HUGHES PARK IMPROVEMENTS - PHASE 1

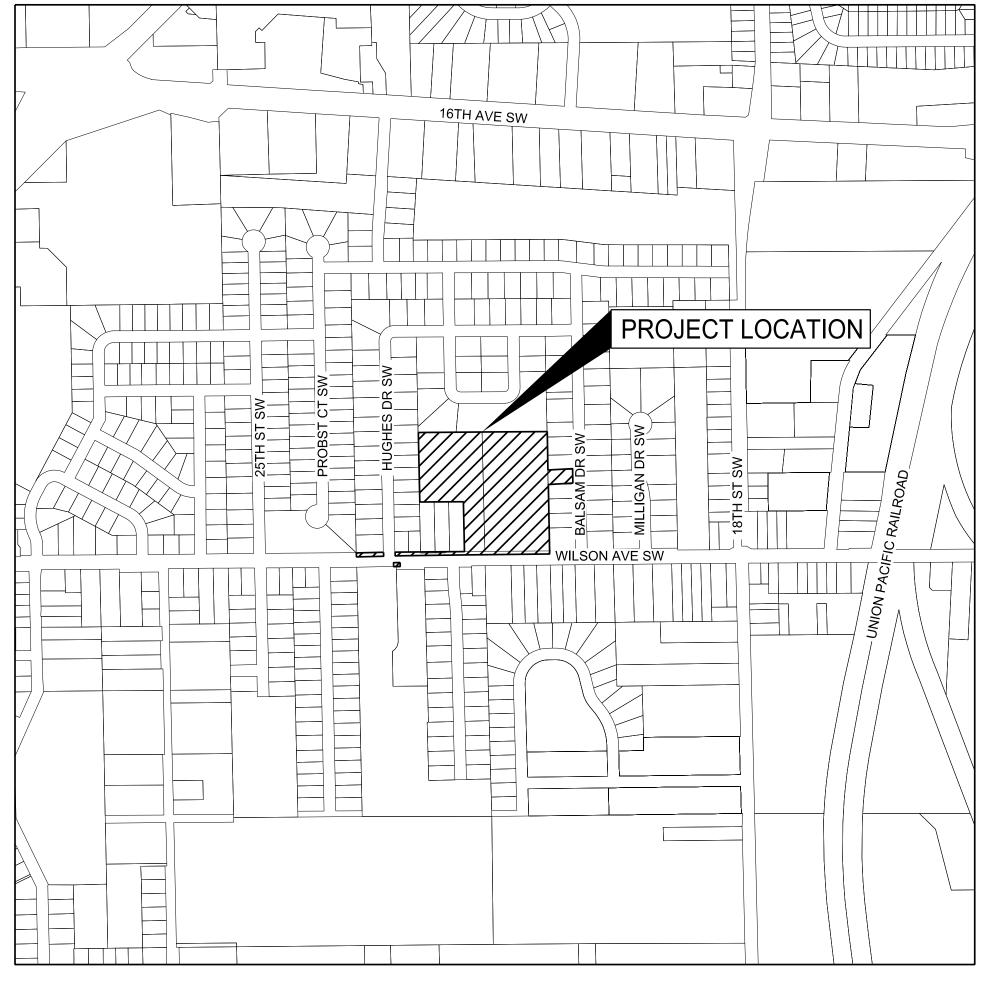
CITY OF CEDAR RAPIDS, LINN COUNTY, IOWA

CONTRACT NUMBER: 307232-03 PROJECT NUMBER: PUR0418-171 BID DATE: 06/20/2018

LEGEND

LEGEND		
<u>Features</u>	Existing	Proposed
Spot Elevation Contour Elevation Fence (Barbed, Field, Hog) Fence (Chain Link) Fence (Wood) Fence (Silt) Tree Line Tree Stump	93.0 -93_ -x -x - -// -// - 	×93.0 ×93~
Deciduous Tree \ Shrub		
Coniferous Tree \ Shrub	A STATE OF THE STA	
Communication Overhead Communication Fiber Optic Underground Electric Overhead Electric Gas Main with Size High Pressure Gas Main with S Water Main with Size Sanitary Sewer with Size Duct Bank Test Hole Location for SUE wa	8" W(*) 8" S(*)	— OC — — FO — — E — — OE — — 4" G — — 4" HPG _ 8" W

Sanitary Sewer with Size	4	8" W 8" S
(*) Denotes the survey quality ser	vice level for uti	lities
Sanitary Manhole	Ø	©
Storm Sewer with Size Storm Manhole Single Storm Sewer Intake Double Storm Sewer Intake Fire Hydrant Fire Hydrant on Building Water Main Valve Water Service Valve Well Utility Pole Guy Anchor Utility Pole with Light Utility Pole with Transformer Street Light Yard Light Electric Box Electric Transformer Traffic Sign Communication Pedestal Communication Manhole Communication Handhole Fiber Optic Manhole Fiber Optic Handhole Gas Valve Gas Manhole Gas Apparatus Fence Post or Guard Post Underground Storage Tank Above Ground Storage Tank Sign Satellite Dish Mailbox Soil Boring	12" ST O	12" ST Q Q X &



VICINITY MAP





INDEX OF SHEETS

- 1. TITLE SHEET
- 2. PROJECT INFORMATION
- 3. & 4. DIMENSION PLAN
 - 5. GRADING & UTILITY PLAN
- 6. & 7. JOINTS & ELEVATIONS
 - B. PPP
 - 9. PPP & DETAILS

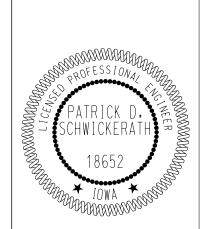
NOTE:
THE PROPOSED IMPROVEMENTS INCLUDED IN
THESE DRAWINGS HAVE BEEN DESIGNED IN
ACCORDANCE WITH THE CURRENT VERSION
OF THE CEDAR RAPIDS METROPOLITAN AREA
ENGINEERING DESIGN STANDARDS MANUAL.
EXCEPTIONS ARE NOTED ON SHEET 2.

CIP FUNDS USED

307232 3012074

CITY COUNCIL MEMBERS

BRAD HART, MAYOR
SUSIE WEINACHT
ANN POE
TYLER OLSON
MARTY HOEGER
SCOTT OVERLAND
DALE TODD
SCOTT OLSON
ASHLEY VANORNY



I 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 State of Iowa.

Attick Schutcherah 05/08/2018

Patrick D. Schwickerath, P.E. Date
License Number 18652

License Number 18652

My License Renewal Date is December 31, 2019

Pages or sheets covered by this seal:

Project No: 118.0163

Sheet 1 of 9

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01000 (SPECIAL PROVISIONS) IN THE PROJECT MANUAL.

THE FOLLOWING SPECIAL REQUIREMENTS ARE FROM THE CURRENT VERSION OF SECTION 01100 CONSTRUCTION SERVICES IN THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, PART 1 GENERAL, 1.03 SPECIAL REQUIREMENTS. E. 4. IS AN ADDITION TO THE STANDARD SPECIFICATIONS; INCLUDED HERE AND IN SECTION

