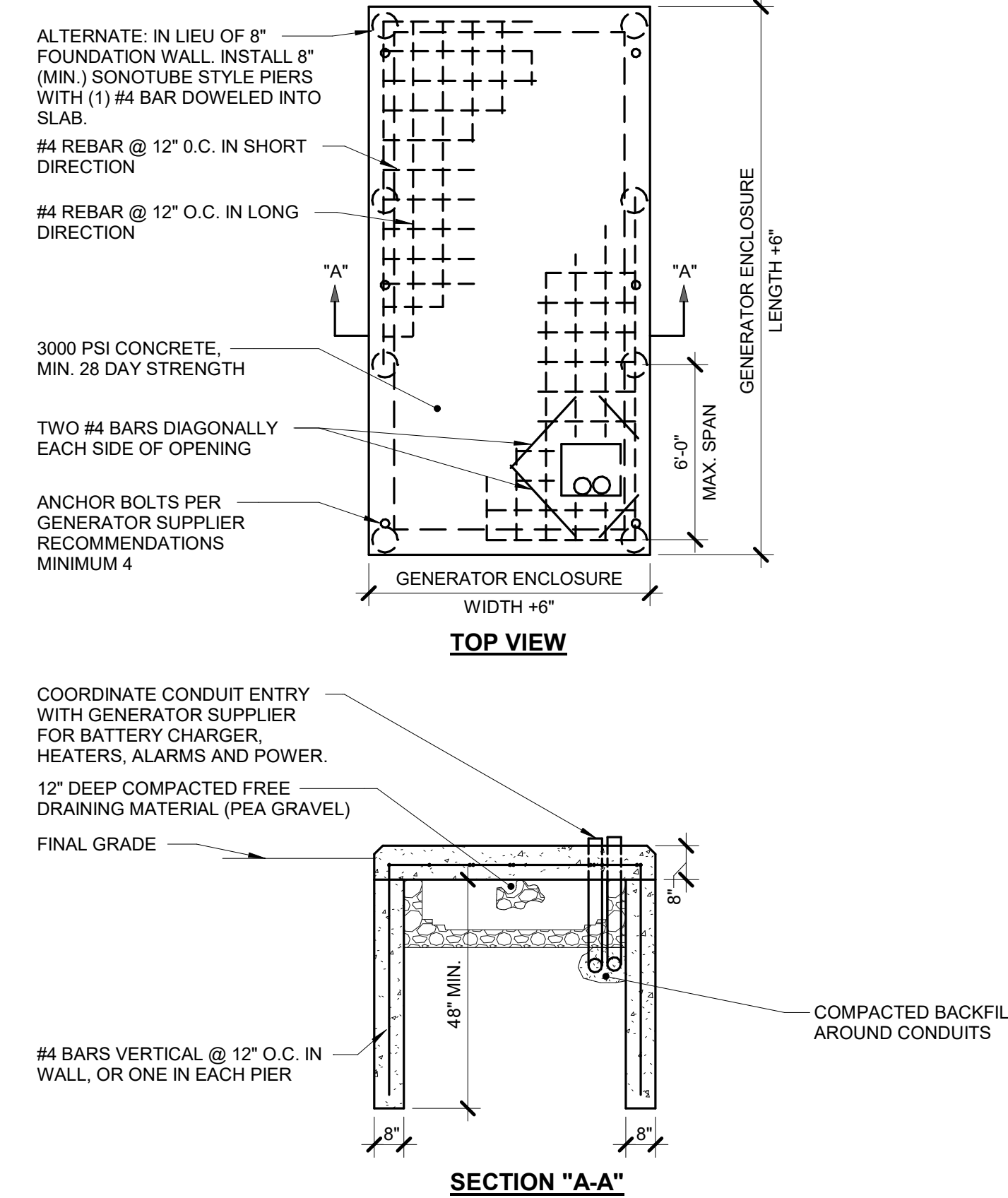
4 TRANSFORMER MOUNTING TRAPEZE
NO SCALE

- NOTES:
- (2) - HANGER ASSEMBLIES SHALL BE REQUIRED FOR EACH TRANSFORMER.



