## CITY OF WEST DES MOINES PLAN AND ZONING COMMISSION COMMUNICATION

Meeting Date: September 9, 2019

Item: Raccoon River Basin 5 Lift Station, 3105 SW Grand Prairie Parkway –

Construction of a sanitary sewer lift station – Raccoon River Land

Company, LLC - SP-004421-2019

Requested Action: Recommend Approval of Site Plan

Case Advisor: Brian Portz, AICP B

Applicant's Request: City of West Des Moines Engineering Services, with permission from the property owner, Raccoon River Land Company, LLC, is proposing to locate a sanitary sewer lift station south of the Raccoon River on the west side of the future extension of SW Grand Prairie Parkway. The lift station will include a 3,360 square foot building with a fenced in area and an access road from the street along with landscaping for screening and buffering purposes.

**<u>History</u>**: The property was brought into the City as a part of the Raccoon River Annexation, which was approved in 2010. The property has never been platted.

<u>City Council Subcommittee</u>: This item was presented to the Development & Planning City Council Subcommittee at their August 5, 2019 meeting, as an informational item only. No discussion was had and no disagreement with the proposal was expressed.

**Staff Review and Comment:** This request was distributed to other City departments and other agencies for their review and comment. There are no outstanding issues. Staff would summarize the following key points of interest:

- <u>Plat of Survey</u>: As a separate item, a Plat of Survey for the acquisition of the property will be reviewed by the City Council on September 16, 2019.
- <u>Access Road Paving</u>: Temporarily, the access road to the lift station will be gravel. City Code
  requires that the access road be paved. City Engineering Services staff has indicated that the road
  will be paved at the completion of the adjacent trunk sewer project or by December 21, 2021,
  whichever occurs first. Staff recommends a condition of approval requiring the paving of the access
  road by the date specified above.

<u>Comprehensive Plan Consistency</u>: The project has been reviewed for consistency with the Comprehensive Plan. Based upon that review, a finding has been made that the proposed project is consistent with the Comprehensive Plan in that the project is consistent with all of the goals and policies of the Comprehensive Plan and the land use map of the Comprehensive Plan.

<u>Findings</u>: This proposed project was distributed to various city departments for review and comment. Based upon that review, the following findings have been made on the proposed project:

The proposed development and use is consistent with the West Des Moines Comprehensive Plan
in that the project has been reviewed for consistency with the Comprehensive Plan. Based upon
that review, a finding has been made that the proposed project is consistent with the
Comprehensive Plan in that the project is consistent with all of the goals and policies of the
Comprehensive Plan.

- 2. The proposed development and use does assure compatibility of property uses within the zone and general area in that this project was reviewed by various City Departments for compliance with the Zoning Ordinance.
- 3. All applicable standards and conditions have been imposed which protects the public health, safety and welfare in that this project was reviewed by various City Departments and public agencies for compliance with the various state and local regulations. Based upon that review a finding is made that the project has been adequately conditioned to protect the health, welfare and safety of the community.
- 4. There is adequate on-site and off-site public infrastructure to support the proposed development in that this project was reviewed by various public agencies and City Departments and public utilities to ensure that either the petitioner will construct or the project has been conditioned to construct adequate public infrastructure to serve the development.
- The proposed development and use has met the requirements contained in the City Code in that this project was reviewed by various City Departments and the project has complied with or has been conditioned to comply with all City Code requirements.
- 6. The proposed development and use is in keeping with the scale and nature of the surrounding neighborhood in that the proposed project is consistent with the zoning designation and Comprehensive Plan which designates this site as suitable for development such as that proposed by this project.

Staff Recommendation and Conditions of Approval: Based upon the preceding review and a finding of consistency with the goals and policies of the Comprehensive Plan, staff recommends the Plan and Zoning Commission adopt a resolution recommending the City Council approve the Raccoon River Basin 5 Lift Station site plan to allow construction of a sanitary sewer lift station with the associated building and fenced area, subject to the applicant meeting all City Code requirements and the following:

1. The applicant paving the access road to the site at the completion of the adjacent trunk sewer project or by December 21, 2021, whichever occurs first.

Property Owner:

Raccoon River Land Co., LLC 5000 Westown Parkway, Suite 400

West Des Moines, IA 50266

Applicant:

City of West Des Moines 4200 Mills Civic Parkway West Des Moines, IA 50265

Jason.schlickbernd@wdm.iowa.gov

## **Applicant's Representatives:**

Veenstra & Kimm, Inc. 3000 Westown Parkway West Des Moines, IA 50266

bveenstra@v-k.net

## ATTACHMENTS:

Attachment A - Plan and Zoning Commission Resolution

Exhibit A - Conditions of Approval

Attachment B - Location Map

Attachment C - Site Plans & Building Elevations

## **RESOLUTION NO. PZC-19-061**

A RESOLUTION OF THE PLAN AND ZONING COMMISSION OF THE CITY OF WEST DES MOINES, IOWA, RECOMMENDING TO THE CITY COUNCIL THAT IT APPROVE THE RACCOON RIVER BASIN 5 LIFT STATION (SP-004421-2019) FOR THAT PROPERTY LOCATED AT 3105 SW GRAND PRAIRIE PARKWAY

WHEREAS, pursuant to the provisions of Title 9, Chapter 1 et seq, of the West Des Moines Municipal Code, the applicant, The City of West Des Moines, in association with the property owner, Raccoon River Land Company, LLC, has requested approval of a the Raccoon River Basin 5 Lift Station to allow the construction of a sanitary sewer lift station for that property located at 3105 SW Grand Prairie Parkway;

**WHEREAS,** studies and investigations were made, and staff reports and recommendations were submitted which is made a part of this record and herein incorporated by reference;

**WHEREAS,** on September 9, 2019, this Commission held a duly-noticed meeting to consider the Raccoon River Basin 5 Lift Station Site Plan (SP-004421-2019);

**NOW, THEREFORE,** THE PLAN AND ZONING COMMISSION OF THE CITY OF WEST DES MOINES DOES RESOLVE AS FOLLOWS:

SECTION 1. The findings, for approval, in the staff report, dated September 9, 2019, or as amended orally at the Plan and Zoning Commission meeting of September 9, 2019, are adopted.

SECTION 2. SITE PLAN PERMIT (SP-004421-2019) to allow construction of a sanitary sewer lift station is recommended to the City Council for approval, subject to compliance with all the conditions in the staff report, dated September 9, 2019, including conditions added at the meeting, and attached hereto as Exhibit "A". Violation of any such conditions shall be grounds for revocation of the permit, as well as any other remedy which is available to the City.

PASSED AND ADOPTED on September 9, 2019.

