CITY OF WEST DES MOINES PLAN AND ZONING COMMISSION COMMUNICATION

Meeting Date: June 22, 2020

Item: The Wilder Pines Plat 1, 1000 and 1100 S. 60th Street - Subdivide

the Property into Eleven Lots for Single Family Development -

Pines, LLC. - PP-004630-2020

Requested Action: Recommend Approval of Preliminary Plat

Case Advisor: Kara Tragesser, AICP

<u>Applicant's Request</u>: The applicant and owner, Pines, LLC., represented by Jared Murray of Civil Design Advantage, is requesting approval of a Preliminary Plat for approximately 9.74 acres located at 1000 and 1100 S. 60th Street. The applicant proposes to subdivide the property into 11 lots for single family development (see Attachment B – Location Map and Attachment C – Preliminary Plat).

<u>History</u>: The properties have had one single family residential dwelling each. On June 22, 2020, the Plan and Zoning Commission considered requests for a Comprehensive Plan Land Use amendment and the establishment of The Wilder Pines Planned Unit Development.

<u>City Council Subcommittee</u>: This development was presented to the Development and Planning City Council Subcommittee on February 17, 2019. The Subcommittee was supportive of the preliminary plat.

<u>Staff Review and Comment</u>: This request was distributed to other City departments and other agencies for their review and comment. There are no outstanding issues. Of note:

PUEs in Front Yards: City Code provides that public utility easements (PUE) be located within the rear and side yards. The Code also provides that where, by determination of the City Council, certain conditions exist to make the location of the easements unreasonable or impractical, these utilities may be placed in the front yard, so long as they don't interfere with any other existing or proposed utility. The applicant is attempting to conserve trees and is locating a conservation easement along the east boundary of the plat. Due to the desire to save trees the applicant is requesting to allow the PUEs in the front yard.

Setbacks and density: The density of the development is capped at 11 lots through The Wilder Pines Planned Unit Development that is under review by the Plan & Zoning Commission on June 22, 2020. The density calculation results in a density of 1.12 dwelling units per acre. The lot size ranges from .41 acres to 1.54 acres. Since all lots were not able to meet the minimum 40,000 sq. ft. lot size, the Residential Estate zoning district could not be applied. The setbacks have been applied for the Single Family Residential (R-1) zoning. These development standards are provided for in the planned unit development and are shown on the preliminary plat.

Comprehensive Plan Consistency: 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:

- 1. 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 do 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.
- 5. The proposed development and use have 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.
- 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.

<u>Staff Recommendation And Conditions Of Approval</u>: 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 Preliminary Plat to create 11 lots for single family development, subject to the applicant meeting all City Code requirements and the following:

- 1. The applicant providing final drawings of the preliminary plat which address staff comments, prior to the construction of any improvements on the site.
- 2. That the City Council allow public utility easements in front yards.
- 3. That the proposed Comprehensive Plan Land Use Amendment and adoption of the Wilder Pines planned unit development are complete before the preliminary plat is released for construction.

Property Owner: Pines, LLC

9550 Hickman Road, Suite 101

Clive IA 5325m

Applicant: Same

Applicant's Representatives: Jared Murray

Civil Design Advantage

3405 SE Crossroads Dr. Suite G Grimes IA 50111 515-369-4400 jaredm@cda-eng.com

ATTACHMENTS:

Attachment A - Plan and Zoning Commission Resolution

Exhibit A – Conditions of Approval

Attachment B - Location Map

Attachment C - Preliminary Plat (illustrative only. Official copy will be held at City Hall)

Attachment A

RESOLUTION NO. PZC-040

A RESOLUTION OF THE PLAN AND ZONING COMMISSION OF THE CITY OF WEST DES MOINES, RECOMMENDING TO THE CITY COUNCIL THAT IT APPROVE A PRELIMINARY PLAT TO SUBDIVIDE PROPERTY INTO ELEVEN LOTS FOR SINGLE FAMILY DEVELOPMENT

WHEREAS, pursuant to the provisions of Title 10, Chapter 1 et seq, of the West Des Moines Municipal Code, the applicant, Pines, LLC, has requested approval for a Preliminary Plat (PP-004630-2020) to create eleven lots for single family development at 1000 and 1100 S. 60th Street; and

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; and

WHEREAS, on June 22, 2020, this Commission held a duly-noticed public meeting to consider the application for a Preliminary Plat (PP-004630-2020).

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

<u>SECTION 1</u>. The findings, for approval, in the staff report or as amended orally at the Plan and Zoning Commission meeting are adopted.

<u>SECTION 2</u>. The Preliminary Plat (PP-004630-2020) to subdivide the property into eleven lots for single family development is recommended to the City Council for approval, subject to compliance with all the conditions in the staff report 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 June 22, 2020.

ATTEST;	Erica Andersen, Chair Plan and Zoning Commission	
Recording Secretary		

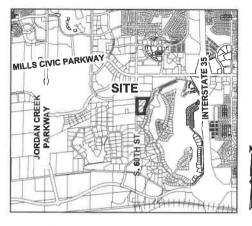
the following vote:			
AYES: NAYS: ABSTENTIONS: ABSENT:			
ATTEST:			
Recording Secretary	-		

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 June 22, 2020, by

Exhibit A CONDITIONS OF APPROVAL

- 1. The applicant providing final drawings of the preliminary plat which address staff comments, prior to the construction of any improvements on the site.
- 2. That the City Council allow public utility easements in front yards.
- 3. That the proposed Comprehensive Plan Land Use Amendment and adoption of the Wilder Pines planned unit development are complete before the preliminary plats is released for construction.

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WEST DES MOINES, IOWA

OWNER / APPLICANT

PINES, LLC CONTACT: TOBY TORSTENSON 9550 HICKMAN RD. SUITE 101 CLIVE, IA 50325 (515)-208-8325

ENGINEER

CIVIL DESIGN ADVANTAGE CONTACT: JARED MURRAY 3405 SE CROSSROADS DRIVE, SUITE G GRIMES, IOWA 50111 PH. (515) 369-4400 FX. (515) 369-4410

SURVEYOR

CIVIL DESIGN ADVANTAGE, LLC CONTACT: MIKE BROONER 3405 SE CROSSROADS DRIVE, SUITE G GRIMES, IOWA 50111 PH. (515) 369-4400 FX. (515) 369-4410

DATE OF SURVEY

JANUARY 10, 2020

PROJECT ADDRESS

1000 AND 1100 W. 60TH STREET

SUBMITTAL DATES

FIRST SUBMITTAL. THIRD SUBMITTAL:

ZONING

EXISTING = RE-IA: RESIDENTIAL ESTATE

PROPOSED = PUD W/ UNDERLYING R-1

COMPREHENSIVE PLAN LAND USE

EXISTING = LD: LOW DENSITY RESIDENTIAL

PROPOSED = PUD: SINGLE FAMILY RESIDENTIAL

DEVELOPMENT SUMMARY

AREA: 9.74 ACRES (424,187 SF)

SETBACKS: GARAGE SETBACK BUILDING SETBACK REAR SETBACK

= 25' FROM SIDEWALK = 15' FROM SIDEWALK = 20' FROM PRESERVATION OR LANDSCAPE BUFFER EASEMENT

SIDE SETBACK LOT 4 NORTH SETBACK = 7' FROM PROPERTY LINE

11 LOTS/9.74 AC = 1.13 LOTS/ AC (5.8 MAX)

CONSTRUCTION SCHEDULE

BENCHMARKS

WEST DES MOINES BM#124 @ INTERSECTION OF JORDAN CREEK PARKWAY AND MILLS CIVIC PARKWAY, 169 FEET +/- EAST OF THE WEST END OF MEDIAN IN THE CENTER OF 6 FEET GRASS MEDIAN IN MILLS CIVIC PARKWAY, 17 FEET +/- WEST OF THE ANGLE POINT IN THE CURB FOR THE WEST BOUND TURN LANE.