5 CONCRETE PAD DETAIL
NO SCALE

- NOTES:
- E.C. SHALL COORDINATE TRANSFORMER PAD DIMENSIONS WITH APPROVED TRANSFORMER SHOP DRAWINGS.
 - AFTER PRIMARY AND SECONDARY CONDUITS ARE IN PLACE, BACK FILL WITH CLEAN, BLACK DIRT, FILLED AND TAMPED IN 6" LIFTS, BEFORE POURING FOUNDATION. SAND BACK FILL NOT ACCEPTABLE.
 - PRIMARY AND SECONDARY CONDUIT MUST COME THROUGH FOUNDATION IN DESIGNATED AREAS.
 - TERMINATE CONDUITS 2 INCHES ABOVE TOP OF FOUNDATION, BUT BELOW TOP OF SLAB.



- NOTES:
- COORDINATE PAD DIMENSIONS WITH GENERATOR SUPPLIER PRIOR TO START OF CONSTRUCTION.

6 GENERATOR PAD DETAIL
NO SCALE

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ELECTRICAL
DETAILS

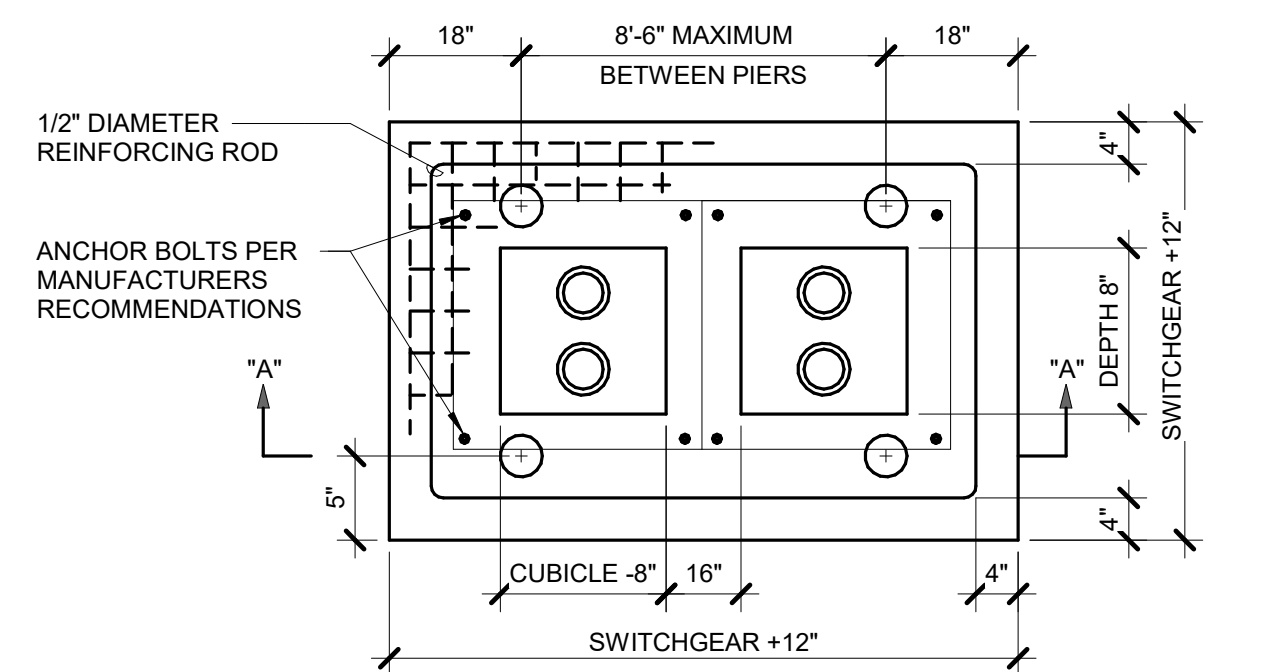
JOB NO: 214175
E6.2

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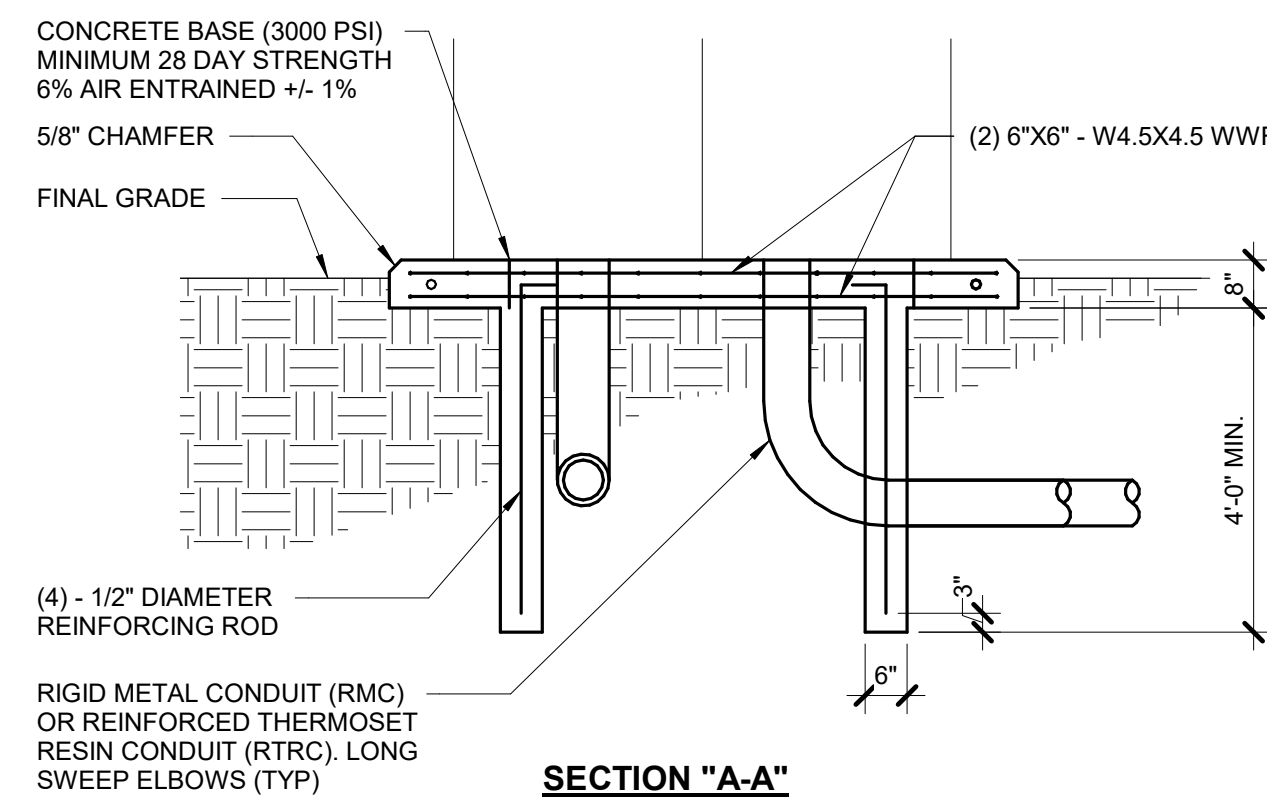
02	8/10/2022	PDS
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TOP VIEW



