CITY OF WEST DES MOINES PLAN AND ZONING COMMISSION COMMUNICATION

Meeting Date: July 22, 2019

Item: Courtyards at King's Landing, Northeast corner of S. 100th Street and Stagecoach

Drive - Subdivide property into 79 footprint lots, 1 street lot and 2 outlots -

Caliber Iowa LLC - PP-004322-2019

Requested Action: Recommend Approval of Preliminary Plat

Case Advisor: J. Bradley Munford

Applicant's Request: Eric Cannon of Snyder and Associates, on behalf of the applicant, Caliber Iowa, LLC. and with permission of the property owner, Sugar Creek Estates, LLC. is requesting approval of a Preliminary Plat for approximately 24.6 acres located at Northeast corner of S. 100th Street and Stagecoach Drive. The applicant proposes to subdivide the property into 79 footprint lots for the future development of detached townhomes, one street lot for dedication to the City, 1 outlot for area to be dedicated to the City as part of Parkland Dedication requirements and 1 outlot for the private streets, stormwater detention areas and common ground within the development. Review of the associated site plan will be brought to the Plan and Zoning Commission and City Council at an upcoming meeting after site plan and architecture details are resolved.

<u>History</u>: The property was annexed into the City in 2002 as a part of the Mills Civic Parkway Annexation. The Medium Density Comprehensive Plan designation was established in September of 2010. On April 15, 2019 the City Council approved a zoning request to consistency zone the property as Residential Medium Density (RM-8).

<u>City Council Subcommittee</u>: The Courtyards at King's Landing (fka Courtyards at Sugar Creek) was presented to Development and Planning Subcommittee as an informational item at the May 20, 2019 meeting. The Subcommittee was supportive of the development.

<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. Staff would note the following:

- Easternmost Access from Stagecoach Drive: The narrow triangular shape of this property along with topography and existing infrastructure has made providing two points of access to the development challenging. When driving west on Stagecoach Drive, you encounter a hill that slopes down towards Sugar Creek and the recently built bridge that crosses the creek. The 800 feet on the north side of Stagecoach beginning at the west end of the bridge is the entire frontage of the applicant's property. Within these 800 feet, the site needs to provide 2 points of access that comply with the Fire Code, meet the separation distance and expected turn lane storage requirements between the two drives and provide safe sight distance for drivers accessing Stagecoach Drive from the easternmost drive within the development. The topography and proximity of the drive to the bridge make it difficult to strictly comply with code and the desired sight distance. To address this issue and eliminate the need to sprinkler more than half of the dwellings until an alternate secondary access can be provided for the development, the applicant is proposing that the easternmost access into the site be a one-way in only drive. The one-way in only drive will eliminate outbound traffic turning onto Stagecoach Drive from the intersection reducing the possibility of vehicle crashes due to limited sight distance because of the bridge. While eastbound traffic has more visibility of west-bound traffic, staff still has concerns with the accident potential, especially when Stagecoach Drive is widened in the future. Staff is comfortable with using the one-way in only drive in the interim, but recommends a condition of approval that address the maximum width of the drive and the addition of traffic control signage and road markings, as well as a condition that requires the developer execute an agreement in conjunction with the Final Plat acknowledging an agreeing that the easternmost drive will be disconnected from Stagecoach Drive upon provision of a secondary access point to the development. Whether the balance of the drive will need to be removed will be decided by the homeowner's association and would be at the association's expense.
- <u>Parkland Dedication</u>: Per City Code, parkland dedication is required of all residential developments creating more than three new dwellings. Based on the proposed 79 dwelling units, this development is required to

dedicate 1.41 acres. Additionally, per an arrangement when the Majestic Oaks development immediately to the east was platted (under the same ownership at the time), this development is required to provide their parkland dedication as well. This results in another .29 acres of dedication for a total of 1.7 acres. Sugar Creek runs along the entire eastern boundary of the development with a continuous public trail planned for along the creek and extending from the Raccoon River to the northwestern edge of the City (I-80). The developer will be dedicating to the City all the ground from the centerline of Sugar Creek to a line generally 10 feet west of the planned trail (identified as Outlot 'X' on the plat drawing). The dedication of the ground fulfills their obligations, therefore, the trail itself will be constructed by the City.

- Sanitary Sewer Connection Fees: As part of the Tiburon development to the north, the developer paid the Grand Avenue West Sanitary Sewer Connection Fee District per acre fee on ground being required as part of parkland dedication but was not required to pay fees for any excess parkland ground that was dedicated to the City. Consistent with that done as part of the Tiburon development, Staff recommends that this same approach be applied to the ground included in Outlot 'X' (115,003 square feet or 2.64 acres) resulting in fees being paid on 1.7 acres, but not on the balance 0.94 acres. The Grand Avenue West Sanitary Sewer Fee District per acre fee at this time is \$4,940.00. It should be noted, any reduction in Water District fees would need to be negotiated directly with West Des Moines Water Works.
- Sugar Creek Buffer and Measuring of Setback: Some of the bends in Sugar Creek are known to experience bank erosion issues due to water volumes and velocity during heavy rains. Rather than have these areas be part of private homeowner's properties requiring individuals to figure out how to address the erosion, the City prefers these areas be located outside of the boundaries of their lots. While the ground could be retained in an outlot and maintained by a homeowner's association, ideally the City will obtain ownership thus allowing for stream bank maintenance as necessary. As outlined in a previous bullet, in conjunction with the provision of parkland dedication, the developer will be dedicating the ground immediately adjacent to the west side of the creek which will allow the City to maintain Sugar Creek banks as needed and appropriate. Since this area is located within the current plat boundaries and the development is utilizing footprint lots which does not give individual residents any rights to install amenities outside of the defined building footprint, unlike traditional single-family detached lots which have 'rear yards' for personal amenities, the applicant may use the area within outlot 'X' to fulfill the 35' rear yard setback required along the east.
- <u>Private Streets</u>: The developer is proposing private streets within the development. The City does not currently have any restrictions against the implementation of private streets. A homeowner's association will need to be established in conjunction with the recordation of the Final Plat identifying the association's responsibility for snow removal and on-going maintenance and repair of the roadways. It should be noted that the private streets do not meet City standards for right-of-way and do not accommodate the provision of sidewalks while providing minimum required driveway lengths and therefore would not be eligible in the future to be dedicated to and/or maintained by the City as a public street.

The private street stub at the northwest corner of the development could possibly create a situation where a future public street from the west connects to the private streets within this development creating a situation in which general public traffic would be utilizing the private streets. Additionally, since the connection would likely not include a turnaround for City service vehicles. To allow for City vehicles and the general public to drive through the development to reach Stagecoach Drive. Staff recommends a condition of approval that the applicant execute a public access easement prior to consideration of the associated Final Plat by the City Council.

<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:

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 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 Courtyards at King's Landing Preliminary Plat to create 79 footprint lots, one street lot, one outlot for area to be dedicated to the City as part of Parkland Dedication requirements and one outlot for the private streets, stormwater detention areas and common ground within the development, subject to the applicant meeting all City Code requirements and the following conditions of approval:

- 1. The applicant acknowledging and agreeing that the easternmost access to Stagecoach Drive is temporary and will be disconnected from Stagecoach Drive when the planned connection to the west is completed. The applicant will need to execute a formal agreement acknowledging and agreeing to such for recordation with the Final Plat.
- 2. The applicant acknowledging and agreeing that the easternmost access drive off Stagecoach Drive is a one-way in only drive and shall remain as such until it is disconnected from Stagecoach Drive. Additionally, while the drive is in use as an access from Stagecoach Drive, the developer shall restrict the drive to a maximum of 20 feet in width and install and maintain appropriate traffic control design measures acceptable to the City, as well as all pavement markings and signage in accordance with MUTCD requirements to inform drivers that the easternmost drive is a one-way in only drive. Finally, the applicant ensuring enforcement as an access-in only drive. Upon removal, the developer will need to modify signage to indicate it as a dead-end.
- 3. The City Council allowing all excess ground included in Outlot 'X' adjacent to Sugar Creek beyond that required as part of Parkland Dedication be exempted from payment of Grand Avenue West Sanitary Sewer Connection Fees.
- 4. The applicant acknowledging and agreeing to execute a public access easement that will allow City vehicles and the general public to drive through the development to access Stagecoach Drive prior to City Council consideration of the associated Final Plat.
- 5. The applicant acknowledging and agreeing to submit a revised preliminary plat that reflects minor revisions requested by Staff prior to City Council consideration of the preliminary plat.
- 6. The applicant acknowledging that prior to issuance of any building permits for buildings within The Courtyards at Kings Landing development, that the associated Final Plat must be approved by the City Council and recorded with Dallas County.

https://wdmiowa.sharepoint.com/sites/ds/CommDev Documents/___Development Projects/Courtyards at Kings Landing (fka Courtyards at Sugar Creek or Sugar Creek Estates)/Courtyards at Kings Landing (fka Courtyards at Sugar Creek) Preliminary Plat and Site Plan/PP-004322-2019 SR Courtyards at Kings Landing PZ 07-22-2019.docx

Applicant: Caliber Iowa LLC

Nick Jensen

720 86th Street, Suite 120 West Des Moines, Iowa 50266

Nick@caliberiowa.com

Applicant Representative: Snyder and Associates

Eric Cannon

2727 SW Snyder Blvd Ankeny, IA 50023

Ecannon@snvder-associates.com

ATTACHMENTS:

Attachment A - Plan and Zoning Commission Resolution

Exhibit A - Conditions of Approval

Attachment B - Location Map
Attachment C - Preliminary Plat

RESOLUTION NO. PZC-19-059

A RESOLUTION OF THE PLAN AND ZONING COMMISSION OF THE CITY OF WEST DES MOINES, RECOMMENDING TO THE CITY COUNCIL THAT IT APPROVE COURTYARDS AT KING'S LANDING PRELIMINARY PLAT TO SUBDIVIDE THE PROPERTY INTO 79 FOOTPRINT LOTS, ONE STREET LOT AND 2 OUTLOTS FOR PARKLAND DEDICATION AND PRIVATE STREETS, STORMWATER DETENTION AND COMMON AREAS WITHIN THE DEVELOPMENT.

WHEREAS, pursuant to the provisions of Title 10, Chapter 1 et seq, of the West Des Moines Municipal Code, the applicant, Caliber Iowa LLC, has requested approval for a Preliminary Plat (PP-004322-2019) to create 79 footprint lots, one public street lot, one outlot for parkland dedication and one outlot for private streets, stormwater detention and common areas within the development on the 24.6 acre site located at Northeast corner of S. 100th Street and Stagecoach Drive; 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 July 22, 2019, this Commission held a duly-noticed public meeting to consider the application for Courtyards at King's Landing Preliminary Plat (PP-004322-2019).

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.

SECTION 2. PRELIMINARY PLAT (PP-004322-2019) to subdivide the property into 79 footprint lots, one street lot and 2 outlots, 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.

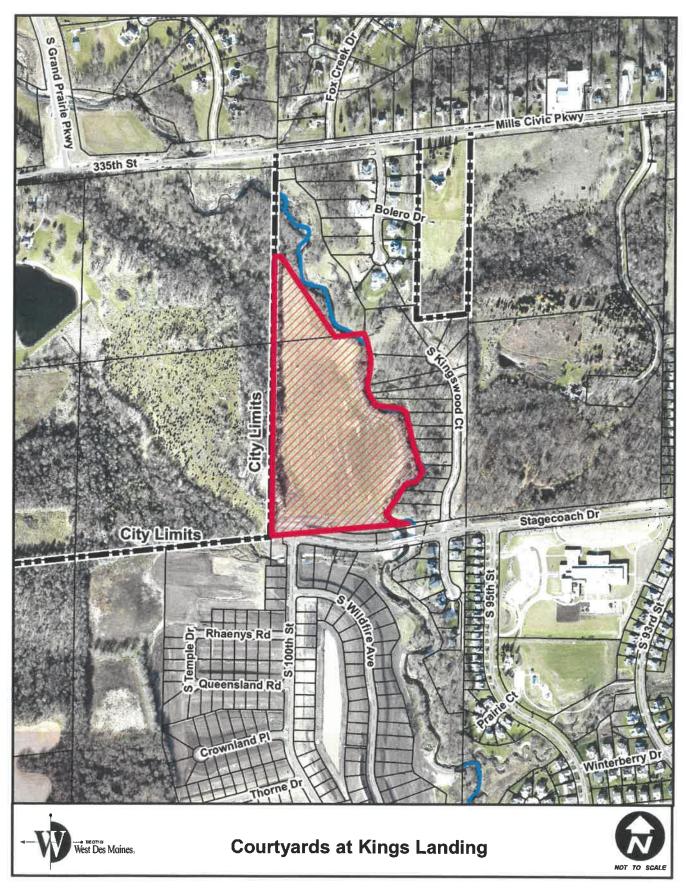
PASSED AND ADOPTED on July 22, 2019.

