EXISTING UTILITY NOTE

THE CONTRACTOR SHALL NOTIFY IOWA ONE CALL NO LESS THAN 48 HRS. IN ADVANCE OF ANY DIGGING OR EXCAVATION.

WHERE PUBLIC LITH ITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR

SPECIFICATION REFERENCE

THE 2022 IOWA SUDAS STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND THE CITY OF

LEGEND

Water valve

Monitoring well

Yard hydrant

Gas meter

Gas valve

WELD Well

Water service shut-off

Water main manhole

Air conditioning unit

Electric manhole

Electric pedestal

Utility hand hole Utility pole

Utility pole with light

Traffic signal

TV pedestal

Down spout

Tree shrub Deciduous tree

Traffic signal with light

Communication pedestal Telephone booth

and trunk diameter

and trunk diameter

Coniferous tree

Traffic manhole

Ground up light

Light pole

O O Billboard sign

Street sign

Electric transforme

Existing / Proposed Round iron rebar Round iron pipe Portland cement concrete Corrugated plastic pipe Cast iron pipe Back of curb to back of curb Public drainage easement Public gas easement Public ingress / egress easement MidAmerican Energy Co underground electric line easement Public utilty easement Public sanitary sewer easement S.W.F.E.

G.E.

I.E.E.

M.E.C.

P.U.E.

S.S.E.

S.T.S.E.

Subject boundary line ______ Proposed boundary line

— OHE — Overhead electric & wires — OHC — Overhead communication —————— Underground television ---- UGC — Underground communication

BENCHMARKS

2. CUT 'X' IN CENTERLINE OF SW 16TH STREET, 82' +/- EAST OF SANITARY MANHOLE IN THE

INTERSECTION OF SW 16TH STREET AND SW SCHOOL STREET. ELEVATION = 960.89'

1. CUT 'X' ON PCC TRAIL, 250' +/- SOUTH OF SW 16TH, WEST OF SOUTH ANKENY BLVD.

Edge of tree dripline — – — Construction limits

GENERAL NOTES

1. ONE WEEK PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY PROJECT ENGINEER AND: A. CITY OF ANKENY

B. ACCURATE DEVELOPMENT

2. ALL MATERIALS AND CONSTRUCTION RELATED TO WORK CONDUCTED AS PART OF THESE PLANS THE CITY OF ANKENY SUPPLEMENTAL SPECIFICATIONS. AND DETAILS SHOWN ON THIS PLAN UNLESS REMOVAL. REPLACEMENT. OR REINSTALLATION OF ANY ITEM, BOTH ON- AND OFF-SITE, ADVERSEL

MAY AFFECT CONSTRUCTION WITH OWNER AND ENGINEER AT LEAST ONE WEEK PRIOR TO COMMENCING CONSTRUCTION. OWNER AND ENGINEER SHALL RESPOND IN A TIMELY MANNER TO ALLOW CONSTRUCTION TO PROCEED.

4. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER IMMEDIATELY OF ANY ISSUE ENCOUNTERED DURING CONSTRUCTION THAT MAY AFFECT PROPOSED DESIGN. OWNER AND ENGINEER SHALL RESPOND IN A TIMELY MANNER TO ALLOW CONSTRUCTION TO PROCEED

ALL UTILITIES AND STRUCTURES. DAMAGE TO UTILITIES AND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

BE CONSIDERED INCIDENTAL TO PROJECT COST. NOTIFY CITY OF ANKENY AND NILLES ASSOCIATES PRIOR TO RECONNECTION SO THAT LOCATION OF RECONNECTION CAN BE DOCUMENTED AND INCLUDED ON RECORD DRAWINGS. REPAIRS TO TILE LINES ARE TO BE VERIFIED BY CITY OF ANKEN'

8. SIGNS SHALL CONFORM TO THE CITY OF ANKENY SIGN ORDINANCE.

9. DETAILS AND NOTES INCLUDED WITHIN THESE PLANS SHALL BE USED FOR CONSTRUCTION. FOR ITEMS WITH NO DETAILS OR NOTES INCLUDED WITHIN THIS PLANS SET, FOLLOW SUDAS DETAILS AND SPECIFICATIONS FOR MATERIALS AND CONSTRUCTION.

10. CONTRACTOR SHALL VERIFY ALL MEASUREMENTS SHOWN ON THE PLANS PRIOR TO CONSTRUCTION. IF ANY DISCREPANCY IS FOUND, NOTIFY ENGINEER IMMEDIATELY BEFORE

11. COORDINATE ALL WORK ACTIVITIES WITH ANY OTHER CONSTRUCTION PROJECTS IN THE AREA.

12. ANY DAMAGE TO PROPERTY THAT OCCURS AS A RESULT OF THE CONTRACTOR'S ACTIVITIES OR ACTIONS SHALL BE REPAIRED AND RESTORED IN KIND.

13. THE CONTRACTOR SHALL PROTECT UTILITY POLES NEAR CONSTRUCTION ACTIVITIES AS

14. FOR ALL WORK, THE CONTRACTOR SHALL PROVIDE ALL FIELD QUALITY CONTROL AND TESTING AS PER SUDAS. PROVIDE ENGINEER TESTING RESULTS.

15. PROVIDE TO THE PROJECT ENGINEER, ALL SHOP DRAWINGS FOR MATERIALS INCORPORATED IN

THE WORK SUPPLIED BY THE CONTRACTOR. 16. THE CONTRACTOR SHALL FOLLOW THE STORM WATER POLLUTION PREVENTION PLAN PREPARED

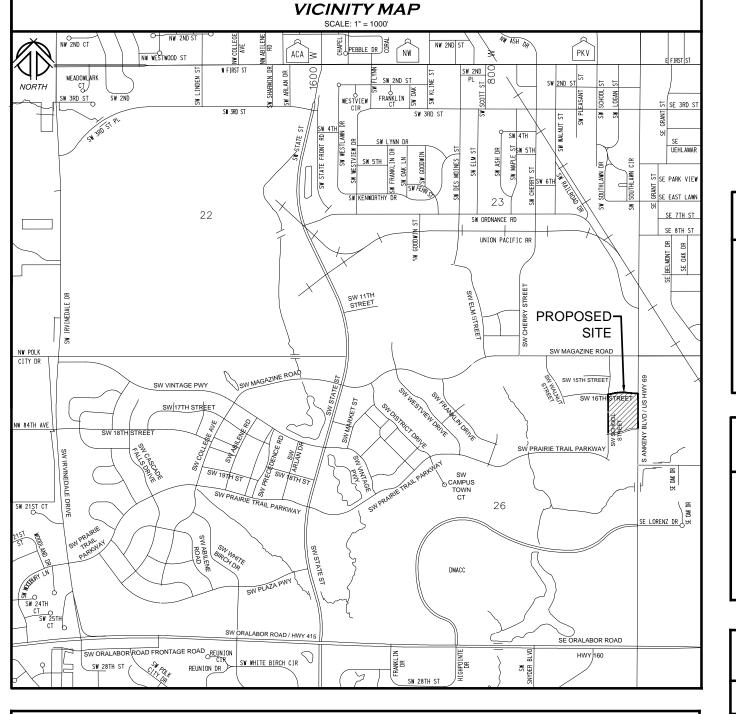
17. CONTRACTORS ON-SITE SHALL BE RESPONSIBLE FOR DAILY CLEAN-UP OF SEDIMENT AND DEBRIS TRACKED OR WASHED ONTO PUBLIC RIGHTS-OF-WAY AND AREAS OUTSIDE PROJECT LIMITS.

18. DURING THE PROGRESS OF THE WORK, IF SUBSURFACE OR LATENT PHYSICAL CONDITIONS ARE ENCOUNTERED AT THE SITE DIFFERING MATERIALLY FROM THOSE INDICATED ON THE PLANS OR IF UNKNOWN PHYSICAL, CULTURAL, AND/OR ENVIRONMENTAL CONDITIONS OF AN UNUSUAL NATURE ARE ENCOUNTERED AT THE SITE, THE PARTY DISCOVERING SUCH CONDITIONS SHALL PROMPTLY

19. CONTRACTOR AND EMPLOYEE VEHICLES WILL BE PARKED LEGALLY UNLESS NEEDED ON-STREET

NOTIFY THE CITY OF ANKENY, ACCURATE DEVELOPMENT, AND NILLES ASSOCIATES BEFORE THE

SITE IS FURTHER DISTURBED.



PROJECT SUMMARY

TOTAL SITE AREA: PROPOSED USE: **BUILDING INFORMATION:** 181,482 SF, 4.17ACRES MULTI-USE SINGLE-STORY COMMERCIAL SINGLE-STORY COMMERCIAL BUILDINGS

PROPOSED BUILDING COVERAGE:

PARKING REQUIREMENTS:

RESTAURANT = 4,260 SF/100 PATIO SEATING = 47 SEATS/4 COMMERCIAL = 22,073 SF/200

PARKING PROVIDED (PROPOSED):

190 STALLS (161 ON LOT & 29 ON STREET)

43 STALLS

12 STALLS

110 STALLS

165 STALLS

PROPOSED PRIVATE DRIVES & PARKING:

75,633 SF (INCLUDES R.O.W.) 64,704 SF (ON LOT)

PROPOSED SIDEWALKS:

20,205 SF (INCLUDES R.O.W.) 15,800 SF (ON LOT)

COMBINED HARD SURFACE:

108,248 SF OR 2.48 ACRES (60%) 27.06 ERU'S (108,248 / 4000)

OPEN SPACE:

73,234 SF (40%)

PROPERTY ZONING:

PRAIRIE TRAIL PUD (PLANNED UNIT DEVELOPMENT)

PROPERTY ADDRESS: 1630 SOUTH ANKENY BLVD.