Erica Andersen, Chair
Plan and Zoning Commission

ATTEST:

Recording Secretary

I HEREBY CERTIFY that the foregoing resolution was duly adopted by the Plan and Zoning Commission of the City of West Des Moines, Iowa, at a regular meeting held on September 9, 2019, by the following vote:

AYES:
NAYS:
ABSTENTIONS:
ABSENT:

ATTEST:

Recording Secretary

# **Exhibit A**Conditions of Approval

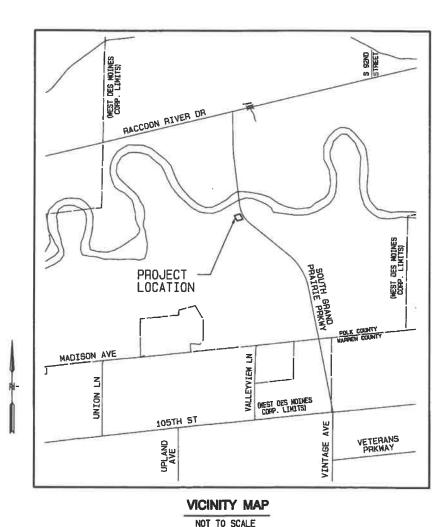


# SITE PLANS FOR RACCOON RIVER BASIN 5 SEWER LIFT STATION



WEST DES MOINES PROJECT NO. SP - 004421 - 2019

WEST DES MOINES, IOWA



## **DRAWING INDEX**

#### NO. DRAWING TITLE

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- GENERAL NOTES AND LEGEND
- REFERENCE TIES AND BENCHMARKS REFERENCE TIES AND BENCHMARKS
- PLAN AND PROFILE
- SITE PLAN
- LIFT STATION LAYOUT PLAN
- 8 LIFT STATION SPOT ELEVATIONS
- LIFT STATION JOINTING PLAN
- ACCESS DRIVE
- 11 LIFT STATION
- 12 SITE PLAN LANDSCAPING
- 13 EROSION CONTROL PLAN

1.ALL CONSTRUCTION WITHIN PUBLIC R.O.W./EASEMENTS, AND/OR ANY CONNECTION TO SEMERS AND STREETS, SHALL COMPLY WITH THE MEST DES MOINES STANDARD CONSTRUCTION SPECIFICATIONS FOR SUBDIVISIONS, DSM METRO DESIGN STANDARDS AND WOM ADDENDUMS.

2.AT LEAST ONE WEEK PRIOR TO ANY CONSTRUCTION WITHIN PUBLIC R.O.W./EASEMENTS AND/OR ANY CONNECTION TO SEMERS AND STREETS, THE CONTRACTOR SHALL CONTACT THE WDM ENGINEERING SERVICES 222-3475 TO SCHEDULE ANY REQUIRED INSPECTIONS. IT IS IMPORTANT TO NOTE CITY APPROVAL OF THE PLAN IS SUBJECT TO THE APPLICANT OBTAINING ALL NECESSARY EASEMENTS/AGREEMENTS AND APPLICABLE PERMITS.

## **ENGINEER**

H. ROBERT VEENSTRA, JR. VEENSTRA & KIMM, INC. 3000 WESTOWN PARKWAY WEST DES MOINES, IA 50266-1320

## PROPERTY OWNER/DEVELOPER

CITY OF WEST DES MOINES C/O JASON SCHLICKBERND 4200 MILLS CIVIC PARKWAY PO BOX 65320 WEST DES MOINES, IA 50265

## COMPREHENSIVE PLAN

LAND USE: OPEN SPACE/SINGLE FAMILY RESIDENCE

## ZONING

UNZONED
BUILDING SETBACKS:
FRONT: 35'
REAR AND SIDES: 20'
LOT SIZE: NO MINIMUM

## IMPERVIOUS AREA

UNDEVELOPED SITE: 40, 904 SF 0% IMPERVIOUS DEVELOPED SITE: 6, 069 SF 14.8% IMPERVIOUS NET UNDEVELOPED SITE: 34, 835 SF 85.2%

## BUILDING AREA

12'X 28' = 3, 360 SF



HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE

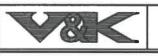
SIGNATURE:
H. ROBERT VEENSTRA JR. DATE:

Scotember 5, 2019 MY LICENSE RENEWAL DATE IS DECEMBER 31, 2020

PAGES COVERED BY THIS SEAL:



CONTROL POINT COORDINATES BENCHMARK DATE REVISIONS **ELEVATION** DLL DRAWN CHECKED HRV APPROVED DATE 9-5-19 VEENSTRA & KIMM, INC.



INDEX AND TITLE SHEET

DWG. NO

3000 Westown Parkway • West Des Moines, Iowe 50266-1320 515-225-8000 • 515-225-7848 (FAX) • 800-241-8000 (WATS)

## **GENERAL LEGEND**

	GENERAL LE	GEND	
	SURVEY LINE & STATION INDICATOR	===12"CMP	CULVERT; SIZE AND TYPE
河 河 河	CONCRETE SURFACE	D— — OR D==	FLARED END SECTION
	ASPHALT SURFACE	***************************************	RAILROAD
	CONCRETE SURFACE W/ASPHALT OVERLAY	10	MAILBOX
87 - 48E	LOW GRADE ASPHALT SURFACE	——×——	FENCE (ALL OTHER)
W. 155	GRANULAR SURFACE		SECURITY FENCE
	DIRT SURFACE		WOOD FENCE
# #	BRICK SURFACE	——————————————————————————————————————	PROPERTY LINE
	SURFACING REMOVAL/REPLACEMENT	•	PROPERTY PIN
	EARTH SECTION	Δ	SECTION CORNER
-0-	NEW SEWER/MANHOLE	Williams	PLAT BOUNDARY
	NEW SEWER/INTAKE		BUILDING
	NEW WATER MAIN	★855.55	ELEVATION MARKER
	NEW FORCE MAIN	e e	CENTERLINE
Ö	NEW HYDRANT	DIA.	DIAMETER
8	NEW WATER VALVE	ELEV.	ELEVATION
—8"S	EXISTING SANITARY SEWER AND SIZE	PVC	POLYVINYLCHLORIDE PIPE
18"SS	EXISTING STORM SEWER AND SIZE	CI	CAST IRON PIPE
—- w " в— -	EXISTING WATER MAIN AND SIZE	DI	DUCTILE IRON PIPE
	EXISTING FORCE MAIN AND SIZE	CMP	CORRUGATED METAL PIPE
4"G	GAS MAIN AND SIZE	VCP	VITRIFIED CLAY PIPE
UE	UNDERGROUND POWER LINE	RCP	REINFORCED CONCRETE PIPE
OP	OVERHEAD POWER LINE	RCAP	HEINFORCED CONCRETE ARCH PI
T	UNDERGROUND TELEPHONE LINE	LACP	LINED REINFORCED CONCRETE P
стv	CABLE TELEVISION LINE	LCPP	LINED CONCRETE PRESSURE PIP
—F0	FIBER OPTICS	STA.	STATION
T T T	TOP OF EMBANKMENT	LA	LINE AHEAD
	TOE OF EMBANKMENT	LB	LINE BACK
	DRAINAGE COURSE	BM-2	BENCH MARK AND NUMBER
0	MANHOLE	HOW	RIGHT-OF-WAY
□ OR —	CURB INTAKE	PI	POINT OF INTERSECTION
<b>⊞</b> OR <b>⊕</b>	AREA OR BEEHIVE INTAKE	POT	POINT ON TANGENT
ਚ	EXISTING HYDRANT	LF	LINEAR FEET
8	EXISTING WATER VALVE	TH	TACKED HUB
<b>A</b>	GAS VALVE	⊗sB-2	SOIL BORING AND NUMBER
Ø	POWER POLE	PVC	POINT OF VERTICAL CURVATURE
-	TELEPHONE POLE	PVT	POINT OF VERTICAL TANGENCY
· O	STREET LIGHT	VC	VERTICAL CURVE
O	POLE W/GUY ANCHOR	PC	POINT OF CURVATURE
H	TRAFFIC SIGNALS	PT	POINT OF TANGENCY
ж	SIGN	MO	MIDDLE ORDINATE
	TELEPHONE CABLE JUNCTION BOX	DWG.	DRAWING
	PEDESTRIAN CONTROL LIGHT	CP-1	CONTROL POINT AND NUMBER
#	RAILROAD CONTROL LIGHT	(TYP.)	TYPICAL
) <b>x</b> (	RAILROAD SIGN	HPG	HIGH PRESSURE GAS
2	UTILITY ACCESS COVER	IPG	INTERMEDIATE PRESSURE GAS
-	PARKING METER	INV.	INVERT
£316°	TREE AND SIZE	E.W., E.F.	EACH WAY, EACH FACE
5.	EVERGREEN AND SIZE	E.W.	EACH WAY
O18"	STUMP AND SIZE	@	AT
	BUSH, SHRUB OR HEDGE	<₃)	DRAWING NUMBER
OR @@@@@	BOSTI, STINGE OF TIEBEE		