- 1. ALL CONSTRUCTION SURVEYS SHALL BE PERFORMED WITH A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IN RESPONSIBLE CHARGE, IN ACCORDANCE WITH PROVISIONS OF CHAPTER 542B, CODE OF IOWA.
- 2. PRIOR TO CONSTRUCTION, THE LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IN RESPONSIBLE CHARGE OF CONSTRUCTION SURVEY SHALL PHYSICALLY LOCATE AND EXAMINE SURVEY CONTROL POINTS SHOWN IN CONTRACT DOCUMENTS, VERIFY THEY ARE INTACT AND AT SPECIFIED LOCATIONS AND ELEVATIONS. ADDITIONALLY, THE ENGINEER OR SURVEYOR SHALL DETERMINE IF THE CONTROL POINTS ARE SUFFICIENT TO PROVIDE CONTROL FOR CONSTRUCTION SURVEY ON THE PROJECT.
- 3. PRIOR TO CONSTRUCTION, THE LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IN RESPONSIBLE CHARGE OF CONSTRUCTION SURVEY SHALL PHYSICALLY LOCATE AND DETERMINE CONDITIONS WHERE NEW CONSTRUCTION WILL MATCH EXISTING FEATURES. THE ENGINEER OR LAND SURVEYOR SHALL DETERMINE LOCATION AND ELEVATION OF SAID FEATURES AND COMPARE THIS INFORMATION TO CORRESPONDING INFORMATION IN THE CONTRACT DOCUMENTS. THIS REQUIREMENT APPLIES TO, BUT IS NOT LIMITED TO, EXISTING PAVEMENTS; SIDEWALKS AND DRIVES; SANITARY AND STORM SEWER STRUCTURES, INCLUDING FLOW LINES AND RIMS; TRAFFIC SIGNAL FACILITIES; WATER VALVES AND HYDRANTS; EXISTING UTILITY FIXTURES AND STRUCTURES; RAILROAD CROSSINGS, INCLUDING ASSOCIATED SIGNAL FACILITIES; AND BRIDGE ABUTMENTS.
- 4. AFTER LOCATING AND EXAMINING SURVEY CONTROL POINTS SHOWN IN CONTRACT DOCUMENTS, THE CONTRACTOR SHALL DO ONE OF THE FOLLOWING:
 - 1. IF SURVEY CONTROL POINTS ARE INTACT AND JUDGED SUFFICIENT FOR USE DURING CONSTRUCTION SURVEY, THE CONTRACTOR SHALL PROVIDE A SIGNED LETTER STATING CONTROL POINTS ARE INTACT AND SUFFICIENT FOR CONSTRUCTION SURVEY TO THE JURISDICTIONAL PROJECT ENGINEER.
 - 2. IF SURVEY CONTROL POINTS ARE NOT INTACT, OR ARE JUDGED INSUFFICIENT FOR USE DURING CONSTRUCTION SURVEY, THE CONTRACTOR SHALL PROVIDE A SIGNED LETTER DESCRIBING ISSUES WITH THE CONTROL POINTS TO THE JURISDICTIONAL PROJECT ENGINEER.
- 5. AFTER LOCATING AND DETERMINING CONDITIONS WHERE NEW CONSTRUCTION WILL MATCH EXISTING FEATURES, AND AFTER DETERMINING LOCATION AND ELEVATION OF SAID FEATURES AND COMPARING THIS INFORMATION TO CORRESPONDING INFORMATION IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL DO ONE OF THE FOLLOWING
 - 1. IF ACCURACY OF LOCATIONS AND ELEVATIONS OF EXISTING FEATURES AS NOTED IN THE CONTRACT DOCUMENTS IS JUDGED SUFFICIENT FOR USE DURING CONSTRUCTION SURVEY, THE CONTRACTOR SHALL PROVIDE A SIGNED LETTER STATING THE ACCURACY OF THE LOCATIONS AND ELEVATIONS OF EXISTING FEATURES TO THE JURISDICTIONAL PROJECT ENGINEER. IF APPLICABLE, THE NOTE MAY BE INCLUDED IN THE LETTER ADDRESSING ACCURACY OF SURVEY CONTROL POINTS
 - 2. IF ACCURACY OF LOCATIONS AND ELEVATIONS OF EXISTING FEATURES AS NOTED IN THE CONTRACT DOCUMENTS IS JUDGED INSUFFICIENT FOR USE DURING CONSTRUCTION SURVEY. THE CONTRACTOR SHALL PROVIDE A SIGNED LETTER, PLUS ANNOTATED EXCERPTS FROM THE CONTRACT DOCUMENTS DESCRIBING ISSUES TO THE JURISDICTIONAL PROJECT ENGINEER.
- 6. THE WORK SPECIFIED IN 1.03 D AND E IS REQUIRED PRIOR TO THE PRECONSTRUCTION MEETING. IF THIS WORK IS NOT COMPLETED AND LETTERS ARE NOT PROVIDED TO THE ENGINEER AT THE PRECONSTRUCTION MEETING, START OF CONSTRUCTION MAY BE DELAYED. THE PROJECT'S SCHEDULED START DATES AS SET FORTH IN THE CONTRACT DOCUMENTS SHALL REMAIN IN FORCE AND THE CONTRACTOR MAY BE CHARGED DAYS AT THE SOLE DISCRETION OF THE ENGINEER.

UTILITY QUALITY SERVICE LEVELS

THESE DESIGN DRAWINGS INCORPORATE UNDERGROUND UTLITY INFORMATION BASED UPON SUBSURFACE UTILITY ENGINEERING PRACTICES AND STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA (CI / ASCE 38-02).

QUALITY LEVEL (A): PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT. $\,$ MINIMALLY INTRUSIVE EXCAVATION EQUIPEMENT IS TYPICALLY USED TO MINIMIZE THE POTENTIAL FOR UTILITY DAMAGE. A PRECISE HORIZONAL AND VERTICAL LOCATION, AS WELL AS OTHER UTILITY ATTRIBUTES, IS SHOWN ON PLAN DOCUMENTS. ACCURACY IS TYPICALLY SET TO 15-MM VERTICAL AND TO APPLICABLE HORIZONTAL SURVEY AND MAPPING ACCURACY AS DEFINED OR EXPECTED BY THE PROJECT OWNER.

QUALITY LEVEL (B): INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. QUALITY LEVEL B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS.

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

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

TABLE OF QUALITY LEVEL OF UTILITY INVESTIGATION IN ACCORDANCE WITH CI/ASCE 38-02		
UTILITY	OWNER	QUALITY LEVEL
TELEPHONE DUCTS (UNDERGROUND)	VARIOUS	D
STREET LIGHT POLES	VARIOUS	D
UNDERGROUND POWER	VARIOUS	D
FIBER OPTIC	VARIOUS	D
EXISTING SANITARY AND STORM SEWER	CITY OF CEDAR RAPIDS	D
EXISTING WATER MAIN	CITY OF CEDAR RAPIDS	D
GAS MAIN	VARIOUS	D
EXISTING TRAFFIC SIGNAL FIXTURES	CITY OF CEDAR RAPIDS	D
EXISTING TRAFFIC SIGNAL CONDUITS	CITY OF CEDAR RAPIDS	D
CABLE TV	VARIOUS D	
JOINT COMMUNICATIONS NETWORK	CITY OF CEDAR RAPIDS D	

UTILITY CONTACT INFORMATION

CITY CEDAR RAPIDS CITY ARBORIST: (319) 286-5616 FIRE: BUSINESS (319) 286-5200, EMERGENCY 911 POLICE: BUSINESS (319) 286-5491, EMERGENCY 911 PUBLIC WORKS: (319) 286-5802 SANITARY & STORM SEWER: (319) 286-5826 TRANSIT: (319) 286-5573 WATER: (319) 286-5900

IOWA ONE CALL: 811

UTILITIES ALLIANT: (319) 786-1908 AT&T: (319) 364-6111 (THIS IS AN UNMANNED NUMBER, BUT A MESSAGE CAN BE LEFT ON A MACHINE) CENTURY LINK. (319) 399-7600 OR (319) 399-7487 IMON COMMUNICATIONS: (319) 261-4640 OR (319) 261-4689 IOWA NETWORK SERVICE: (319) 533-2319 ITC MIDWEST: (319) 297-6765 JOINT COMMUNICATIONS NETWORK: (319) 286-5491 LINN COUNTY REC: (319) 377-1587 MEDIACOM: (319) 395-9699, EXT. 354

MID AMERICAN ÉNERGY: (319) 298-5162 WINDSTREAM: (319) 538-1985

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 LEVEL A.

GENERAL NOTES

- 1. DIMENSIONS, STREET LOCATIONS, UTILITIES AND GRADING ARE BASED ON AVAILABLE INFORMATION AT THE TIME OF DESIGN. DEVIATIONS MAY BE NECESSARY IN THE FIELD. ANY SUCH CHANGES OR CONFLICTS BETWEEN THE PLAN AND FIELD CONDITIONS SHALL BE REPORTED TO THE CITY INSPECTOR AND/OR CITY REPRESENTATIVES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT VERTIFICATION OF ALL SITE IMPROVEMENTS PRIOR TO CONSTRUCTION.
- 2. CONFINE ALL CONSTRUCTION ACTIVITY TO THE CONSTRUCTION LIMITS UNLESS OTHERWISE AUTHORIZED BY THE CITY AND/OR CITY REPRESENTATIVES. ALL EASEMENT LIMITS SHALL BE FIELD MARKED AND PROTECTED BY THE CONTRACTOR.
- 3. DO NOT STORE EQUIPMENT AND/OR MATERIALS WITHIN PUBLIC RIGHT-OF-WAY ON STREETS AND/OR ALLEYS OPEN TO TRAFFIC. CONTRACTOR SHALL PROVIDE AREAS AS NEEDED FOR STORAGE OF EQUIPMENT AND/OR MATERIALS.
- 4. IF THE CONTRACTOR OBTAINS ADDITIONAL EASEMENTS FOR STORAGE OF EQUIPMENT AND MATERIALS, COPIES OF AGREEMENTS WITH THE PROPERTY OWNERS SHALL BE PROVIDED TO THE CITY.
- 5. WHERE CONTRACTOR EQUIPMENT IS OPERATED ON ANY PORTION OF THE PAVEMENT OR STRUCTURES USED BY TRAFFIC ON OR ADJACENT TO THE SECTION UNDER CONSTRUCTION, THE CONTRACTOR SHALL CLEAN THE PAVEMENT OF ALL DIRT AND DEBRIS AT THE END OF EACH DAY'S OPERATIONS, AND AT OTHER TIMES AS DIRECTED BY THE ENGINEER.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR ALL SITE SAFETY INCLUDING FENCING AND SIGNAGE ON SITE AND SHALL COMPLY WITH ALL STATE, LOCAL AND FEDERAL REGULATIONS.
- 7. THE CONTRACTOR IS TO LOAD AND TRANSPORT ALL MATERIALS CONSIDERED TO BE UNDESIRABLE TO BE INCORPORATED INTO THE PROJECT TO AN APPROVED OFF-SITE WASTE SITE.
- 8. THE CONTRACTOR IS TO STRIP AND STOCKPILE TOPSOIL FROM ALL AREAS TO BE CUT OR FILLED. RESPREAD TO MINIMUM 6" DEPTH TO FINISH GRADES.
- 9. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN ARE FINISHED GRADES AND/OR TOP OF PAVING SLAB (GUTTER), UNLESS OTHERWISE NOTED.
- 10. THE ADJUSTMENT OF ANY EXISTING UTILITY APPURTENANCES TO FINAL GRADE IS CONSIDERED INCIDENTAL TO THE SITE WORK.
- 11. THE CONTRACTOR IS TO VERIFY ALL UTILITY CROSSINGS AND MAINTAIN MINIMUM 18" VERTICAL AND HORIZONTAL CLEARANCE BETWEEN UTILITIES. THE CONTRACTOR IS TO COORDINATE UTILITY ROUTING TO BUILDING AND VERIFY CONNECTION LOCATIONS AND INVERTS
- 12. THE CONTRACTOR SHALL COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER AND NOISE POLLUTION.
- 13. WHERE SECTION OR SUBSECTION MONUMENTS, BENCHMARKS, RIGHT-OF-WAY PINS, OR IRON PIPE MONUMENTS ARE ENCOUNTERED, THE CITY SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED OR DISTURBED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL THE CITY AND AUTHORIZED SURVEYOR, OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY MONUMENTS UNNECESSARILY DESTROYED BY CONTRACT OPERATIONS.
- 14. FULL DEPTH SAW CUT EXISTING PAVEMENTS PRIOR TO REMOVALS. THIS IS INCIDENTAL TO REMOVALS PAY ITEMS.
- 15. REMOVE EXISTING PAVEMENT TO THE NEAREST JOINT OR AS DIRECTED BY THE ENGINEER.
- 16. PROTECT EXISTING FACILITIES, TREES AND OTHER APPURTENANCES NOT TO BE REMOVED FROM THE SITE DURING CONSTRUCTION.
- 17. COORDINATE CONSTRUCTION TO MINIMIZE DISRUPTIONS TO THE ADJACENT PROPERTIES. REPAIR AND RESTORE ANY AREAS DISTURBED BY CONSTRUCTION OUTSIDE OF THE CONSTRUCTION LIMITS AT THE CONTRACTOR'S EXPENSE.
- 18. DURING CONSTRUCTION, USE ALL MEANS NECESSARY TO CONTROL DUST SPREADING FROM WORK AND STAGING AREAS. DUST CONTROL MEASURES SHALL BE IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS, OR APPROVED BY THE ENGINEER. DUST CONTROL MEASURES ARE CONSIDERED INCIDENTAL.
- 19. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH CITY STAFF TO AVOID CONFLICTS WITH CITY EVENTS. NO ADDITIONAL COMPENSATION WILL BE MADE FOR COORDINATING SCHEDULES AROUND EVENTS
- 20. CONSTRUCTION OF ALL STREET AND UTILITY IMPROVEMENTS SHALL CONFORM TO THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.