BURY BOLT ON NE CORNER OF HYDRANT ON EAST SIDE OF SOUTH 60TH STREET, FIRST HYDRANT SOUTH OF MILLS CIVIC PARKWAY. ELEVATION=181.35

BURY BOLT ON SE CORNER OF HYDRANT ON EAST SIDE OF SOUTH 60TH STREET, EAST OF MIDAMERICAN SUB STATION, THIRD HYDRANT SOUTH OF MILLS CIVIC PARKWAY. ELEVATION=148.24

UTILITY WARNING

ANY UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY AND RECORDS OBTAINED BY THIS SURVEYOR. THE SURVEY AND RECORDS OBTAINED BY THIS SURVEYOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION SHOWN.

LEGAL DESCRIPTION

LOTS 2 AND 3 OF WESTMEW COUNTRY ESTATES REPLAT, AN OFFICIAL PLAT IN THE CITY OF WEST DES MOINES, POLK COUNTY, IOWA, EXCEPT THE WEST 27.00 FEET THEREOF.

1-800-292-8989

www.iowaonecall.com

WEST DES MOINES, IOWA INDEX OF SHEETS

DESCRIPTION

COVER SHEET 1.0

TYPICAL SECTIONS AND DETAILS 2.0

TOPOGRAPHIC SURVEY AND DEMOLITION PLAN 3.0

4.0 DIMENSION AND HYDRANT COVERAGE PLAN

GRADING PLAN 5.0-5.1

EROSION AND SEDIMENT CONTROL PLAN 6.0-6.1

7.0-7.2 PAVEMENT AND STORM SEWER PLAN AND PROFILE

LANDSCAPE PLAN

NOTES

CONTACT WEST DES MOINES WATER WORKS AT LEAST ONE WEEK

14. WALLS CONSTRUCTED AT FOUR FEET IN HEIGHT OR OVER REQUIRE ENGINEERED DRAWINGS AND A BUILDING PERMIT SEPARATE FROM THE RESIDENTIAL BUILDING PERMIT.

EROSION CONTROL MEASURES WILL BE INSTALLED AND MONITORED BY OTHERS.
PRIVATE UTILITIES TO BE INSTALLED PER SUDAS SPECIFICATIONS.

FRIVALE UNLINES TO BE INSTALLED PER SUDAS SPECIFICATIONS.
ALL CONSTRUCTION WITHIN PUBLIC ROW/EASEMENTS, AND/OR ANY
CONNECTION TO PUBLIC SEWERS AND STREETS, SHALL
COMPLY WITH THE WEST DES MOINES STANDARD CONSTRUCTION
SPECIFICATIONS FOR SUBDIVISIONS AND DSM METRO DESIGN
STANDARDS.

CONTACT WEST DES MOINES WATER WORKS AT LEAST ONE WEEK PRIOR TO CONSTRUCTION.
ALL SIDEWALK CROSS SLOPES SHALL NOT EXCEED 1.5%.
CONSTRUCTION CANNOT BEGIN ON THE HOMES UNTIL A FINAL PLAT HAS BEEN REVIEWED AND APPROVED BY THE CITY COUNCIL.
ALL LONGITUDINAL SIDEWALK SLOPES SHALL NOT EXCEED 5%.
PRIVATE STREETS AND UTILITIES SHALL BE MAINTAINED BY THE OWNER, TO INCLUDE:
A. DETENTION POND AND APPURTENANCES
B. PRIVATE STORM SEWER
C. PRIVATE WATER MAIN AND SERVICES
E. ALL INTERNAL CIRCULATION ROADS
PRIOR TO CONSTRUCTION OF ANY PUBLIC IMPROVEMENTS
ASSOCIATED WITH THIS SUBDIVISION, CONSTRUCTION PLANS FOR SAID IMPROVEMENTS NEED TO BE SUBMITTED TO AND APPROVED BY THE CITY ENGINEER.

CITY ENGINEER.

10. AT LEAST ONE WEEK PRIOR TO ANY CONSTRUCTION WITHIN PUBLIC R.O.W./EASEMENTS AND/OR ANY CONNECTION TO PUBLIC SEWERS AND STREETS, THE CONTRACTOR SHALL CONTACT THE WOM ENGINEERING SERVICES 222—3475 TO SCHEDULE ANY REQUIRED INSPECTIONS. IT IS IMPORTANT TO NOTE CITY APPROVAL OF THIS PLAN IS SUBJECT TO THE APPLICANT OBTAINING ALL NECESSARY EASEMENTS (ACCEPTAGEMENTS AND APPLICANT OBTAINING ALL NECESSARY

PLAN IS SUBJECT TO THE APPLICANT OBTAINING ALL NECESSARY EASEMENTS/AGREEMENTS AND APPLICABLE PERMITS.

11. SIGNS, OVER STORY TREES, CONIFEROUS TREES, PRIVATE STREETLIGHT ETC. ARE NOT ALLOWED IN THE PUBLIC EASEMENTS.

12. THE GATED COMMUNITY WILL BE REQUIRED TO PROVIDE 24/7/365 ACCESS TO WDMWW CREWS. THIS CAN BE ACCOMPLISHED BY PROVIDING A KEY, KEY CARD, AND OR KEYPAD CODE.

13. WEST DES MOINES WATER WORKS RECOMMENDS AGAINST PLANTING TREES AND OTHER LANDSCAPING OVER PRIVATE WATER MAIN INFRASTRICTURES.

CIVIL DESIGN ADVANTAGE

3405 SE CROSSROADS DR. SUITE G, GRIMES, IOWA 50111 PH: (515) 369-4400 Fax: (515) 369-4410 PROJECT NO. 1909.460

GENERAL LEGEND

PROPOSED	
PROPERTY BOUNDARY	
SECTION LINE	
CENTER LINE	
RIGHT OF WAY	
BUILDING SETBACK	
PERMANENT EASEMENT	—P/EP/E
TEMPORARY EASEMENT	
TYPE SW-501 STORM INTAKE	[mm]
TYPE SW-502 STORM INTAKE	
TYPE SW-503 STORM INTAKE	
TYPE SW-505 STORM INTAKE	
TYPE SW-506 STORM INTAKE	O
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TYPE SW-513 STORM INTAKE	ST
TYPE SW-401 STORM MANHOLE	9
TYPE SW-402 STORM MANHOLE	<u>র</u>
FLARED END SECTION	
TYPE SW-301 SANITARY MANHO	DLE S
STORM/SANITARY CLEANOUT	o c
WATER VALVE	н
FIRE HYDRANT ASSEMBLY) 314-
SIGN	₩
DETECTABLE WARNING PANEL	₩
WATER CURB STOP SANITARY SEWER	
SANITARY SERVICE	
STORM SEWER	
STORM SERVICE	sr sr
WATERMAIN WITH SIZE	
WATER SERVICE	_www
SAWCUT (FULL DEPTH)	mmmmm
SILT FENCE	
USE AS CONSTRUCTED	(UAC)
MINIMUM PROTECTION ELEVATION	MPE

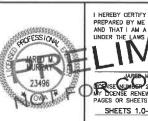
EXISTING	
SANITARY MANHOLE	(S)
WATER VALVE BOX)w X
FIRE HYDRANT	
WATER CURB STOP	Z 33 ⊄
WELL	Ower
STORM SEWER MANHOLE	(ST)
STORM SEWER SINGLE INTAKE	
STORM SEWER DOUBLE INTAKE	
FLARED END SECTION	
DECIDUOUS TREE	\odot
CONIFEROUS TREE	₩
DECIDUOUS SHRUB	<u> </u>
CONIFEROUS SHRUB	©
ELECTRIC POWER POLE	-
GUY ANCHOR	→
STREET LIGHT	○—≪
POWER POLE W/ TRANSFORMER	- ◆-
UTILITY POLE W/ LIGHT	\$
ELECTRIC BOX	[]E
ELECTRIC TRANSFORMER	E
ELECTRIC MANHOLE OR VAULT	Œ
TRAFFIC SIGN	
TELEPHONE JUNCTION BOX	T
TÉLEPHONE MANHOLE/VAULT	T
TELEPHONE POLE	- 6 -
GAS VALVE BOX	Ğ ⊠
CABLE TV JUNCTION BOX	ΤV
CABLE TV MANHOLE/VAULT	™
MAIL BOX	M
BENCHMARK	O _{BM}
SOIL BORING	-\$50
UNDERGROUND TV CABLE	
GAS MAIN	
FIBER OPTIC	
UNDERGROUND TELEPHONE	— - T T
OVERHEAD ELECTRIC	OEOE
UNDERGROUND ELECTRIC	EE
FIELD TILE	
SANITARY SEWER W/ SIZE	——————————————————————————————————————
STORM SEWER W/ SIZE	

THIS PROJECT REQUIRES AN IOWA NPDES PERMIT #2 AND CITY OF WEST DES MOINES GRADING PERMIT. CIVIL DESIGN ADVANTAGE WILL PROVIDE THE PERMITS AND THE INITIAL STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE CONTRACTORS USE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING THE SWPPP THROUGHOUT CONSTRUCTION AND MEETING LOCAL, STATE AND FEDERAL REQUIREMENTS.