OWNER

DEVELOPER

ACCURATE DEVELOPMENT

JARED JOHNSON 9500 UNIVERSITY, STE 2112 WEST DES MOINES, IOWA 50266

ACCURATE DEVELOPMENT JARED JOHNSON 9500 UNIVERSITY, STE 2112 WEST DES MOINES, IOWA 50266

LEGAL DESCRIPTION

LOT 1, HERITAGE COMMERCIAL AT PRAIRIE TRAIL PLAT 1, AN OFFICIAL PLAT, LOCATED IN THE CITY OF ANKENY, POLK COUNTY, IOWA.

CONTAINING 4.36 ACRES, MORE OR LESS

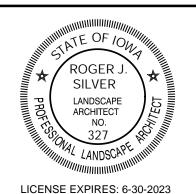
SAID PARCEL IS SUBJECT TO ANY AND ALL RESTRICTIONS, COVENANTS AND EASEMENTS OF RECORD

SHEET LIST TABLE				
SHEET NO.	SHEET TITLE	DESCRIPTION		
1	CV-1	COVER SHEET		
2	DP-1	DIMENSION PLAN		
3	DP-2	DIMENSION PLAN		
4	GP-1	GRADING & EROSION CONTROL PLAN		
5	GP-2	GRADING & EROSION CONTROL PLAN		
6	GP-3	GRADING & EROSION CONTROL PLAN		
7	GP-4	GRADING & EROSION CONTROL PLAN		
8	UP-1	UTILITY PLAN		
9	UP-2	UTILITY PLAN		
10	LP-1	LANDSCAPE PLAN		
11	LP-2	LANDSCAPE PLAN		
12	DT-1	DETAILS		

CONSTRUCTION SCHEDULE

SITE GRADING UTILITY INSTALLATION PAVING INSTALLATION

CERTIFICATIONS



I HEREBY CERTIFY THAT THE PORTION OF THIS TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND RESPONSIBLE CHARGE. I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA ROGER J. SILVER

FALL 2022

SPRING 2023

PAGES OR SHEETS COVERED BY THIS SEAL: SHEETS 1-7, 10-12

JACOB T. NILLES 26369

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.

PAGES OR SHEETS COVERED BY THIS SEAL: SHEETS 1-9, 12

JACOB T. NILLES, P.E. No 26369 MY LICENSE RENEWAL DATE IS DECEMBER 31, 2023

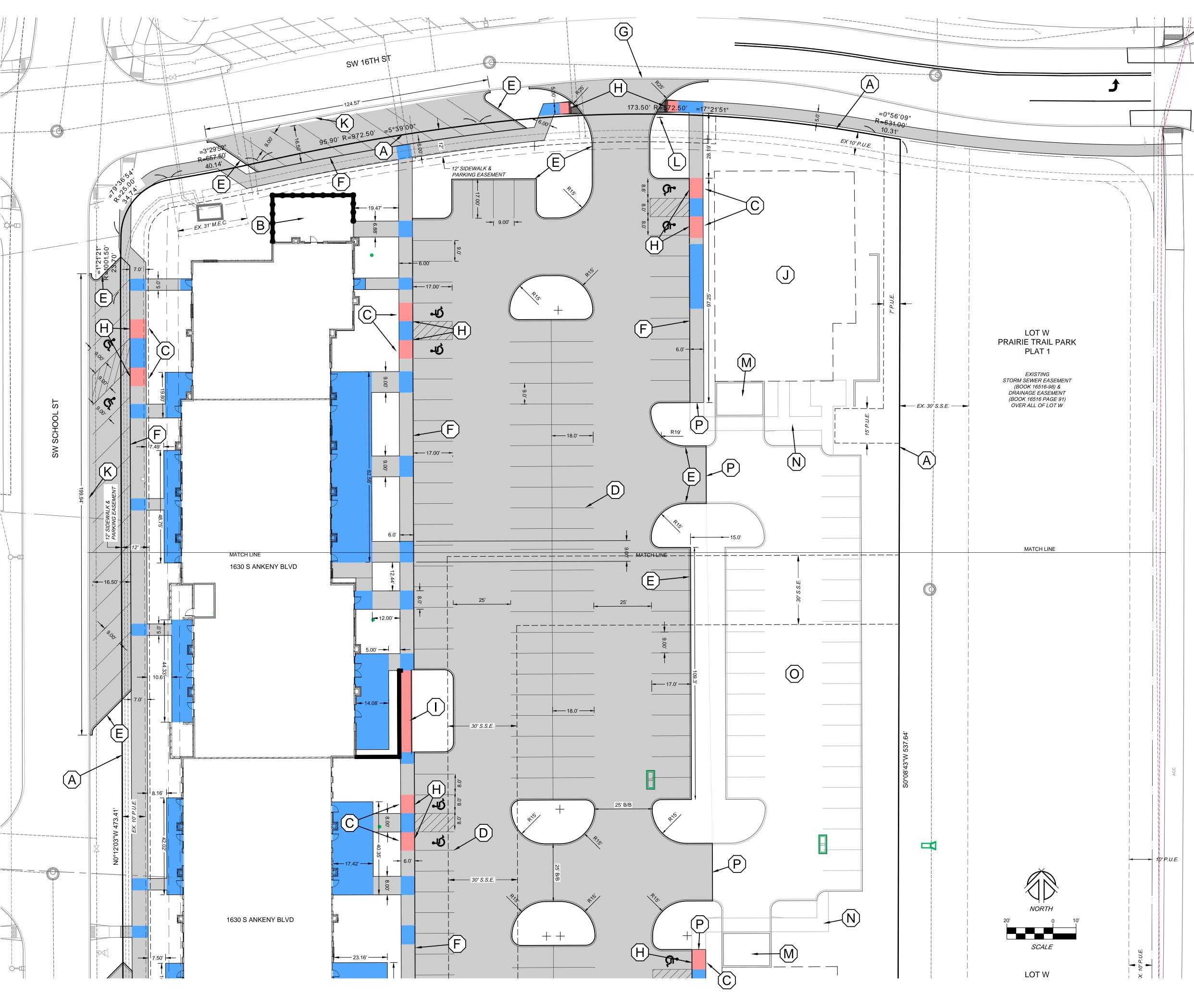
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ELEVATION = 957.45'

NAI NO.: 22111

SHEET CV-1



GENERAL DIMENSION PLAN NOTES

- BUILDING DIMENSIONS ARE SHOWN FOR CONTRACTOR CONVENIENCE ONLY. REFER TO ARCHITECTURAL PLAN FOR BUILDING DIMENSIONS.
- ALL FUTURE DEVELOPMENT ITEMS ARE SHOWN TO PROVIDE DETAILS ON FUTURE SITE INTENTIONS. IT IS TO BE UNDERSTOOD THAT ALL FUTURE DEVELOPMENT ITEMS SHALL REQUIRE APPROVAL OF A NEW SITE PLAN AT THE TIME OF DEVELOPMENT.

DIMENSION PLAN NOTES

- A. PROPERTY LINE.
- B. PATIO W/ CAPACITY FOR 45-47 SEATS.
- C. ACCESSIBLE STALL SIGNS IN ACCORDANCE WITH ANSI A117.1-09 SECTION 502.7, 12" BEHIND SIDEWALK. SEE DETAIL Z-1 ON SHEET DT-1.
- D. PROVIDE PARKING STALL AND LANE STRIPING AS SHOWN PER SUDAS 8020 AND IDOT SECTION 2527.
- E. 6" STANDARD CURB PER SUDAS FIGURE 7010.102.
- F. CLASS A SIDEWALK CURB. SEE DETAIL 3 ON SUDAS 7030.202.
- G. GRIND CURB AND INSTALL TYPE A DRIVEWAY CONNECTION TO EXISTING STREET PER SUDAS 7030.101.
- H. SIDEWALK RAMP DROP CURB AS NECESSARY.
- I. RAMP WITH HANDRAILS ON BOTH SIDES.
- J. FUTURE BUILDING PAD LOCATION.
- K. SAW CUT AND REMOVE CURB ALONG PROPOSED ON-STREET PARKING.
- L. INSTALL R1-1 STOP SIGN (30") ON BLACK WRAPPED POST PER MUTCD SECTION 2B.04
- M. FUTURE TRASH ENCLOSURE LOCATION.
- N. FUTURE SIDEWALK.
- O. FUTURE PARKING LOT EXPANSION.
- P. END OF PAVING.

PAVING NOTES

- 1. PARKING LOT AND DRIVE AISLE PAVING SHALL BE NON-REINFORCED 6" P.C.C. ALL CONCRETE CURBS SHALL BE INTEGRAL TO PAVING SLAB.
- 2. TRASH ENCLOSURE PAD SHALL BE NON-REINFORCED P.C.C. WITH A MINIMUM THICKNESS OF 8".
- 3. SIDEWALKS SHALL BE NON REINFORCED P.C.C. WITH A MINIMUM THICKNESS OF 5 INCHES. PUBLIC SIDEWALK RAMPS SHALL BE NON-REINFORCED P.C.C. WITH A MINIMUM THICKNESS OF 6 INCHES.
- 4. PARKING STALLS ALONG PUBLIC STREETS SHALL BE 7" NON-REINFORCED P.C.C. CONSTRUCTED WITH A BT-1 JOINT ALONG EXISTING PAVEMENT, AS PER SUDAS 7010.101
- 5. REFER TO ARCHITECTURAL PLAN FOR ADDITIONAL INFORMATION ON STOOPS AND SIDEWALKS ADJACENT TO BUILDING.
- 6. ALL TRUNCATED DOME INSERTS FOR SIDEWALK SHALL BE CAST IN PLACE REPLACEABLE IN BLACK (FEDERAL COLOR NO. 37038) MANUFACTURED BY ADA SOLUTIONS, OR APPROVED EQUAL.