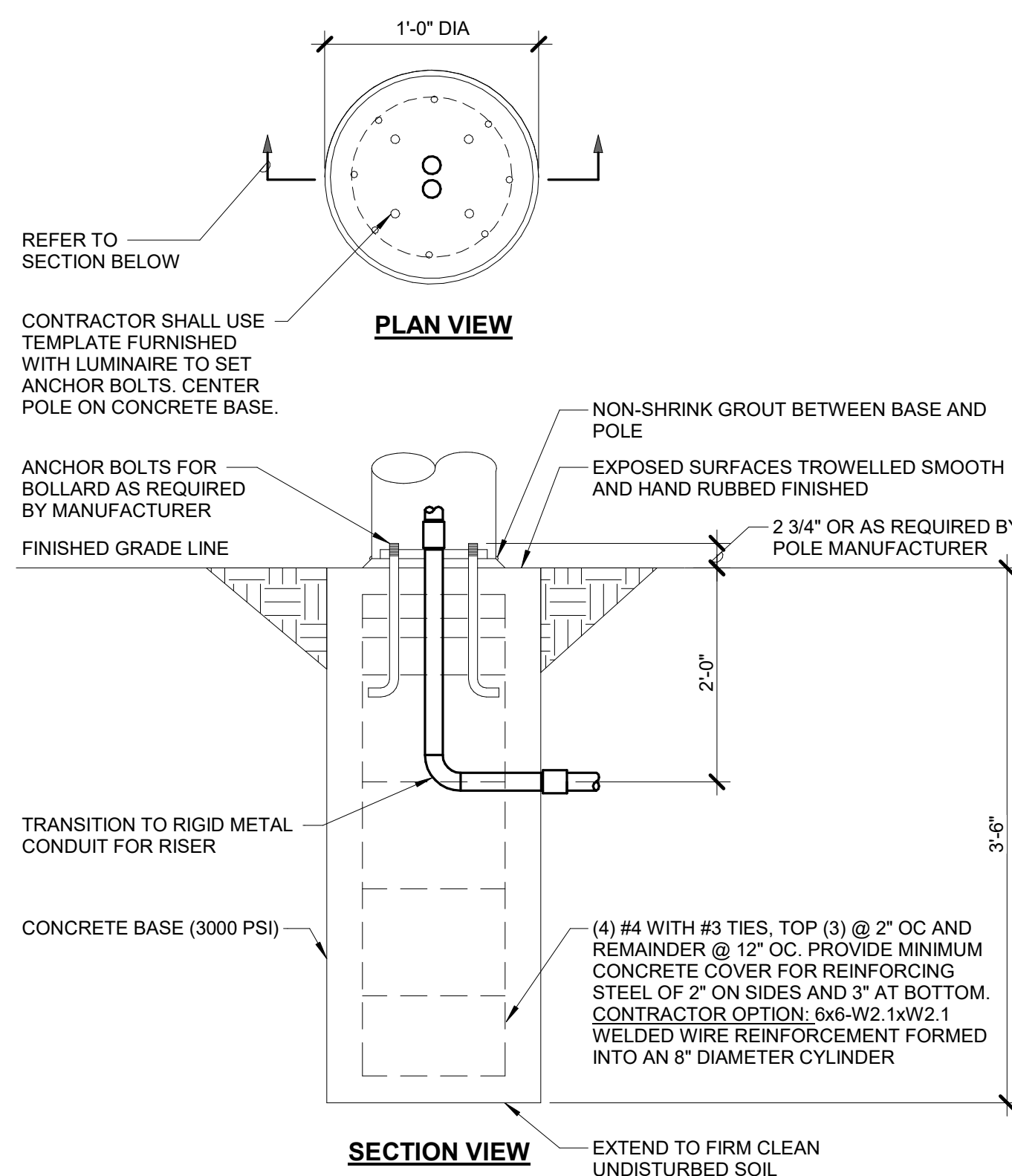
SECTION "A-A"