## LEGAL DESCRIPTION

A tract of land located in the Northeast 1/4 of the Northeast 1/4 of Section 33, Township 78 North, Range 26 West of the 5th P.M., Dallas County, Iowa. Said tract being more particularly described as follows:

Commencing at the Southeast corner of the Northeast 1/4 of the Northeast 1/4 of said Section 33; thence North 00°05°32" Mest (all bearings referenced to Grid North Iowa Regional Coordinate System Zone 8), 10.27 feet along the East line of said Northeast 1/4 of the Northeast 1/4 to the Westerly right-of-way line of SW Grand Prairie Parkway as shown on the Acquisition Plats thereof recorded in Book 2017 on Page 8269 in the Dallas County Recorder s Office; thence North 50°10′56° West, 263.51 feet along said Westerly right-of-way line to the beginning of a tangent curve concave Northeasterly and having a radius of 1182.50 feet; thence Northwesterly along said right-of way line and along said curve through a central angle of 16°02′27° an arc distance of 331.06 feet, said curve having a chord which bears North 42°09′42" West, 329.98 feet to the point of beginning; thence continuing along said right-of way line and along said curve through a central angle of 09°56′55° an arc distance of 205.32 feet, said curve having a chord which bears North 29°10′02″ West, 205.06 feet; thence on a non-tangent line South 73°35′34" West, 201.59 feet to the beginning of a non-tangent curve concave Northeasterly and having a radius of 1382.50 feet; thence Southeasterly along said curve through a central angle of 08°26′53° an arc distance of 203.84 feet, said curve having a chord which bears South 27°17′06″ East, 203.66 feet; thence on a non-tangent line North 73°35′34′ East, 208.45 feet to the point of beginning.

Containing 40, 904 square feet, more or less.

## **GENERAL NOTES**

- 1. ALL ELEVATIONS ARE TO WEST DES MOINES DATUM.
  2. WEST DES MOINES PUBLIC SERVICES TO REMOVE AND REPLACE ALL STREET SIGNS.
  3. SHAPE ALL DITCHES TO DRAIN AFTER CONSTRUCTION.
  4. CONFIRM LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES AS REGUIRED TO ELIMINATE CONFLICTS PRIOR TO CONSTRUCTION. ALLOW UTILITY PERSONNEL TO RELOCATE UTILITIES WHERE CONFLICTS OCCUR.
  5. DO NOT INTERRUPT EXISTING UTILITIES OR INDIVIDUAL SERVICES UNLESS DIRECTED BY ENGINEER.
  6. LOCATIONS OF CONSTRUCTION LIMIT LINES SHOWN ON PLANS ARE APPROXIMATE. CONFINE ALL CONSTRUCTION OPERATIONS, INCLUDING ACCESS TO WORK, TO CONSTRUCTION LIMITS.
  7. SET MANHOLE COVERS FLUSH WITH PROPOSED GRADES UNLESS OTHERWISE NOTED.

- OTHERMISE NOTED.

  8. STATIONING IS ALONG CENTER LINE OF SEWER, UNLESS
- OTHERWISE NOTED.

  9. PROTECT UTILITY POLES, LINES AND APPURTENANCES NOT

- 9. PHOTECT OTLITY POLES, LINES AND APPORTEMANCES NOT SHOWN FOR RELOCATION.

  10. RESET ALL PROPERTY PINS DISTURBED BY CONSTRUCTION; PINS RESET BY REGISTERED LAND SURVEYOR; COST IS INCIDENTAL TO CONSTRUCTION.

  11. PROTECT ALL SURFACING, NOT INDICATED BY SHADING FOR REMOVAL AND REPLACEMENT FROM DAMAGE DURING CONSTRUCTION.

## PROTECTION OF VEGETATION

THEES AND OTHER VEGETATION WHICH MAY BE REMOVED ARE MARKED WITH AN "X" OVER THE APPROPRIATE SYMBOL. FOR EXAMPLE \$\infty\$ 12" INDICATES THE REMOVAL OF A 12" TREE. REPLACEMENT, BY CONTRACTOR, OF THESE ITEMS IS NOT REQUIRED.

TUNNEL, INSTALL TIGHT SHEETING, HAND EXCAVATE OR EMPLOY OTHER MEANS APPROVED BY ENGINEER TO PROTECT EXPOSED PORTIONS AND ROOT SYSTEMS OF TREES AND OTHER VEGETATION NOT SCHEDULED FOR REMOVAL. IF TREES AND OTHER VEGETATION NOT SCHEDULED FOR REMOVAL ARE DAMAGED DURING CONSTRUCTION, REPUACE IN KIND AND SIZE AT NO COST TO CITY OR PROPERTY OWNER.

## SITE ADDRESS

3105 SW GRAND PRAIRIE PARKWAY WEST DES MOINES. IOWA

CONTROL POINT	COORDINATES	BENCHMARK	ELEVATION	DATE	REVISIONS	SCALE	NONE	Γ
						DRAWN	DLL	l
						CHECKED	HRV	l
						APPROVED	HRV	L
						DATE	9-5-19	Γ
						A.C.		L



GENERAL NOTES AND LEGEND

DWG. NO.

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## City of West Des Moines, Iowa **Vertical Control Network**

NAVDES - FEET	841.07
ADM DATUM - FEET	67.06
NAVDOS - METERS	256.359
VADES NORTHING	558438.3
NADES EASTING	1549116.9
RECTION	27
TOWNSHIP	T78N

LOCATION 9100 Block of Raccoon River Orive, Intersection of Raccoon River Drive and S. 92nd Street, 3 feet North of South Fence, 25 feet West of Rince corner, Sta 1124 & stamped in PCC pavement on the South side.

DESCRIPTION









## City of West Des Moines, Iowa **Vertical Control Network**

Benchmark: 130

NAVDSS - FEET	873.
WDM DATUM - FEET	99.
NAYDOS - METERS	266.3
SECTION	
TOWNSHIP	170
RANGE	R26
COUNTY	Dall

Southwest corner of Booneville Road and "V" Place. 3 feet Rooth of South Right of Way Insce on Booneville Road and in line with East edge of "V" Place. What side of Raid entrance.











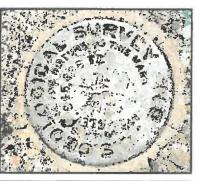
## City of West Des Moines, Iawa **Vertical Control Network**

⊫ USGS E

NAVDIS - FEET	845.50
WDM DATUM - FEET	71.49
NAVDSS - METERS	257.709
SECTION	28
(GHASHIP	TTEN
RANGE	RZSW
COUNTY	Dallas

U.S.G.S. Tablet #845 - Southwest concrete headwall of ratinoad bridge #370.9 over creek on the North side of Raccoon Rhen Drive, 300+f-West of East line of Section 28, Township 78 North, Range 26 West,

Stamped elevation 845,288 feet:







**CONTROL POINTS - BENCHMARKS** 

CUT 'X' TOP OF WEST CURB OF GRAND PRAIRIE PKNY 100'± SOUTH OF DRIVE. STA.7+30.58, 103.90' LT. EL=87.46.