SIDEWALK LEGEND

RAMP

SPECIAL SHAPING

TURNING SPACE MAX 1.5% IN ALL DIRECTIONS

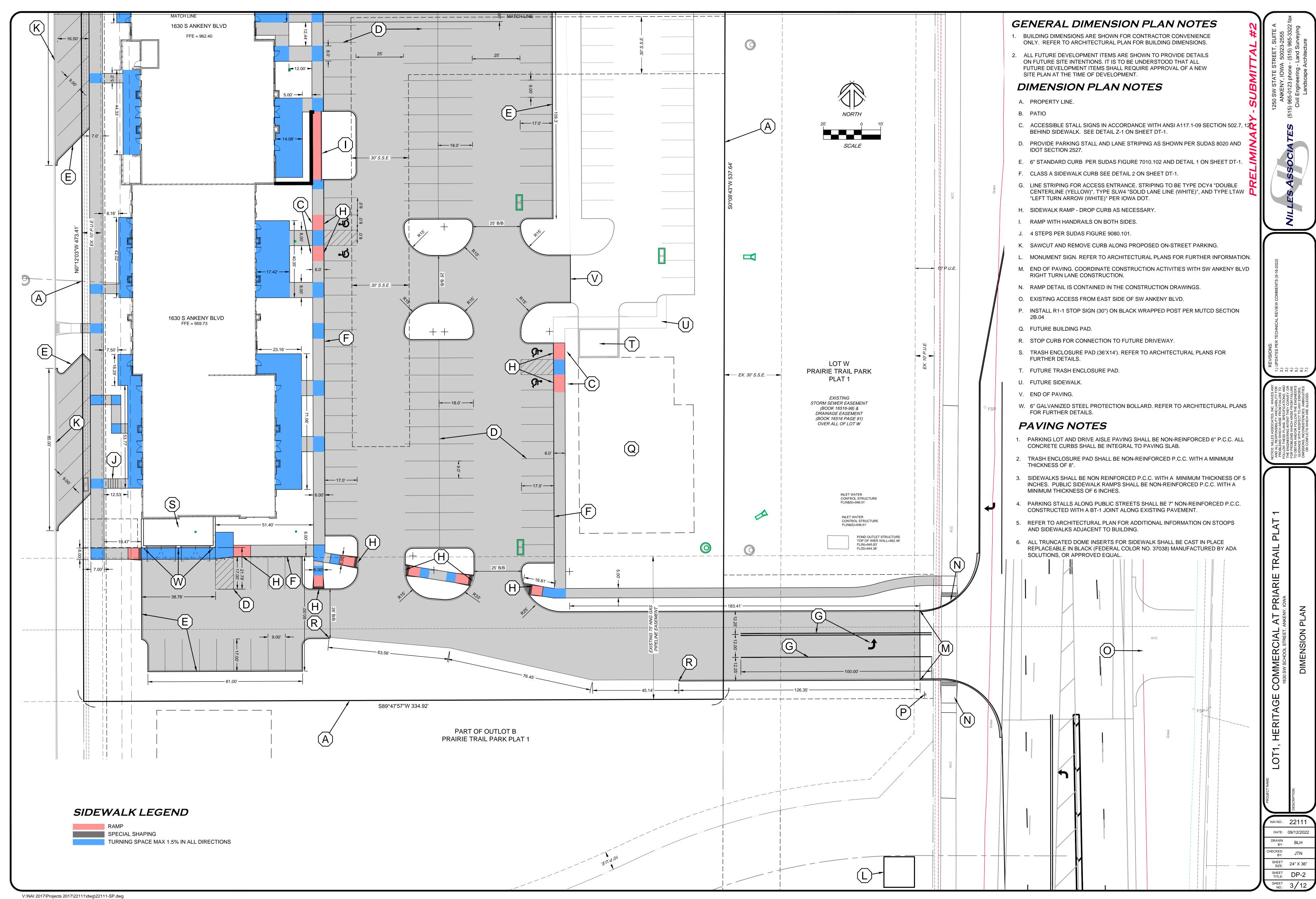
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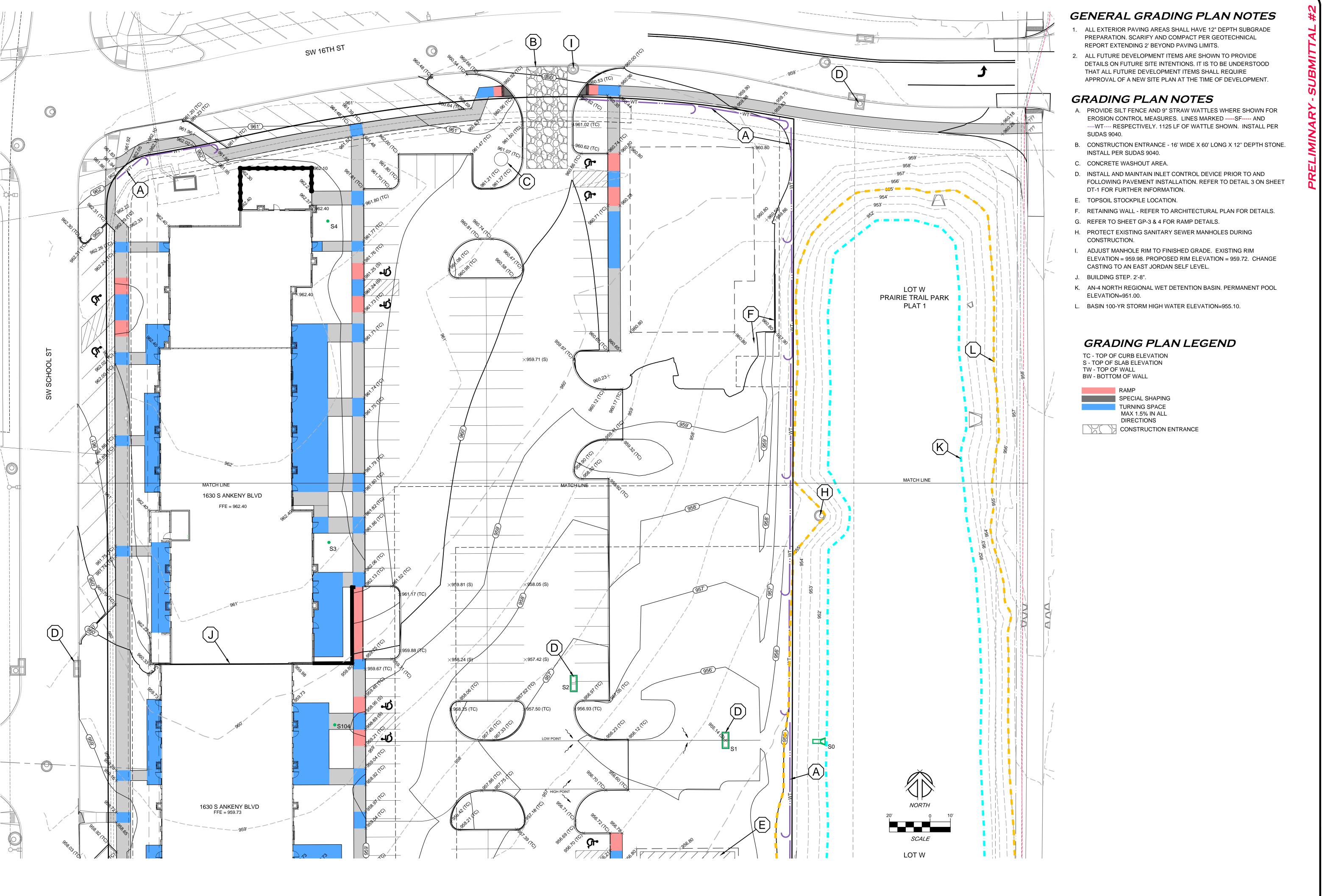
SHEET 24" X 36"

PRIARIE

COMMERCIAL 1630 SW SCHOOL STREET,

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LOT1, HERITAGE COMMERCIAL AT PRIARIE TRAIL
1630 SW SCHOOL STREET, ANKENY, IOWA