NOTES

1. VERIFY FINAL PAD DIMENSIONS WITH APPROVED SWITCHGEAR SHOP DRAWINGS.

1 SWITCHGEAR PAD DETAIL

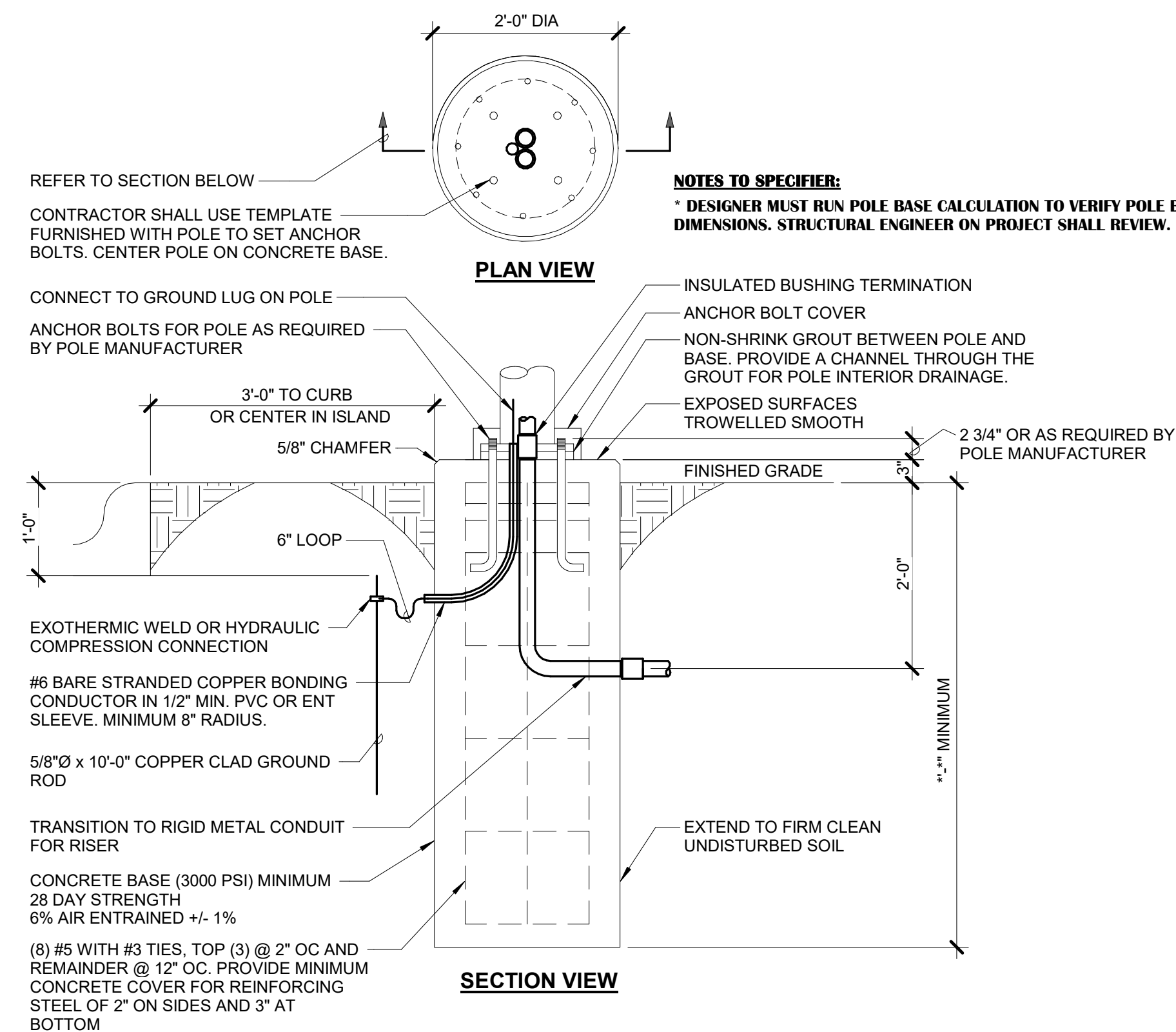
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SECTION VIEW