ATTEST:	Erica Andersen, Chairperson Plan and Zoning Commission
Recording Secretary	
I HEREBY CERTIFY that the foregoing resolution was d West Des Moines, Iowa, at a regular meeting held on July	uly adopted by the Plan and Zoning Commission of the City of 22, 2019, by the following vote:
AYES: NAYS: ABSTENTIONS: ABSENT:	
ATTEST:	
Recording Secretary	

https://wdmiowa.sharepoint.com/sites/do/Comm/Dev/Documents/ Development Projects/Courtyards at Kings Landing (fka Courtyards at Sugar Creek) Preliminary Plat and Site Plan/PP-004322-2019 SR Courtyards at Kings Landing 12 07-22-2019 docx

Exhibit A CONDITIONS OF APPROVAL

- 1. The applicant acknowledging and agreeing that the easternmost access to Stagecoach Drive is temporary and will be disconnected from Stagecoach Drive when the planned connection to S. Grand Prairie Parkway is completed to the west. The applicant will need to execute a formal agreement acknowledging and agreeing to such for recordation with the Final Plat.
- 2. The applicant acknowledging and agreeing that the easternmost access drive off Stagecoach Drive is a one-way in only drive and shall remain as such until it is disconnected from Stagecoach Drive. Additionally, while the drive is in use as an access from Stagecoach Drive, the developer shall restrict the drive to a maximum of 20 feet in width and install and maintain appropriate traffic control design measures acceptable to the City, as well as all pavement markings and signage in accordance with MUTCD requirements to inform drivers that the easternmost drive is a one-way in only drive. Finally, the applicant ensuring enforcement as an access-in only drive. Upon removal, the developer will need to modify signage to indicate it as a dead-end.
- 3. The City Council allowing all excess ground included in Outlot 'X' adjacent to Sugar Creek beyond that required as part of Parkland Dedication be exempted from payment of Grand Avenue West Sanitary Sewer Connection Fees.
- 4. The applicant acknowledging and agreeing to execute a public access easement that will allow City vehicles and the general public to drive through the development to access Stagecoach Drive prior to City Council consideration of the associated Final Plat.
- 5. The applicant acknowledging and agreeing to submit a revised preliminary plat that reflects minor revisions requested by Staff prior to City Council consideration of the preliminary plat.
- 6. The applicant acknowledging that prior to issuance of any building permits for buildings within The Courtyards at Kings Landing development, that the associated Final Plat must be approved by the City Council and recorded with Dallas County.



WEST DES MOINES, IA

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LANDING

KINGS

AT

COURTYARDS

SHEET

TITLE

PRELIMINARY PLAT

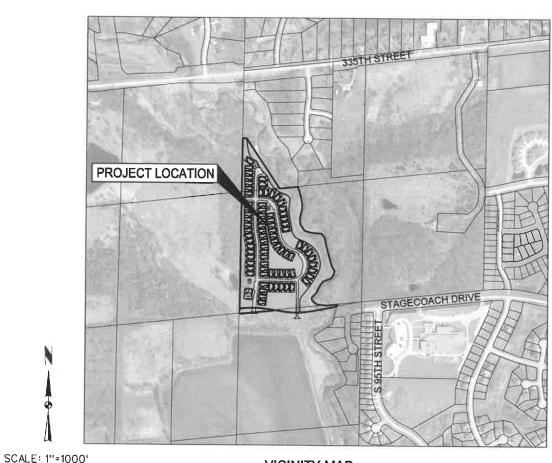
FOR

COURTYARDS AT KINGS LANDING

SINGLE FAMILY RESIDENTIAL DEVELOPMENT CITY OF WEST DES MOINES, DALLAS COUNTY, IOWA

APPLICANT

OWNER



VICINITY MAP

INDEX OF SHEETS

- 1. TITLE SHEET
- 2. PROJECT INFORMATION
- 3. OVERALL SITE LAYOT PLAN
- 4. OVERALL GRADE PLAN
- 5-8. DIMENSION AND UTILITY PLAN
- 9-12. STORM SEWER PLAN
- 13-16. GRADING AND EROSION CONTROL PLAN
- 17-19. PLANTING NOTES AND DETAILS
- 20. INTERSECTION AND MISCELLANEOUS DETAILS



ara F. Guidenpfennig, ASLA

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My License Renewal Date is December 31, 2019 Pages or sheets covered by this sent:

Sheets 1-16, 20

SNYDER & ASSOCIATES

> Project No: 117,0693A Sheet 1 of 20

Spritgry Manhale

Features	Existing	Proposed
Spot Elevation Contour Elevation Fence (Barbed, Field, Hog) Fence (Chain Link)	93.0 93 xx	*93.0 *93~
Fence (Wood) Fence (SR) Tree Line Tree Stump	~~~	
Deciduous Tree or Shrub.	\odot	\odot
Conferous Tree or Shrub	O	0
Communication Overhead Communication Fiber Optic Under ground Electric Overhead Electric Gas Main with Size High Pressure Gas Main with Size Water Main with Size Sanitary Sewer with Size Duct Bank Test Hole Location for SUE w/ID		C

(*) Denotes the survey quality service level for utilities

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Storm Sewer with Size	12" ST	12" 5
Storm Manhale Single Storm Sewer Intake	0	•
Dauble Starm Sewer Intake		ᅮ
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Water Main Valve	₩.	100
Water Service Valve	8	8
Well Utility Pole	@	
Guy Anchor	- Φ- Υ	
Utility Pole with Light	0-≪	
Utility Pole with Transformer Street Light	⊕ ¤ D-cri-	

Guy Anchor	T
Utility Pole with Light	0~
Utility Pole with Transformer	
Street Light	
Yard Light	þ
Electric Box	
Electric Transformer	E
Traffic Sign	
Communication Pedestal	¢
Communication Manhole	0
Communication Handhole	(C)
Fiber Optic Manhole	0
Fiber Optic Handhale	rion .
Gas Valve	(F)
Gas Marihole	G
Gas Apparatus	G
Fence Post or Guard Post	
Underground Storage Tank	CUST:
Above Ground Storage Tank	
Sign	OZZD
Contains Pro-	
Satelite Dish	æ
Malibox	•
Soil Boring	

UTILITY QUALITY SERVICE LEVELS

QUALITY LEVELS OF UTILITIES ARE SHOWN IN THE PARENTHESES WITH THE UTILITY TYPE AND WHEN APPLICABLE, SIZE. THE QUALITY LEVELS ARE BASED ON THE CI/ ASCE 38-02 STANDARD.

QUALITY LEVEL (D) INFORMATION IS DERIVED FROM EXISTING UTILITY RECORDS OR ORAL RECOLLECTIONS.

QUALITY LEVEL (C) INFORMATION IS OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION WITH OUALITY O INFORMATION.

QUALITY LEVEL (B) INFORMATION IS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES.

QUALITY LEVEL (A) IS HORIZONTAL AND VERTICAL POSITION OF UNDERGROUND UTILITIES OBTAINED BY ACTUAL EXPOSURE OR VERIFICATION OF PREVIOUSLY EXPOSED SUBSURFACE UTILITIES, AS WELL AS THE TYPE, SIZE, CONDITION, MATERIAL, AND OTHER CHARACTERISTICS.

UTILITY WARNING

THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN COMPRISE ALL SUCH ITEMS IN THE AREA EITHER IN SERVICE OR ABANDONED, THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN ARE IN THE EXACT LOCATION INDICATED EXCEPT WHERE NOTED AS QUALITY LEVELA.

UTILITY CONTACT INFORMATION

UTILITY CONTACT FOR MAPPING INFORMATION SHOWN AS RECEIVED FROM THE IOWA ONE CALL DESIGN REQUEST SYSTEM, TICKET NUMBER 551902360.

WEST DES MOINES WATER WORKS WILLIAM MABUCE 515-222-3510 william.mabuce@wdmww.com

MIDAMERICAN ENERGY CRAIG RANFELD 515-252-6632 MECDSMDesignLocates@midomerican.com

DES MOINES METRO WASTEWATER NICK CARTER 515-323-8135 ntcarter@dmgov.org S-SANITARY SEWER

WEST DES MOINES TRAFFIC CLEAR PER MAP

JIM DICKINSON 515-222-3482 jim.dickinson@wdm.iowa.org

CLEAR PER MAP

CENTURYLINK TOM STURMER 720-578-8090 thomas sturmer@centurylink.com

CLEAR PER FMAR MEDIACOM COMMUNICATIONS CORP

515-246-2252 pmay@mediacomcc.com

EAWOI

1-800-292-8989 www.lowdonecall.com

ONE CALL

- A. NOTIFY UTILITY PROVIDERS PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES AND COORDINATE WITH UTILITY PROVIDERS AS RECESSARY DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXISTENCE, EXACT LOCATION, AND DEPTH OF ALL UTILITIES, PROTECT ALL UTILITY LINES AND STRUCTURES NOT SHOWN FOR REMOVAL OR MODIFICATION. ANY DAMAGES TO UTILITY ITEMS NOT SHOWN FOR REMOVAL OR MODIFICATION SHALL BE REPAIRED TO THE UTILITY OWNER'S SPECIFICATIONS AT THE CONTRACTOR'S FYPENSE
- B. LENGTH OF UTILITIES SHOWN ON PLANS ARE DIMENSIONED FROM CENTERLINE OF STRUCTURE TO CENTERLINE OF STRUCTURE.
- C. ALL TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). WHEN CONSTRUCTION ACTIVITIES OBSTRUCT PORTIONS OF THE ROADWAY, FLAGGERS SHALL BE PROVIDED. FLAGGERS SHALL CONFORM TO THE MUTCD IN APPEARANCE, EQUIPMENT AND ACTIONS.
- D. CONSTRUCT MANHOLES AND APPURTENANCES AS WORK PROGRESSES. BACKFILL WITH SUITABLE MATERIAL AND COMPACT TO 95% MAXIMUM DENSITY.
- E. IN THE EVENT OF A DISCREPANCY BETWEEN THE QUANTITY ESTIMATES AND THE DETAILED PLANS, THE DETAILED PLANS SHALL GOVERN.
- F. ALL FIELD TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE RECONNECTED AND NOTED ACCORDINGLY ON THE AS-BUILT DOCUMENTS.
- G. DIMENSIONS, BUILDING LOCATION, UTILITIES AND GRADING OF THIS SITE ARE BASED ON AVAILABLE INFORMATION AT THE TIME OF DESIGN. DEVIATIONS MAY BE NECESSARY IN THE FIELD. ANY SUCH CHANGES OR CONFLICTS BETWEEN THIS PLAN AND FIELD CONDITIONS ARE TO BE REPORTED TO THE ARCHITECT/ENGINEER PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT VERFICATION OF ALL SITE IMPROVEMENTS PRIOR TO CONSTRUCTION.
- H. CONTRACTOR TO LOAD AND TRANSPORT ALL MATERIALS CONSIDERED TO BE UNDESIRABLE TO BE INCORPORATED INTO THE PROJECT TO AN APPROVED OFF-SITE WASTE SITE.
- I. CONTRACTOR TO STRIP AND STOCKPILE TOPSOIL FROM ALL AREAS TO BE CUT OR FILLED. AS PER NPDES GENERAL PERMIT NO. 2, MAINTAIN ALL TOPSOIL ON-SITE. RESPREAD TO MINIMUM 4" DEPTH TO FINISH GRADES.
- J. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN ARE FINISHED GRADES AND/OR TOP OF CURB, UNLESS OTHERWISE NOTED.
- K. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING DIRT AND DEBRIS FROM NEIGHBORING STREETS. DRIVEWAYS, AND SIDEWALKS CAUSED BY CONSTRUCTION ACTIVITIES IN A TIMELY MANNER.
- L. THE ADJUSTMENT OF ANY EXISTING UTILITY APPURTENANCES TO FINAL GRADE IS CONSIDERED INCIDENTAL TO THE SITE WORK.
- M. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING EROSION CONTROL MEASURES AS NECESSARY. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING ANY EXISTING EROSION CONTROL MEASURES ON SITE AT THE TIME OF CONSTRUCTION. GRADING AND SOIL EROSION CONTROL CODE REQUIREMENTS SHALL BE MET BY CONTRACTOR. A GRADING PERMIT IS REQUIRED FOR THIS PROJECT IF GRADING BEGINS PRIOR TO APPROVAL OF THE PRELIMINARY PLAT/SITE PLAN.
- N. CONTRACTOR TO COORDINATE NATURAL GAS, ELECTRICAL, TELEPHONE AND ANY OTHER FRANCHISE UTILITY SERVICES WITH UTILITY SERVICE PROVIDER, WEST DES MOINES, AND THE OWNER PRIOR TO CONSTRUCTION.
- O. CONTRACTOR TO VERIFY ALL UTILITY CROSSINGS AND MAINTAIN MINIMUM 18" VERTICAL AND HORIZONTAL CLEARANCE BETWEEN UTILITIES. CONTRACTOR TO COORDINATE UTILITY ROUTING TO BUILDINGS AND VERIFY CONNECTION LOCATIONS AND INVERTS PRIOR TO CONSTRUCTION.
- P. ALL CONSTRUCTION WITHIN PUBLIC R.O.W./EASEMENTS, AND/OR ANY CONNECTION TO THE PUBLIC SEWERS AND STREETS, SHALL COMPLY WITH THE WEST DES MOINES STANDARD CONSTRUCTION SPECIFICATIONS FOR SUBDIVISIONS, DSM METRO DESIGN STANDARDS AND WDM ADDENDUMS.
- O. 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 ENGINEERING SERVICES 222-3475 TO OBTAIN APPLICABLE CITY PERMITS THAT MAY BE NECESSARY. CITY APPROVAL OF THIS PLAN IS SUBJECT TO THE APPLICANT OBTAINING ALL NECESSARY EASEMENTS/CAREEMENTS AND APPLICABLE PERMITS. AN EXCAVATION PERMIT IS REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY.
- R. ALL WATER MAIN, SANITARY SEWER AND STORM SEWER ARE PRIVATE, UNLESS OTHERWISE NOTED.
- S. ALL SIDEWALK RAMPS IN THE PUBLIC RIGHT-OF-WAY COMPLY WITH PROWAG REQUIREMENTS. ALL NEW PUBLIC PEDESTRIAN RAMPS SHALL BE AS-BUILT AND CERTIFIED BY AN IOWA LICENSED ENGINEER STATING THEY MEET PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG).
- T. THE PROJECT CIVIL ENGINEER SHALL PROVIDE AS-BUILT DOCUMENTATION THAT THE STORM WATER DRAINAGE SYSTEM HAS BEEN CONSTRUCTED AS DESIGNED. THE AS-BUILT SHALL BE FORWARDED TO THE CITY BEFORE ISSUANCE OF THE FINAL OCCUPANCY PERMIT, AND SHALL INCLUDE ELEVATIONS, DETENTION AND RETENTION POND CAPACITY, PIPING RESTRICTORS, AND ANY PERTINENT ASPECTS OF THE STORM WATER SYSTEM.
- U. A REPORT CERTIFIED BY A THIRD-PARTY RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE CITY, SHALL BE SUBMITTED TO DOCUMENT THE THICKNESS AND STRENGTH OF THE PAVEMENT, THE SUB-GRADE COMPACTION, COMPULANCE WITH THE METRO DESIGN STANDARDS FOR STREETS, AND THE STANDARDS LISTED IN THE WEST DES MOINES "OFF STREET PARKING ORDINANCE" FOR PRIVATE STREETS, PARKING LOTS, AND DEDICHIASS
- V. LANE CLOSURE NOTICES MUST BE SUBMITTED TO WEST DES MOINES PUBLIC WORKS FOR APPROVAL A MINIMUM OF 48 HOURS IN ADVANCE OF CLOSURE.
- W. COORDINATE STAGING AND TRAFFIC CONTROL WITH WDM EMERGENCY SERVICES.
- X. STREET LOT A AND OUTLOT X ARE TO BE DEDICATED TO THE CITY OF WEST DES MOINES.
- Y. ALL STREETS ARE TO BE PRIVATE.
- Z. ALL STREETS NEED TO ALLOW FOR EMERGENCY VEHICLE MANEUVERABILITY, SIGNING, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES ON ALL STREETS (PUBLIC OR PRIVATE) NEED TO BE IN CONFORMANCE WITH THE MUTCD (FEDERAL HIGHWAY ADMINISTRATION).