WATER MAIN W/ SIZE

ALL CONSTRUCTION MATERIALS, DUMPSTERS, DETACHED TRAILERS OR SIMILAR ITEMS ARE PROHIBITED ON PUBLIC STREETS OR WITHIN THE PUBLIC R.O.W. THE MOST RECENT EDITION OF THE WEST DES MOINES STANDARD CONSTRUCTION SPECIFICATIONS FOR SUBDIVISIONS, THE 1993 DES MOINES METRO DESIGN STANDARDS WITH THE WEST DES MOINES ADDENDA, AND THE WEST DES MOINES WATER WORKS GENERAL SUPPLEMENTAL SPECIFICATIONS FOR WATER INFRASTRUCTURE SHALL APPLY TO ALL WORK ON THIS PROJECT UNLESS OTHERWISE NOTED.

THIS DESIGN SPECIFICALLY PREPARED FOR USE AT THE LOCATION SHOWN. USE IN ANY OTHER MANNER EXCEEDS THE INTENDED PURPOSE OF THESE DRAWINGS AND ANY ACCOMPANYING SPECIFICATIONS.



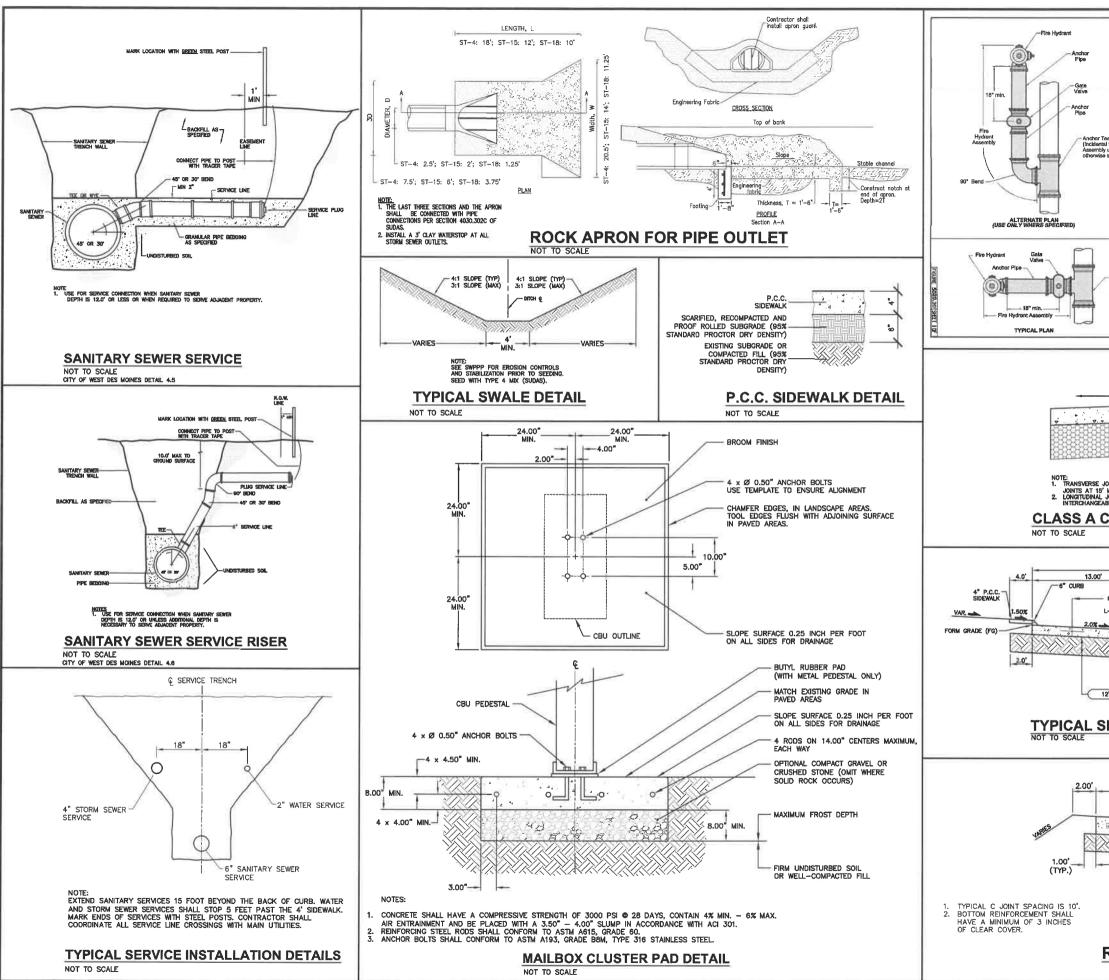
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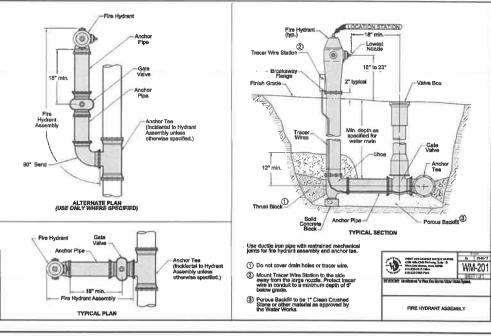
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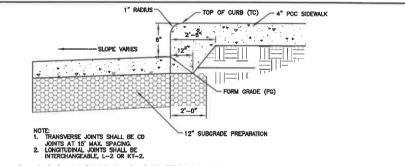
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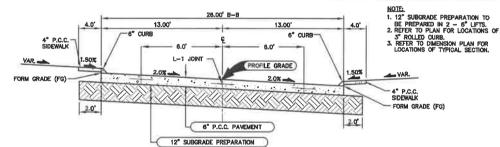
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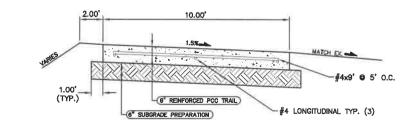