CUT 'X' TOP OF WEST CURB OF GRAND PRAIRIE PKWY 100'± NORTH OF DRIVE. STA.7+77.88, 102.69' RT. EL=78.68, CP-101:

SET 1/2"REBAR 225'± NN OF BM-1, 200'± SOUTH OF RIVER BANK. STA.7+77.8B, 102.69' RT. EL=78.68. CP-102:

N=553901.28 E=1544734.09

**COORDINATES** 

N=553709.85 E=1544825.00

N=553901.28 E=1544734.09

REFERENCE TIES AND BENCHMARKS

3

VEENSTRA & KIMM, INC.

3000 Westown Perkwey • West Dee Moines, lows 50266-1320 515-225-8000 • 515-225-7848 (FAX) • 800-241-8000 (WATS)

CONTROL POINT

COORDINATES

BENCHMARK

ELEVATION

DATE

SCALE

CHECKED

APPROVED HPY DATE 9-5-19

REVISIONS

DWG. NO.

#### 2014 City of West Des Moines, Iowa Horizontal Datum: NAD 83(2011) - Vertical Datum: NAVD 1988 iowa South Zone (1402) Iowa Regional Coordinate System Zone 8 Ames-Des Moines **US Survey Feet**

Point Name: USGS E

Network Point ID: 117

NAD 83(2011) Latitude: N41 °31'47.97198"

Longitude: W93 '50'55,36516"

NAVD 88 Ortho Height: **845.500**sft Ellip. Ht: **743.983**sft

Geoid12A

Mapping Angle: -0 °13'47"

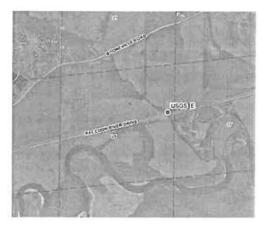
Combination Scale Factor: 0.999929333

lowa South Zone (1402) Northing: 557623.979sft Easting: 1544939.094sft

IaRCS Zone 8 Northing: 7466398.465sft Easting: 18463843.244sft

Designation: NGS 1st order vertical control station "845" PID: MH0427

Monument Type: A USGS survey disk stamped "ELEV 845.208" and set in the south end of the west abutment of railroad bridge 370.9.



This document was prepared by DCI on June 13, 2014 for use by The City of West Des Moines, Iosea

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2014 City of West Des Moines, Iowa Horizontal Datum: NAD 83(2011) - Vertical Datum: NAVD 1988 Iowa South Zone (1402) Iowa Regional Coordinate System Zone 8 Ames-Des Moines **US Survey Feet** 

Point Name: G101

Network Point ID: 201

NAD 83(2011)

Latitude: N41 '30'26.73470" Longitude: W93 '50'47.60153"

Geoid12A

NAVD 88 Ortho Height: 994.340sft Ellip. Ht: 892.741sft

Mapping Angle: -0°13'42"

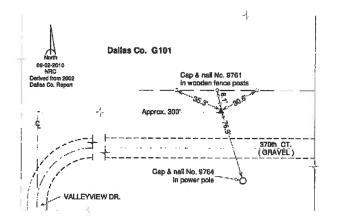
Combination Scale Factor: 0.999920054

lowa South Zone (1402) Northing: 549399.364sft Easting: 1545496.799sft

Northing: 7458174.677sft Easting: 18464421.396sft

Designation: Dallas Co. GPS Control Monument G101 (set by WHKS in 2002)

Monument Type: 5/8" x 6'-0" long aluminum rod with stamped cap and NGS style



This document was prepared by DCI on June 13, 2014 for use by The City of West Des Moines, Inva-

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2014 City of West Des Moines, Iowa Horizontal Datum: NAD 83(2011) - Vertical Datum: NAVD 1988 lowa South Zone (1402)

Iowa Regional Coordinate System Zone 8 Ames-Des Moines US Survey Feet

Point Name: WDM-HZ #14

Network Point ID: 2014

NAD 83(2011) Latitude: N41 "31"35.29892" Longitude: W93 "51"55.76938"

NAVD 88 Ortho Height: 852.930sft Ellip. Ht: 751.511sft

Geold12A

Mapping Angle: -0°14'27"

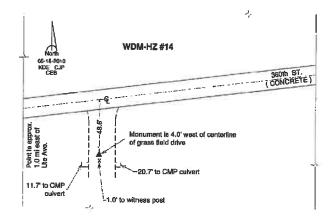
Combination Scale Factor: 0.999928623

lowa South Zone (1402) Northing: 556360.162sft Easting: 1540339.650sft

laRCS Zone 8 Northing: 7465123.154sft Easting: 18459246.627sft

Designation: West Des Moines GPS Control Pt. - WDM-HZ #14

Monument Type: 3/4" x 9'-0" long Berntsen Top Security Rod monument with a 2-1/2" dia. domed survey cap and permanent magnet encased in a white PVC pipe with a NGS style alum. access cover.



This document was prepared by DCI on June 13, 2014 for use by The City of West Des Moines, Iowa