WEST DES MOINES STANDARD NOTES

- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF WORK OF ALL SUBCONTRACTOR(S) INVOLVED IN THE PROJECT.
- CONTACT BUILDING INSPECTION (515-222-3630) A MINIMUM OF 24 HOURS IN ADVANCE FOR PRIVATE
 UTILITY INSTALLATION INSPECTIONS. PRIVATE UTILITIES SHALL BE INSTALLED PER WEST DES MOINES
 STANDARD CONSTRUCTION SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND THE CURRENT UNIFORM
 PLUMBING CODE.
- 3. DESIGNATED BUFFERS SHALL BE LABELED AS A "NO BUILD AREA".
- 4. ALL LIGHTS ARE TO BE DOWNCAST CUTOFF VARIETY, WALL PACKS ARE PROHIBITED. THE MAXIMUM ILLUMINATION ALLOWED AT THE PROPERTY LINE IS 1 FOOT-CANDLE.

WEST DES MOINES WATER WORKS STANDARD NOTES

- . ALL WATER WORK, PUBLIC OR PRIVATE, SHALL BE DONE IN ACCORDANCE WITH WEST DES MOINES WATER WORKS STANDARD SPECIFICATIONS.
- 2. CONTRACTOR SHALL NOTIFY WEST DES MOINES WATER WORKS (515-222-3465) AT LEAST ONE WEEK PRIOR TO BUILDING CONSTRUCTION.
- 3. ANY WATER USE FROM A HYDRANT, PUBLIC OR PRIVATE, REQUIRES THE USE OF A WEST DES MOINES WATER WORKS HYDRANT METER. CALL 515-222-3465 TO RESERVE A METER.
- 4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE WEST DES MOINES WATER WORKS AND THE CITY'S CROSS CONNECTION CONTROL/CONTAINMENT PROVISION.
- 5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF AN APPROVED BACKFLOW PREVENTION ASSEMBLY(IES) FOR CONTAINMENT IN ALL NEW CONSTRUCTION. BACKFLOW PREVENTION TO BE INSTALLED PER CITY ORDINANCE 1297, 54-1998. CONTRACTOR SHALL NOTIFY WEST DES MOINES WATER WORKS, RALPH RENTERIA, ENGINEERING TECHNICIAN (515-222-3465) A MINIMUM OF 44 HOURS AFTER INSTALLATION AND TESTING OF ALL BACKFLOW DEVICES TO SCHEDULE FINAL INSPECTION.

LEGAL DESCRIPTION

PART OF OUTLOT "" TIBUSON AN DEFICIAL PLAT AND PARCEL
7-121 AS RECORDED IN BOOK 2018, PAGE 29254 OF THE DALLAS
COUNTY RECORDER'S OFFICE ALL BEING IN THE WEST 17-70
THE SOUTHWEST 17-4 OF SECTION 15. TOWNSHAP 78 NORTH,
RANGE 26 WEST OF THE STH P.M. CITY OF WEST DES MOINES,
DALLAS COUNTY, IOWA, CONTAINING 26 OG AC (7.176.278 ST.) TOTAL PROJECT AREA = 24.01 ACRES

ZONING

RM - MEDIUM DENSITY RESIDENTIAL

COMPREHENSIVE LAND USE

EXISTING: SINGLE FAMILY RESIDENTIAL DISTRICT

FIRM DESIGNATION

THIS SITE IS WITHIN ZONE 'A' (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAN) AS REFERENCED ON FLOOD INSURANCE RATE MAP (FIRM), MAP

IMPERVIOUS AREA

384,069 SF TOTAL IMPERVIOUS AREA (32.4% OF SITE)

PARKING REQUIREMENTS

REQUIRED
1 SPACES PER DWELLING
79 X 1- 79 SPACES REQUIRED
20 SPACE PER 1000 SF OF CLUBHOUSE ASSEMBLY AREA
1,400 SF OF ASSEMBLY AREA * 28 STALLS
1 SPACE FOR EVERY 15 DWELLING UNITS
79 UNITS / 15 - 5 STALES
TOTAL 112 SPACES REQUIRED

PROVIDED
2 DRIVEWAY SPACES PER UNIT
79 X 2 * 158 SPACES PROVIDED
42 VISITOR PARKING STALLS PROVIDED
TOTAL 200 SPACES PROVIDED

NO ON STREET PARKING ALLOWED ON SOUTH 100TH STREET FROM STAGECOACH DRIVE TO STREET D

PARKLAND DEDICATION

PARKLAND REQUIREMENT: 1.70 ACRES
PARKLAND DEDICATED: 5.42 ACRES (OUTLOT X)

CITY OF WEST DES MOINES CONTROL DATUM

CITY OF WEST DES MOINES DATUM (GEOID12AINAVDBB - 774.01)

WEST DES MOINES BM=087
3960 ±FEET WEST OF INTERSECTION OF SOUTH 88TH STREET
(DALLAS COUNTY), 3 FEET NORTH OF EAST/WEST FENCE, 10 FEET
EAST OF NORTH/SOUTH FENCE, DN 335TH STREET ACROSS FROM
HOUSE = 3307 AND =3309,
ELEVATION=167.68

WEST DES MOINES 8M=095
1.1 MILES EST OF INTERSECTION OF 88TH STREET AND 335TH
STREET, (DALLAS COUNTY), TOP OF SOUTHWEST CONCRETE BRIDGE
RAIL ON BRIDGE OVER FOX CREEK,
ELEVATION=107.68

BENCHMARKS

CITY OF WEST DES MOINES 1988 (NAVD88 - GEOID12A) IARTN DERIVED - US SURVEY FEET

BM1 ELEVATION+194.B0 CITY OF WEST DES MOINES BENCHMARK #37. CONCRETE MONUMENT WITH BRASS DISK SOUTHWEST CORNER OF SITE.

CONTROL POINTS

IOWA STATE PLANE SOUTH COGRDINATE SYSTEM NADB3(2011)(EPOCH 2010.00) IARTH DERIVED - US SURVEY FEET

- CP1 N-585217.15 E-1546019.43 1/2" REBAR WITH RED SNYDER CONTROL CAP SOUTHEAST CORNER OF SITE. AS SHOWN ON SURVEY:
- CP2 N*565984.37 E*1545902.36 1/2" REBAR WITH RED SNYDER CONTROL CAP CENTER OF SITE ALONG EAST TREE LINE AS SHOWN ON SURVEY.
- CP3 N=566883.34 E=1545399.45 1/2" REBAR WITH RED SNYDER CONTROL CAP NORTH CORNER OF SITE. AS SHOWN ON SURVEY:
- CP4 N=566114.46 E=1545360.67 1/2" REBAR WITH RED SNYDER CONTROL CAP CENTER OF SITE ALONG WEST TREE LINE, AS SHOWN ON SURVEY.
- CP5 N-565095.93 E-1545297.03 CONCRETE MONUMENT WITH BRASS DISK SOUTHWEST CORNER OF SITE. AS SHOWN ON SURVEY.