GENERAL TRAFFIC CONTROL NOTES

- 1. THE CONTRACTOR IS RESPONSIBLE TO COMPLETE ALL WORK SHOWN IN THE PLAN SHEETS WITH ONE STAGE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DETAILED TRAFFIC CONTROL PLANS FOR THEIR WORK AND ANY OTHER STAGES THAT MAY BE REQUIRED. PREAPPROVAL OF TRAFFIC CONTROL IS REQUIRED PRIOR TO BEGINNING OF CONSTRUCTION. CHANGES TO THE STAGING PLAN MUST BE APPROVED BY THE ENGINEER.
- 2. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 3. FURNISH AND INSTALL ALL TRAFFIC CONTROL DEVICES AND MAINTAIN IN THE CORRECT POSITION. PROMPTLY CLEAN AND REPLACE DAMAGED TRAFFIC CONTROL DEVICES. PATROL WORK AREAS DAILY (AT A MINIMUM) TO ENSURE ALL TRAFFIC CONTROL DEVICES ARE PROPERLY SET, IN SERVICEABLE CONDITION, AND LEGIBLE.
- 4. THE CONTRACTOR SHALL COVER ALL CONFLICTING EXISTING SIGNS.
- 5. POSTED SPEED LIMITS ARE AS FOLLOW: ●30 MPH WILSON AVENUE
- 6. PROVIDE APPROPRIATE SIGNAGE IF, AT ANY TIME, THERE IS AN ELEVATION DIFFERENCE BETWEEN ADJACENT OR OPPOSING TRAVEL LANES ON ANY STREET.
- 7. REMOVE EXISTING PAVEMENT MARKINGS IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS OR CHANNELIZING DEVICES IN CONJUNCTION WITH ESTABLISHING TRAFFIC CONTROL. REMOVAL OF PAVEMENT MARKINGS SHALL BE COMPLETED BY A METHOD AS APPROVED BY THE ENGINEER
- 8. CONTRACTOR SHALL COORDINATE WITH OTHER PROJECTS IN THE AREA.
- 9. TRAVEL LANES SHALL BE A MINIMUM OF 10' WIDE PLUS 2' FOR TRAFFIC CONTROL DEVICES DURING CONSTRUCTION.
- 10. ALL PERMANENT SIGNING AND STRIPING SHALL BE PLACED BEFORE ROADWAYS ARE OPEN TO TRAFFIC, UNLESS OTHERWISE NOTED.
- 11. SOME CONSTRUCTION MAY REQUIRE TEMPORARY LANE CLOSURES NOT SHOWN IN THE PLANS. REFER TO PART 6 OF THE MUTCD FOR STANDARD LANE CLOSURE SIGNAGE. LANE CLOSURES SHALL BE PREAPPROVED BY THE CITY ALONG WITH THEIR DURATION.
- 13. THE SPACING OF ALL TEMPORARY SIGNS AND THE DISTANCES BETWEEN SIGNS SHALL MEET THE REQUIREMENTS OF THE 2009 MUTCD. IF THE MINIMUM SPACING BETWEEN SIGNS CANNOT BE MAINTAINED, THE SIGN LOCATIONS SHALL BE ADJUSTED TO PROVIDE THE LARGEST SPACING AVAILABLE.

12. WRITTEN NOTICE SHALL BE PROVIDED TO THE CITY OF CEDAR RAPIDS AND THE ENGINEER PRIOR TO ROADWAY CLOSURES AND

- 14. THE LOCATION FOR STORAGE OF EQUIPMENT BY THE CONTRACTOR DURING NON-WORKING HOURS SHALL BE AS APPROVED BY THE ENGINEER. EXCAVATIONS, EQUIPMENT, AND MATERIALS WITHIN THE CONSTRUCTION ZONE SHALL BE PROTECTED BY BARRICADES DURING NON-WORKING HOURS. EQUIPMENT AND MATERIALS SHALL BE STAGED TO AVOID BLOCKING SIGHT DISTANCE AT
- 15. WHEN CONSTRUCTION ACTIVITIES OBSTRUCT PORTIONS OF THE ROADWAY, FLAGGERS SHALL BE PROVIDED AND IS INCIDENTAL TO THE COST OF TRAFFIC CONTROL. FLAGGERS SHALL CONFORM TO THE MUTCD IN APPEARANCE, EQUIPMENT AND ACTION.

GENERAL SIDEWALK NOTES

TRANSITIONS BETWEEN STAGES.

- 1. REFER TO MUTCD TA-28 AND TA-29 FOR SIDEWALK CLOSURE INFORMATION AND DETOURS.
- 2. THE CONTRACTOR IS TO OBTAIN SIDEWALK TRAFFIC CONTROL APPROVAL FROM THE CITY PRIOR TO IMPLEMENTATION.
- 3. SIDEWALK TRAFFIC CONTROL SHALL REMAIN IN PLACE UNTIL SIDEWALKS ARE REPLACED AND ACCESSIBLE.
- 4. THE COST FOR THE SIDEWALK ACCOMMODATIONS IS INCIDENTAL TO THE COST OF TRAFFIC CONTROL.