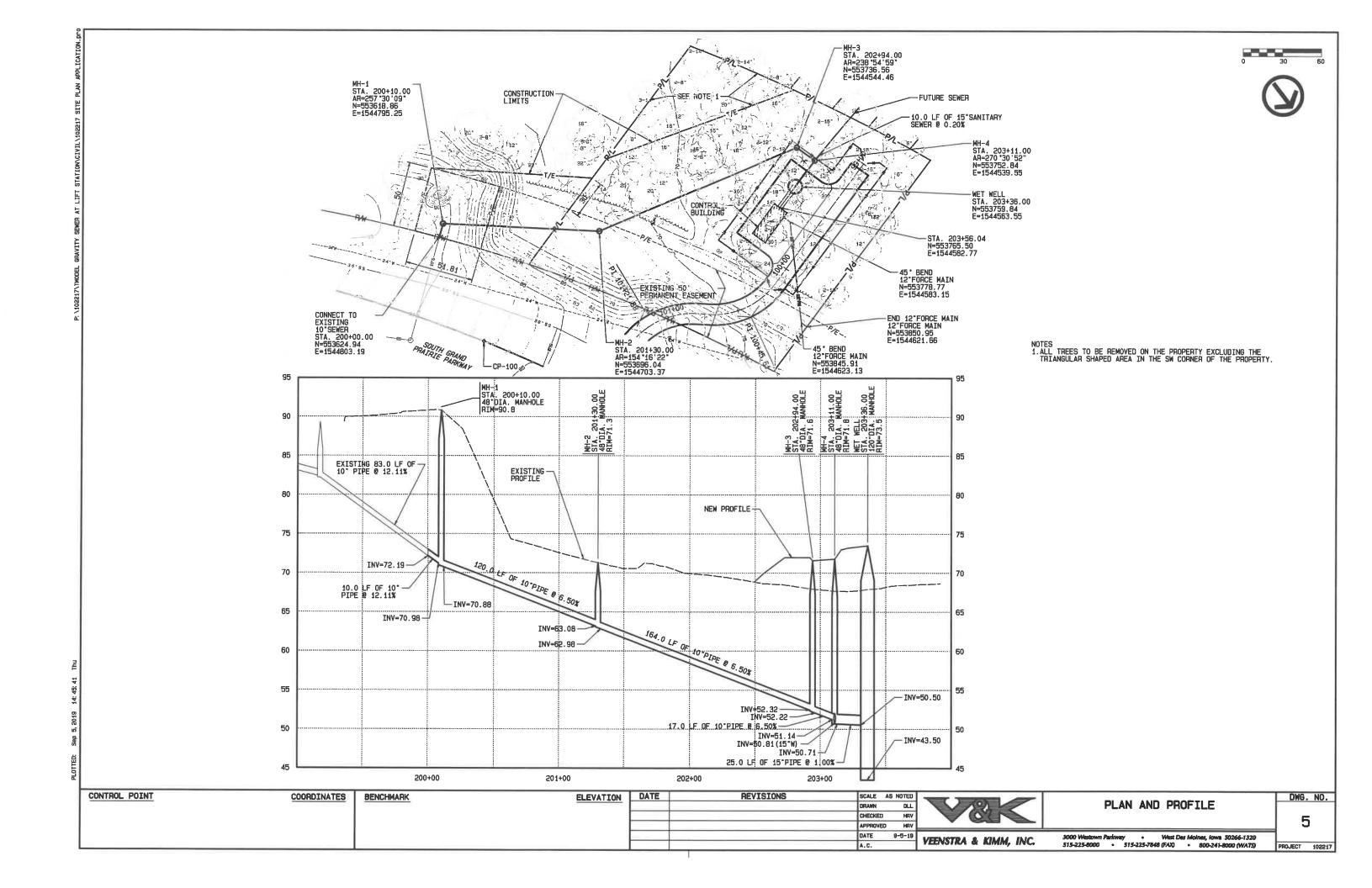
14 of 39

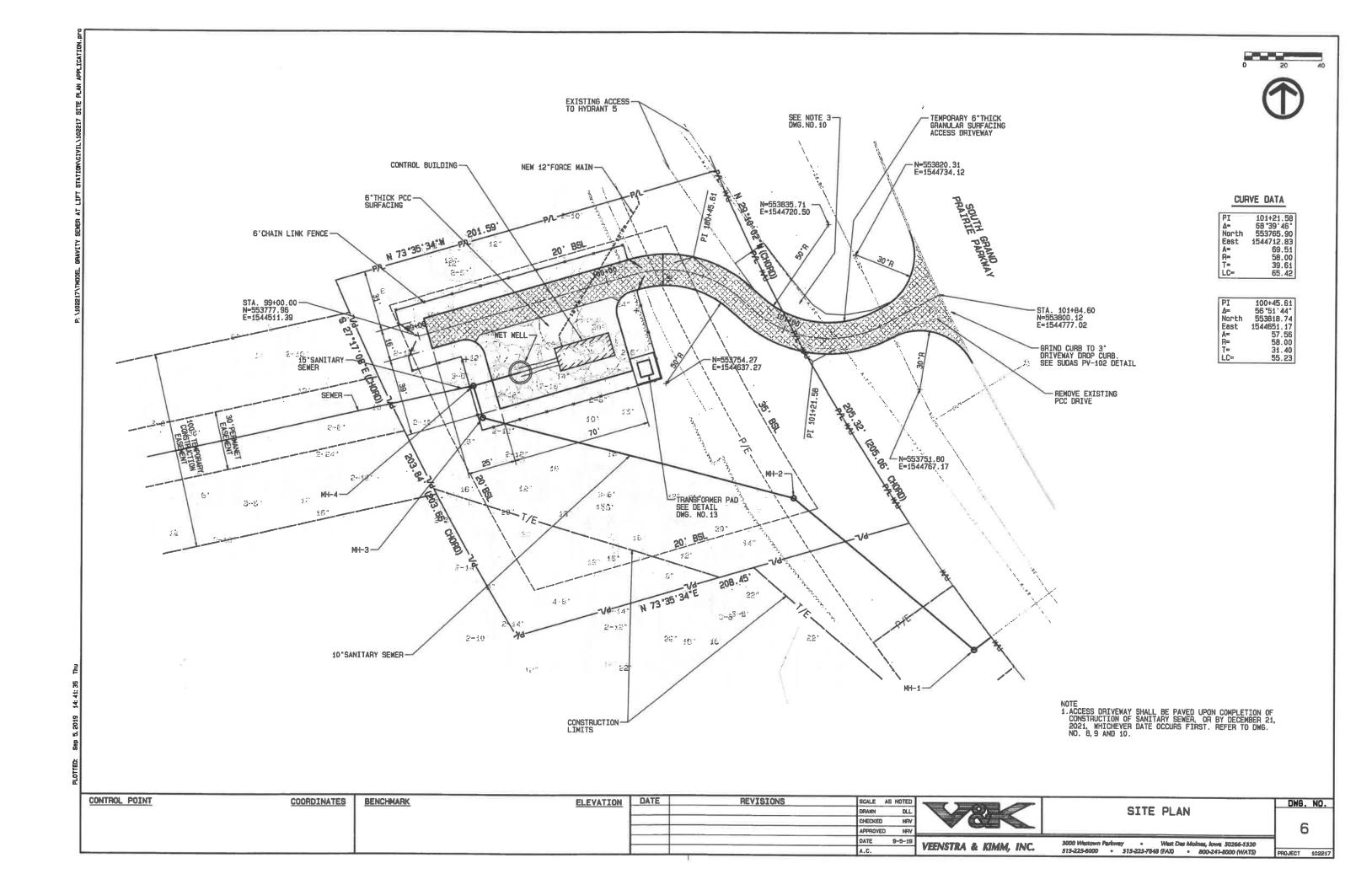
-							
	CONTROL POINT	COORDINATES	BENCHMARK	ELEVATION	DATE	REVISIONS	SCALE NONE
				i ———			DRAWN DLL
							CHECKED HRV
							APPROVED HRV
			ļ				DATE 9-6-19
				i			1