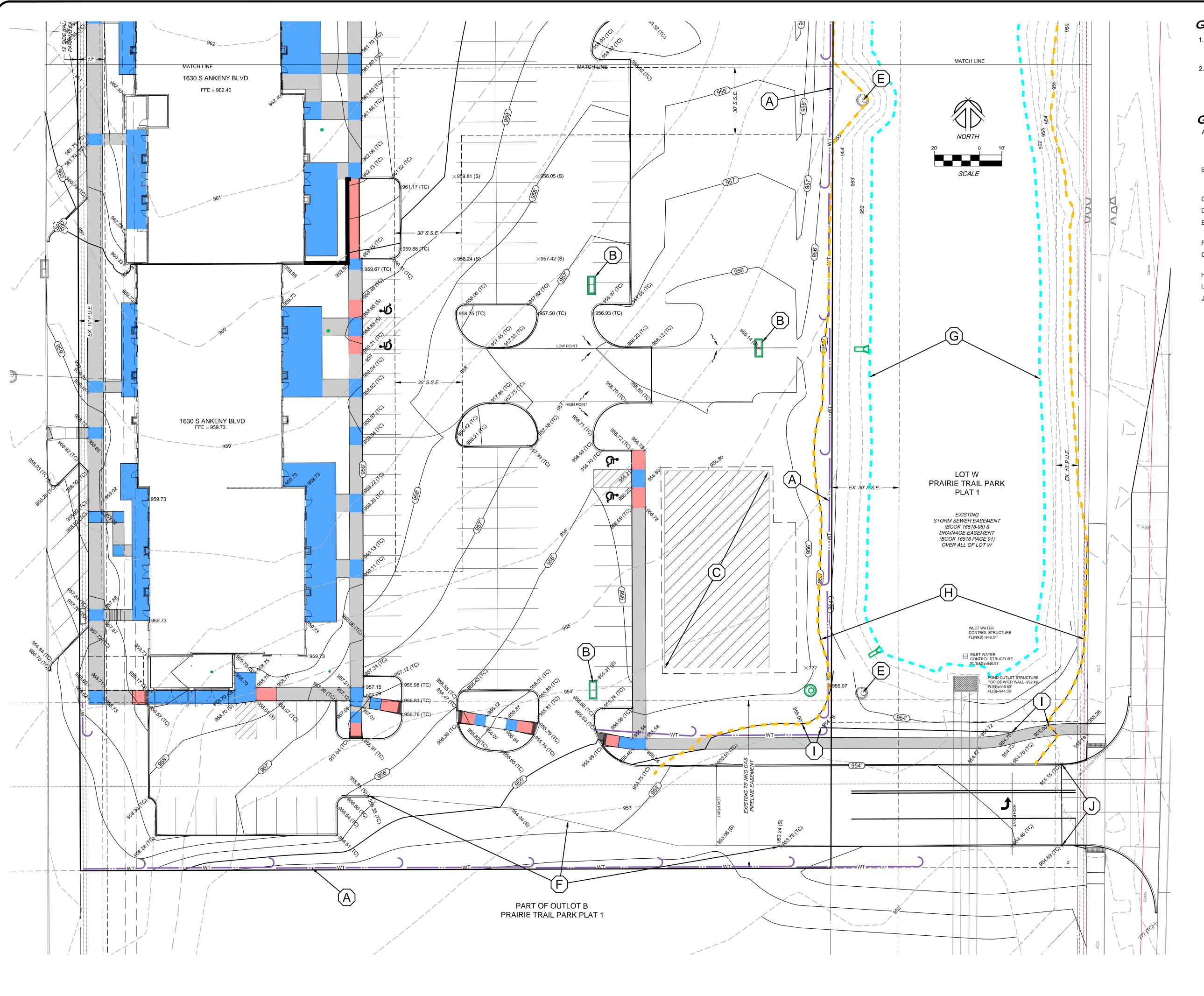
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DRAWN BY: BLH

CHECKED BY: JTN

SHEET SIZE: 24" X 36"



GENERAL GRADING PLAN NOTES

- 1. ALL EXTERIOR PAVING AREAS SHALL HAVE 12" DEPTH SUBGRADE PREPARATION. SCARIFY AND COMPACT PER GEOTECHNICAL REPORT EXTENDING 2' BEYOND PAVING LIMITS.
- 2. ALL FUTURE DEVELOPMENT ITEMS ARE SHOWN TO PROVIDE DETAILS ON FUTURE SITE INTENTIONS. IT IS TO BE UNDERSTOOD THAT ALL FUTURE DEVELOPMENT ITEMS SHALL REQUIRE APPROVAL OF A NEW SITE PLAN AT THE TIME OF DEVELOPMENT.

GRADING PLAN NOTES

- A. PROVIDE SILT FENCE AND 9" STRAW WATTLES WHERE SHOWN FOR EROSION CONTROL MEASURES. LINES MARKED -----SF----- AND ----WT---- RESPECTIVELY. 595 LF OF SILT FENCE SHOWN. 1026 LF OF WATTLE SHOWN. INSTALL PER SUDAS 9040.
- B. INSTALL AND MAINTAIN INLET CONTROL DEVICE PRIOR TO AND FOLLOWING PAVEMENT INSTALLATION. REFER TO DETAIL 3 ON SHEET DT-1 FOR FURTHER INFORMATION.
- C. TOPSOIL STOCKPILE LOCATION.
- D. REFER TO SHEET GP-3&4 FOR RAMP DETAILS.
- E. PROTECT EXISTING SANITARY SEWER MANHOLES DURING CONSTRUCTION.
- F. NO CURB THROUGH THIS SECTION.
- G. AN-4 NORTH REGIONAL WET DETENTION BASIN. PERMANENT POOL ELEVATION=951.00.
- H. BASIN 100-YR STORM HIGH WATER ELEVATION=955.10.
- I. BASIN OVERFLOW CREST ELEVATION=954.75. TOP OF BERM=955.00.
- J. PROJECT PAVING LIMITS. REFER TO PLANS FOR PUBLIC IMPROVEMENTS FOR GRADING INFORMATION PERTAINING TO S. ANKENY BLVD TIE-IN.