CLASS A CURB & SIDEWALK



TYPICAL SECTION - 26' P.C.C. ROADWAY



REINFORCED PCC TRAIL NOT TO SCALE

2.0

SECTIONS AND DETAILS

TYPICAL

PLAT

S

PINE

WILDER

3RD SUBMITTAL 2ND SUBMITTAL 1ST SUBMITTAL

(515) 369-4410

CWO

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ENGINEER: JMM

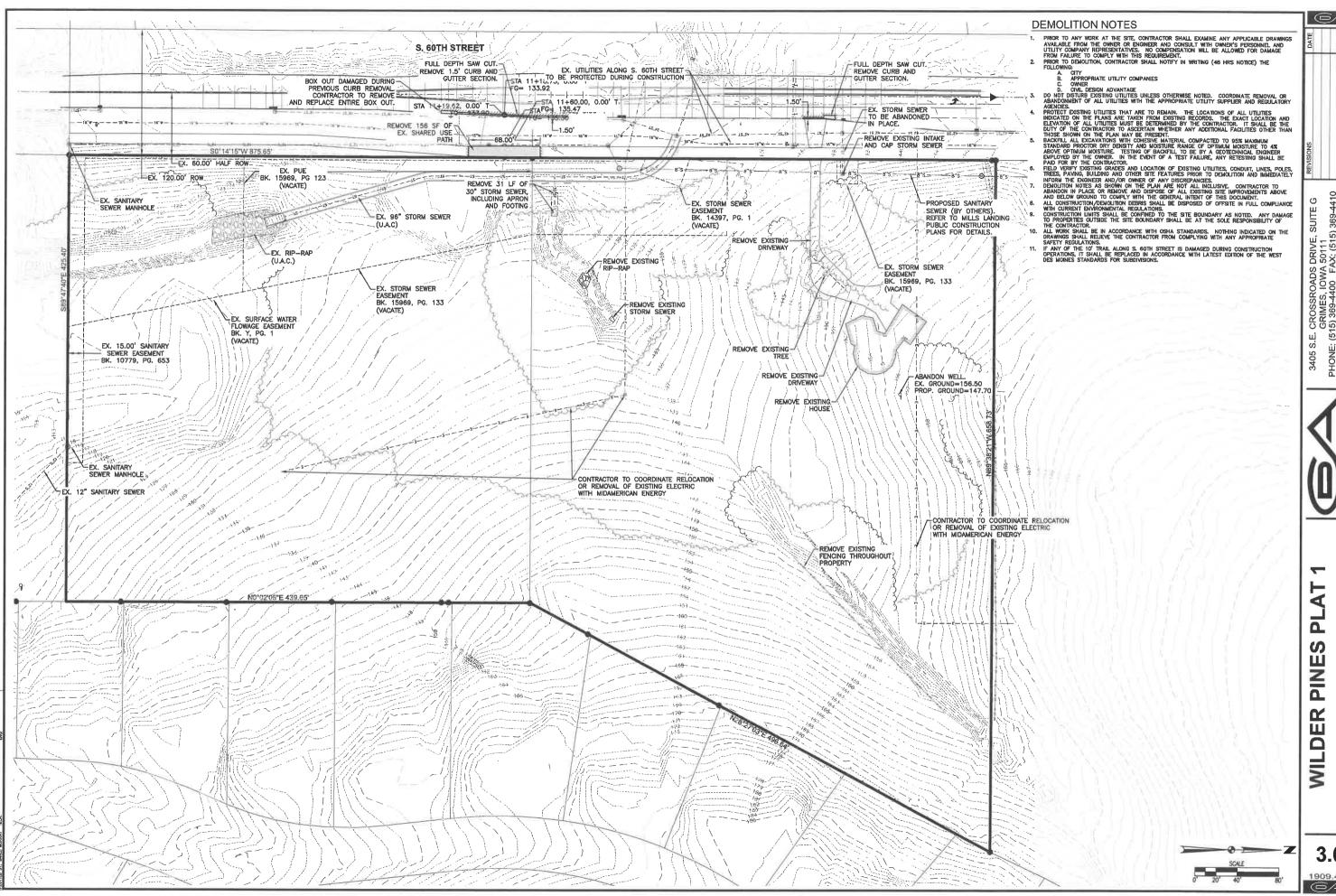
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SUITE

DRIVE, 50111 AX: (515

3405 S.E. CROSSROADS D GRIMES, IOWA 5 PHONE: (515) 369-4400 FAX

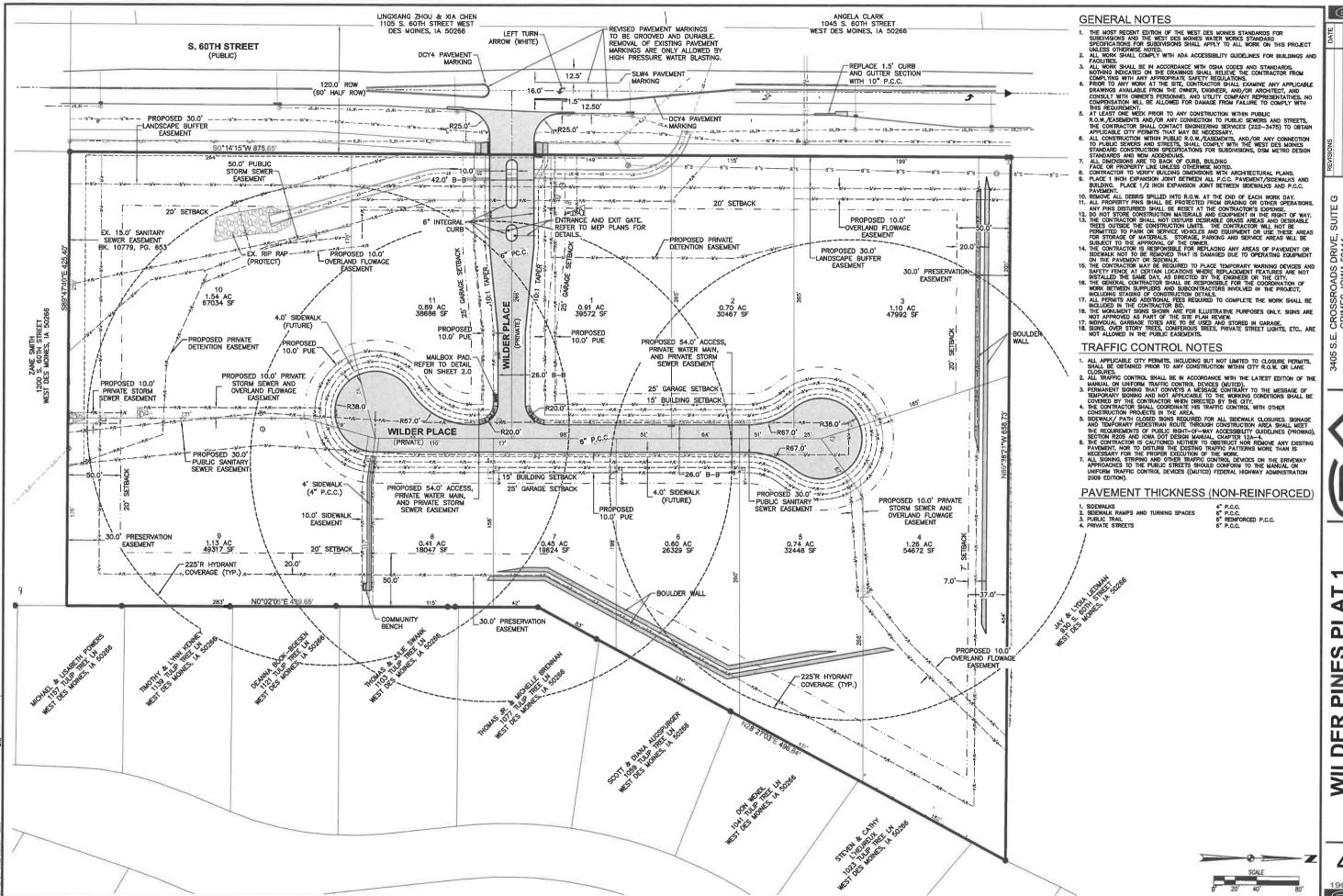
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(515) 369-4410 504 X: (蓝 S.E. CROSSROADS C GRIMES, IOWA 5 : (515) 369-4400 FA)