GENERAL UTILITY NOTES

- 1. REFER TO TABULATION OF UTILITY GRADE LEVELS IN ACCORDANCE WITH CI/ASCE 38-02 IN THESE DRAWINGS FOR INFORMATION REGARDING DEPICTION OF EXISTING SUBSURFACE UTILITIES. THE CONTRACTOR MUST VERIFY ACTUAL LOCATIONS IN THE FIELD.
- 2. IOWA CODE 480, UNDERGROUND FACILITIES INFORMATION, REQUIRES VERBAL NOTICE TO IOWA ONE CALL (1-800-292-8989) NOT LESS THAN 48 HOURS PRIOR TO EXCAVATION, EXCLUDING WEEKENDS AND LEGAL
- 3. UTILITY LOCATIONS AND DEPTHS WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES AND THEIR ACCURACY SHOULD BE CONSIDERED APPROXIMATE. NO RESPONSIBILITY IS ACCEPTED FOR THE LOCATIONS AS SHOWN OR THAT ALL UTILITY FACILITIES ARE SHOWN.
- 4. UTILITY LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE, UNLESS NOTED OTHERWISE, THEY REPRESENT LOCATIONS PRIOR TO ANY UTILITY RELOCATIONS REQUIRED TO ACCOMMODATE PROPOSED CONSTRUCTION. GAS VALVES AND RELATED FIXTURES, TELEPHONE PEDESTALS AND RELATED FIXTURES, UTILITY MANHOLES, POWER POLES, AND STREET LIGHT POLES SHALL BE RELOCATED BY THE UTILITY. THE CONTRACTOR SHALL COOPERATE WITH THE OWNERS OF THESE UTILITIES IN THEIR REMOVAL AND REARRANGEMENT OPERATIONS SO WORK MAY PROGRESS IN A REASONABLE MANNER, DUPLICATION OF REARRANGEMENT WORK MAY BE REDUCED TO A MINIMUM, AND SERVICES RENDERED BY THOSE PARTIES WILL NOT BE UNNECESSARILY INTERRUPTED. WHERE INDICATED IN THE CONTRACT DOCUMENTS, PROVIDE TRAFFIC CONTROL AND COORDINATE SCHEDULING OF UTILITY RELOCATIONS. SCHEDULE UTILITY RELOCATIONS TO AVOID DELAY TO CONTRACTOR OPERATIONS. THE COST FOR LOCATING EXISTING UTILITIES, COORDINATING RELOCATION WORK, PROVIDING TEMPORARY SUPPORTS, AND STAGING CONSTRUCTION TO ACCOMMODATE THE RELOCATION OF UTILITIES IS CONSIDERED INCIDENTAL TO CONSTRUCTION.
- 5. THE CONTRACTOR IS ADVISED SOME UTILITY COMPANIES HAVE RELOCATED THEIR FACILITIES PRIOR TO THE START OF CONSTRUCTION UNDER THIS CONTRACT. RELOCATED UTILITIES ARE NOTED IN THE DRAWINGS. BEFORE COMMENCING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL OBTAIN FROM THE ENGINEER ANY AVAILABLE INFORMATION REGARDING RELOCATED POSITIONS OF UTILITIES WITHIN THE PROJECT LIMITS. WHETHER VARIOUS UTILITIES HAVE BEEN RELOCATED OR REMAIN IN THEIR ORIGINAL LOCATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THEIR EXACT LOCATION AT THE TIME OF CONSTRUCTION AND TO AVOID DAMAGE THERETO.
- 6. THERE MAY BE ABANDONED UTILITIES WITHIN THE CONSTRUCTION LIMITS NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CONFIRM SAID UTILITIES ARE ABANDONED. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THESE LINES AS NECESSARY FOR CONSTRUCTION.
- 7. CONTRACTOR SHALL CONFIRM ASSUMED DEPTHS OF UTILITIES AND PROTECT THEM AS NECESSARY DURING CONSTRUCTION.
- 8. CONTRACTOR SHALL VERIFY SANITARY AND STORM SEWER PIPE SIZES AND INVERTS PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING MANHOLES AND/OR PIPE. NO ADDITIONAL PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR MATERIAL THAT IS ORDERED AND DOES NOT MATCH PIPE SIZES AND INVERTS THAT ARE TO BE CONFIRMED PRIOR TO CONSTRUCTION.
- 9. AT POINTS WHERE THE CONTRACTOR'S OPERATIONS ARE ADJACENT TO FACILITIES OF UTILITY COMPANIES, DAMAGE TO WHICH MIGHT RESULT IN CONSIDERABLE EXPENSE, LOSS, OR INCONVENIENCE, WORK SHALL NOT COMMENCE UNTIL ALL ARRANGEMENTS NECESSARY FOR THE PROTECTION THEREOF HAVE BEEN MADE.
- IN THE EVENT OF INTERRUPTION OF UTILITY SERVICES AS A RESULT OF ACCIDENTAL BREAKAGE OR AS A RESULT OF BEING EXPOSED OR UNSUPPORTED, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE PROPER AUTHORITY AND SHALL COOPERATE WITH SAID AUTHORITY IN THE RESTORATION OF SERVICE. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.
- 11. REPAIR ALL FIELD/DRAIN TILES ENCOUNTERED DURING CONSTRUCTION AS SPECIFIED OR AT A MINIMUM TO ALLOW FLOW USING LIKE MATERIAL IN NEW CONDITION WITH CITY APPROVED CONNECTIONS. THE CONTRACTOR SHALL RECORD EXISTING TYPE, SIZE, LOCATION AND DEPTH OF ALL FIELD/DRAIN TILES ENCOUNTERED AND REPAIRED DURING CONSTRUCTION. PROVIDE DATA TO THE CITY FOR INCORPORATION INTO RECORD DRAWINGS.
- 12. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER FOR ANY VARIANCE FROM THE APPROVED

GENERAL WATER NOTES

- 1. CONTACT CEDAR RAPIDS UTILITIES DEPARTMENT WATER ENGINEERING OFFICE (319) 286-5950 SEVEN (7) DAYS PRIOR TO PROJECT START TO SCHEDULE THE FOLLOWING WORK ORDERS (MOST WORK ORDERS) REQUIRE 24 HOURS MINIMUM NOTICE):
 - •OBTAIN A 'WATER START-WORK ORDER' •WATER SHUT DOWN (REQUIRES 48 HOURS MINIMUM NOTICE IF WATER SUPPLY IS INTERRUPTED).
 - •TAP •FLUSH & FILL
 - •OTHER WATER SYSTEM RELATED SERVICES
- 2. CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS ADVANCE NOTICE TO WATER CUSTOMERS WHOSE WATER SUPPLY IS TO BE INTERRUPTED BY A WATER MAIN SHUT-DOWN. SERVICE LINE TRANSFERS OR OTHER SCHEDULED SERVICE INTERRUPTIONS REQUIRE A MINIMUM OF 24
- HOURS NOTICE. WATER CUSTOMERS SHALL BE PROVIDED WITH AN EXPECTED START TIME AND DURATION OF EACH SERVICE INTERRUPTION.
- 3. CEDAR RAPIDS WATER DIVISION PERSONNEL SHALL OPERATE ALL SYSTEM VALVES.
- 4. THE CEDAR RAPIDS WATER DIVISION DOES NOT GUARANTEE THAT A SHUT-DOWN WILL BE COMPLETE, WITHOUT LEAK-THROUGH OR OCCUR WITHIN A SPECIFIED TIME FRAME. CONTRACTORS COST FOR PERSONNEL, EQUIPMENT OR WORKING DAYS WHILE WAITING ON A SHUT-DOWN IS CONSIDERED INCIDENTAL.
- 5. CONTRACTOR MAY NEED TO ACCOMMODATE MEDICAL. COMMERCIAL OR INDUSTRIAL CUSTOMERS BY SCHEDULING WATER SERVICE INTERRUPTIONS FOR 'AFTER-HOURS', EARLY MORNING, LATE AFTERNOON, **EVENING OR OVERNIGHT** AFTER-HOURS OR OVERTIME WORK WILL BE INCIDENTAL

GENERAL EROSION CONTROL NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL POTENTIAL POLLUTION AND SOIL EROSION CONTROL REQUIREMENTS OF THE IOWA CODE, THE IOWA DEPARTMENT OF NATURAL RESOURCES (IDNR) NPDES PERMIT, THE U.S. CLEAN WATER ACT, AND ANY LOCAL ORDINANCES.
- 2. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES NECESSARY TO PROTECT AGAINST SILTATION, EROSION AND DUST POLLUTION WITHIN THE CONSTRUCTION LIMITS AND ANY OFF-SITE AREAS USED FOR THIS PROJECT.
- 3. THE CITY OF CEDAR RAPIDS HAS ACQUIRED AN NPDES PERMIT FOR THIS PROJECT FOR EROSION AND SEDIMENT CONTROL. TO SATISFY THE REQUIREMENTS OF THE NPDES PERMIT, THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN THE TEMPORARY EROSION CONTROL SYSTEMS AT THE LOCATIONS SHOWN ON THE SWPPP PLAN AND AS DIRECTED BY THE ENGINEER. ESTIMATED QUANTITIES FOR THE TEMPORARY EROSION CONTROL SYSTEMS ARE INCLUDED IN THE PROJECT AND MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- 4. ALL DOCUMENTS RELATED TO THE NPDES PERMIT INCLUDING, BUT NOT LIMITED TO, THE NOTICE OF INTENT, PROOF OF PUBLICATIONS, DISCHARGE AUTHORIZATION LETTER, CURRENT SWPPP, SITE INSPECTION LOG, AND OTHER ITEMS SHALL BE KEPT ON SITE AT ALL TIMES AND MUST BE PRESENTED TO ANY JURISDICTIONAL AGENCIES UPON REQUEST. FAILURE TO COMPLY WITH THE NPDES PERMIT REQUIREMENTS IS A VIOLATION OF THE CLEAN WATER ACT AND THE CODE OF IOWA.
- 5. TO THE EXTENT POSSIBLE, LEAVE EXISTING GRASS PARKWAY AREAS UNDISTURBED UNTIL NEW CURB LINES HAVE BEEN BACKFILLED.
- 6. IN CONJUNCTION WITH BACKFILLING NEW CURB LINES, GRADE PARKWAY AREAS, BETWEEN FRONT OF SIDEWALK AND BACK OF CURB, TO ESTABLISH POSITIVE DRAINAGE TO THE STREET. TAKE APPROPRIATE CARE TO PROTECT TREE ROOT SYSTEMS AND FIXED OBJECTS DURING THIS WORK.
- 7. DO NOT RESTRICT DRAINAGE CHANNELS AND PROTECT ALL EXISTING DRAINAGE STRUCTURES. THE CONTRACTOR IS FULLY LIABLE FOR ALL DAMAGE TO PUBLIC OR PRIVATE PROPERTY CAUSED BY THEIR ACTION OR INACTION IN THE HANDLING OF STORM WATER FLOWS DURING CONSTRUCTION. EXTRA GRADING WORK NEEDED TO MAINTAIN POSITIVE DRAINAGE WITHIN THE CONSTRUCTION LIMITS IS CONSIDERED INCIDENTAL TO CONSTRUCTION.