GRADING PLAN LEGEND

TC - TOP OF CURB ELEVATION S - TOP OF SLAB ELEVATION TW - TOP OF WALL BW - BOTTOM OF WALL

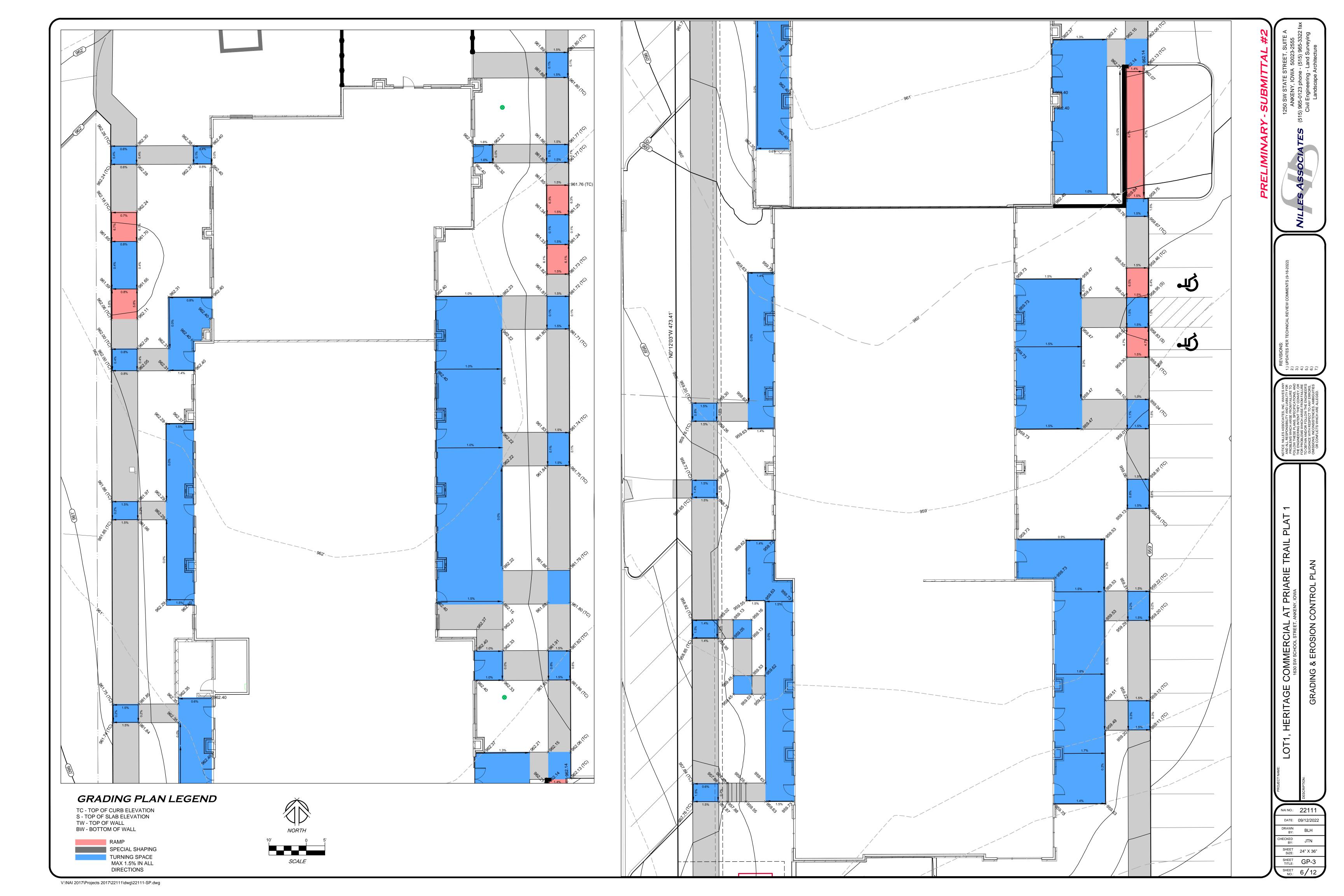
SPECIAL SHAPING TURNING SPACE MAX 1.5% IN ALL DIRECTIONS

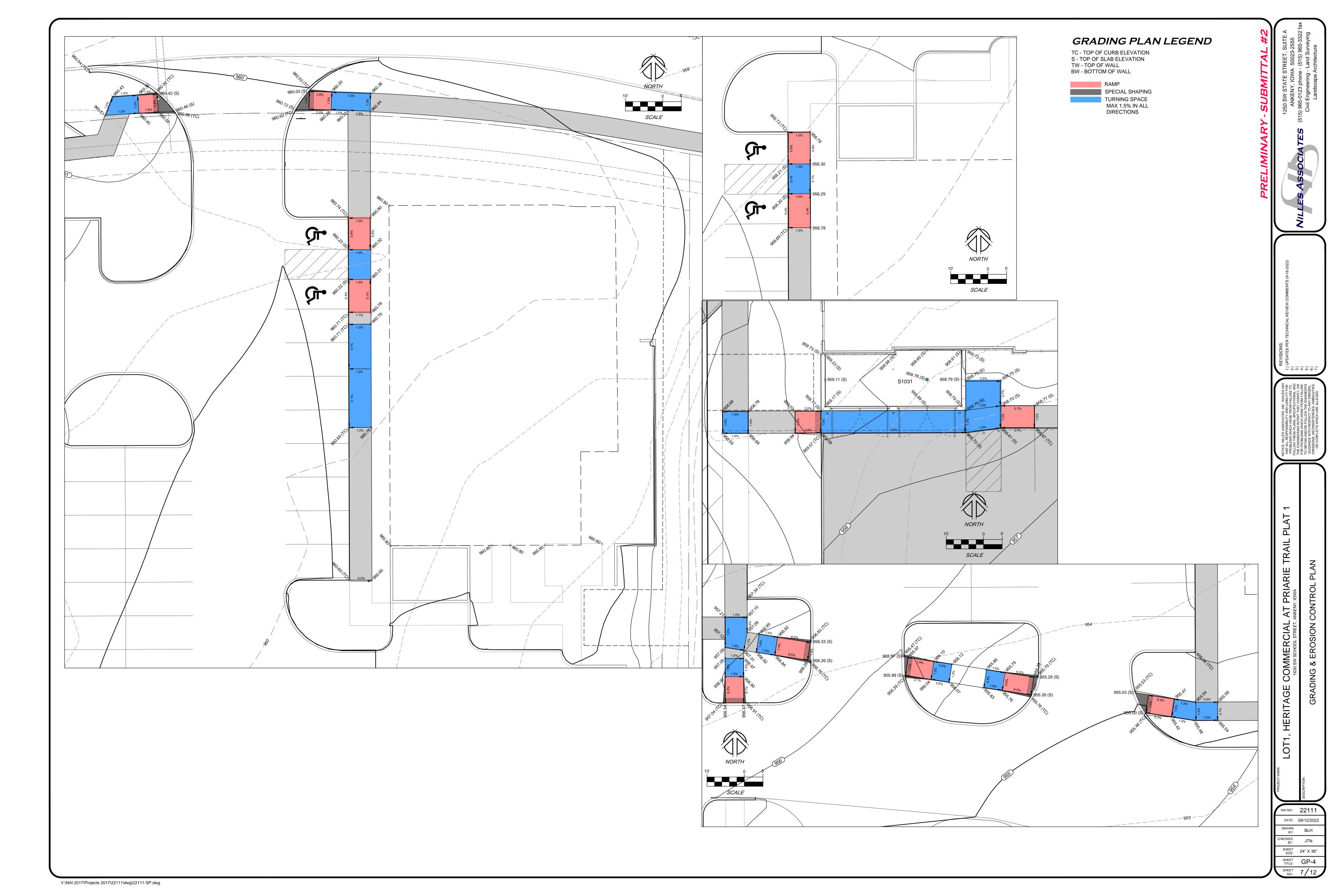
PRIARIE COMMERCIAL
1630 SW SCHOOL STREET,

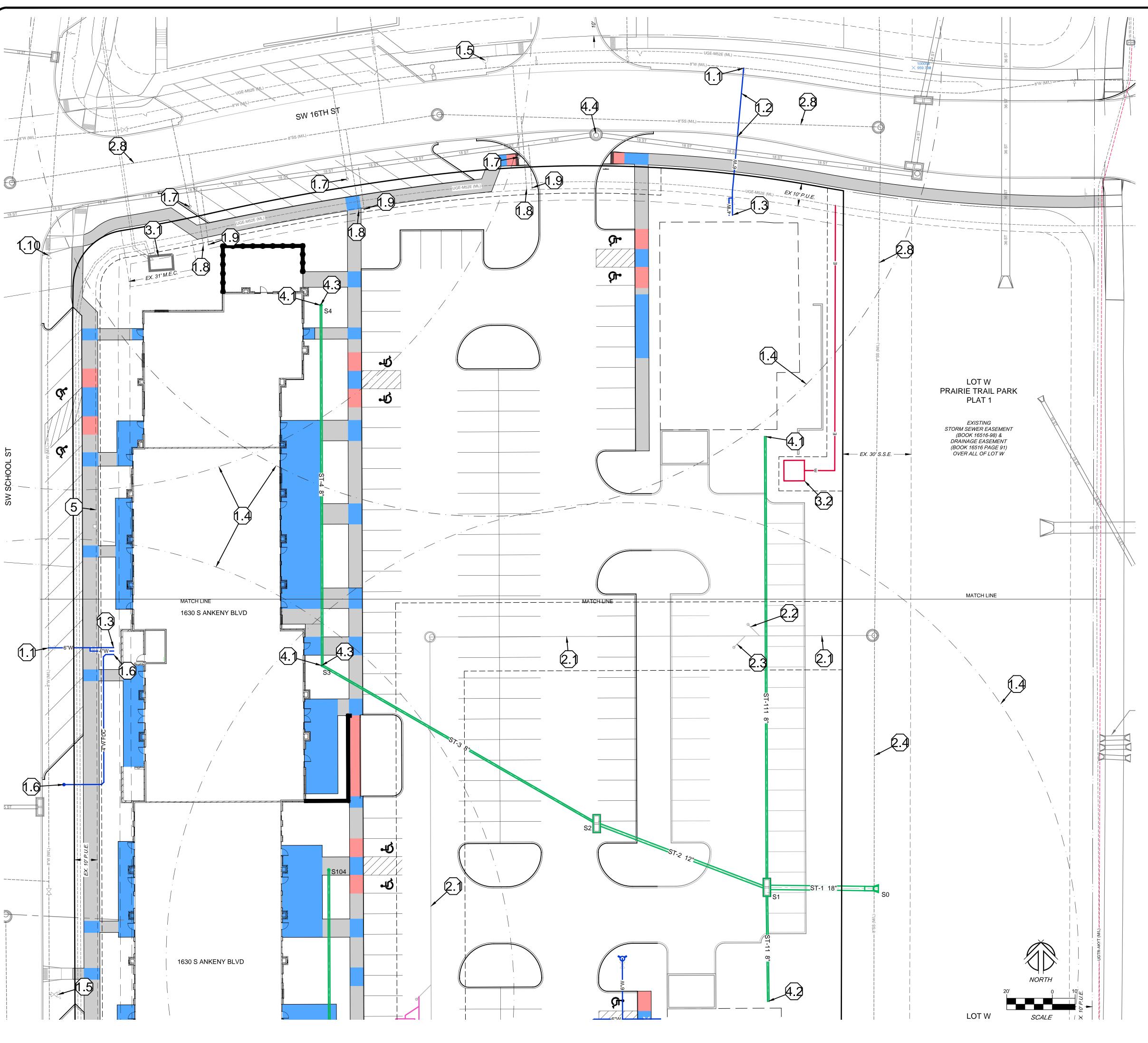
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HERITAGE

DATE: 09/12/2022 DRAWN BY: BLH SHEET 24" X 36"







GENERAL UTILITY PLAN NOTES

. ALL FUTURE DEVELOPMENT ITEMS ARE SHOWN TO PROVIDE DETAILS ON FUTURE SITE INTENTIONS. IT IS TO BE UNDERSTOOD THAT ALL FUTURE DEVELOPMENT ITEMS SHALL REQUIRE APPROVAL OF A NEW SITE PLAN AT THE TIME OF DEVELOPMENT.

UTILITY PLAN NOTES

- WATER MAIN SERVICE. 6" WATER MAIN, 203 LF TOTAL (APPROXIMATELY). INSTALL
 PIPE AND FITTINGS PER SUDAS 5010, 5020, 2015 INTERNATIONAL FIRE CODE, AND
 CITY OF ANKENY REQUIREMENTS. MAINTAIN DEPTH OF 5.5 FEET MINIMUM.
 CONSULT BUILDING PLANS FOR FOOTING DEPTH AND EXTENSION OF SERVICES TO
 METERS.
- 1.1. 8" TAPPING SLEEVE AND VALVE.
- 1.2. TRENCHLESS WATER SERVICE CONSTRUCTION FOR INSTALLATION OF 6"
- WATER SERVICE UNDER SW 16TH STREET. 65 LF TOTAL.

 3. WATER SERVICE CONNECTION. REFER TO DETAIL 2 ON SHEET DT-1.
- 1.4. 200' FIRE HYDRANT COVERAGE RADIUS.
- 1.5. EXISTING FIRE HYDRANT.
- 1.6. 4" REMOTE FIRE CONNECTION.
- 7. ABANDON EXISTING WATER SERVICE PIPES BY CAPPING AT MAIN ACCORDING TO SUDAS SECTION 5010. COORDINATE WORK WITH ANKENY WATER DEPARTMENT FOR OBSERVATION.
- 1.8. ABANDON EXISTING STORM SEWER SERVICE ACCORDING TO METHODS LISTED IN SUDAS SECTION 4020.
- 1.9. ABANDON EXISTING SANITARY SEWER SERVICE ACCORDING TO METHODS LISTED IN SUDAS SECTION 4010. FIBERGLASS PATCH SHALL BE INSTALLED AT SERVICE REMOVAL LOCATIONS. VIDEO INSPECTION MUST BE PROVIDED TO CITY FOR APPROVAL.
- 1.10. EXISTING WATER VALVE.
- 2. SANITARY SEWER WORK AND MATERIALS SHALL CONFORM TO SUDAS 4010.
- 2.1. PROPOSED 8" SANITARY SEWER MAIN INCLUDING WYE CONNECTIONS TO BE INSTALLED AS PART OF THE PLANS FOR PUBLIC IMPROVEMENT. REFER TO HERITAGE COMMERCIAL AT PRAIRIE TRAIL PLAT 1 CONSTRUCTION DRAWINGS FOR MORE INFORMATION.
- 2.2. STUB FOR CONNECTION TO FUTURE 6" SANITARY SERVICE FOR FUTURE BUILDING PAD. REFER TO PLANS FOR PUBLIC IMPROVEMENTS FOR SANITARY MAIN DETAILS.
- 2.3. STUB FOR CONNECTION TO FUTURE 6" SANITARY SERVICE FOR FUTURE BUILDING PAD. REFER TO PLANS FOR PUBLIC IMPROVEMENTS FOR SANITARY MAIN DETAILS.
- 2.4. EXISTING SANITARY SEWER MAIN.
- 3. ELECTRIC SERVICE. COORDINATE TRANSFORMER LOCATION AND CONNECTION TO
- EXISTING ELECTRIC SERVICE WITH MIDAMERICAN ENERGY.
- 3.1. EXISTING TRANSFORMER LOCATION.3.2. PROPOSED TRANSFORMER LOCATION.
- 2. TROI GOLD TRANGI GRANER EGGATION.
- 4. STORM SEWER. ALL WORK AND MATERIALS SHALL CONFORM TO SUDAS 4020, 4030,& 6010
- 4.1. CONNECT TO INTERNAL BUILDING ROOF DRAINS.
- 4.2. INSTALL STUB FOR CONNECTION TO FUTURE INTERNAL BUILDING ROOF
- 4.3. STORM SEWER CLEANOUT, TYPE A.
- 4.4. MANHOLE RIM ADJUSTMENT. EXISTING RIM ELEVATION=959.94
 PROPOSED RIM ELEVATION=949.71
 REMOVE EXISTING CASTING AND REPLACE WITH 3-PIECE SELF-LEVELING MANHOLE CASTING.
- APPROXIMATE LOCATION OF EXISTING TELECOM BOX. COORDINATE RELOCATION OF BOX WITH UTILITY PROVIDER.