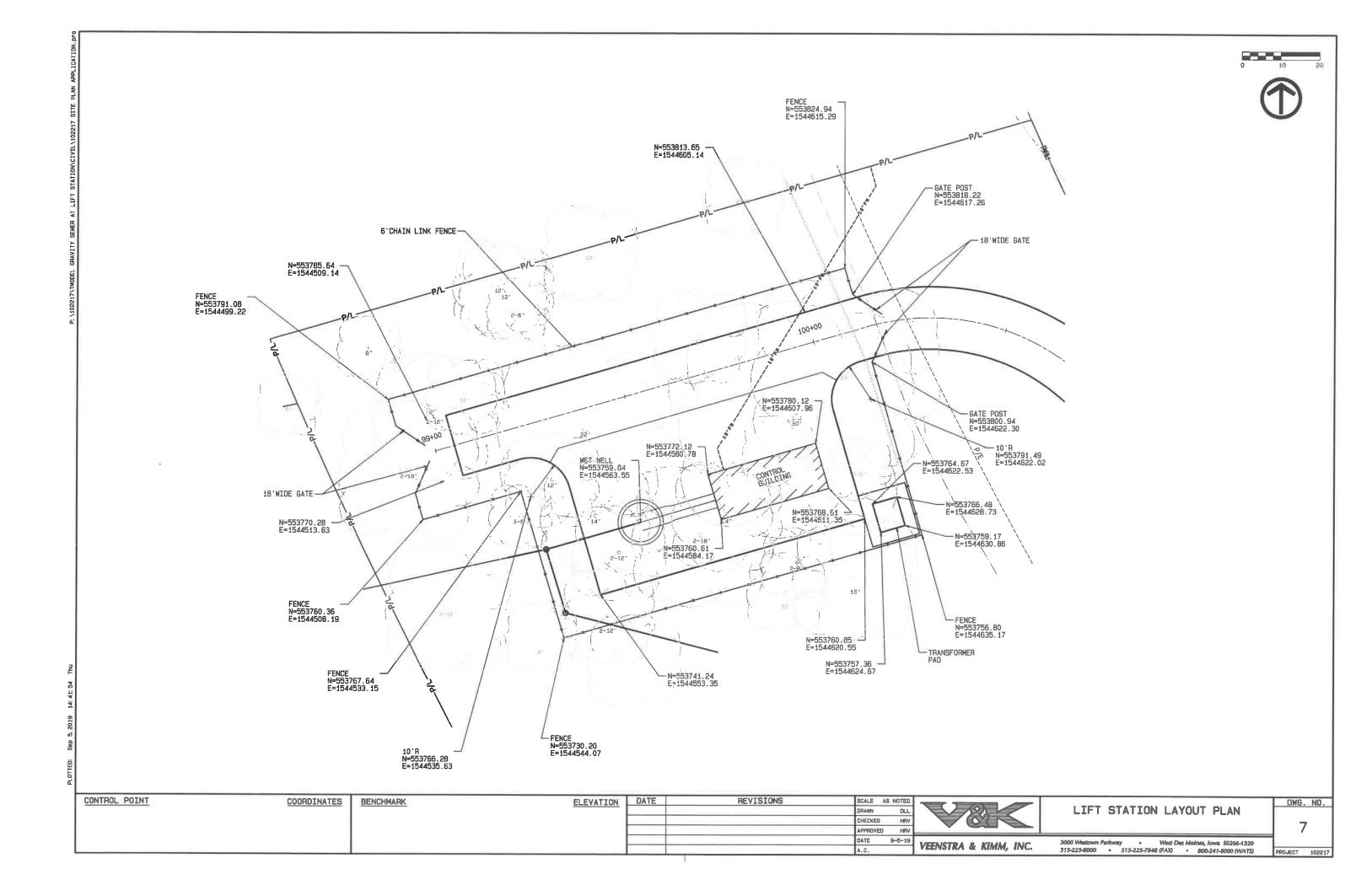


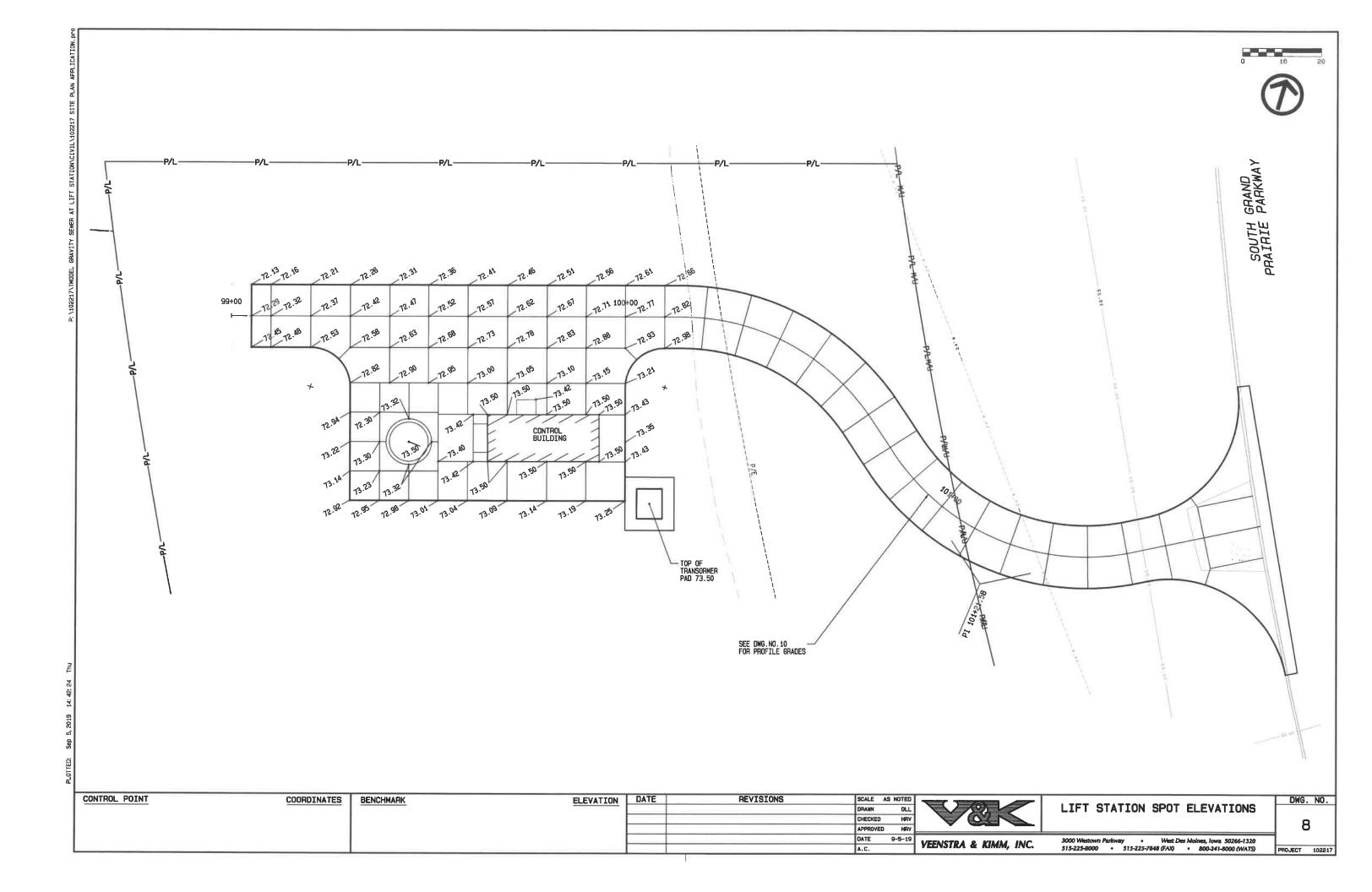
3000 Westown Parkway • West Des Molnes, lowe 50266-1320 515-225-8000 • 515-225-7848 (FAX) • 800-241-8000 (WATS) VEENSTRA & KIMM, INC.