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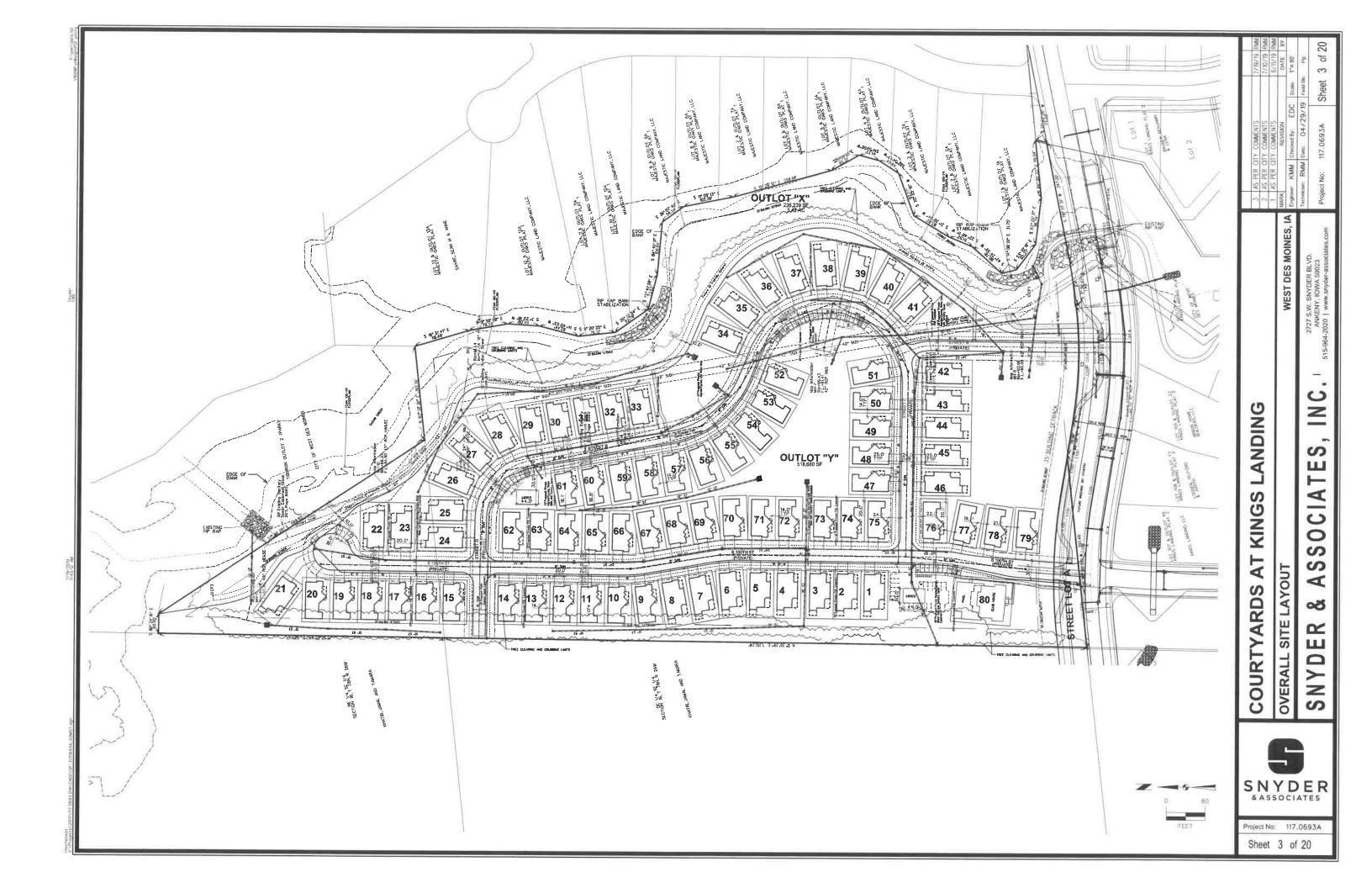
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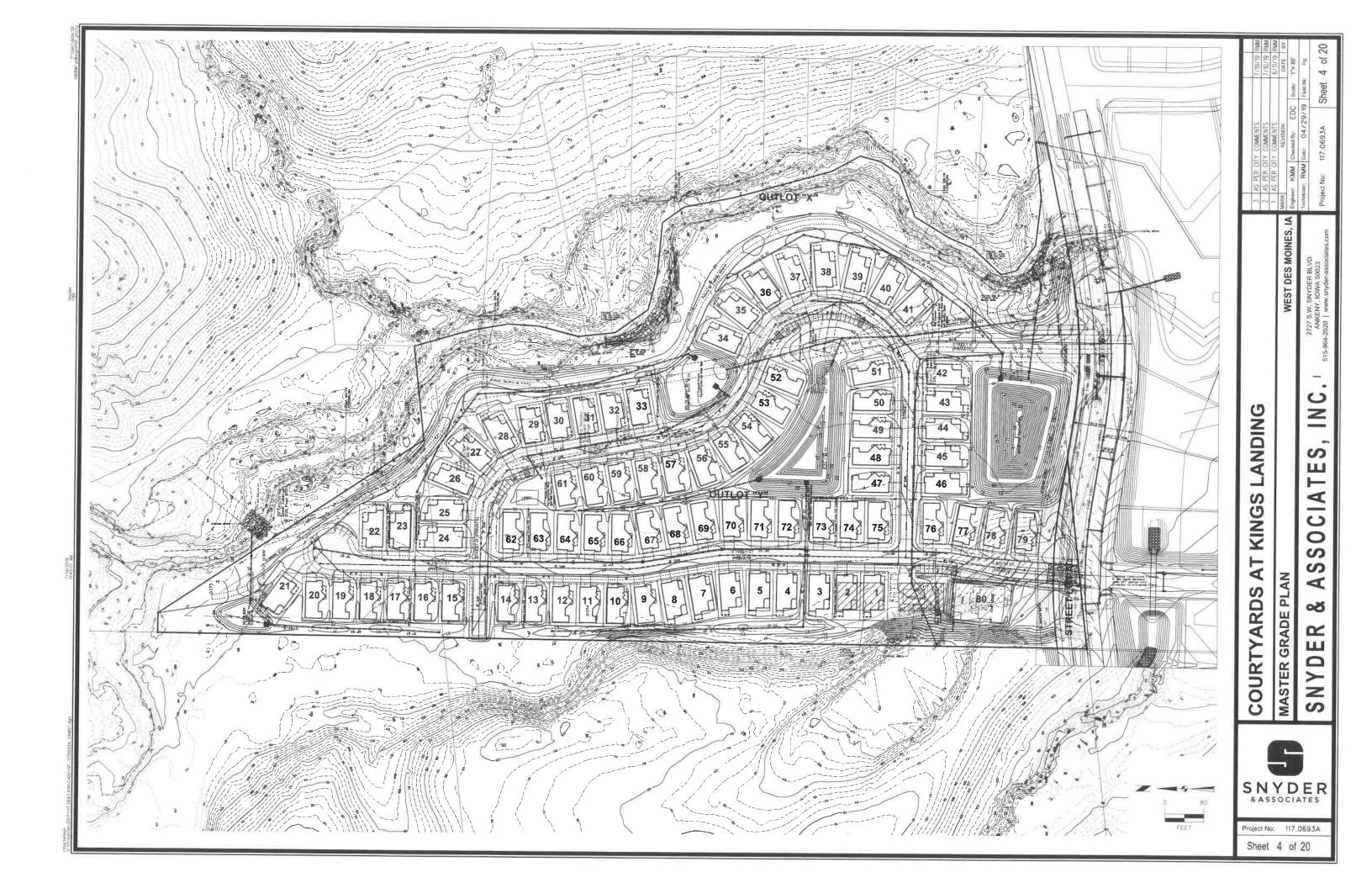
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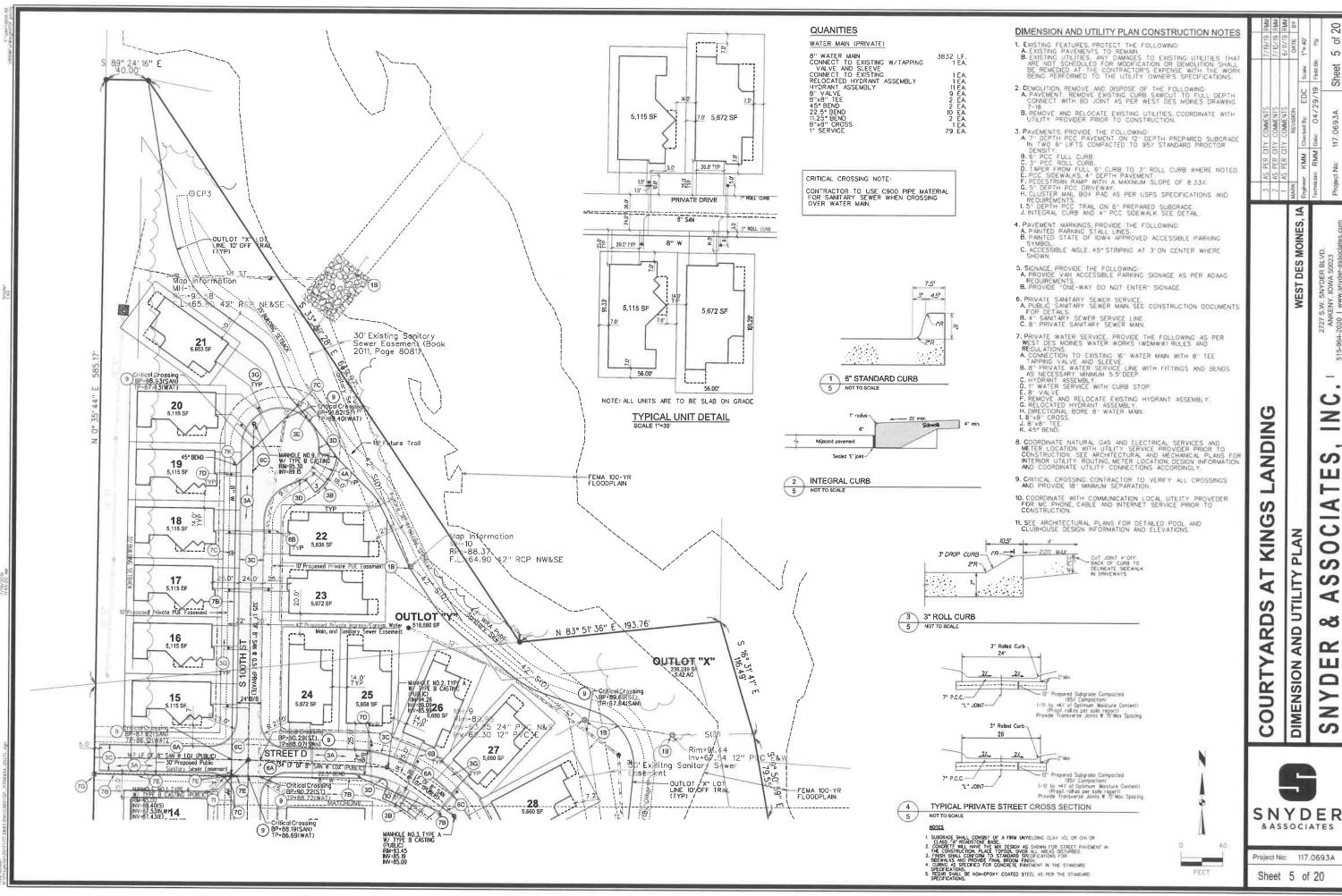
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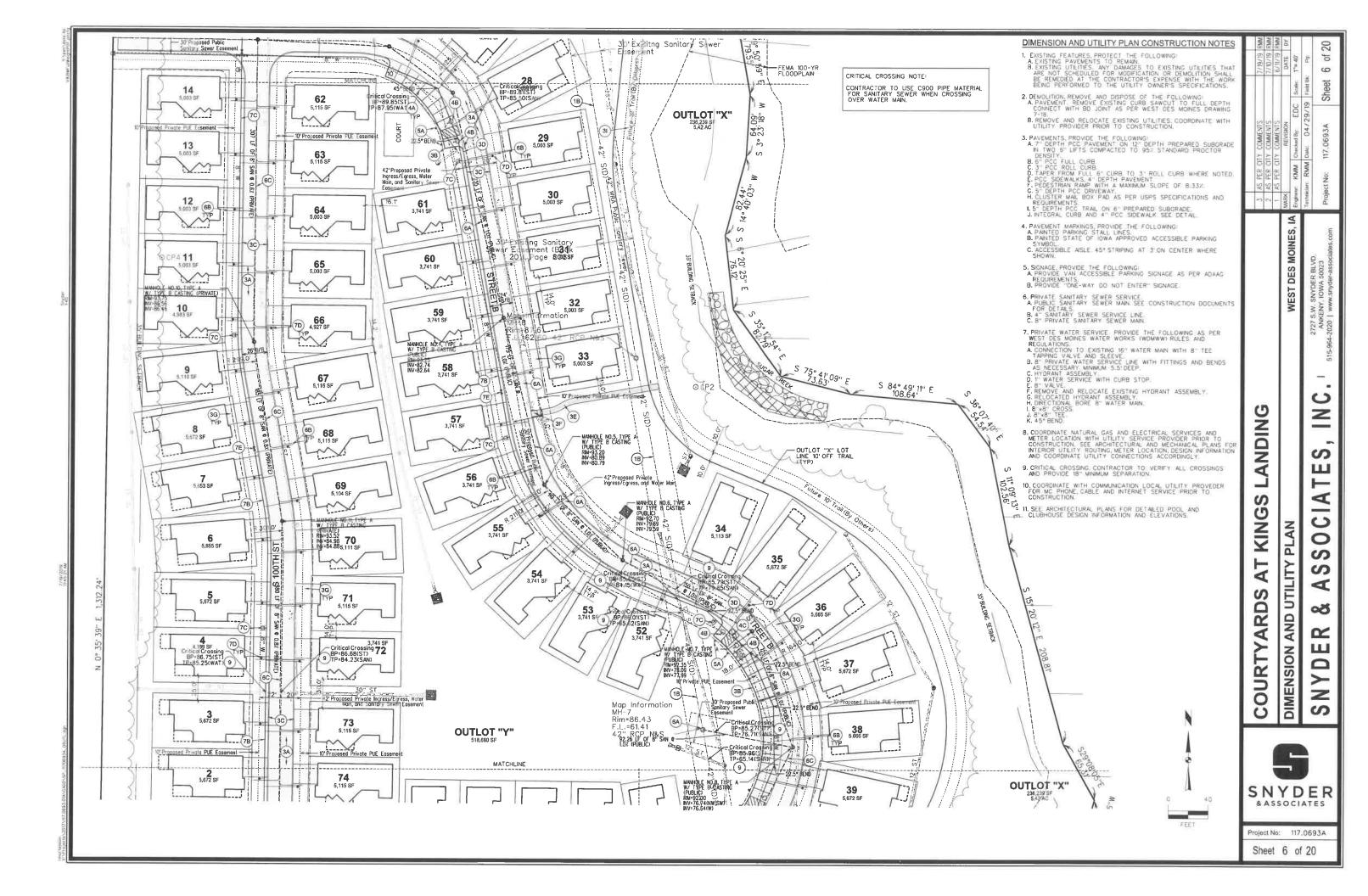
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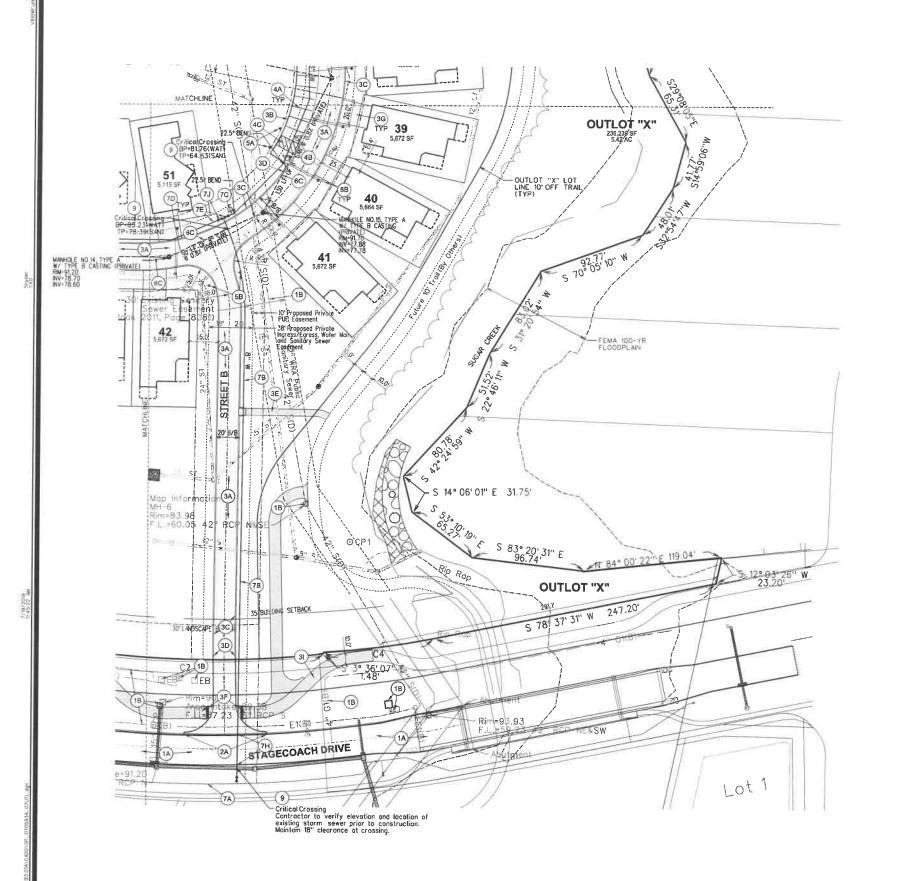
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DIMENSION AND UTILITY PLAN CONSTRUCTION NOTES