NAME	DESCRIPTION	RIM/TC	INVERT
S0	PIPE APRON		INV 951.00 (ST-1)
S1	DOUBLE RECTANGULAR AREA INTAKE	955.14	INV 951.39 (ST-2) INV 951.29 (ST-1) INV 951.39 (ST-111) INV 951.39 (ST-11)
S2	DOUBLE RECTANGULAR AREA INTAKE	956.62	INV 952.51 (ST-3) INV 952.41 (ST-2)
S3 STORM SEWER CLEANOUT, TYPE A		962.29	INV 955.95 (ST-3) INV 956.05 (ST-4)
S4	STORM SEWER CLEANOUT, TYPE A	962.20	INV 958.90 (ST-4)
S100	PIPE APRON		INV 951.00 (ST-101)
S101	(SW-401) 48" CIRCULAR STORM SEWER MANHOLE		INV 951.19 (ST-102) INV 951.09 (ST-101)
S102	DOUBLE RECTANGULAR AREA INTAKE	955.19	INV 951.43 (ST-102) INV 951.53 (ST-103)
S103 6"X6"X6" TEE		958.19	INV 953.47 (ST-104) INV 953.47 (ST-103) INV 953.47 (ST-1031)
S104	STORM SEWER CLEANOUT, TYPE A	959.35	INV 955.93 (ST-104)
S1031	TRASH ENCLOSURE DRAINAGE INTAKE	958.78	INV 954.33 (ST-1031)

STORM PIPE TABLE							
NAME	SIZE	LENGTH	SLOPE	INLET INVERT	OUTLET INVERT		
ST-1	18" RCP	48 LF	0.60%	951.29	951.00		
ST-2	12" PVC	78 LF	1.30%	952.41	951.39		
ST-3	8" PVC	138 LF	2.50%	955.95	952.51		
ST-4	8" PVC	157 LF	1.81%	958.90	956.05		
ST-11	8" PVC	47 LF	2.48%	952.55	951.39		
ST-101	15" RCP	35 LF	0.25%	951.09	951.00		
ST-102	15" RCP	95 LF	0.25%	951.43	951.19		
ST-103	8" PVC	119 LF	1.64%	953.47	951.53		
ST-104	8" PVC	152 LF	1.62%	955.93	953.47		
ST-111	8" PVC	194 LF	2.50%	956.25	951.39		
ST-1031	8" PVC	53 LF	1.63%	954.33	953.47		

NAI NO.: 22111

DATE: 09/12/2022

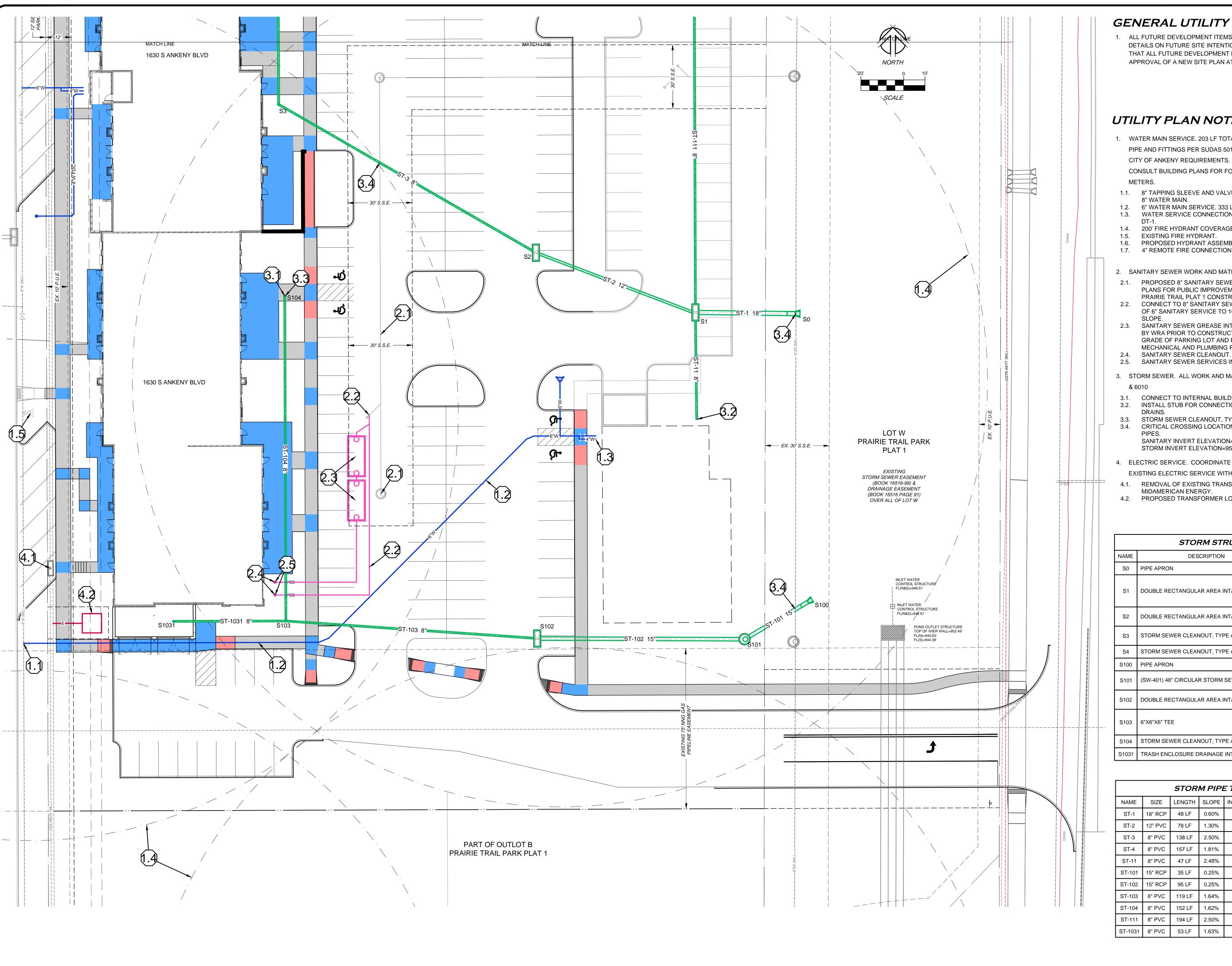
DRAWN BY: BLH
CHECKED JTN

SHEET SIZE: 24" X 36"

SHEET TITLE: UP-1

COMMERCIAL 1630 SW SCHOOL STREET,

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GENERAL UTILITY PLAN NOTES

1. ALL FUTURE DEVELOPMENT ITEMS ARE SHOWN TO PROVIDE DETAILS ON FUTURE SITE INTENTIONS. IT IS TO BE UNDERSTOOD THAT ALL FUTURE DEVELOPMENT ITEMS SHALL REQUIRE APPROVAL OF A NEW SITE PLAN AT THE TIME OF DEVELOPMENT.