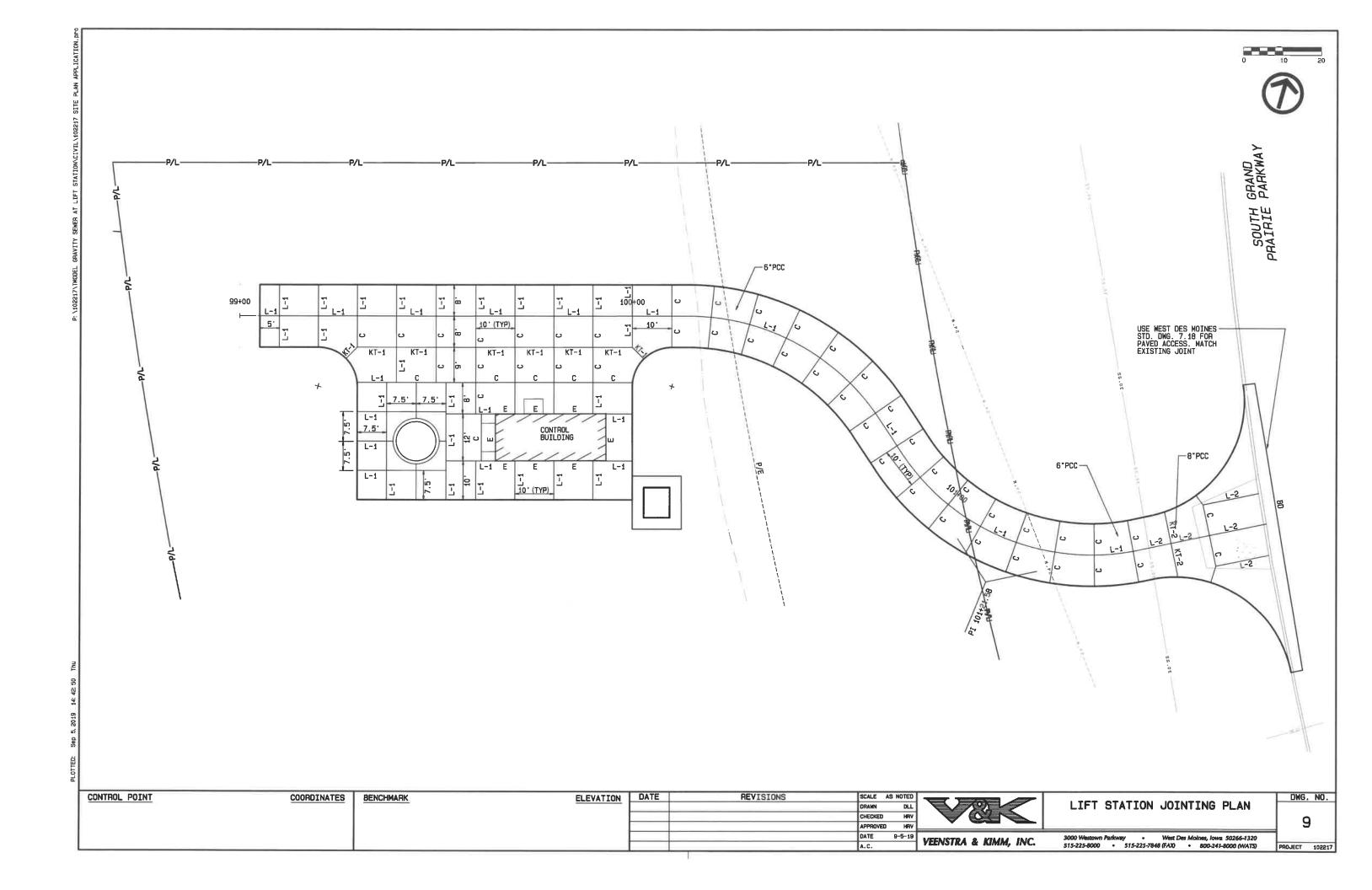
DWG. NO.