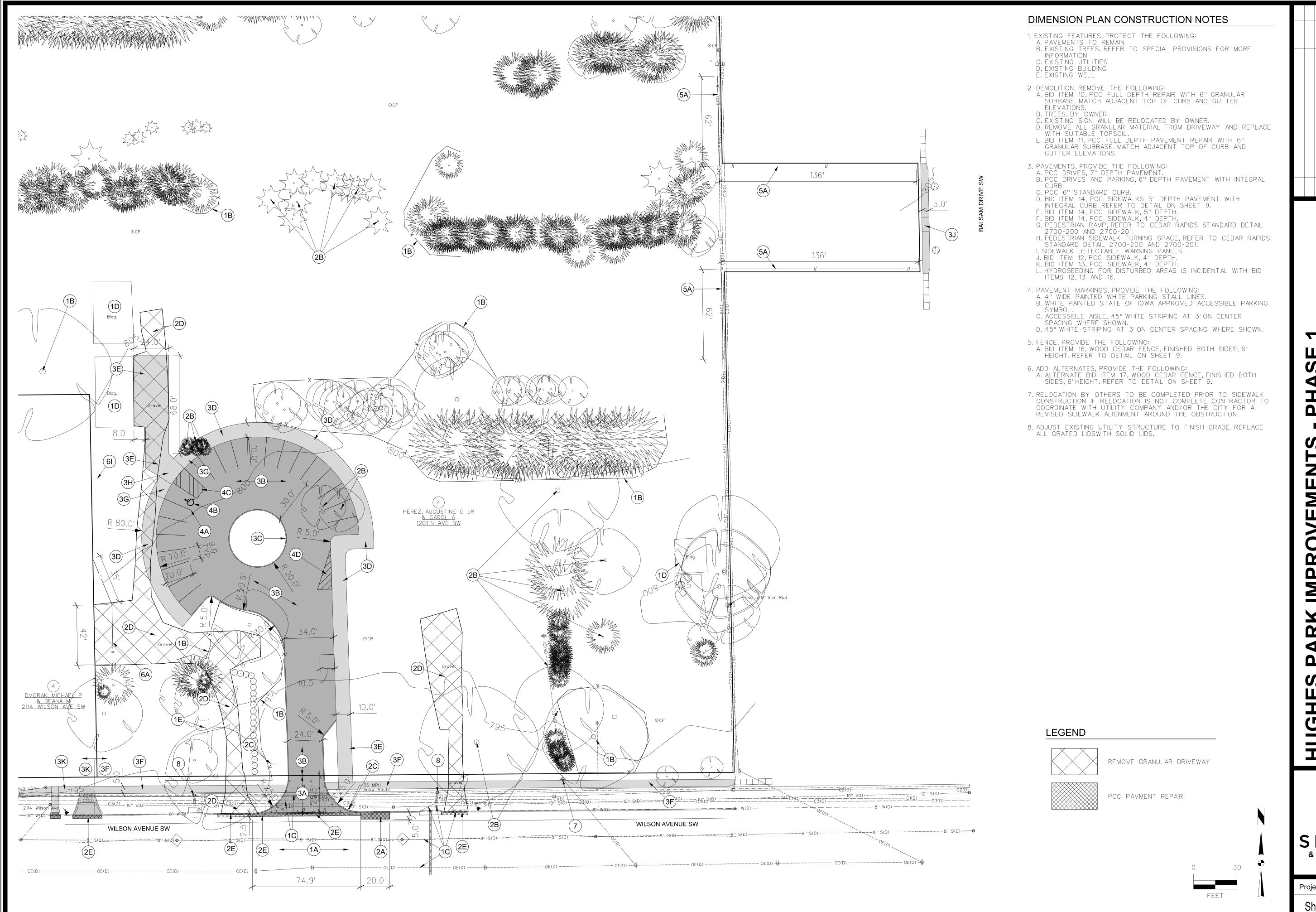
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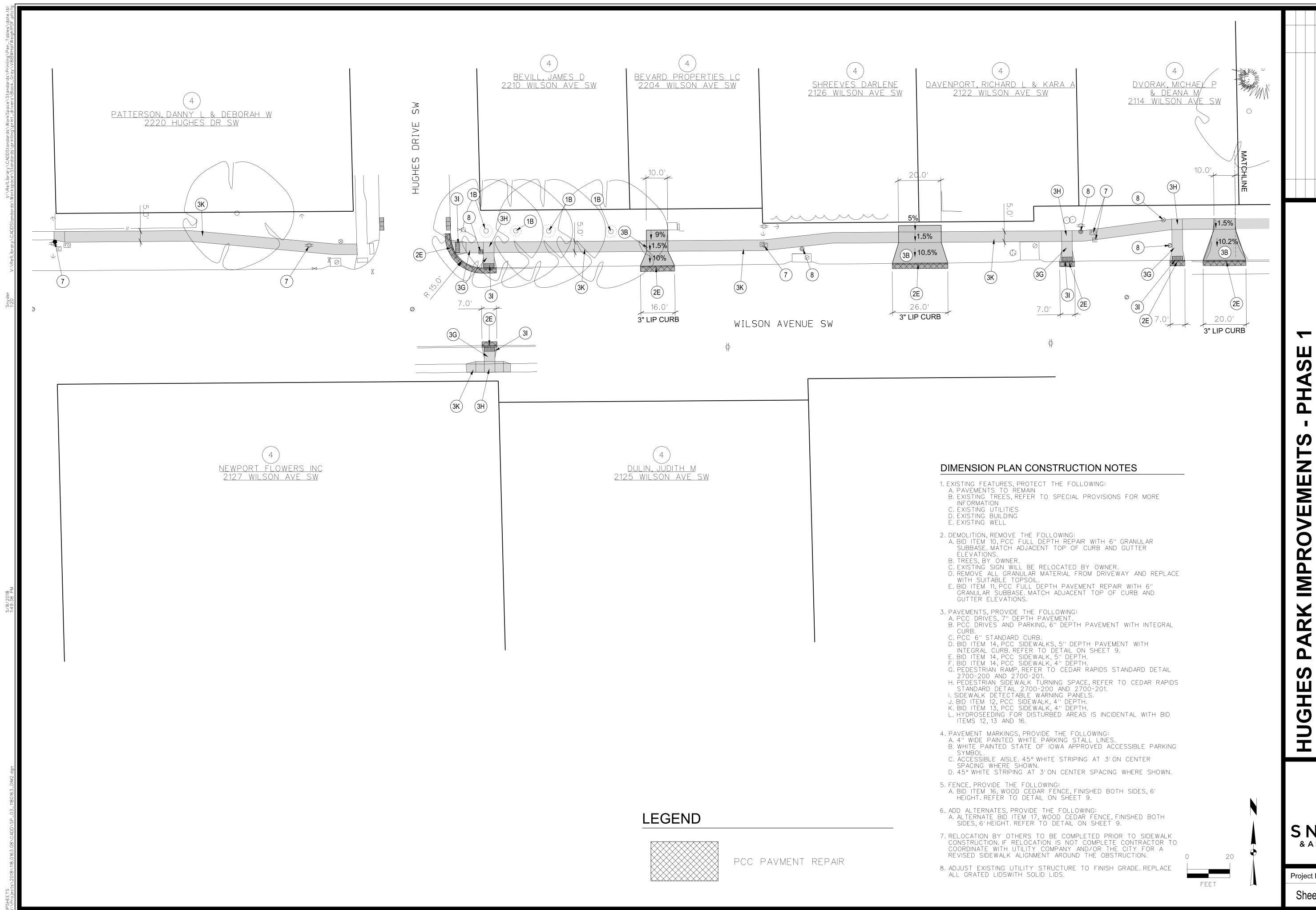
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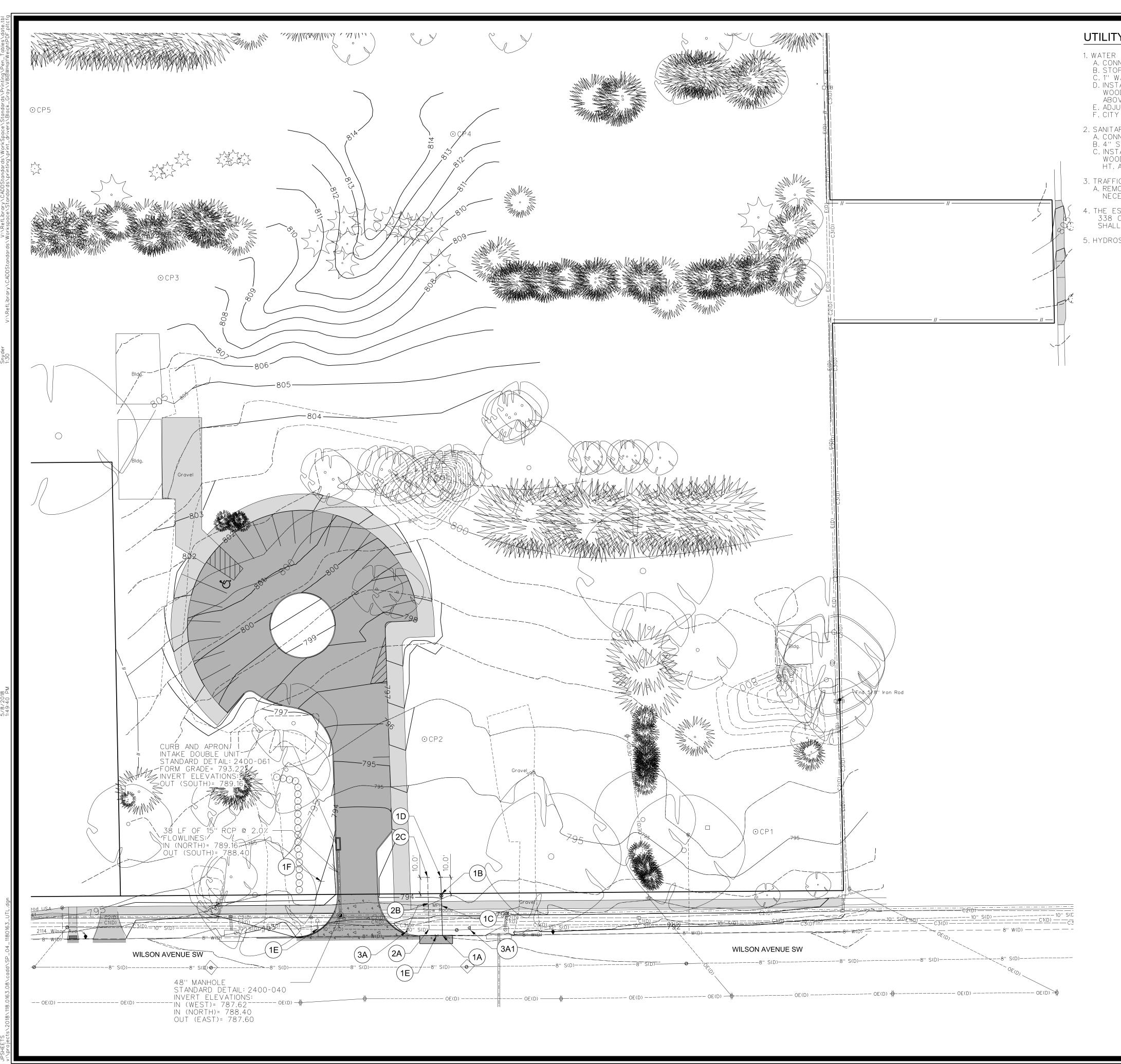
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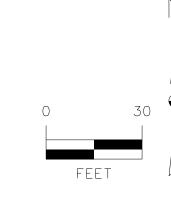