UTILITY PLAN NOTES

- 1. WATER MAIN SERVICE. 203 LF TOTAL (APPROXIMATELY) 6" WATER MAIN. INSTALL PIPE AND FITTINGS PER SUDAS 5010, 5020, 2015 INTERNATIONAL FIRE CODE, AND CITY OF ANKENY REQUIREMENTS. MAINTAIN DEPTH OF 5.5 FEET MINIMUM. CONSULT BUILDING PLANS FOR FOOTING DEPTH AND EXTENSION OF SERVICES TO
- 1.1. 8" TAPPING SLEEVE AND VALVE FOR CONNECTION OF 6" SERVICE TO EXISTING
- 1.2. 6" WATER MAIN SERVICE. 333 LF TOTAL.
- 1.3. WATER SERVICE CONNECTION AT BUILDING. REFER TO DETAIL 2 ON SHEET
- 1.4. 200' FIRE HYDRANT COVERAGE RADIUS.
- 1.5. EXISTING FIRE HYDRANT.
- 1.6. PROPOSED HYDRANT ASSEMBLY W/ GATE VALVE AS PART OF ASSEMBLY. 1.7. 4" REMOTE FIRE CONNECTION.
- 2. SANITARY SEWER WORK AND MATERIALS SHALL CONFORM TO SUDAS 4010.
- 2.1. PROPOSED 8" SANITARY SEWER MAIN TO BE INSTALLED AS PART OF THE PLANS FOR PUBLIC IMPROVEMENT. REFER TO HERITAGE COMMERCIAL AT PRAIRIE TRAIL PLAT 1 CONSTRUCTION DRAWINGS FOR MORE INFORMATION. 2.2. CONNECT TO 8" SANITARY SEWER WITH WYE AT INV 947.18 AND EXTEND 204 LF
- OF 6" SANITARY SERVICE TO 1630 SW SCHOOL STREET AT 1.0% MINIMUM 2.3. SANITARY SEWER GREASE INTERCEPTORS. TANK SIZING SHALL BE APPROVED BY WRA PRIOR TO CONSTRUCTION. EXTEND ACCESS MANHOLES TO FINISH
- GRADE OF PARKING LOT AND PROVIDE INTERNAL VENTING. REFER TO MECHANICAL AND PLUMBING PLANS FOR ADDITIONAL INFORMATION.
- 2.5. SANITARY SEWER SERVICES INV 951.73 AT BUILDING.
- 3. STORM SEWER. ALL WORK AND MATERIALS SHALL CONFORM TO SUDAS 4020, 4030,
- 3.1. CONNECT TO INTERNAL BUILDING ROOF DRAINS. 3.2. INSTALL STUB FOR CONNECTION TO FUTURE INTERNAL BUILDING ROOF
- 3.3. STORM SEWER CLEANOUT, TYPE A.
- 3.4. CRITICAL CROSSING LOCATION. MAINTAIN MINIMUM 18" SEPARATION BETWEEN
 - SANITARY INVERT ELEVATION=948.10 STORM INVERT ELEVATION=952.71
- 4. ELECTRIC SERVICE. COORDINATE TRANSFORMER LOCATION AND CONNECTION TO EXISTING ELECTRIC SERVICE WITH MIDAMERICAN ENERGY.
- 4.1. REMOVAL OF EXISTING TRANSFORMER. COORDINATE WORK WITH
- MIDAMERICAN ENERGY. 4.2. PROPOSED TRANSFORMER LOCATION.

NAME	DESCRIPTION	RIM/TC	INVERT	
S0	PIPE APRON	TOWN	INV 951.00 (ST	
S1	DOUBLE RECTANGULAR AREA INTAKE	955.14	INV 951.39 (ST INV 951.29 (ST INV 951.39 (ST- INV 951.39 (ST-	
S2	DOUBLE RECTANGULAR AREA INTAKE	956.62	INV 952.51 (ST INV 952.41 (ST	
S 3	STORM SEWER CLEANOUT, TYPE A	962.29	INV 955.95 (ST INV 956.05 (ST	
S4	STORM SEWER CLEANOUT, TYPE A	962.20	INV 958.90 (ST	
S100	PIPE APRON		INV 951.00 (ST-	
S101	(SW-401) 48" CIRCULAR STORM SEWER MANHOLE	955.72	INV 951.19 (ST- INV 951.09 (ST-	
S102	DOUBLE RECTANGULAR AREA INTAKE	955.19	INV 951.43 (ST- INV 951.53 (ST-	
S103	6"X6"X6" TEE	958.19	INV 953.47 (ST- INV 953.47 (ST- INV 953.47 (ST-1	
S104	STORM SEWER CLEANOUT, TYPE A	959.35	INV 955.93 (ST-	
S1031	TRASH ENCLOSURE DRAINAGE INTAKE	958.78	INV 954.33 (ST-1	

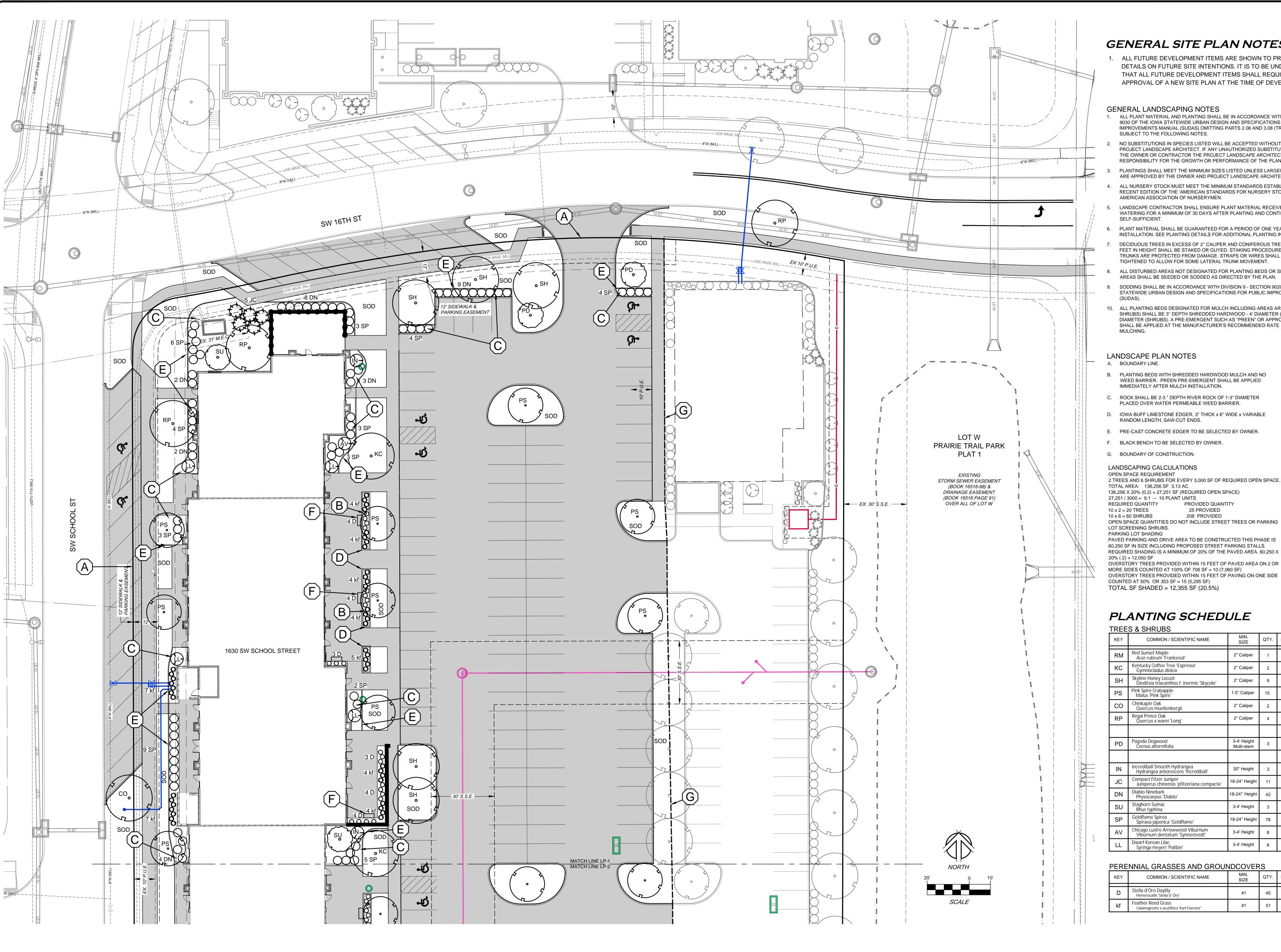
STORM PIPE TABLE						
NAME	SIZE	LENGTH	SLOPE	INLET INVERT	OUTLET INVERT	
ST-1	18" RCP	48 LF	0.60%	951.29	951.00	
ST-2	12" PVC	78 LF	1.30%	952.41	951.39	
ST-3	8" PVC	138 LF	2.50%	955.95	952.51	
ST-4	8" PVC	157 LF	1.81%	958.90	956.05	
ST-11	8" PVC	47 LF	2.48%	952.55	951.39	
ST-101	15" RCP	35 LF	0.25%	951.09	951.00	
ST-102	15" RCP	95 LF	0.25%	951.43	951.19	
ST-103	8" PVC	119 LF	1.64%	953.47	951.53	
ST-104	8" PVC	152 LF	1.62%	955.93	953.47	
ST-111	8" PVC	194 LF	2.50%	956.25	951.39	
ST-1031	8" PVC	53 LF	1.63%	954.33	953.47	

COMMERCIAL

1630 SW SCHOOL STREET

NAI NO.: 22111

SHEET 24" X 36"



GENERAL SITE PLAN NOTES

1. ALL FUTURE DEVELOPMENT ITEMS ARE SHOWN TO PROVIDE DETAILS ON FUTURE SITE INTENTIONS. IT IS TO BE UNDERSTOOD THAT ALL FUTURE DEVELOPMENT ITEMS SHALL REQUIRE APPROVAL OF A NEW SITE PLAN AT THE TIME OF DEVELOPMENT.

GENERAL LANDSCAPING NOTES

1. ALL PLANT MATERIAL AND PLANTING SHALL BE IN ACCORDANCE WITH DIVISION 9- SECTION 9030 OF THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS FOR PUBLIC IMPROVEMENTS MANUAL (SUDAS) OMITTING PARTS 2.06 AND 3.08 (TREE WRAPPING) AND SUBJECT TO THE FOLLOWING NOTES.