4 BOLLARD BASE DETAIL

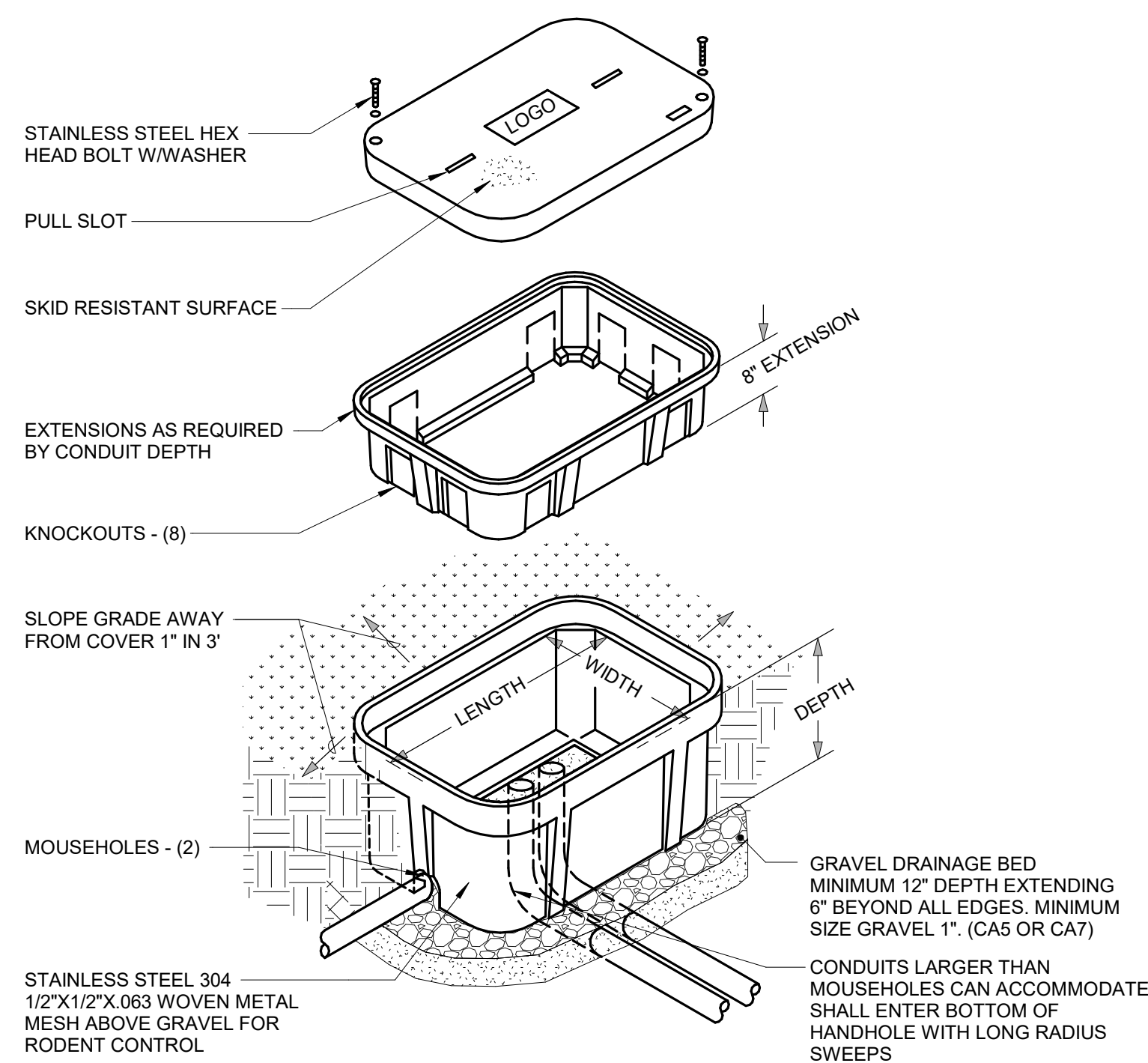
NO SCALE



SECTION VIEW

2 POLE BASE DETAIL

NO SCALE

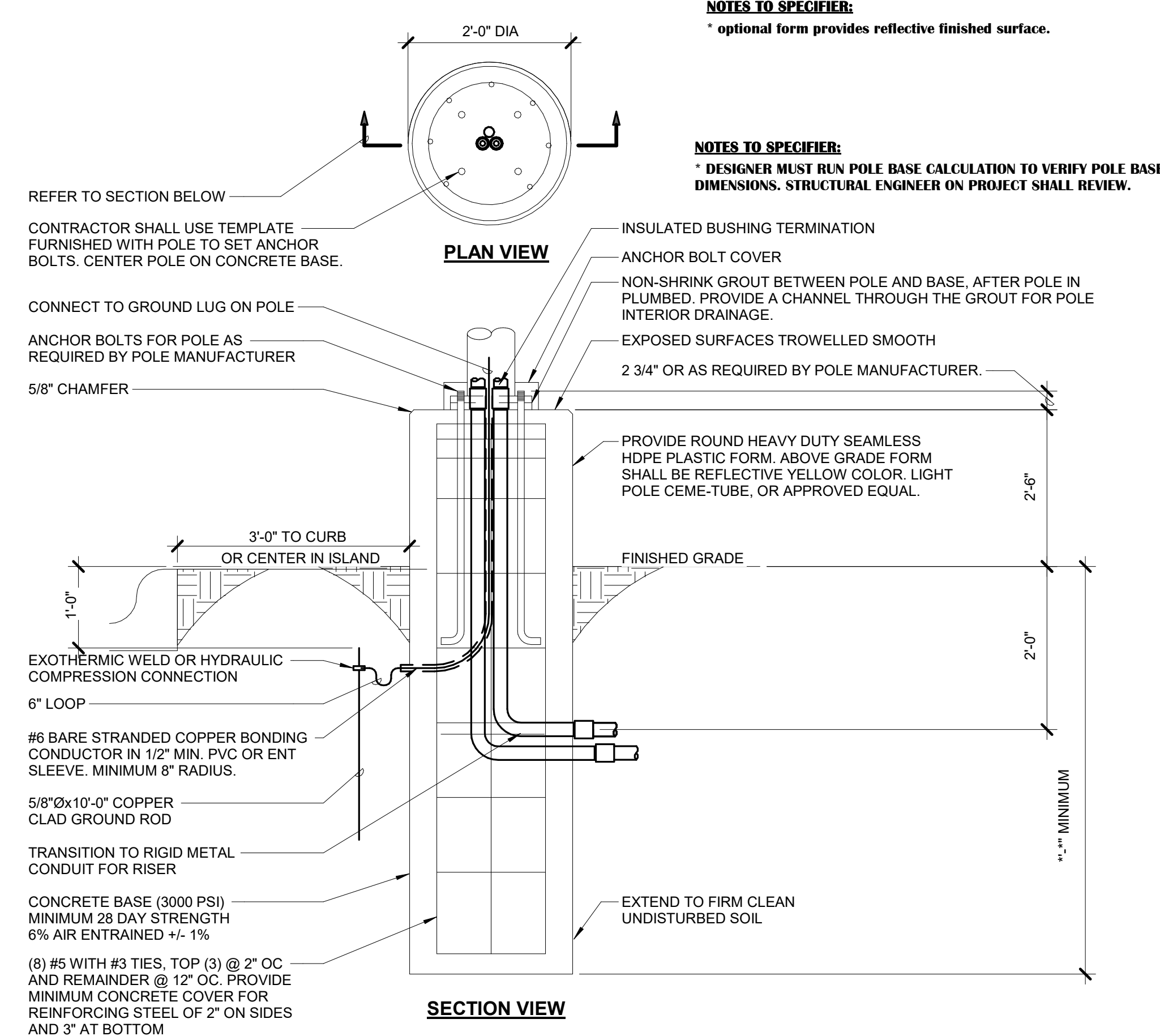


NOTES:

1. ALL DIMENSIONS ARE NOMINAL INSIDE CLEARANCES.
2. ANY SPLICES OR DEVICES IN HANDHOLE SHALL BE SUBMERGIBLE
3. [SEAL ALL CONDUIT ENDS WITH DUCTSEAL]