UTILITY PLAN CONSTRUCTION NOTES

- 1. WATER SERVICES, PROVIDE THE FOLLOWING:
 A. CONNECT TO EXISTING 8" WATER MAIN.
 B. STOP BOX.
 C. 1" WATER SERVICE LINE.
 D. INSTALL TEMPORARY CAP OR PLUG AT THE END OF THE SERVICE. INSTALL A 4"x4"
 WOOD POST PAINTED BLUE AT THE END OF THE SERVICE LINE. POST TO BE 48" HT.
- E. ADJUST WATER VALVE TO FINISHED GRADE ELEVATION. F. CITY TO RELOCATE EXISTING PARK SIGN.

- 2. SANITARY SEWER SERVICES; PROVIDE THE FOLLOWING:
 A. CONNECT TO EXISTING 10" SANITARY SERVICE LINE.
 B. 4" SANITARY SEWER SERVICE LINE.
 C. INSTALL TEMPORARY CAP OR PLUG AT THE END OF THE SERVICE. INSTALL A 4"x4"
 WOOD POST PAINTED GREEN AT THE END OF THE SERVICE LINE. POST TO BE 48"
 HT. ABOVE GRADE.
- 3. TRAFFIC SIGNS: A. REMOVE AND REINSTALL TRAFFIC SIGNS WITH NEW POST, ANCHOR, AND ALL HARDWARE NECESSARY FOR INSTALLATION. INSTALL EXISTING SIGNS AT LOCATION "3A1".
- 4. THE ESTIMATED PROJECT UNCLASSIFIED EXCAVATION QUANTITY INCLUDES APPROXIMATELY 338 CY OF CUT AND 2,375 CY OF ADJUSTED FILL +30% SHRINKAGE. THE CONTRACTOR SHALL VERIFY ESTIMATED QUANTITIES PRIOR TO BIDDING.
- 5. HYDROSEEDING OF ALL DISTURBED AREAS IS INCLUDED.

CONTROL POINTS			
POINT#	NORTHING	EASTING	ELEVATION
CP 1	3452425.92	5410699.64	796.39
CP2	3452482.22	5410498.33	795.67
CP3	3452762.91	5410337.86	808.66
CP4	3452850.38	5410515.62	812.41
CP5	3452865.06	5410251.59	815.59





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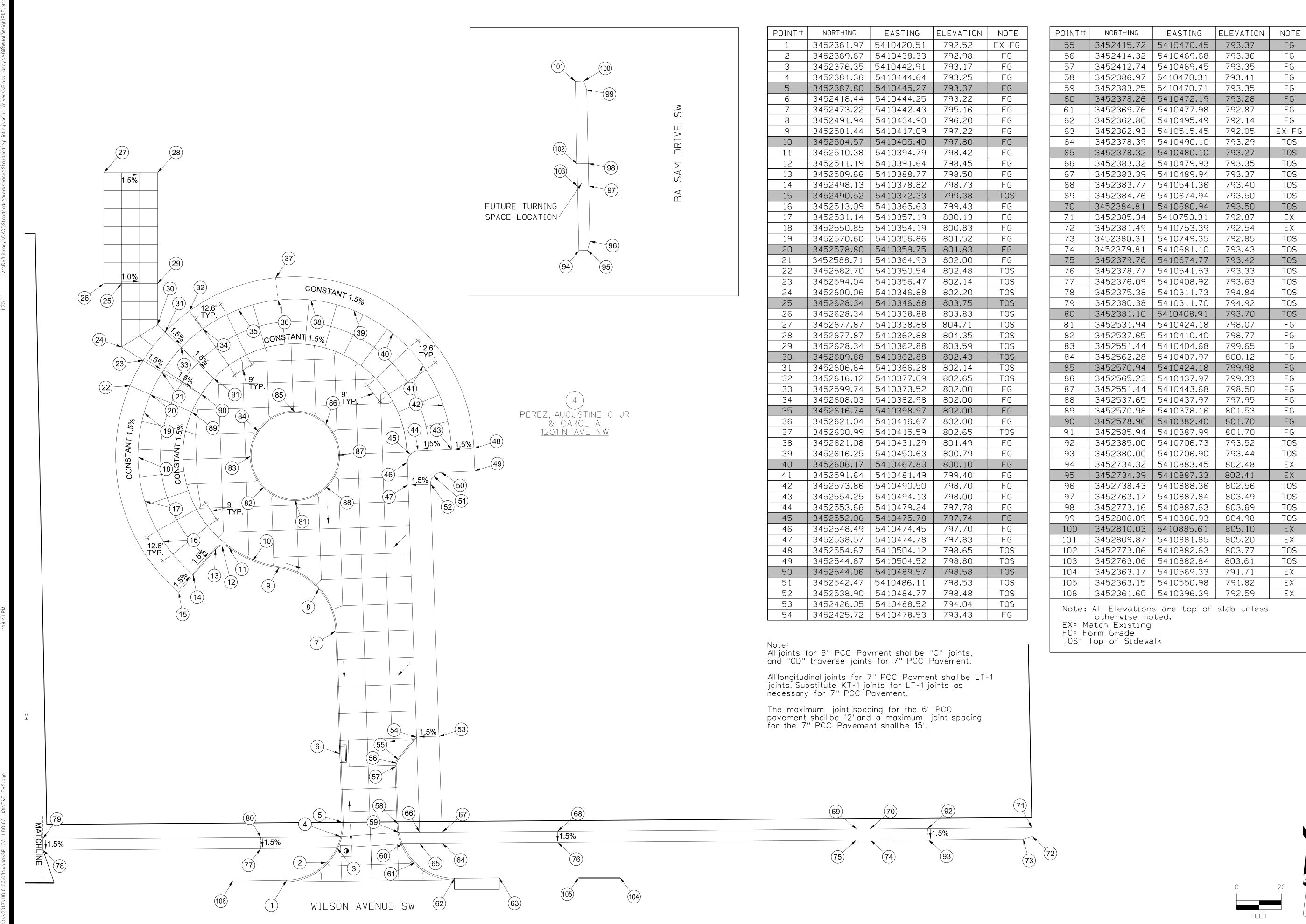
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SIDEWALK