1. EXISTING FEATURES, PROTECT THE FOLLOWING:
A EXISTING PAVEMENTS TO REMAIN.
B EXISTING UTILITIES ANY DAMAGES TO EXISTING UTILITIES THAT
ARE NOT SCHEDULED FOR MODIFICATION OR DEMOLITION SHALL
BE REMODIED AT THE CONTRACTOR'S EXPENSE WITH THE WORK
BEING PERFORMED TO THE UTILITY OWNER'S SPECIFICATIONS.

DEMOLITION REMOVE AND DISPOSE OF THE FOLLOWING:
 A PAVEMENT, REMOVE EXISTING CURB SAWGUT TO FULL DEPTH CONNECT WITH BD JOINT AS PER WEST DES MOINES DRAWING 7-18.
 7-18.

B. REMOVE AND RELOCATE EXISTING UTILITIES COORDINATE WITH UTILITY PROVIDER PRIOR TO CONSTRUCTION.

UTILITY PROVIDER PRIOR TO CONSTRUCTION.

3. PAVEMENTS, PROVIDE THE FOLLOWING:
A. 7" DEPTH PCC PAVEMENT ON 12" DEPTH PREPARED SUBGRADE IN TWO 6" LIFTS COMPACTED TO 95% STANDARD PROCTOR DENSITY.
B. 6" PCC FULL CURB.
C. 3" PCC ROLL CURB.
D. TAPER FROM FULL 6" CURB TO 3" ROLL CURB WHERE NOTED.
E. PCC SIDEWALKS, 4" DEPTH PAVEMENT.
F. PEDESTRIM, RAMP WITH A MAXIMUM SLOPE OF 8.33%.
G. 5" DEPTH PCC DRIVEWAY.
H. CLUSTER MAIL DON PAD AS PER USPS SPECIFICATIONS AND REQUIREMENTS.
I. 5" DEPTH PCC TRAIL ON 6" PREPARED SUBGRADE.
J. INTEGRAL CURB AND 4" PCC SIDEWALK SEE DETAIL.

4. PAVEMENT MARKINGS, PROVIDE THE FOLLOWING:
A. PAINTED PARKING STALL LINES.
B. PAINTED STATE OF IOWA APPROVED ACCESSIBLE PARKING SYMBOL.
C. ACCESSIBLE AISLE, 45° STRIPING AT 3' ON CENTER WHERE SHOWN.

5. SIGNAGE, PROVIDE THE FOLLOWING: A PROVIDE VAN ACCESSIBLE PARKING SIGNAGE AS PER ADAAG REQUIREMENTS. B. PROVIDE "ONE-WAY DO NOT ENTER" SIGNAGE.

6. PRIVATE SANITARY SEWER SERVICE.
A. PUBLIC SANITARY SEWER MAIN. SEE CONSTRUCTION DOCUMENTS FOR DETAILS.
B. 4" SANITARY SEWER SERVICE LINE.
C. 8" PRIVATE SANITARY SEWER MAIN.

7. PRIVATE WATER SERVICE, PROVIDE THE FOLLOWING AS PER WEST DES MOINES WATER WORKS (WOWWW) RULES AND REGULATIONS.

A. CONNECTION TO EXISTING 16" WATER MAIN WITH 8" TEE TAPPING VALVE AND SLEEVE.

8. "PRIVATE WATER SERVICE LINE WITH FITTINGS AND BENDS AS NECESSARY, MINIMUM 5.5" DEEP.
C. HYDRANT ASSEMBLY.
D. I" WATER SERVICE WITH CURB STOP.
E. 8" VALVE.

E. 8" VALVE. SERVICE WITH LURB STOP.
E. 8" VALVE.
F. REMOVE AND RELOCATE EXISTING HYDRANT ASSEMBLY.
G. RELOCATED HYDRANT ASSEMBLY.
H. DIRECTIONAL BORE 8" WATER MAIN.
I. 8" X8" CROSS.
J. 8" X8" TEE.
K. 45" BEND.

8. COORDINATE NATURAL GAS AND ELECTRICAL SERVICES AND METER LOCATION WITH UTILITY SERVICE PROVIDER PRIOR TO CONSTRUCTION. SEE ARCHITECTURAL AND MECHANICAL PLANS FOR INTERIOR UTILITY ROUTING, METER LOCATION, DESIGN INFORMATION AND COORDINATE UTILITY CONNECTIONS ACCORDINGLY.

CRITICAL CROSSING CONTRACTOR TO VERIFY ALL CROSSINGS AND PROVIDE 18" MINIMUM SEPARATION.

COORDINATE WITH COMMUNICATION LOCAL UTILITY PROVEDER FOR MC PHONE, CABLE AND INTERNET SERVICE PRIOR TO CONSTRUCTION.

SEE ARCHITECTURAL PLANS FOR DETAILED POOL AND CLUBHOUSE DESIGN INFORMATION AND ELEVATIONS.

CRITICAL CROSSING NOTE:

CONTRACTOR TO USE COOD PIPE MATERIAL FOR SANITARY SEWER WHEN CROSSING OVER WATER MAIN.



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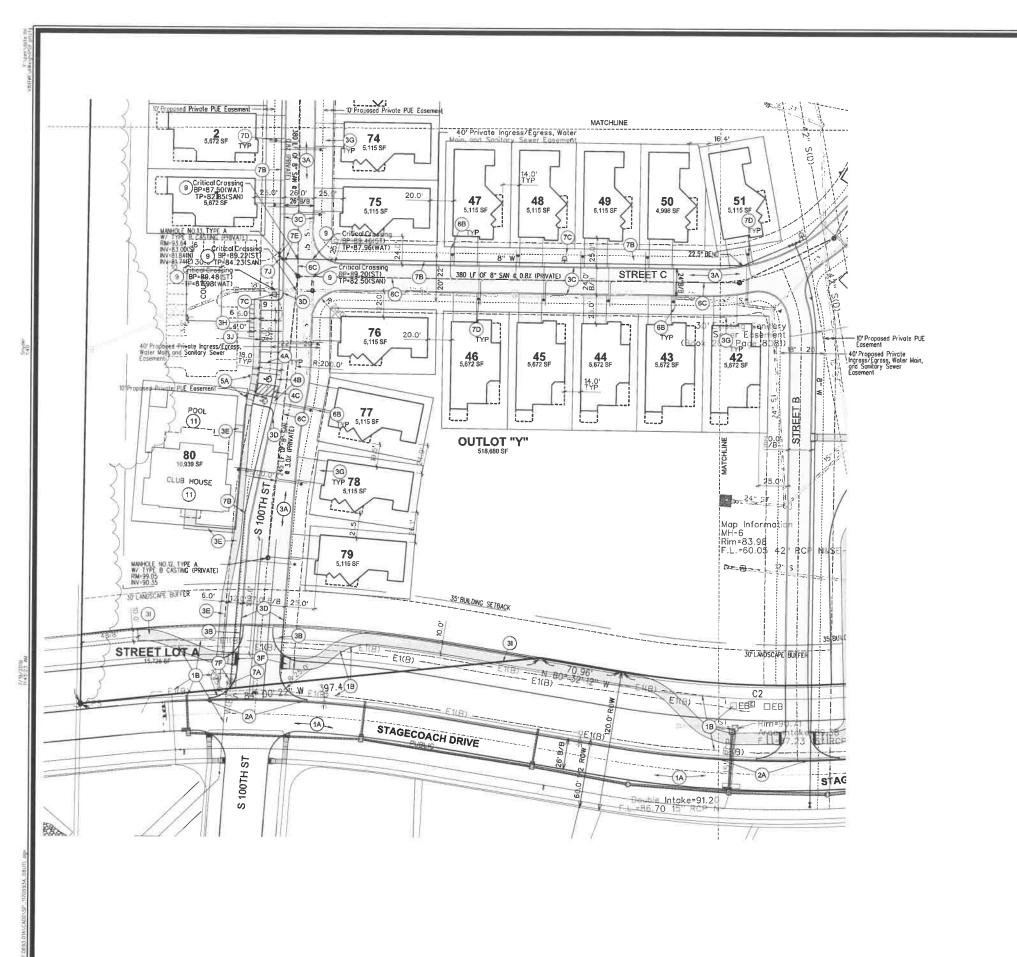
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DIMENSION AND UTILITY PLAN CONSTRUCTION NOTES

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10. COORDINATE WITH COMMUNICATION LOCAL UTILITY PROVEDER FOR MC PHONE, CABLE AND INTERNET SERVICE PRIOR TO CONSTRUCTION.

11. SEE ARCHITECTURAL PLANS FOR DETAILED POOL AND CLUBHOUSE DESIGN INFORMATION AND ELEVATIONS

CRITICAL CROSSING NOTE:

CONTRACTOR TO USE COOD PIPE MATERIAL FOR SANITARY SEWER WHEN CROSSING OVER WATER MAIN.