TOPOGRAPHIC SURVEY AND DEMOLITION

3.0



3RD 2ND 1ST

369-4410 CWO 3 - 12 501 X: (8 亩

S.E. CROSSR(GRIMES, : (515) 369-44(

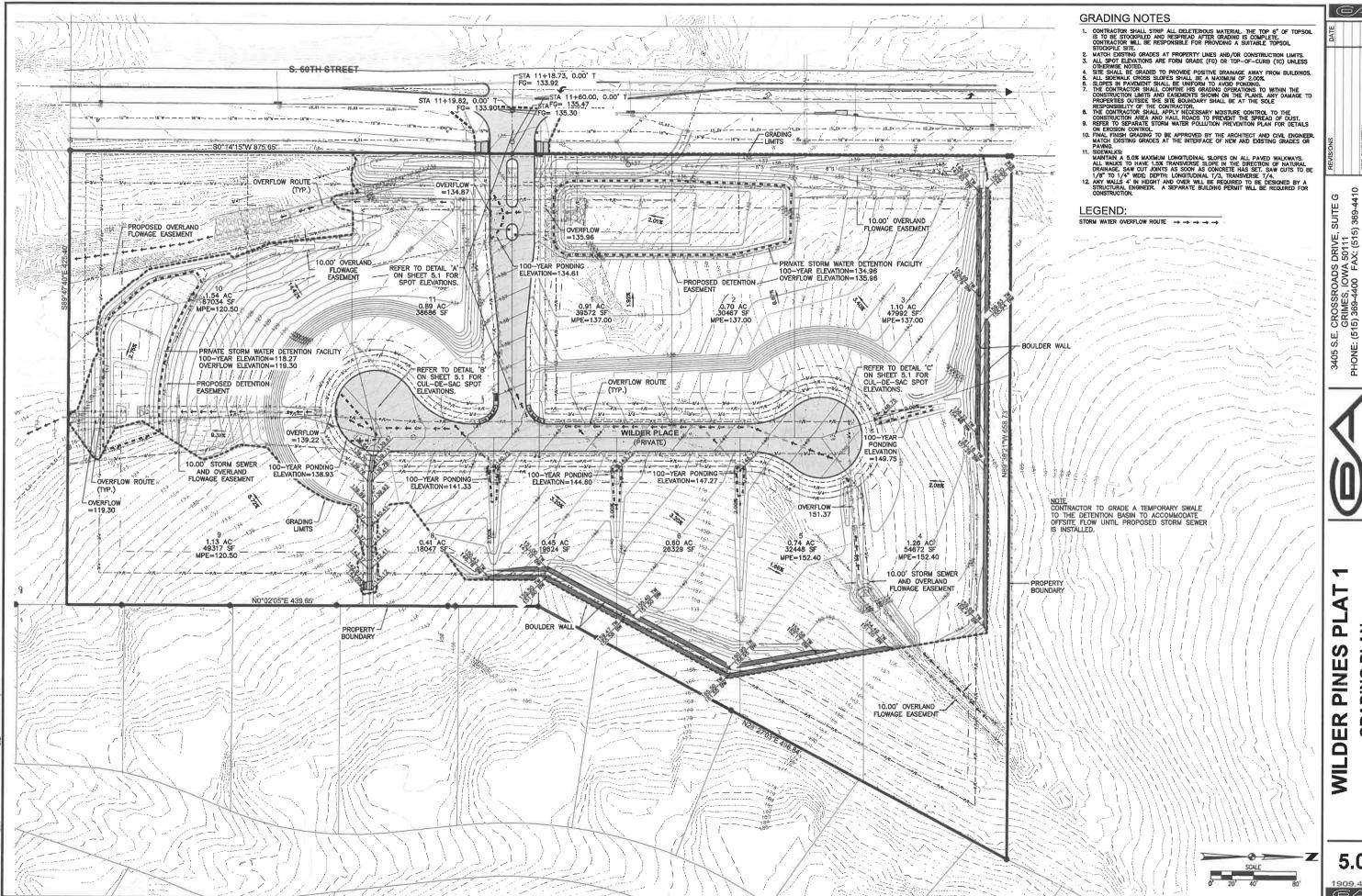
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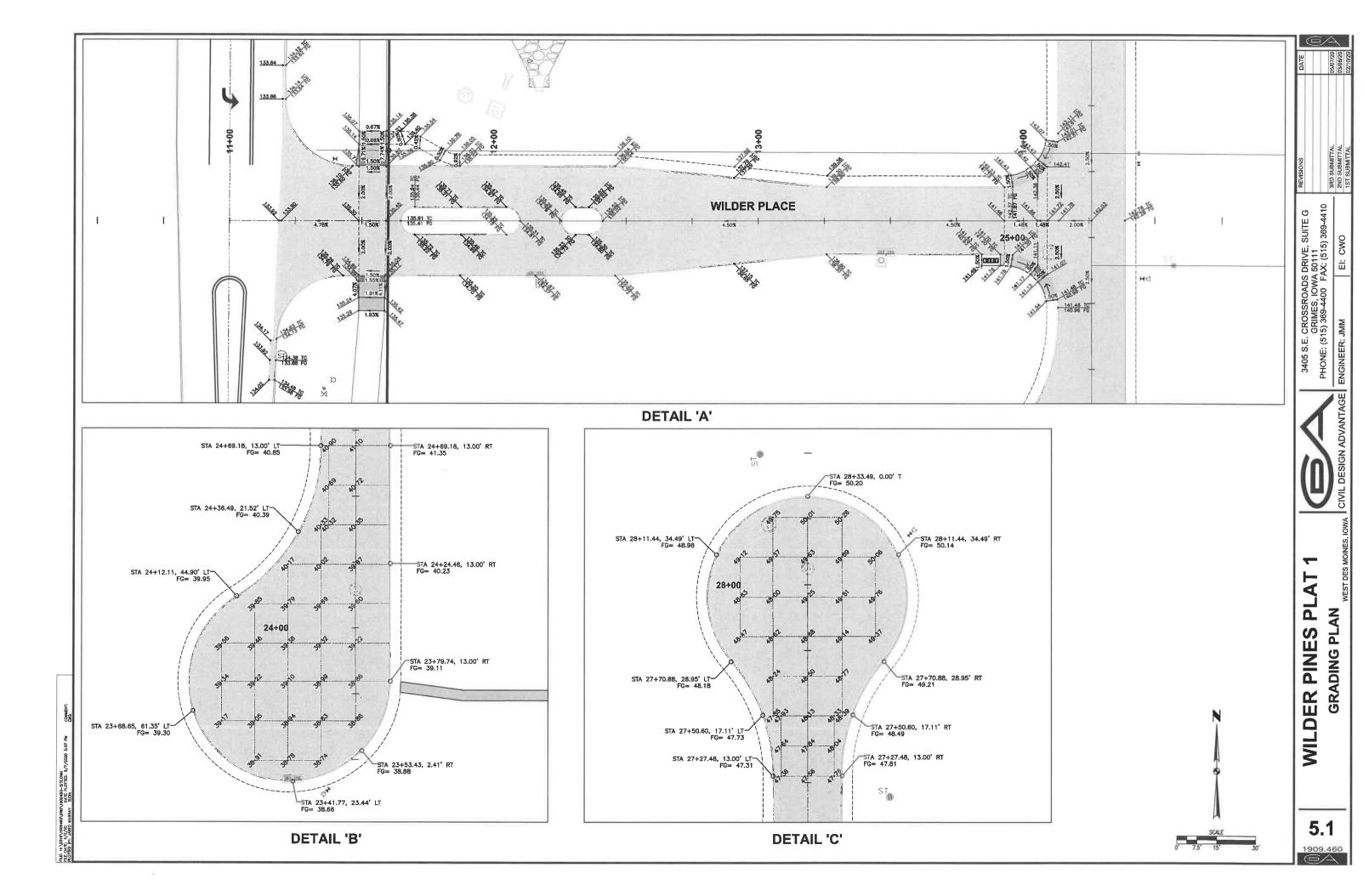


3RD 2ND

(515) 369-4410 CWO (苗)

GRADING PLAN

5.0



WILDER PINES PLAT 1

VICINITY MAP

NOT TO SCALE

EROSION AND SEDIMENT CONTROL PLAN

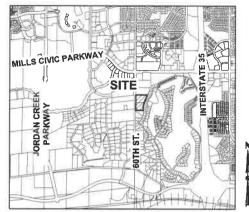
GRAVEL CONSTRUCTION EXIT-3" CRUSHED STONE

4.76 ACRES

17,136 CU FT

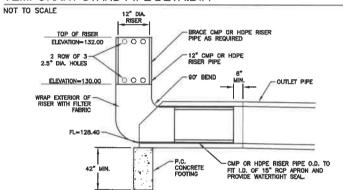
140 CU FT 3,882 CU FT 18,208 CU FT 22,230 CU FT

2.25 ACRES 8,100 CU FT

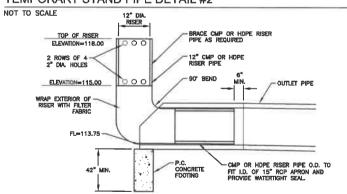


WEST DES MOINES. IOWA

TEMPORARY STAND PIPE DETAIL #1



TEMPORARY STAND PIPE DETAIL #2



OLVEDE LEGELIE

SWPPP LEGEND			
DRAINAGE ARROW	X.XX %	AREA TO BE SEEDED	
GRADING LIMITS		ANEA TO BE SCEDED	
FILTER SOCK		STRAW MAT	
SILT FENCE			××××××
DITCH CHECK		UNDISTURBED AREA	17212512
INLET PROTECTION	0	RIP-RAP	
PORTABLE RESTROOM	R	GRAVEL ENTRANCE	
TEMPORARY STANDPIPE	<u></u>	STAGING AREA	
CONCRETE WASHOUT PIT	1	TEMPORARY SEDIMENT BASIN	(TSB#)