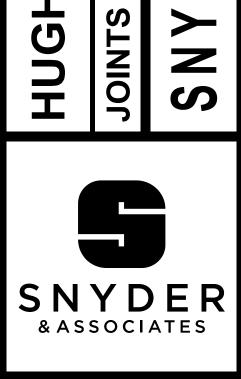
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POINT#	NORTHING	EASTING	ELEVATION	NOTE
55	3452415.72	5410470.45	793.37	FG
56	3452414.32	5410469.68	793.36	FG
57	3452412.74	5410469.45	793.35	FG
58	3452386.97	5410470.31	793.41	FG
59	3452383.25	5410470.71	793.35	FG
60	3452378.26	5410472.19	793.28	FG
61	3452369.76	5410477.98	792.87	FG
62	3452362.80	5410495.49	792.14	FG
63	3452362.93	5410515.45	792.05	EX FG
64	3452378.39	5410490.10	793.29	TOS
65	3452378.32	5410480.10	793.27	TOS
66	3452383.32	5410479.93	793.35	TOS
67	3452383.39	5410489.94	793.37	TOS
68	3452383.77	5410541.36	793.40	TOS
69	3452384.76	5410674.94	793.50	TOS
70	3452384.81	5410680.94	793.50	TOS
71	3452385.34	5410753.31	792.87	EX
72	3452381.49	5410753.39	792.54	EX
73	3452380.31	5410749.35	792.85	TOS
74	3452379.81	5410681.10	793.43	TOS
75	3452379.76	5410674.77	793.42	TOS
76	3452378.77	5410541.53	793.33	TOS
77	3452376.09	5410408.92	793.63	TOS
78	3452375.38	5410311.73	794.84	TOS
79	3452380.38	5410311.70	794.92	TOS
80	3452381.10	5410408.91	793.70	TOS
81	3452531.94	5410424.18	798.07	FG
82	3452537.65	5410410.40	798.77	FG
83	3452551.44	5410404.68	799.65	FG
84	3452562.28	5410407.97	800.12	FG
85	3452570.94	5410424.18	799.98	FG
86	3452565.23	5410437.97	799.33	FG
87	3452551.44	5410443.68	798.50	FG
88	3452537.65	5410437.97	797.95	FG
89	3452570.98	5410378.16	801.53	FG
90	3452578.90	5410382.40	801.70	FG
91	3452585.94	5410387.99	801.70	FG
92	3452385.00	5410706.73	793.52	TOS
93	3452380.00	5410706.90	793.44	TOS
94	3452734.32	5410883.45	802.48	EX
95	3452734.39	5410887.33	802.41	EX
96	3452738.43	5410888.36	802.56	TOS
97	3452763.17	5410887.84	803.49	TOS
98	3452773.16	5410887.63	803.69	TOS
99	3452806.09	5410886.93	804.98	TOS
100	3452810.03	5410885.61	805.10	EX
101	3452809.87	5410881.85	805.20	EX
102	3452773.06	5410882.63	803.77	TOS
103	3452763.06	5410882.84	803.61	TOS
104	3452363.17	5410569.33	791.71	EX
105	3452363.15	5410550.98	791.82	EX
106	3452361.60	5410396.39	792.59	EX
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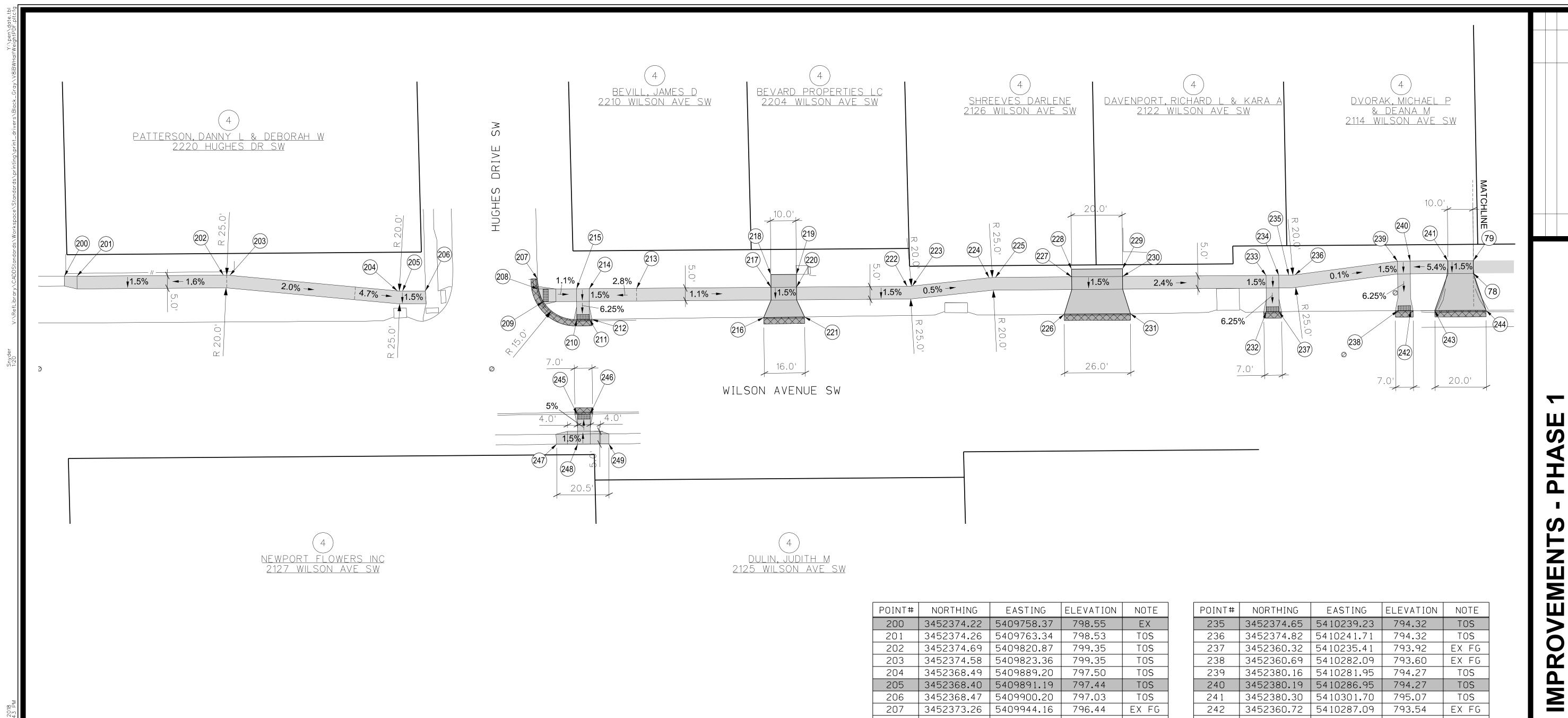
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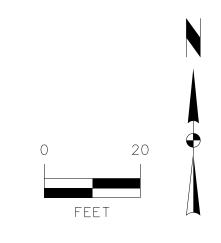
POINT#	NORTHING	EASTING	ELEVATION	NOTE
200	3452374.22	5409758.37	798.55	EX
201	3452374.26	5409763.34	798.53	TOS
202	3452374.69	5409820.87	799.35	TOS
203	3452374.58	5409823.36	799.35	TOS
204	3452368.49	5409889.20	797.50	TOS
205	3452368.40	5409891.19	797.44	TOS
206	3452368.47	5409900.20	797.03	TOS
207	3452373.26	5409944.16	796.44	EX FG
208	3452369.22	5409944.47	796.77	EX FG
209	3452364.23	5409946.47	796.34	EX FG
210	3452357.23	5409959.61	796.08	EX FG
211	3452357.30	5409964.61	796.04	EX FG
212	3452357.31	5409965.50	796.07	EX FG
213	3452369.47	5409983.12	797.08	TOS
214	3452369.37	5409964.52	796.56	TOS
215	3452369.33	5409959.52	796.60	TOS
216	3452358.03	5410033.09	795.53	EX FG
217	3452369.90	5410035.90	796.52	TOS
218	3452374.89	5410035.86	796.96	EX
219	3452374.97	5410045.86	796.85	EX
220	3452369.97	5410045.90	796.40	TOS
221	3452358.25	5410049.07	795.37	EX FG
222	3452370.29	5410089.37	796.19	TOS
223	3452370.41	5410091.36	796.18	TOS
224	3452373.65	5410121.57	796.04	TOS
225	3452373.80	5410124.05	796.02	TOS
226	3452359.34	5410151.06	794.83	EX FG
227	3452374.02	5410153.97	795.88	TOS
228	3452377.02	5410153.95	796.07	EX
229	3452377.17	5410173.95	795.83	EX
230	3452374.17	5410173.97	795.68	TOS
231	3452359.51	5410177.05	794.53	EX FG
232	3452360.25	5410230.41	793.93	EX FG
233	3452374.58	5410230.30	794.35	TOS
234	3452374.62	5410235.30	794.33	TOS

POINT#	NORTHING	EASTING	ELEVATION	NOTE
235	3452374.65	5410239.23	794.32	TOS
236	3452374.82	5410241.71	794.32	TOS
237	3452360.32	5410235.41	793.92	EX FG
238	3452360.69	5410282.09	793.60	EX FG
239	3452380.16	5410281.95	794.27	TOS
240	3452380.19	5410286.95	794.27	TOS
241	3452380.30	5410301.70	795.07	TOS
242	3452360.72	5410287.09	793.54	EX FG
243	3452360.76	5410296.59	793.44	EX FG
244	3452360.83	5410316.74	793.13	EX FG
245	3452320.08	5409959.89	796.02	EX FG
246	3452320.14	5409964.89	795.98	EX FG
247	3452308.29	5409951.72	796.50	EX
248	3452308.31	5409959.98	796.48	TOS
249	3452308.42	5409972.18	796.41	EX

Note: All Elevations are top of slab unless

otherwise noted.

EX= Match Existing
FG= Form Grade
TOS= Top of Sidewalk



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POLLUTION PREVENTION PLAN

This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP).

This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed per plan revisions or by contract modification, will be readily available for review.

All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The prime contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP.

I. ROLES AND RESPONSIBILITES

A. Designer:

- 1. Prepares Base PPP included in the project plan.
- 2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.
- 3. Signature authority on the Base PPP and NOI.
- B. Contractor/Subcontractor:
- 1. Affected contractors/subcontractors are co-permittees with the IDOT and will sign a certification statement adhering to the requirements of the NPDES permit and this PPP plan. Affected contractors/subcontractors are anyone responsible for sediment or erosion controls or involved in land disturbing activities. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
- 2. Submit an Erosion Control Implementation Plan (ECIP) according to Specifications Section 2602 and any additional plan notes.
- 3. Install and maintain appropriate controls.
- 4. Supervise and implement good housekeeping practices.
- 5. Conduct joint required inspections of the site with inspection staff.
- 6. Comply with training and certification requirements of Specifications Section 2602.
- 7. Signature authority on Co-Permittee Certification Statements and storm water inspection reports. C. RCE/Inspector:
- 1. Update PPP whenever there is a change in design, construction, operation or maintenance, which has a significant effect on the discharge of pollutants from the project.
- 2. Maintain an up-to-date record that identifies contractors and subcontractors as co-permittees.
- 3. Make these plans available to the DNR upon their request.
- 4. Conduct joint required inspections of the site with the contractor/subcontractor.
- 5. Complete an inspection report after each inspection.
- 6. Signature authority on storm water inspection reports and Notice of Discontinuation (NOD).