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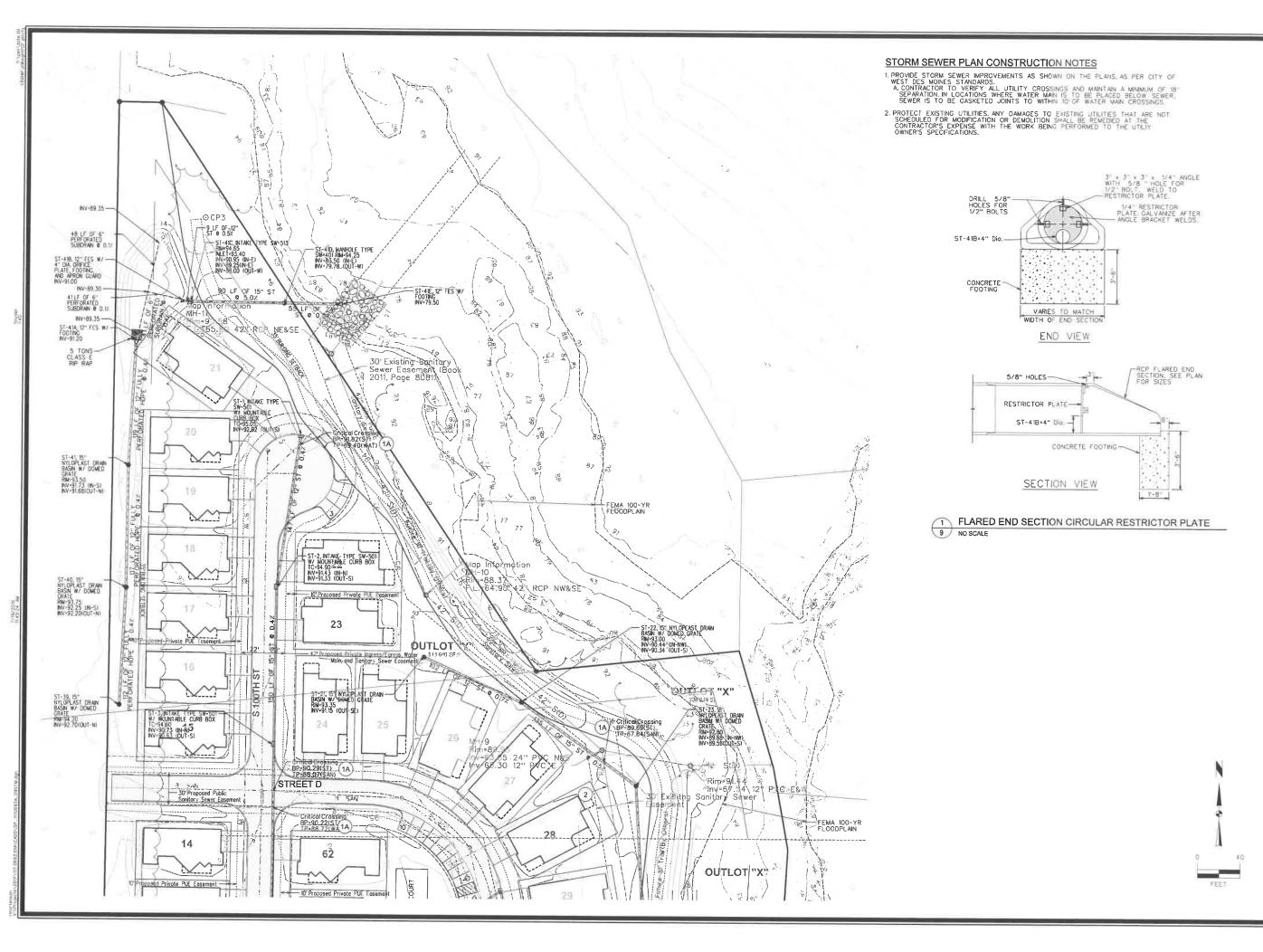
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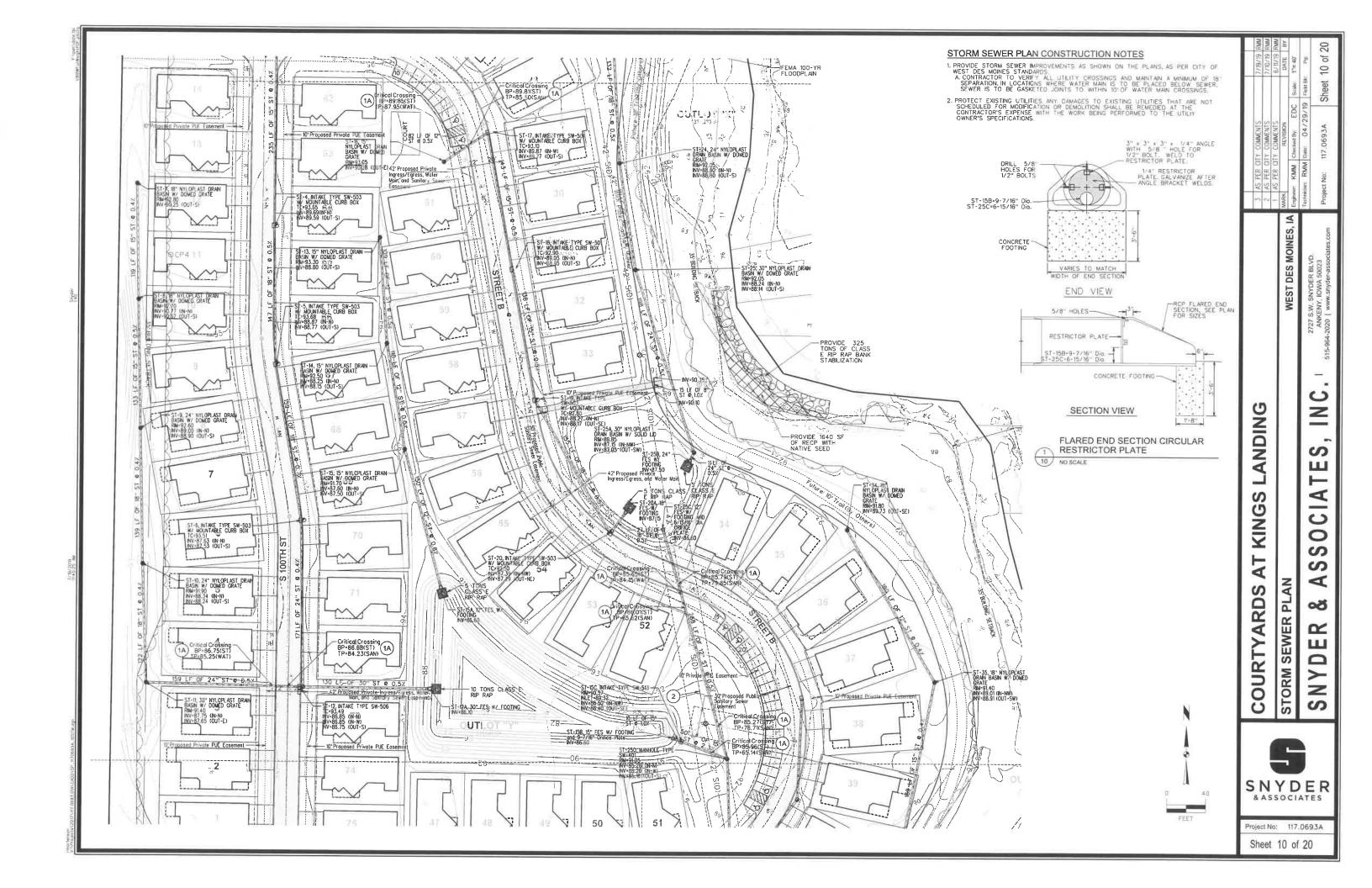
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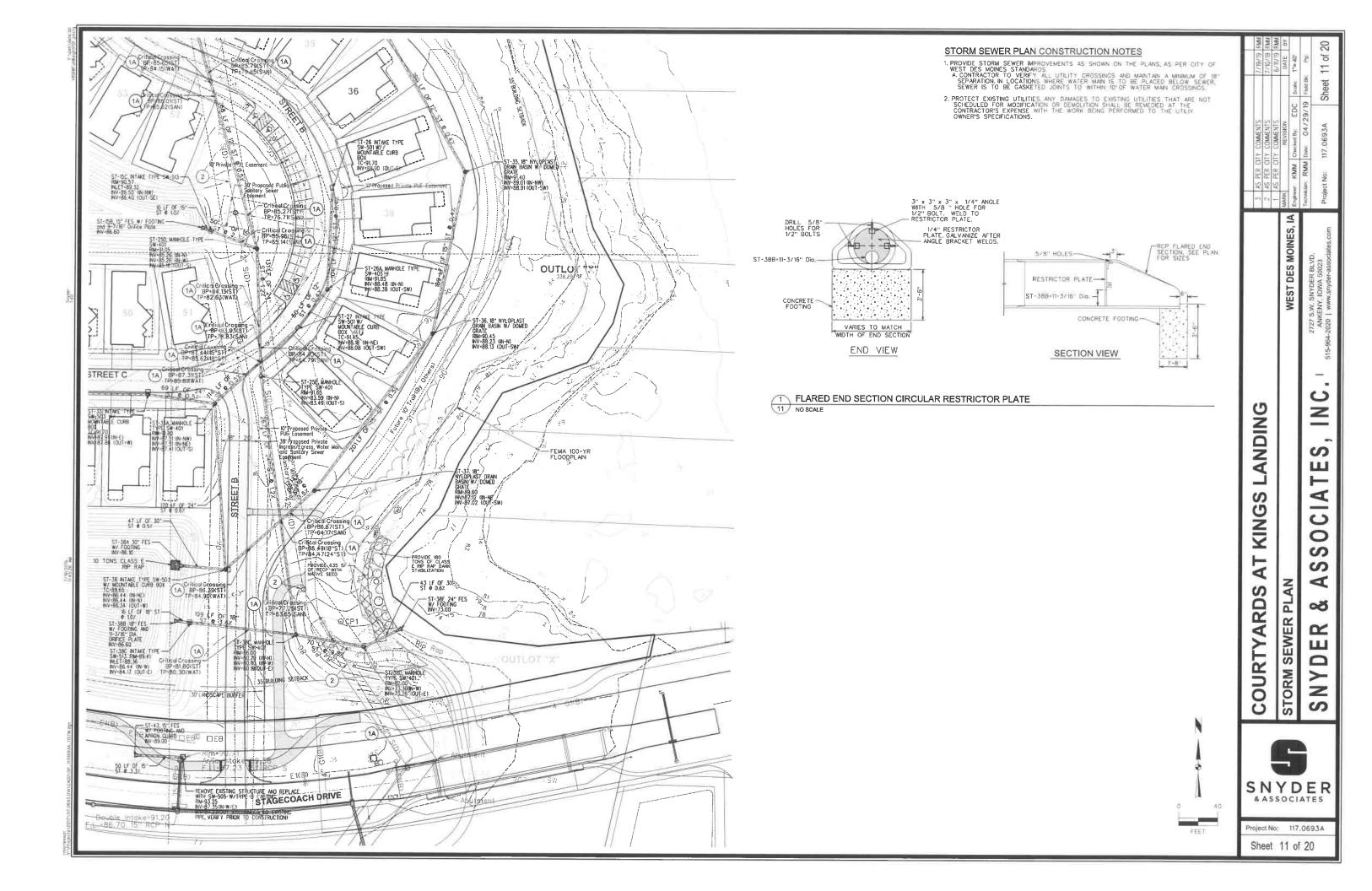
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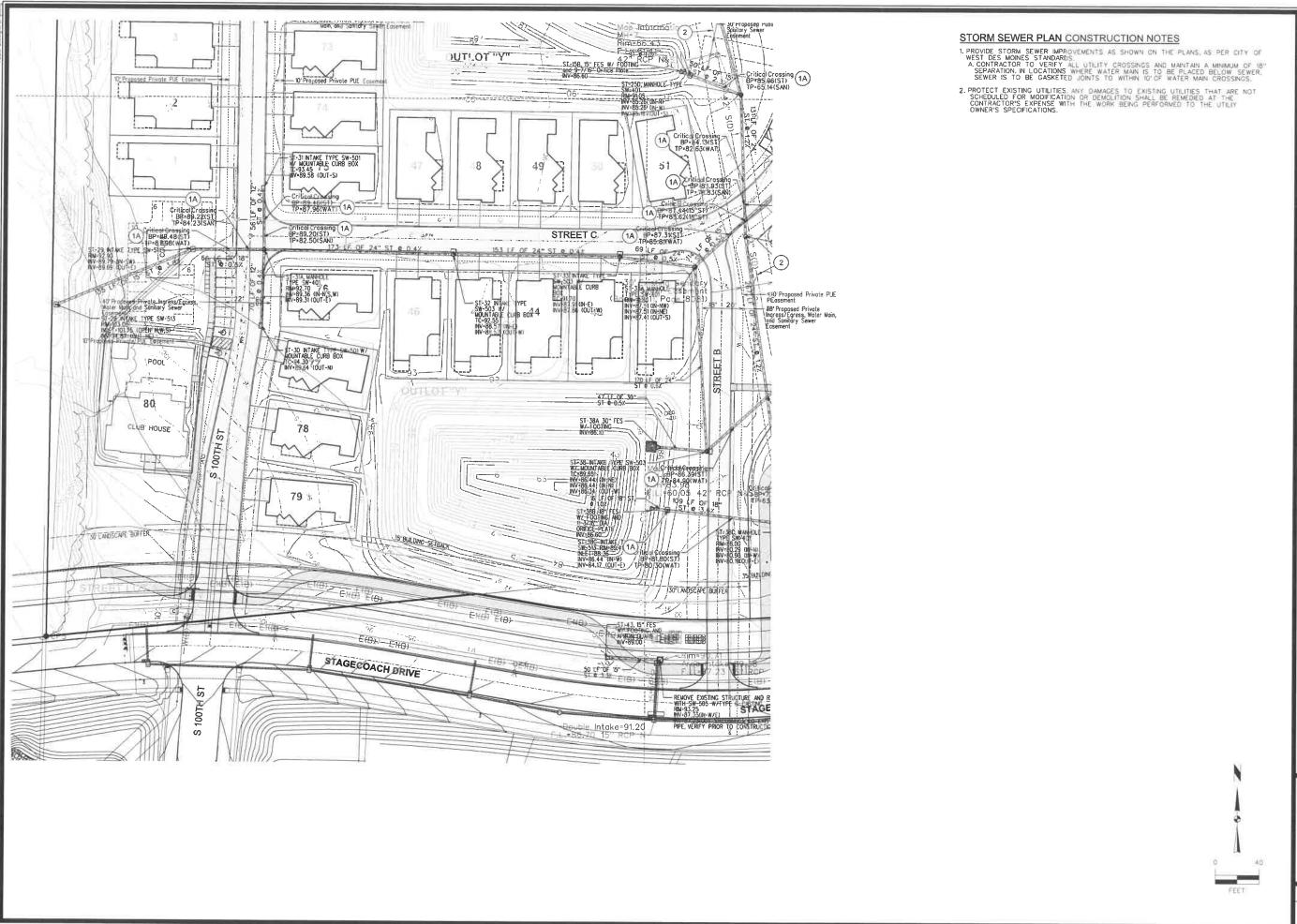
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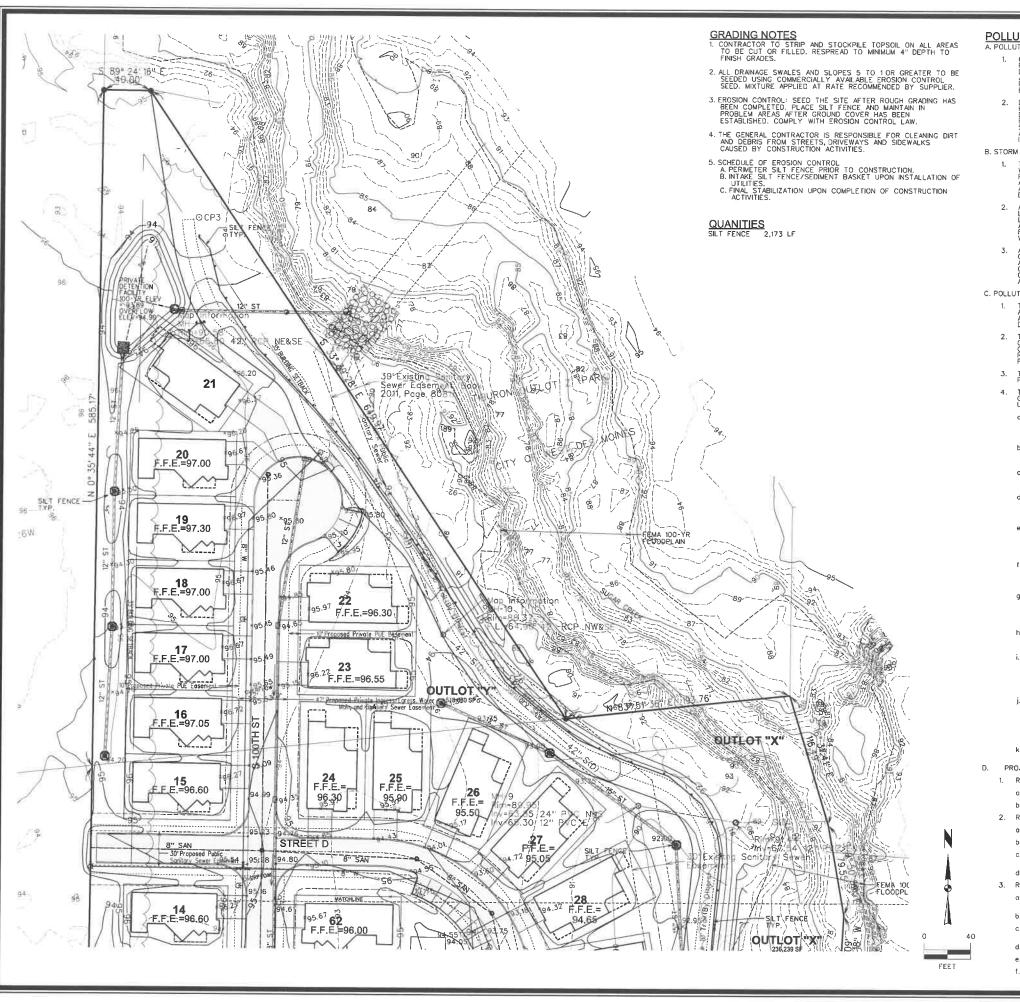
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- THE SWPPP AND SITE MAP SHOULD BE EXPEDITIOUSLY REVISED TO REFLECT CONSTRUCTION PROGRESS AND CHANGES AT THE PROJECT SITE.