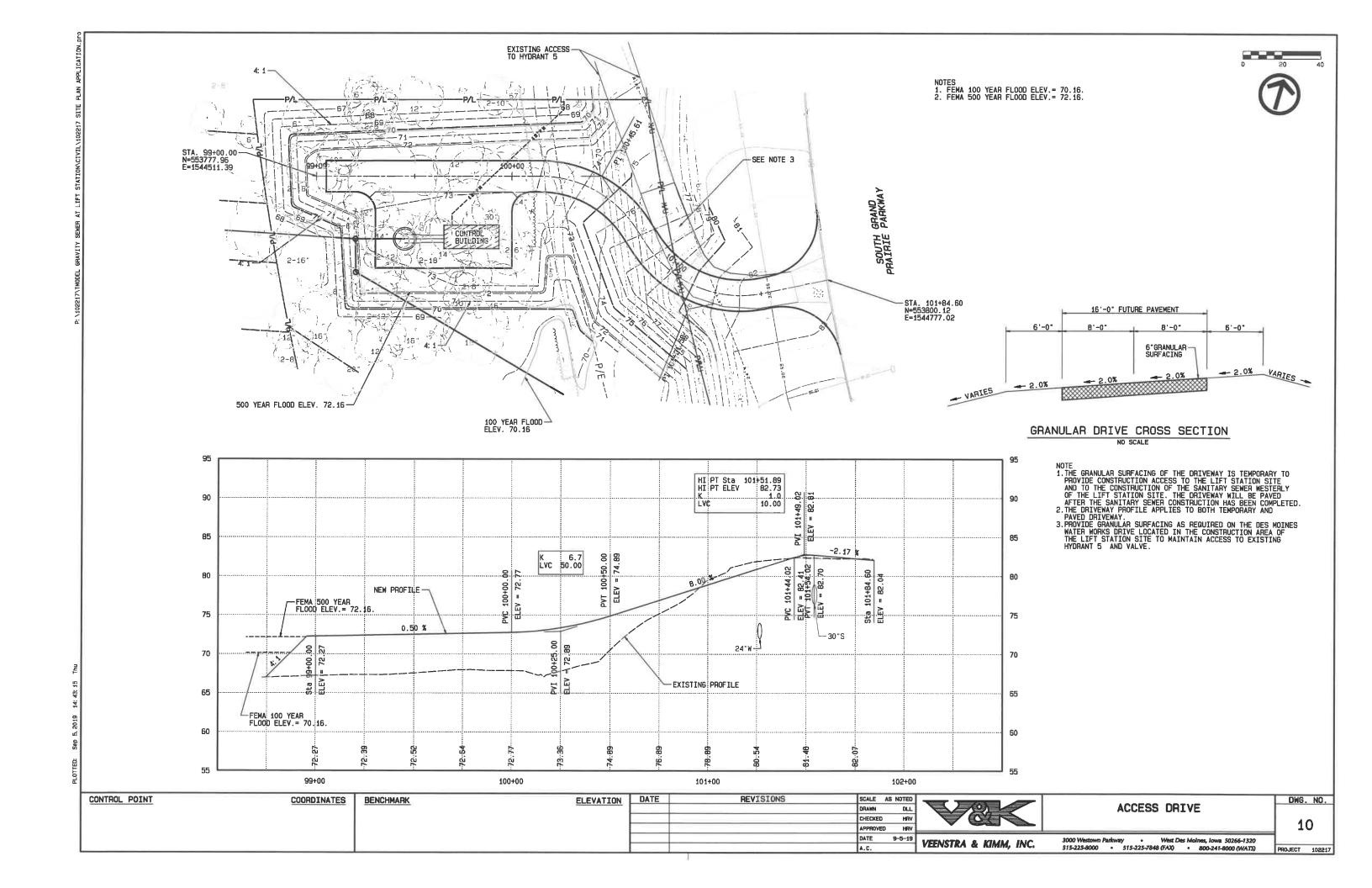


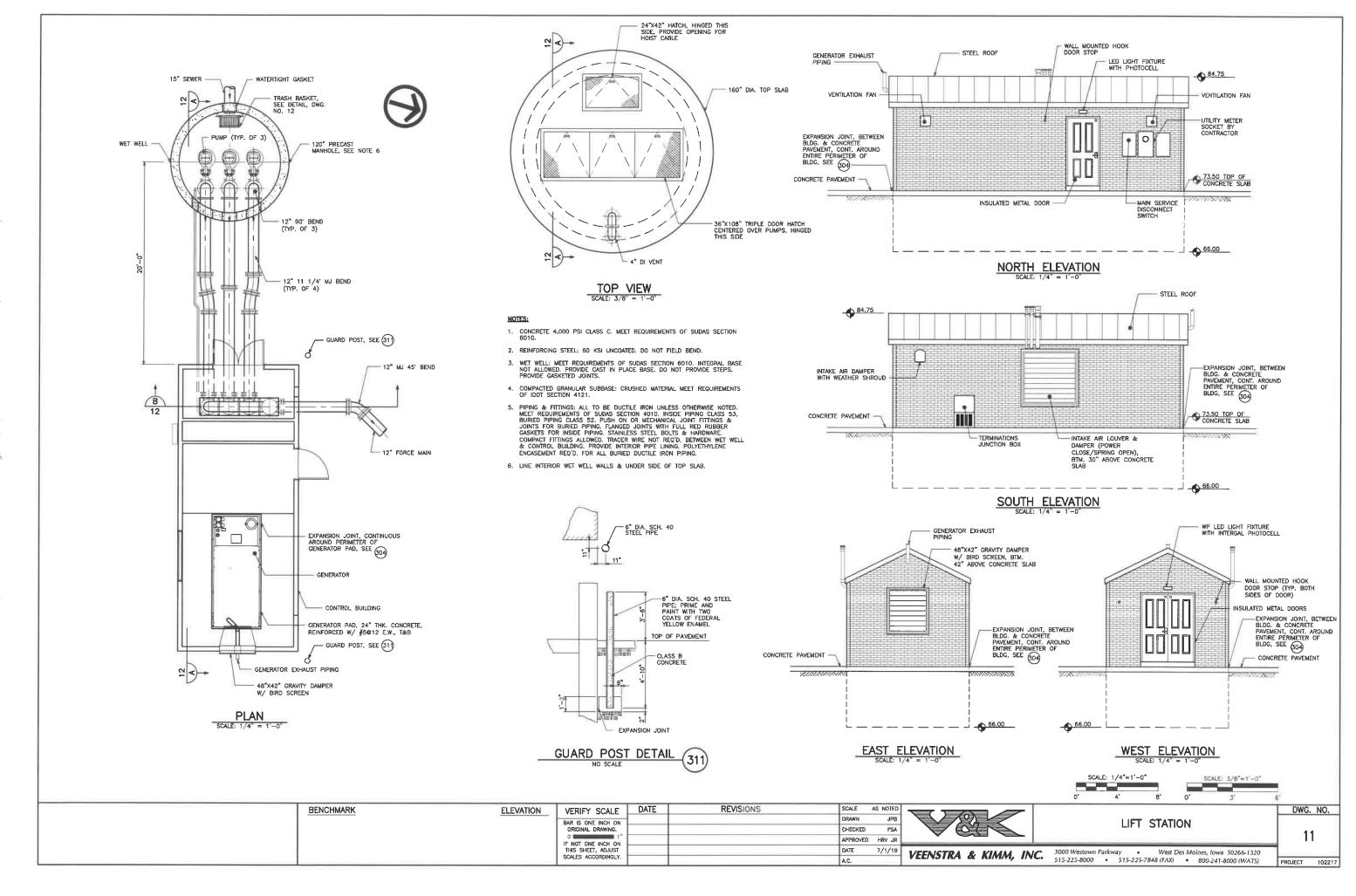














METHOD

B&B

B&B Cont.

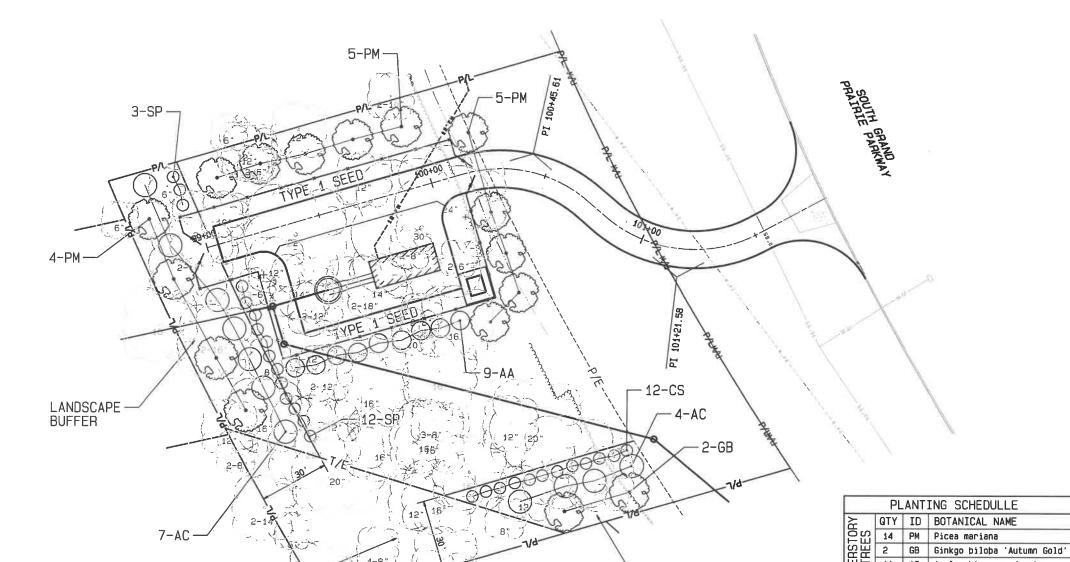
Cont.

Cont.

SIZE

2-1 1/2" Cal.

2-1 1/2" Cal.



LANDSCAPE BUFFER

-REDOSIER DOGWOOD

TYPICAL LANDSCAPE BUFFER

## OPEN SPACE LANDSCAPE REQUIREMENTS

OPEN SPACE: 25% REQUIRED OPEN SPACE = 8,029 SF PROVIDED OPEN SPACE = 34,835 SF

#### TREES

TOTAL TREES REQUIRED (2 PER 3,000 SF OF 25% OPEN SPACE)
6 TREES REQUIRED
10 TREES PROVIDED

## SHRUBS

TOTAL SHRUBS REQUIRED (3 PER 3,000 SF OF 25% OPEN SPACE)
9 SHRUBS REQUIRED
9 SHRUBS PROVIDED

## **BUFFER LANDSCAPE REQUIREMENTS**

PER 30'WIDE X 35'LONG BUFFER 1 OVERSTORY/EVERGREEN TREE 2 ORNAMENTAL TREES 6 SHRUBS

COMMON NAME

AUTUMN GOLD GINKGO

BLACK SPRUCE

	OVE	11	AC	Amelanchier canadensis	SERVICEBERRY	5 Gal.	
	က္ဆ	9	AA	Aronia arbutifolia	RED CHOKECHERRY	5 Gal.	
	\	12	CS	Cornus sericea	REDOSIER DOGWOOD	5 Gal.	
	UNDERSTORY TREES AND SHRUBS						
RNAMENTAL	က္	15	SP	Salix purpurea Nana	PURPLEOSIER WILLOW NANA	3 Gal.	Ι
OVERSTORY	SHRUBS						
CE	)ING				AREA AND WITHIN SOUTH GRAND PRA AREAS OF SITE DISTURBED BY CONS		

CONTROL POINT	COORDINATES	BENCHMARK	ELEVATION	DATE	REVISIONS	SCALE	AS NOT	LEO
						DRAWN		ᄣ
						CHECKED	1	HRV
						APPROVE	D F	HAV
						DATE	9-5-	-19
						A.C.		$\neg$

DO NOT REMOVE TREES IN THIS AREA



SITE PLAN - LANDSCAPING

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DWG. NO.

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