& 150' MINIMUM LENGTH INLET PROTECTION S. 60TH STREET PROPOSED STAGING AREA CONCRETE-WITH CONTRACTOR) PROTECT EXISTING — — 16"W — — — 16"W — — — — 15"W — (POST-CONSTRUCTION DISCHARGE POINT # ±400 FEET TO AN UNNAMED TRIBUTARY OF MEASURE) DID DAD DETENTION BASIN (POST-CONSTRUCTION MEASURE) DETENTION BASIN (POST-CONSTRUCTION MEASURE\ SEE DETAIL #1 DA #1 DA #2 4.76 AC 2,25 AC TSB #2 INLET PROTECTION (TYP.) INLET PROTECTION (TYP.) INLET PROTECTION INSTALL TEMPORARY ±100 FEET TO AN UNNAMED TRIBUTARY OF SEE DETAIL #2 PROPERTY BOUNDARY NOTE CONTRACTOR TO GRADE A CONTRACTOR TO GRADE A TEMPORARY SWALE TO THE DETENTION BASIN TO ACCOMMODATE OFFSITE FLOW UNTIL PROPOSED STORM SEWER IS INSTALLED. PROPERTY LINDISTURBED

STABILIZATION QUANTITIES

	1		
ITEM NO.	ITEM	UNIT	TOTAL
1	SILT FENCE	LF	1,505
2	SEEDING, FERTILIZING, AND MULCHING	AC	6.27
3	INLET PROTECTION DEVICES	EA	10
4	CONCRETE WASHOUT PIT	EA	
5	18" PVC TEMPORARY STANDPIPE	EA	
6	15" PVC TEMPORARY STANDPIPE	EA	

DISCHARGE POINT SUMMARY

DISCHARGE POINT #1 TO UNNAMED TRIBUTARY OF RACCOON RIVER ±400 FT TOTAL AREA DISTURBED TO DISCHARGE POINT STORAGE VOLUME REQUIRED (# OF ACRES*3600 CU FT)

VOLUME PROVIDED IN FILTER SOCK (70 LF \oplus 2.0 CU FT/LF OF SOCK) VOLUME PROVIDED IN SILT FENCE (1307 LF \oplus 4.5 CU FT/LF OF FENCE) TOTAL VOLUME PROVIDED IN

DISCHARGE POINT #2 TO UNNAMED TRIBUTARY OF RACCOON RIVER ±100 FT STORAGE VOLUME REQUIRED (# OF ACRES*3600 CU FT)

VOLUME PROVIDED IN SILT FENCE (882 LF @ 4.5 CU FT/LF OF FENCE) VOLUME PROVIDED IN TSB TOTAL VOLUME PROVIDED

- NOTES:

 1. IF DEWATERING IS NEEDED FOR ANY REASON, DISCHARGE OF WATER OFFSITE IS TO CONFORM WITH THE GENERAL PERMIT #2 REQUIREMENTS.

 2. DISTINEED AREAS SHALL BE TEMPORARILY SEEDED OR MULCHED PRIOR TO THE SITE SHUTTING DOWN FOR WINTER CONDITIONS.

 3. PREPARATION OF SEED—BED:

 A. AREAS ACCESSIBLE TO MACHINERY: AREAS ACCESSIBLE TO FIELD MACHINERY SHALL BE THOROUGHT TO A LOOSE, FRIABLE CONDITION, AND SHALL BE PICKED FREE OF ROCKS AND CONCRETE CHUNKS IN EXCESS OF ONE INCH DIAMETER WHERE WEED GROWTH HAS DEVELOPED EXTENSIVELY, THE USE OF A DISK WILL BE ALLOWED BY THIS METHOD.

 B. AREAS INACCESSIBLE TO MACHINERY: AREAS INACCESSIBLE TO FIELD MACHINERY SHALL BE PREPARED BY HAND TO A DEPTH OF NOT LESS THAN ONE AND ONE—HALF INCHES. THE SOIL SHALL BE BROUGHT TO A LOOSE FRIABLE CONDITION.

 C. THE SEEDBED SHALL BE INSPECTED AND APPROVED BY THE CITY ENGINEER PRIOR TO SEEDING.

 4. PEZZETTI EROSION CONTROL LIC WILL BE RESPONSIBLE FOR INSTALLATION, PERIODIC CHECKING AND REINSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES.

 MIKE KOSLOSKE

 5.700 UNIVERSITY AVE, SUITE 220

 WEST DES MOINES, IA 50266

 PH. 515—967—06.39

 5. A STABILIZED ROCK CONSTRUCTION ENTRANCE IS PROVIDED TO HELP KEEP MUD AND DEBRIS FROM ENTERING THE PUBLIC R.O.W.

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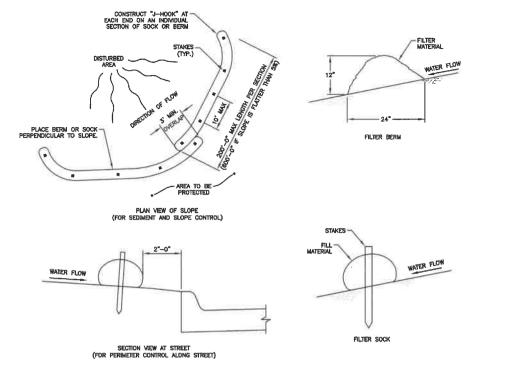
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SEDIMENT

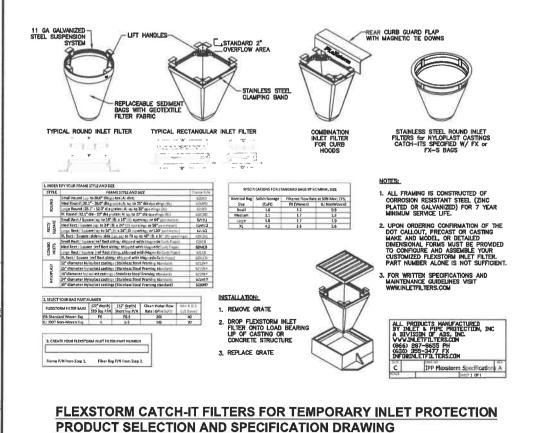
EROSION

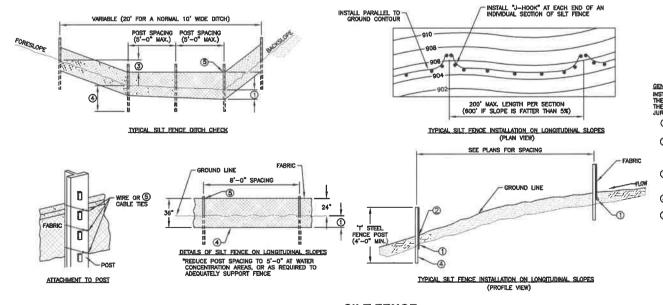
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TYPICAL PLACEMENT OF FILTER BERM OF SOCK