- PRESERVE EXISTING VEGETATION IN AREAS NOT NEEDED FOR CONSTRUCTION AND LIMIT TO A MINIMUM THE TOTAL AREA DISTURBED BY CONSTRUCTION OPERATIONS AT ANY

- RESPREAD A MINIMUM OF 4 INCHES OF TOPSOIL (INCLUDING TOPSOIL FOUND IN 500) ON ALL DISTURBED AREAS, EXCEPT WHERE PAVEMENT, BUILDINGS OR OTHER IMPROVEMENTS ARE LOCATED.

- PROJECT SPECIFIC REQUIREMENTS FOR POLLUTION PREVENTION AND EROSION PROTECTION
- RESPONSIBILITIES OF THE OWNER
- o. SIGN NPDES CERTIFICATION STATEMENT AS PERMITEE.
- b. ALL REQUIREMENTS NOT ASSIGNED TO OTHERS.
- 2. RESPONSIBILITIES OF THE ENGINEER
- a. CREATE THE INITIAL SWPPP
- PUBLISH THE PUBLIC NOTICE OF STORM WATER DISCHARGE.
- FILE THE NOTICE OF INTENT WITH APPLICATION FEE FOR NPDES GENERAL PERMIT No. 2 COVERAGE.
- d. SUBMIT THE NOTICE OF DISCONTINUATION.
- 3. RESPONSIBILITIES OF THE CONTRACTOR
 - SIGN NPDES CERTIFICATION STATEMENT AS CO-PERMITEE AND COORDINATING CERTIFICATION OF SUBCONTRACTOR CO-PERMITEES.
- b. COMPLY WITH THE REQUIREMENTS OF THE GENERAL PERMIT No.Z AND THE SWPPP
- INSTALL, MAINTAIN, AND REMOVE EROSION CONTROL AND POLLUTION PREVENTION MEASURES.
- d. WEEKLY INSPECTIONS AND CORRESPONDING RECORDS.
- e. UPDATE AND MAINTAIN THE ONSITE SWPPP
- f. COOPERATE TO PROVIDE INFORMATION UNDER THE RESPONSIBILITY OF OTHERS.

LANDING PLAN KINGS CONTROL A EROSION S ARD AND COURTY GRADING

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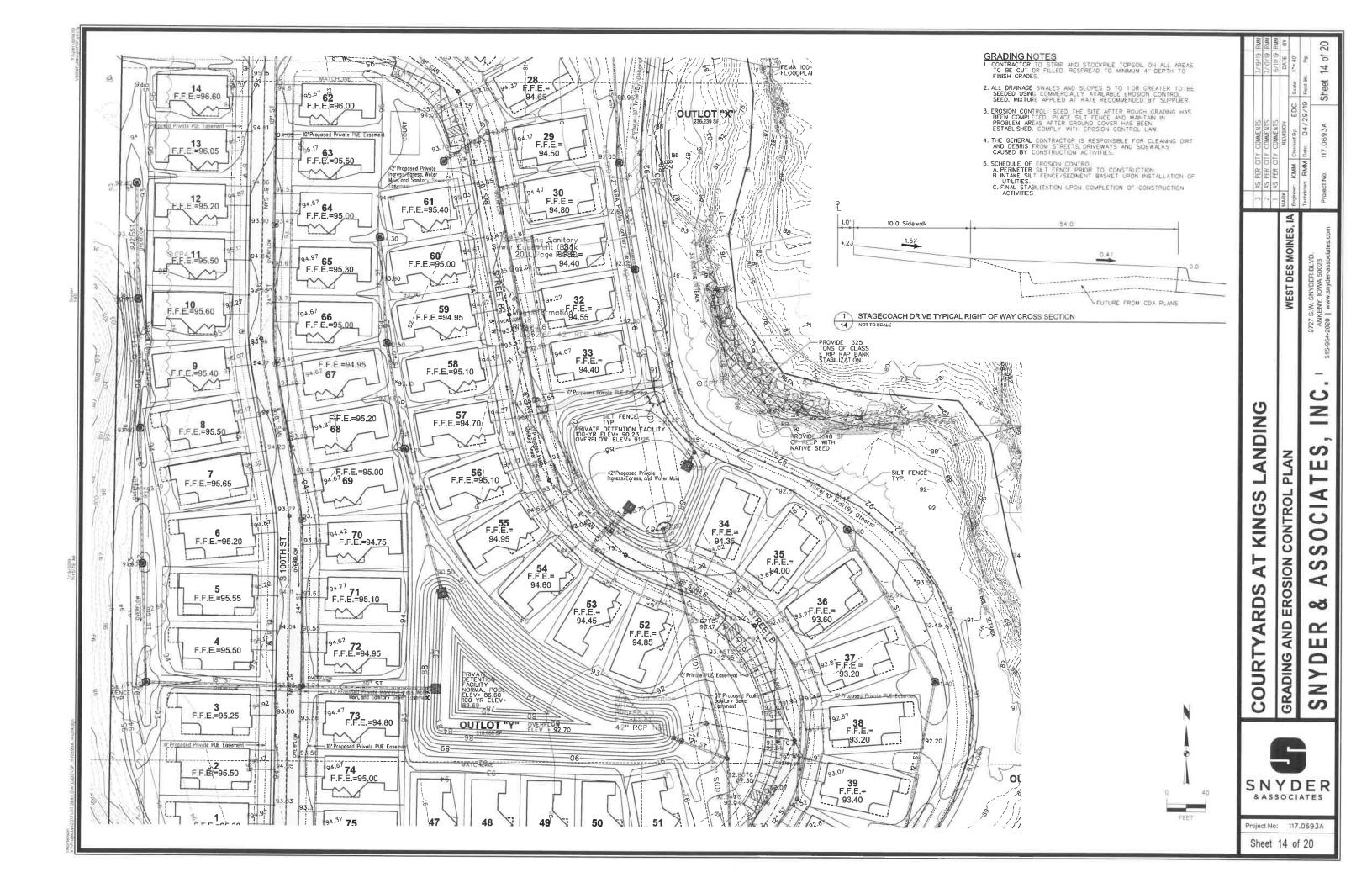
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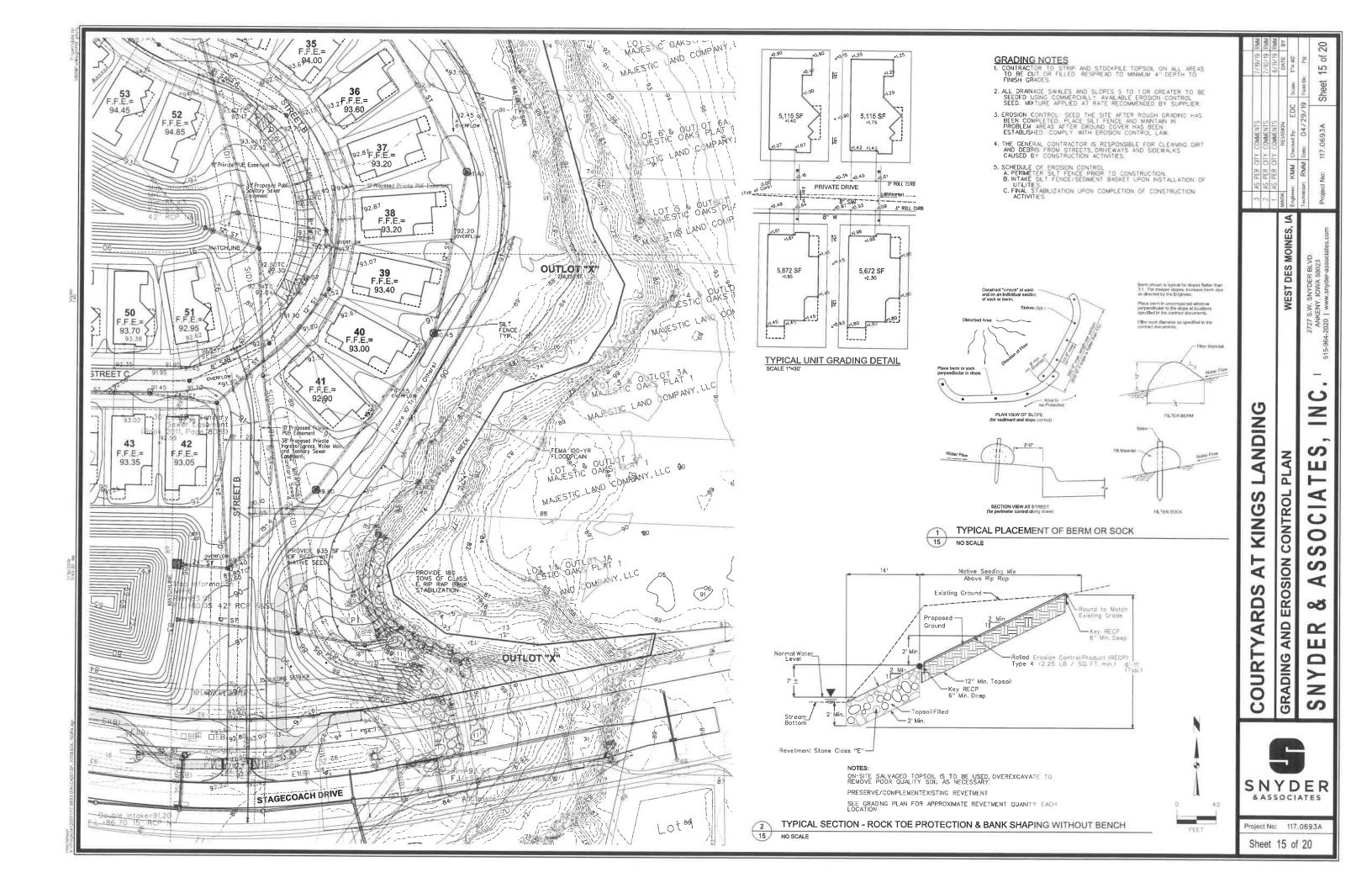
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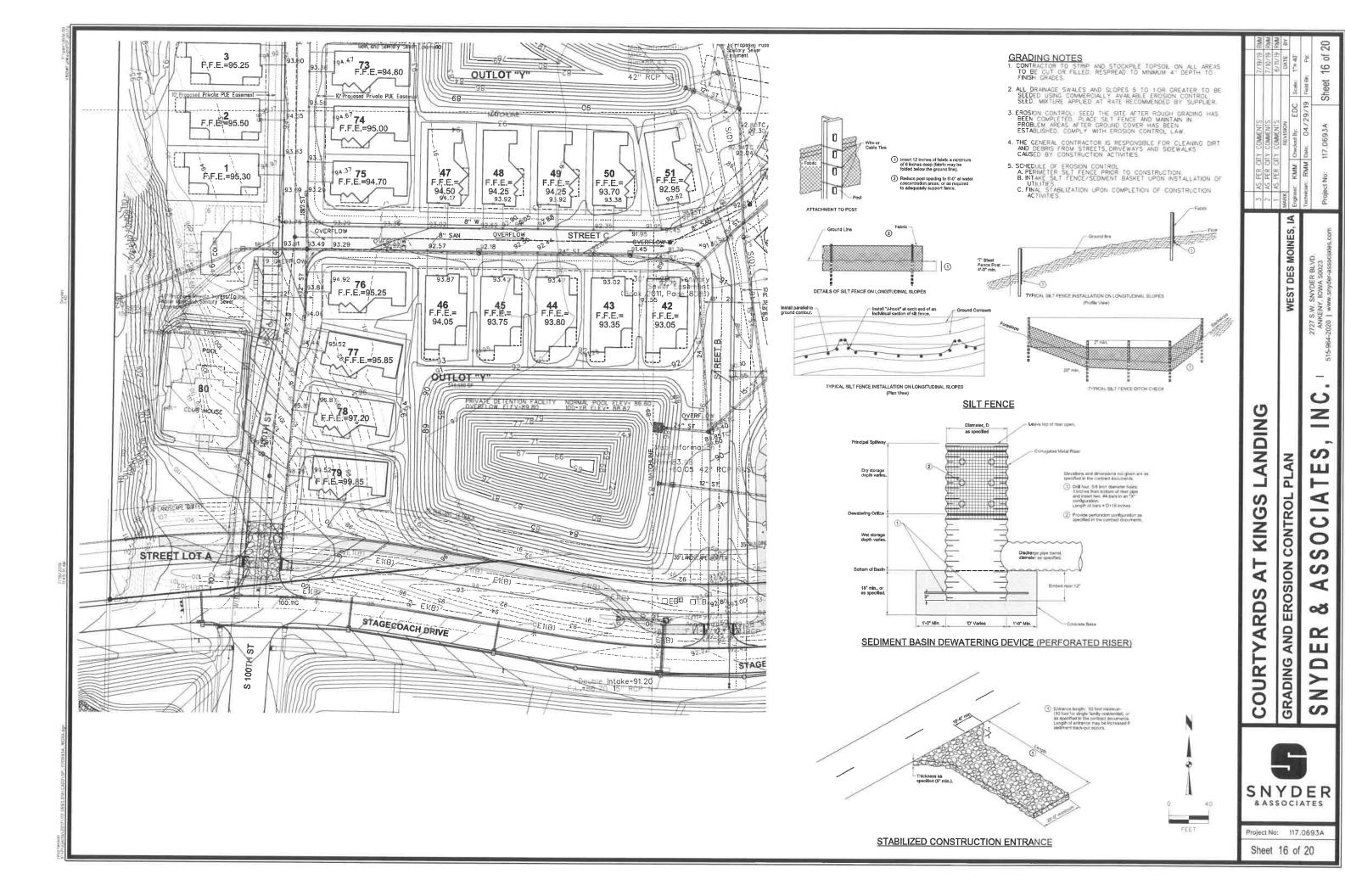
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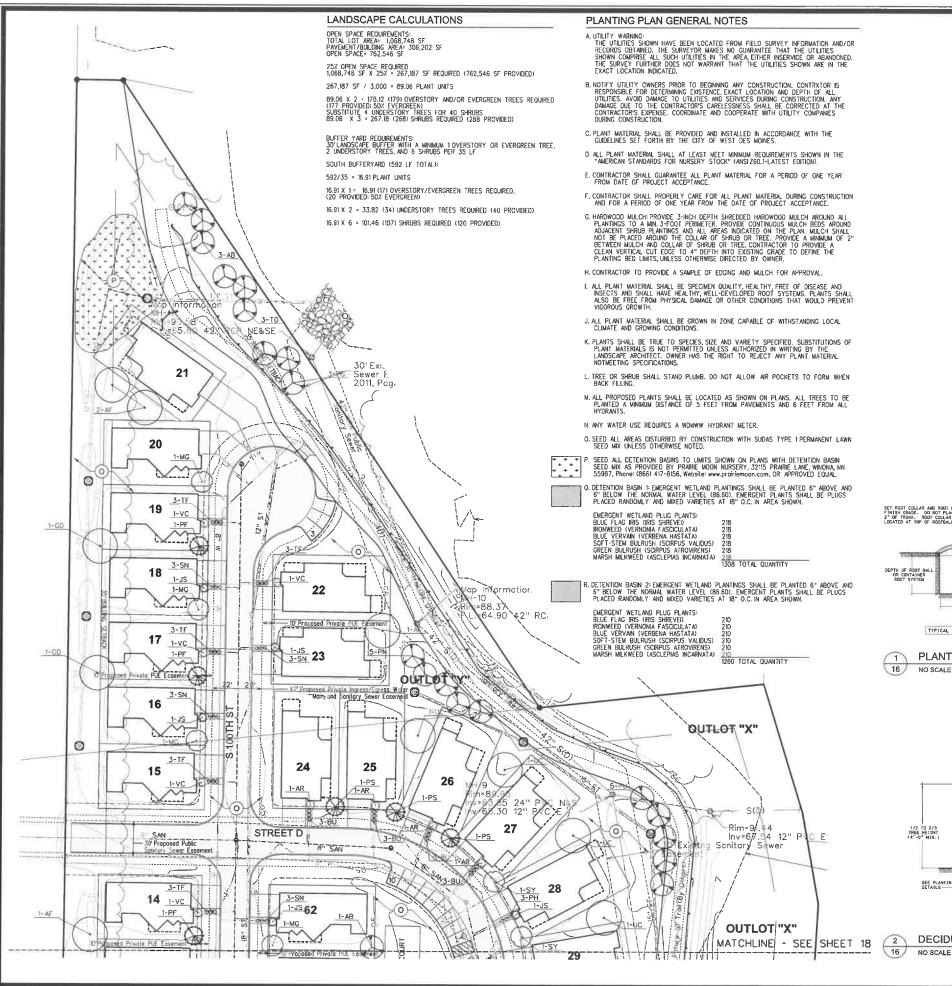
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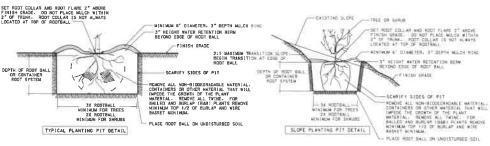