II. PROJECT SITE DESCRIPTION

- A. This Pollution Prevention Plan (PPP) is for the construction of a Parking Lot for Hughes Park.
- B. This PPP covers approximately 8.24 acres with an estimated 3.24 acres being disturbed. The
- portion of the PPP covered by this contract has 3.24 acres disturbed.
- C. The PPP is located in an area of 1 type of soil association (Dinsdale-urban land Complex with slopes 2-5% & 5-9%)
- The estimated weighted average runoff coefficient number for this PPP after completion will be 0.68 D. Storm Water Site Map - Multiple sources of information comprise the base storm water site map including:
- 1. Drainage patterns Plan and Profile sheets and Situation plans.
- 2. Proposed Slopes Cross Sections.
- 3. Areas of Soil Disturbance construction limits shown on Plan and Profile sheets.
- 4. Location of Structural Controls construction limits shown on Plan and Profile sheets.
- 5. Locations of Non-structural Controls construction limits shown on Plan and Profile sheets.
- 6. Locations of Stabilization Practices generally within construction limits shown on Plan and Profile sheets.
- 7. Surface Waters (including wetlands) Project Location Map and Plan and Profile sheets.
- 8. Locations where storm water is discharged Plan and Profile sheets.
- E. The base site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries.
- F. Runoff from this work will flow into storm sewer.

III. CONTROLS

- A. The contractor's ECIP specified in Article 2602.03 for accomplishment of storm water controls should clearly describe the intended sequence of major activities and for each activity define the control measure and the timing during the construction process that the measure will be implemented.
- B. Preserve vegetation in areas not needed for construction.
- C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water monitoring inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B.
- 1. EROSION AND SEDIMENT CONTROLS
- a. Stabilization Practices 1) Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.
 - 2) Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:
 - a) Permanently ceased on any portion of the site, or
 - b) Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.
 - 3) Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above.
- 4) Permanent and Temporary Stabilization practices to be used for this project are located in the Plan Sheets Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation.

POLLUTION PREVENTION PLAN

- 5) Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.
- 6) Preservation of topsoil: Information may be found in the General Notes located in the plans sheets.
- b. Structural Practices
- 1) Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas. 2) Structural practices to be used for this project are located in the plan sheets.
- c. Storm Water Management
 - 1) Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the plan sheets. The installation of these devices may be subject to Section 404 of the Clean Water Act.
- 2. OTHER CONTROLS
 - a. Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive laws, rules or regulations shall apply.
 - 1) Vehicle Entrances and Exits Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
 - 2) Material Delivery, Storage and Use Implement practices to prevent discharge of construction materials during delivery, storage, and use.
 - 3) Stockpile Management Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
 - 4) Waste Disposal Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.
 - 5) Spill Prevention and Control Implement procedures to contain and clean-up spills and prevent material discharges to the storm drain system and waters of the state. 6) Concrete Residuals and Washout Wastes - Designate temporary concrete washout facilities for rinsing out concrete trucks.
 - Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.
 - 7) Concrete Grooving/Grinding Slurry Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project.
 - 8) Vehicle and Equipment Storage and Maintenance Areas Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onside fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water.
 - 9) Litter Management Ensure employees properly dispose of litter.
 - 10) Dewatering Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point.
- 3. APPROVED STATE OR LOCAL PLANS

During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

IV. MAINTENANCE PROCEDURES

The contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their capacity.

V. INSPECTION REQUIREMENTS

- A. Inspections shall be made jointly by the contractor and the contracting authority at least once every seven calendar days. Storm water monitoring inspections will include:
- 1. Date of the inspection.
- 2. Summary of the scope of the inspection.
- 3. Name and qualifications of the personnel making the inspection.
- 5. Review erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving
- 6. Major observations related to the implementation of the PPP.
- 7. Identify corrective actions required to maintain or modify erosion and sediment control measures.
- B. Include storm water monitoring inspection reports in the Amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within 3 calendar days of the inspection.

VI. NON-STORM WATER DISCHARGES

This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of patio blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION

Silts, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

VIII. DEFINITIONS

- A. Base PPP Initial Pollution Prevention Plan.
- B. Amended PPP May include Plan Revisions or Contract Modifications for new items, storm water monitoring inspection reports, and fieldbook entries made by the inspector.
- C. IDR Inspector's Daily Report this contains the inspector's daily diary and bid item postings.
- D. Controls Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).
- E. Signature Authority Representative from Designer, Contractor/Subcontractor, or RCE/Inspector authorized to sign various storm water documents.

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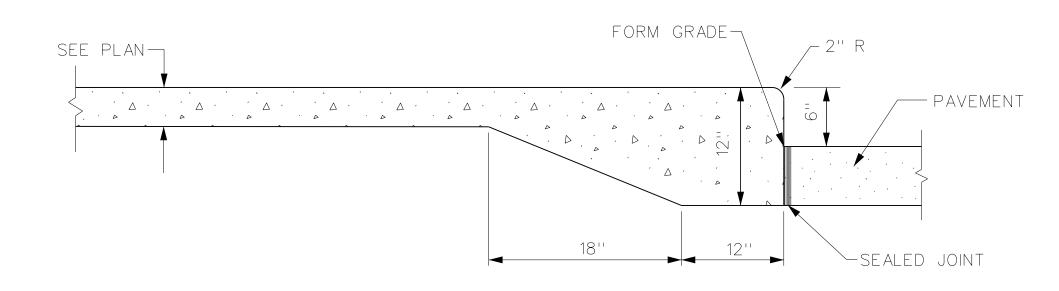
POLLUTION PREVENTION PLAN

CERTIFICATION STATEMENT

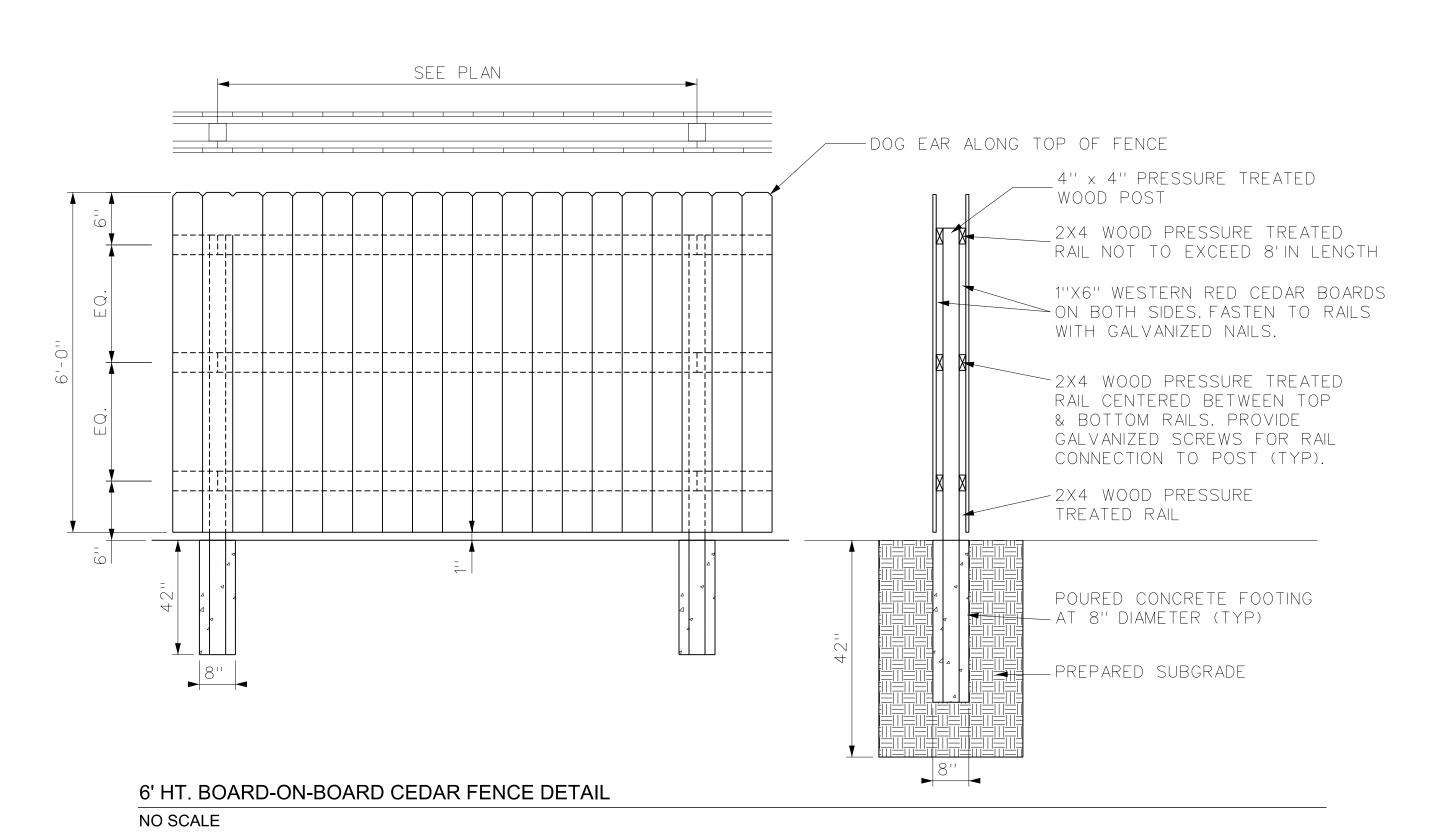
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

05/08/2018 Signature Patrick Schwickerath P.E. Signature

Printed or Typed Name



INTEGRAL WALK/CURB DETAIL NO SCALE



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