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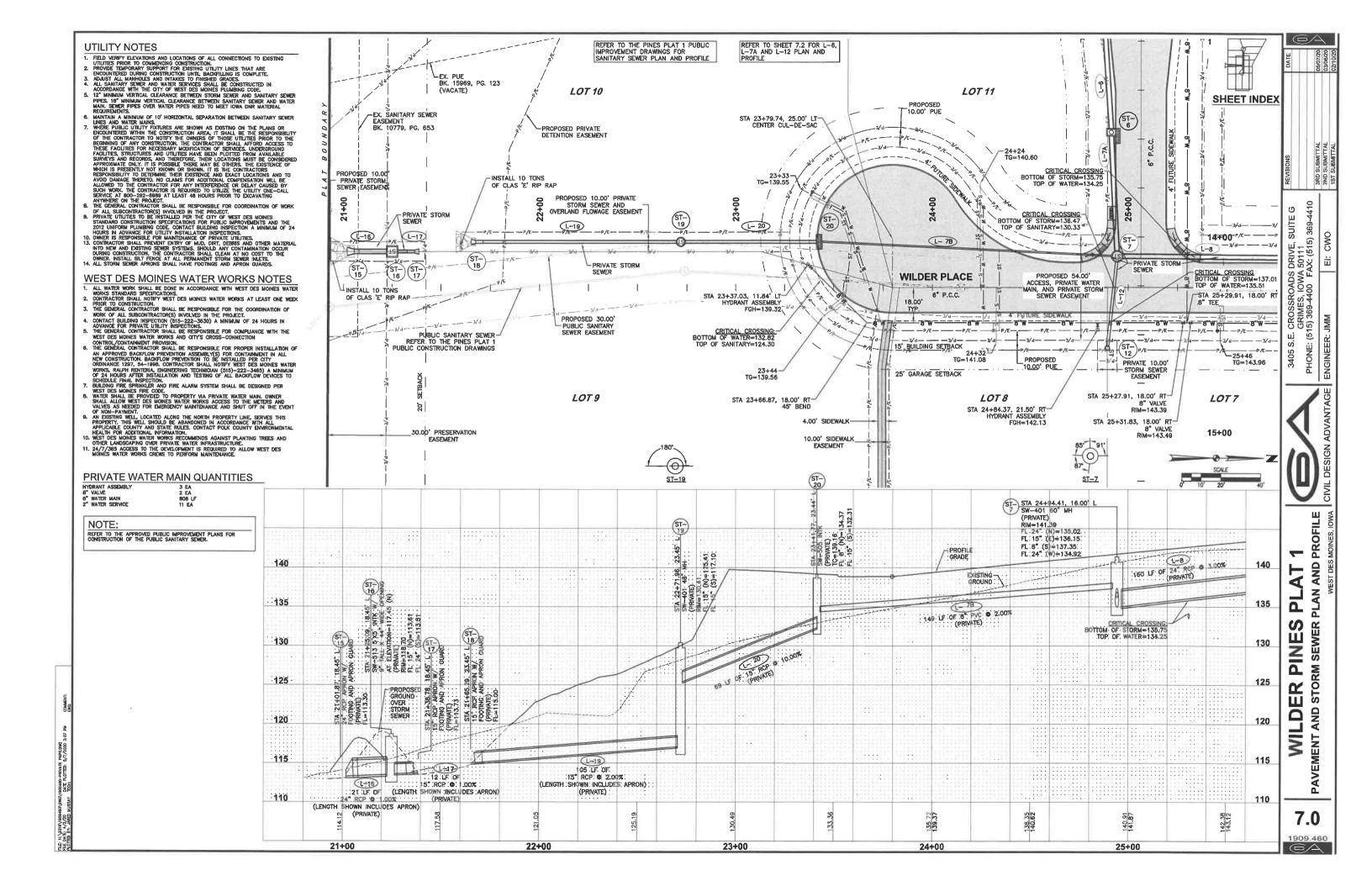
El: CWO