MASTER PLANT SCHEDULE (REFER TO SHEETS 17-19)

	QTY	KΣΥ	BOTANICAL NAME	COMMON NAME	SIZE AT PLANTING	COMMENTS
~	11	AB	Abies bolsamea	BALSAM FIR	6' HT.	988
VERGREEN	6	PG		BLACK HILLS WHITE SPRUCE	6' HT.	988
199	9	PP	Piceo pungens f. glauca 'Fat Albert'	FAT ALBERT COLORADO SPRUCE	8'HT	888
Z	15	PU	Piceo pungens	COLORADO BLUE SPRUCE	8'H1	868
	9	PS	Pinus cembra 'Algonquin Pillar'	ALCONOLIN PELAR SWISS STONE PINE	B'HT.	848
	12	PF	Pinus flexilis 'Northern Blue'	VANDERWOLF'S LIMBER PINE	8° HT.	868
	19	PN	Pinus strobus	EASTERN WHITE PINE	8°HT.	388
	17	TD	Toxodium distichum "Shawnee Brave"	SHAWNEE BRAVE BALD CYPRESS	6:HT.	948
	5	AF	Acer rubrum 'Franksred'	RED SUNSET MAPLE	2"	848
8	.5	BN	Betulo nigro 'Cully'	HERITAGE RIVER BIRCH	2"	848
RS1	5	CO	Celtis occidentalis 'Prairie Pride'	PRABLE PRIDE HACKBERRY	2"	888
OVERSTORY	5	GD	Cymnocladus dioicus 'Espresso'	ESPRESSO KENTUCKY COFFEE TREE	2"	8&8, SEEDLESS
_	6	GB	Ginkao biloba 'Autumn Gold'	AUTUMN GOLD GINKGO	2"	848
	7	GT	Gledtisia triacanthos var. inermis 'Skyline'	SKYLINE HONEYLOCUST	2"	B&B
	5	PL	Platanus x acerifolia 'Morton Circle'	EXCLAMATION LONDON PLANETREE	2"	948
	4	QB	Quercus bicolor	SWAMP WHITE DAK	2"	848
	5	QE	Quercus ellipsoidalis	NORTHERN PIN DAK	2"	348
	5	TA	Tilia americana 'Redmond'	REDWOND AMERICAN LINDEN	2"	848
	8	UC	Ulmus carpinifolia 'New Harizon'	NEW HORIZON ELM	2"	888
JNDERSTORY	18	AG	Amelanchier x grandiflora 'Autumn Brilliance'	ALITUMN BRILLANCE SERVICEBERRY	6' HT	B&B, TREE-FORM
	9	MC	Molus 'Coralburst'	CORALBURST CRABAPPLE	6° HT.	BAB
SS.	7	MR	Molus 'JFS-KW5' PP 14375	ROYAL RANDROPS CRABAPPLE	6'HT.	B&B
S	9	MG	Molus 'Sutyzom' PP 7062	SUGAR TYME CRABAPPLE	6' HT.	848
-	7	PR	Prunus serrulato 'Kwanzon'	KWANZAN CHERRY TREE	8° HT.	988
- 1	19	SY	Syringa reticulato 'Ivory Silk'	IVORY SILK JAPANESE TREE LILAC	8:HT.	848
	10	AR	Aronia melanocarpa 'Elata'	BLACK CHOKEBERRY	36" Ht.	CONT. (6' O.C.)
S	27	AM	Aronia melanocarpa 'Morton'	PROQUOIS BEAUTY CHOKEBERRY	18" Ht.	CONT. (3.5° D.C.
SHRUBS	30	BU	Buxus 'Glencoe'	CHICAGOLAND GREEN BOXWOOD	15" HI.	CONT. (3.5° 0.C.
ਨ	31	CS	Cornus sercieo 'Isanti'	ISANTI DOGWOOD	36" Ht.	CONT. (6' O.C.)
	14	FS	Forsythia x intermedia 'Mindor'	SHOW OFF FORSYTHIA	36" Ht.	CONT. (6' O.C.)
	20	JS	Juniperus chinensis "Sea Green"	SEA GREEN JUNIPER	24" Ht.	CONT. (6' O.C.)
	42	JB	Juniperus sabina 'Blue Forest'	BLUE FOREST JUNIPER	12" Ht.	CONT. (3.5' D.C.
	27	PQ.	Physocarpus opulifolius 'Little Devil'	LITTLE DEVIL NINEBARK	18" Ht.	CONT. 13.5' O.C.
	11	₽₩	Physocarpus opulifolius 'Seward'	SUMMER WINE NINEBARK	36" Ht.	CONT. (6' O.C.)
	52	PH	Potentilla fruticosa 'Lundy'	HAPPY FACE POTENTILLA	18" Ht.	CONT. 13.5' O.C.
	75	SN	Spiraea joponica 'Neon Flash'	NEON FLASH SPIREA	18" Ht.	CONT: (3.5° O.C.
	9	SM	Syringa potula 'Miss Kim'	MISS KIM LILAC	36" Ht.	CONT. (6' O.C.)
	9	TT	Taxus x medio 'Taunton'	TAUNTON YEW	24" Ht.	CONT. 16' O.C.)
	33	TF	Thuja accidentalis 'Congabe'	FIRE CHIEF ARBORVITAE	18° Ht.	CONT. 13.5' O.C.
Ш	15	VC	Viburnum carlesii	KOREANSPICE VIBURNUM	36" Ht.	CONT. (6' O.C.)
İ	10	VM	Viburnum lantana 'Mohican'	MOHICAN VIBURNUM	36" Ht.	CONT. (8' D.C.)
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1/4 TQ 1/3 TREE HEIGHT -(2'-0" M(N.) PLACE ON STAKE TO SOUTHWEST FLAGGING WATERIAL STAKING PLAN (Trees larger thon 2 1/2)non stoneters Through the from ground little to First

DECIDUOUS TREE STAKING DETAIL

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