5 EXTERIOR HANDHOLE DETAIL

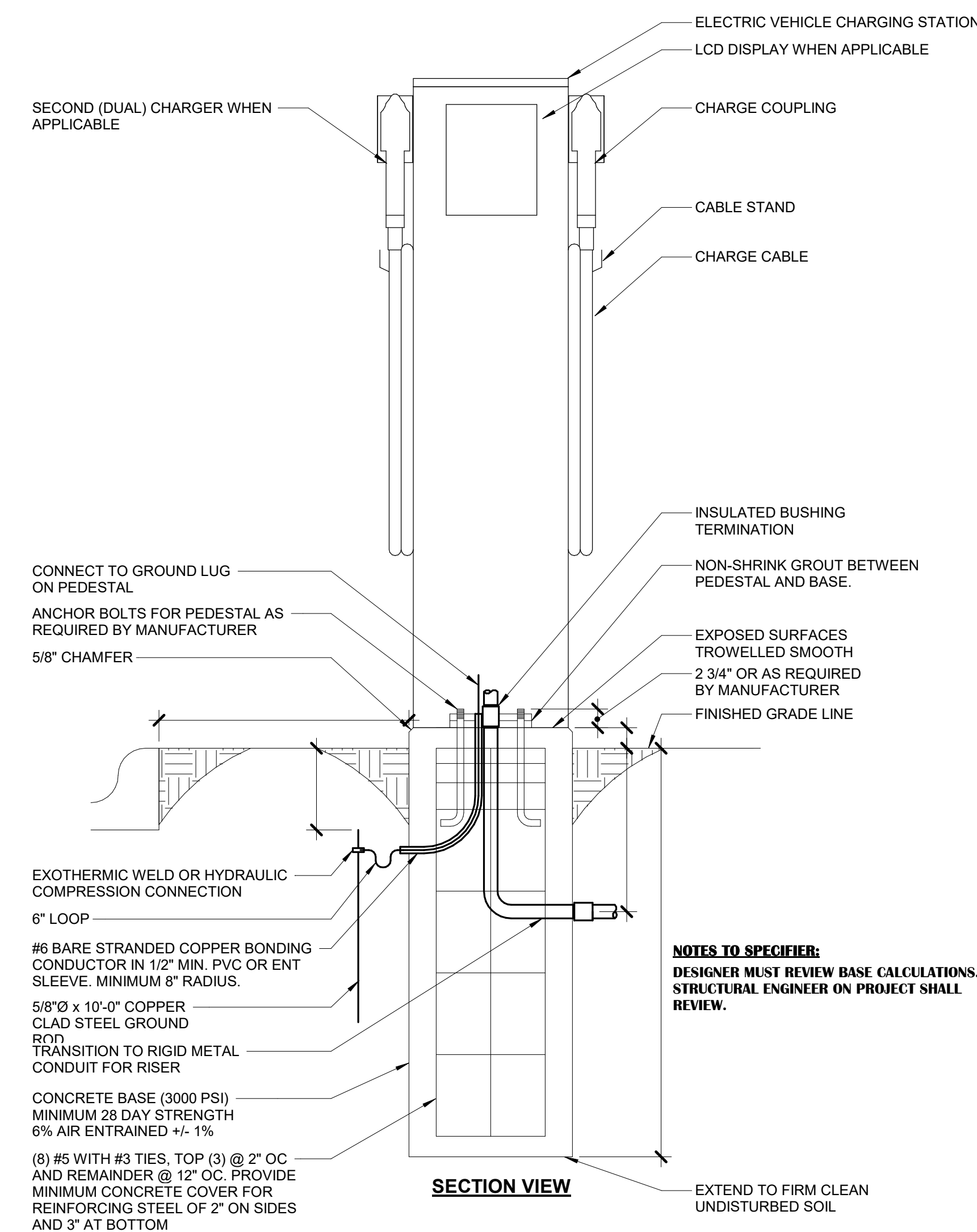
NO SCALE



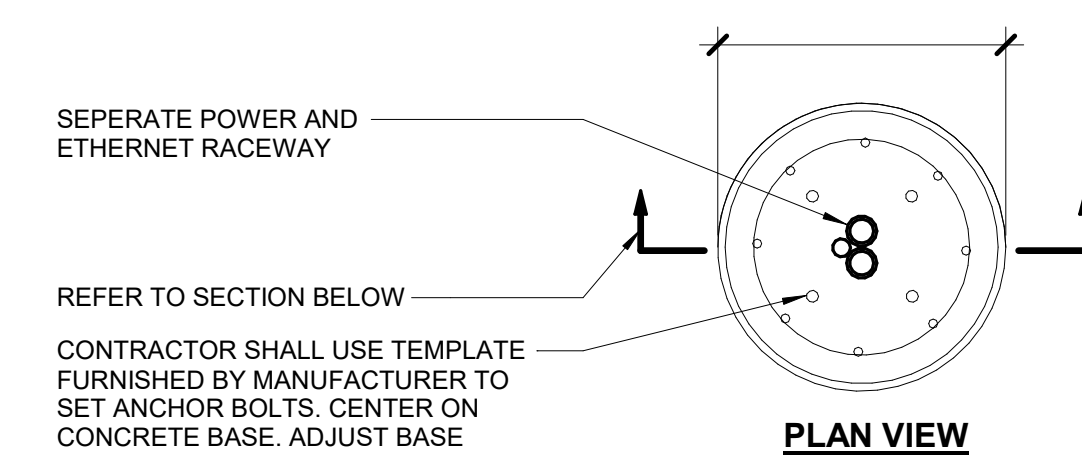
SECTION VIEW

3 EXTENDED POLE BASE DETAIL

NO SCAL



SECTION VIEW



PLAN VIEW

6 ELECTRIC VEHICLE PEDESTAL CHARGING STATION DETAIL

NO SCAL

FOR REVIEW ONLY
NOT FOR
CONSTRUCTION



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