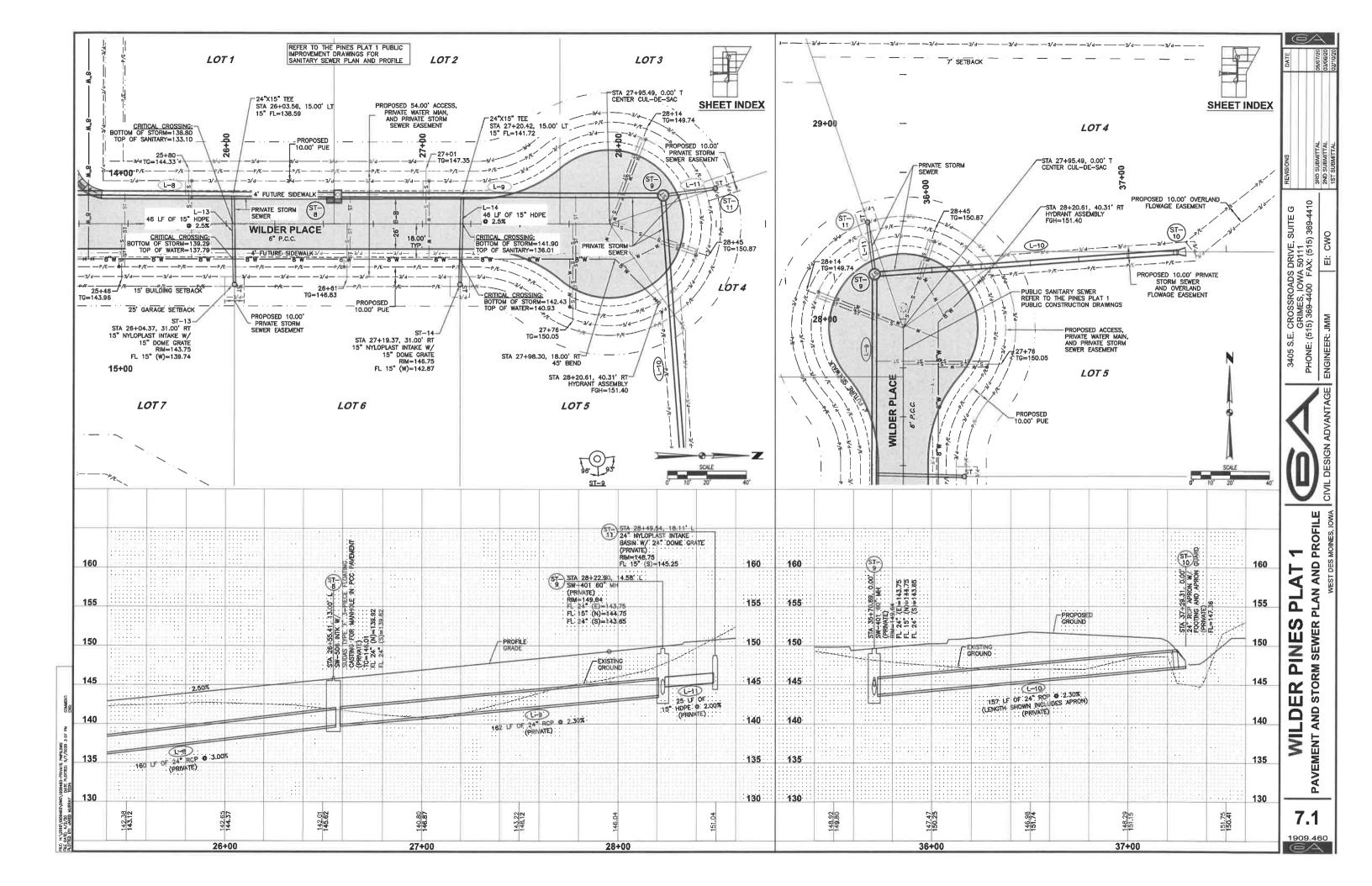
EROSION AND SEDIMENT CONTROL PLAN **WILDER PINES PLAT**

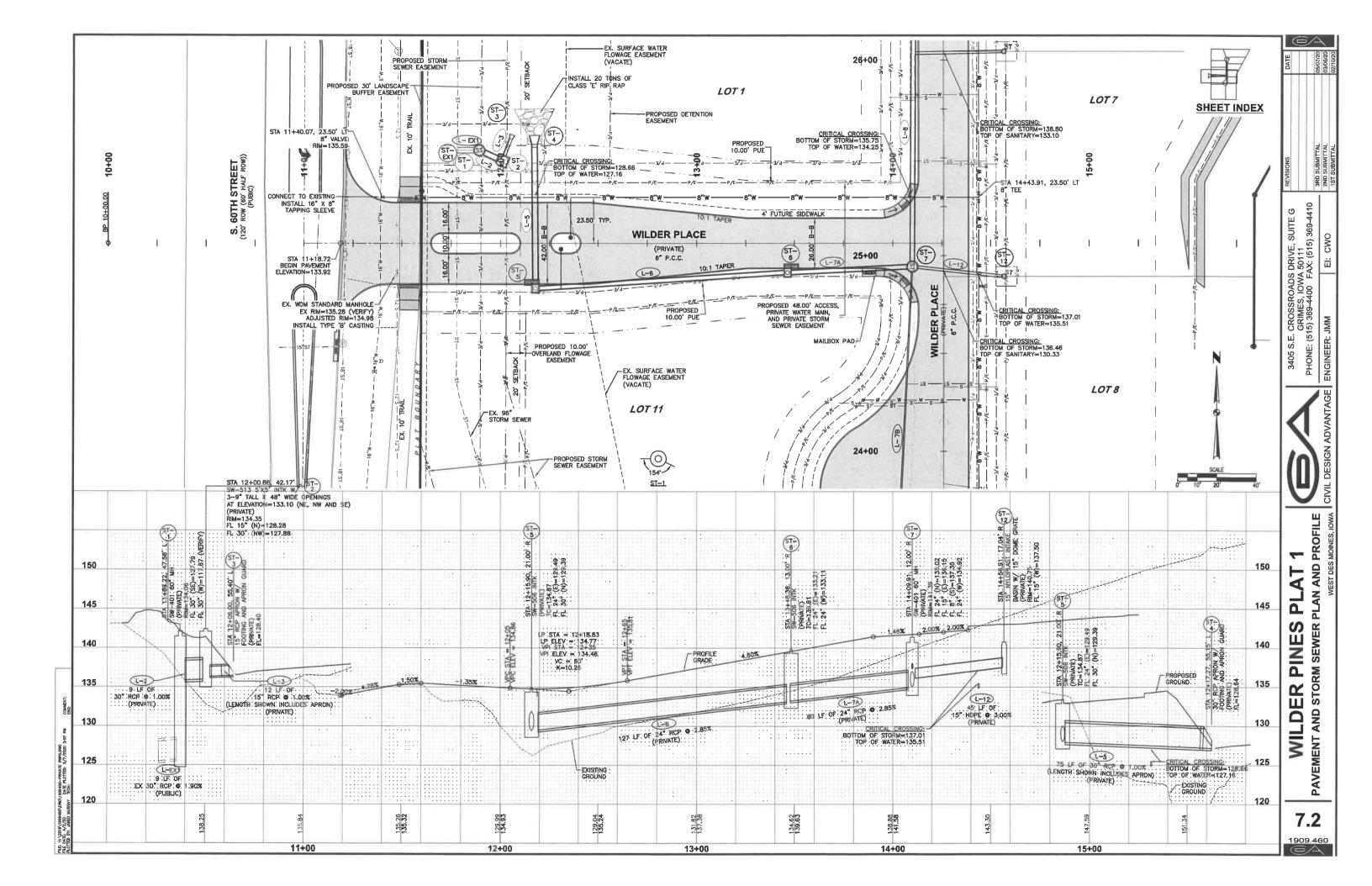
(5) SECURE TOP OF ENGINEERING FABRIC TO STEEL POSTS USING WIRE OR PLASTIC TIES (50 LB, MIN.). SEE DETAILS OF "ATTACHMENT TO POSTS."

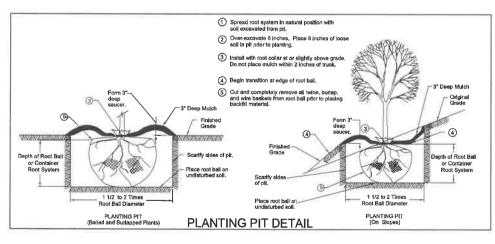
SILT FENCE











LANDSCAPE NOTES

LANDSCAPE NOTES

1. LOCATE ALL UTILITIES BEFORE ANY PLANTING BEGINS.
2. ALL CONSTRUCTION SHALL CONFORM TO THE MOST RECENT EDITION OF THE WEST DES MOINES STANDARDS FOR SUDMISIONS.
3. STANDARDS FOR SUDMISIONS.
3. OF THE AMERICAN STANDARD FOR NURSERY STOCK ANSI 760.1

4. ALL PLANT MATERIAL SHALL BE HEALTHY SPECIALISM WITHOUT DEFORMITIES, VOIDS AND OPEN SPACES, WITH WELL DEVELOPED BRANCH AND ROOT SYSTEMS; TRUE TO HEIGHT, SHAPE AND CHARACTER OF GROWTH OF THE SPECIES OR VARIETY.
5. SOD ALL AREAS ADJACENT TO BUILDINGS, SEED (TYPE 1) OR SOD ALL OTHER DISTURBED AREAS AS DIRECTED BY OWNER.
6. BRACKFILL TO TOP OF CURB, (MINUS 1 1/2" FOR SOD, IF REQ.)
7. WEED PREVENTERFREE—EMERGENT) SHALL BE SPREAD OVER SOIL AFTER PLANTING AND BEFORE MULCHING IN ALL PLANTING BEDS FOR MANUFACTURER'S RECOMMENDATIONS.
8. SHREDDED HARDWOOD MULCH SHALL BE PLACED ARQUIND ALL TREES, SHRUBS AND IN ALL PLANTING BEDS TO A (MIN) DEPTH OF 3". ALL GROUPS OF MORE THAN ONE SHRUB SHALL BE MULCHED IN A CONTINUOUS BED.
9. ALL EDGING SHALL BE 3/16" STEEL EDGING.
10. PLANT QUANTITIES ARE SHOWN FOR INFORMATION ONLY, THE DRAWING SHALL PREVAIL FANY CONFLICTS ARISE.
11. ALL DEBRIS SPILLED IN THE PUBLIC R.O.W. SHALL BE PICKED UP BY THE CONTRACTOR AT THE END OF EACH WORK DAY.
2. CONTRACTOR SHALL WARRANTY ALL PLANT MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF INSTALLATION.
13. NO OVERSTORY TREES SHALL BE PLANTED IN ANY CITY OF WEST DES MOINES PUBLIC UTILITY EASEMENT.

MINIMUM PLANT SIZES

WITH WORT LATE OIZEO	
DECIDUOUS OVERSTORY TREES	=2" CAL
DECIDUOUS OVERSTORY TREES (CLUMP)	=1" CAL
EVERGREEN TREES	=6' HEIGHT
ORNAMENTAL TREES	=1.5" CAL
DECIDUOUS SHRUBS (5"+)	=36" HEIGH
DECIDUOUS SHRUBS (3'-5")	=24" HEIGH
DECIDUOUS SHRUBS (0-3')	=15" HEIGHT

30' BUFFER REQUIREMENTS

A LANDSCAPED AND BERMED AREA OF NOT LESS THAN THIRTY FEET (30") IN WIDTH COMPRISED OF LANDSCAPE PLANTINGS. THE EQUIVALENT OF ONE OVERSTORY TREE OR UPRIGHT EVERGREEN TREE, TWO (2) UNDERSTORY TREES AND SIX (8) SHRUBS SHALL BE PROVIDED PER THIRTY FIVE (35) LINEAR FEET OF THE BUFFER PARK.

PLANT SUBSTITUTIONS

- (2) ORNAMENTAL TREES = (1) OVERSTORY TREE OR EVERGREEN
 (10) SHRUBS = (1) UNDERSTORY TREE
- . NO MORE THAN 50% OF THE REQUIRED PLANT TYPE MAY BE SUBSTITUTED.
- •AT LEAST 35% OF TREES REQUIRED ON SITE SHALL BE EVERGREEN.
 TOTAL TREES REQUIRED = 74
 EVERGREENS REQUIRED = 28 (35%)
 EVERGREENS PROVIDED = 28 (35%)

PLANT S	SCHED	ULE		
TREES	QTY	COMMON NAME	BOTANICAL NAME	CONDITION AND SIZE
Œ	12	Eastern Redbud Multi-trunk	Cercia canadensia	B&B, 1.5" CALIPER
MP	15	Prairifire Crab Apple	Malus x 'Proirifire'	B&B, 1.5" CALIPER
MS	12	Spring Snow Crab Apple	Malus x 'Spring Snow'	B&B, 1.5" CALIPER
PG	14	Colorado Blue Spruce	Picea pungena 'Glauca'	B&B, 6' HEIGHT
PN	11	Newport Flowering Plum	Prunus cerasifera 'Newport'	B&B, 1.5" CALIPER
PS	12	White Pine	Pinus strobus	B&B, 6" HEIGHT
SHRUBS	QTY	COMMON NAME	BOTANICAL NAME	CONDITION AND SIZE
a	19	Isanti Redosier Dogwood	Cornus sericea 'leanti'	36" HT.
EC	50	Compact Burning Bush	Euonymus alatus 'Compactus'	24" HT.
JF	78	Sec Green Juniper	Juniperus chinensis 'Sea Green'	24" HT.



PLAT PLAN

3RD 2ND 1ST

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PINES LANDSCAPE DER. **M**