- 2. NO SUBSTITUTIONS IN SPECIES LISTED WILL BE ACCEPTED WITHOUT APPROVALOF THE PROJECT LANDSCAPE ARCHITECT. IF ANY UNAUTHORIZED SUBSTITUTIONS ARE MADE BY THE OWNER OR CONTRACTOR THE PROJECT LANDSCAPE ARCHITECT ASSUMES NO RESPONSIBILITY FOR THE GROWTH OR PERFORMANCE OF THE PLANT MATERIAL.
- PLANTINGS SHALL MEET THE MINIMUM SIZES LISTED UNLESS LARGER CALIPER OR HEIGHTS ARE APPROVED BY THE OWNER AND PROJECT LANDSCAPE ARCHITECT.
- ALL NURSERY STOCK MUST MEET THE MINIMUM STANDARDS ESTABLISHED IN THE MOST RECENT EDITION OF THE 'AMERICAN STANDARDS FOR NURSERY STOCK' PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- LANDSCAPE CONTRACTOR SHALL ENSURE PLANT MATERIAL RECEIVES ADEQUATE WATERING FOR A MINIMUM OF 30 DAYS AFTER PLANTING AND CONTINUING UNTIL SELF-SUFFICIENT.
- 6. PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE TIME OF INSTALLATION. SEE PLANTING DETAILS FOR ADDITIONAL PLANTING INSTRUCTION.
- DECIDUOUS TREES IN EXCESS OF 2" CALIPER AND CONIFEROUS TREES IN EXCESS OF 6 FEET IN HEIGHT SHALL BE STAKED OR GUYED. STAKING PROCEDURE SHALL ENSURE TRUNKS ARE PROTECTED FROM DAMAGE. STRAPS OR WIRES SHALL NOT BE OVERLY TIGHTENED TO ALLOW FOR SOME LATERAL TRUNK MOVEMENT.
- ALL DISTURBED AREAS NOT DESIGNATED FOR PLANTING BEDS OR SPECIALTY PLANTING AREAS SHALL BE SEEDED OR SODDED AS DIRECTED BY THE PLAN.
- SODDING SHALL BE IN ACCORDANCE WITH DIVISION 9 SECTION 9020 OF THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS FOR PUBLIC IMPROVEMENTS MANUAL
- 10. ALL PLANTING BEDS DESIGNATED FOR MULCH INCLUDING AREAS AROUND TREES & SHRUBS) SHALL BE 3" DEPTH SHREDDED HARDWOOD - 4' DIAMETER (TREES) AND 2' DIAMETÉR (SHRUBS). A PRE-EMERGENT SUCH AS "PREEN" OR APPROVED EQUAL HERBICIDE SHALL BE APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE IMMEDIATELY AFTER

LANDSCAPE PLAN NOTES

- B. PLANTING BEDS WITH SHREDDED HARDWOOD MULCH AND NO WEED BARRIER. PREEN PRE-EMERGENT SHALL BE APPLIED IMMEDIATELY AFTER MULCH INSTALLATION.
- C. ROCK SHALL BE 2-3 " DEPTH RIVER ROCK OF 1-3" DIAMETER PLACED OVER WATER PERMEABLE WEED BARRIER.
- D. IOWA BUFF LIMESTONE EDGER, 3" THICK x 6" WIDE x VARIABLE RANDOM LENGTH, SAW-CUT ENDS.
- E. PRE-CAST CONCRETE EDGER TO BE SELECTED BY OWNER.
- F. BLACK BENCH TO BE SELECTED BY OWNER.

LANDSCAPING CALCULATIONS

2 TREES AND 6 SHRUBS FOR EVERY 3,000 SF OF REQUIRED OPEN SPACE. TOTAL AREA: 136,256 SF 3.13 AC

136,256 X 20% (0.2) = 27,251 SF (REQUIRED OPEN SPACE) 27,251 / 3000 = 9.1 -- 10 PLANT UNITS

REQUIRED QUANTITY 10 x 2 = 20 TREES 25 PROVIDED 10 x 6 = 60 SHRUBS 208 PROVIDED

LOT SCREENING SHRUBS. PARKING LOT SHADING PAVED PARKING AND DRIVE AREA TO BE CONSTRUCTED THIS PHASE IS 60,250 SF IN SIZE INCLUDING PROPOSED STREET PARKING STALLS.

20% (.2) = 12,050 SF OVERSTORY TREES PROVIDED WITHIN 15 FEET OF PAVED AREA ON 2 OR MORE SIDES COUNTED AT 100% OF 706 SF = 10 (7,060 SF) OVERSTORY TREES PROVIDED WITHIN 15 FEET OF PAVING ON ONE SIDE COUNTED AT 50% OR 353 SF = 15 (5,295 SF)

PLANTING SCHEDULE

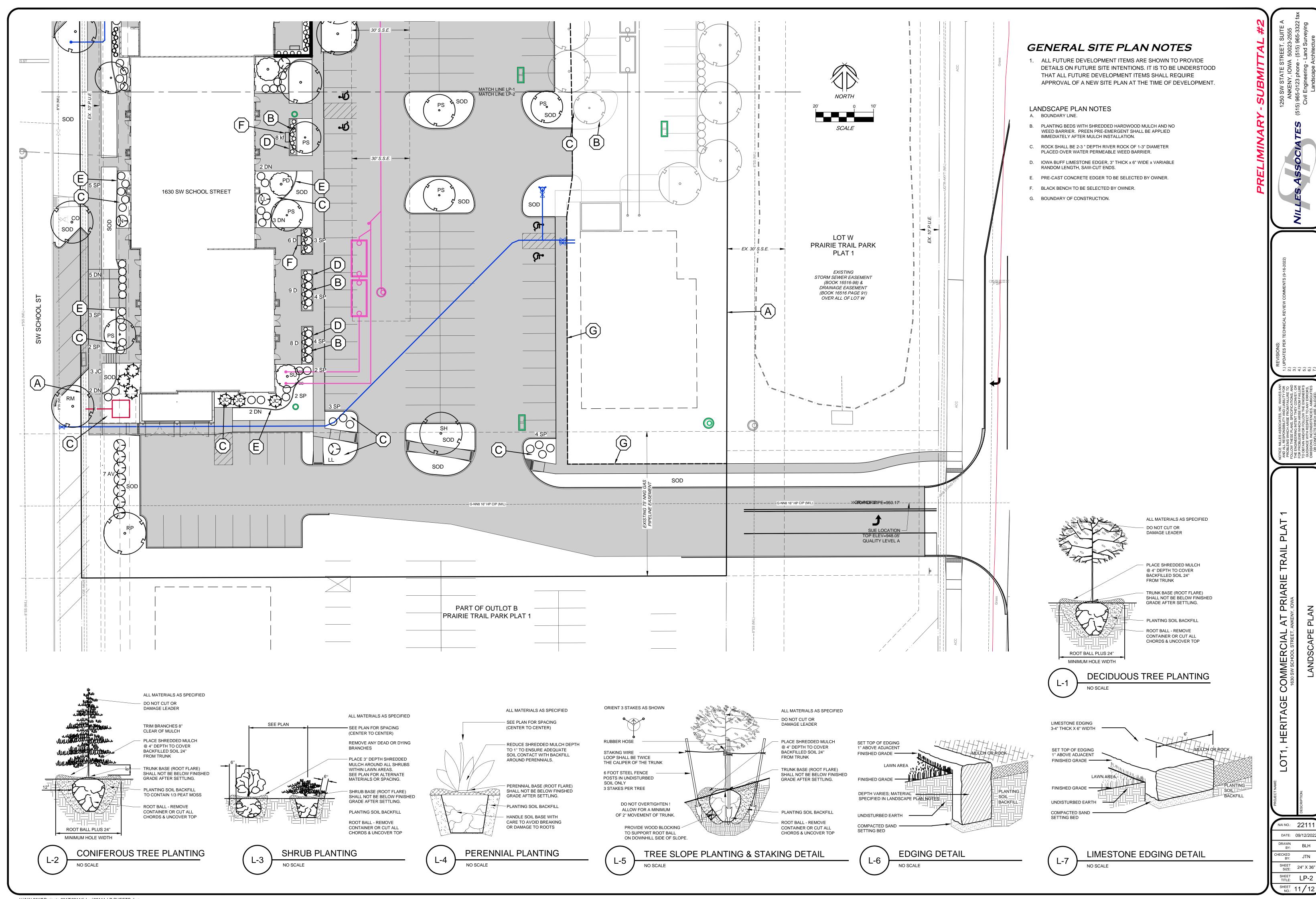
REES & SHRUBS						
KEY	COMMON / SCIENTIFIC NAME	MIN. SIZE	QTY.	ROOT / COMMENT		
RM	Red Sunset Maple Acer rubrum 'Franksred'	2" Caliper	1	B&B or Container		
KC	Kentucky Coffee Tree 'Espresso' Gymnocladus dioica	2" Caliper	2	B&B or Container		
SH	Skyline Honey Locust Gleditsia triacanthos f. inermis 'Skycole'	2" Caliper	9	B&B or Container		
PS	Pink Spire Crabapple Malus 'Pink Spire'	1.5" Caliper	15	B&B or Container		
СО	Chinkapin Oak Quercus muellenbergii	2" Caliper	2	B&B or Container		
RP	Regal Prince Oak Quercus x warei 'Long'	2" Caliper	4	B&B or Container		
PD	Pagoda Dogwood Cornus alternifolia	3-4' Height Multi-stem	3	Container		
IN	Incrediball Smooth Hydrangea Hydrangea arborescens 'Incrediball'	30" Height	3	Container		
JC	Compact Fitzer Juniper Juniperus chinensis 'pfitzeriana compacta'	18-24" Height	11	Container		
DN	Diablo Ninebark Physocarpus 'Diablo'	18-24"' Height	42	Container		
SU	Staghorn Sumac Rhus typhina	3-4' Height	3	Container		
SP	Goldflame Spirea Spiraea japonica 'Goldflame'	18-24" Height	78	Container		
AV	Chicago Lustre Arrowwood Viburnum Viburnum dentatum 'Synnestvedt'	3-4' Height	8	Container		
LL	Dwarf Korean Lilac Syringa meyeri 'Palibin'	3-4' Height	6	Container		

PERENNIAL GRASSES AND GROUNDCOVERS

KEY	COMMON / SCIENTIFIC NAME	MIN. SIZE	QTY.	ROOT / COMMENT
D	Stella d'Oro Daylily Hemerocallis 'Stella d' Oro'	#1	45	Container
kf	Feather Reed Grass Calamagrostis x acutiflora 'Karl Foerster'	#1	51	Container

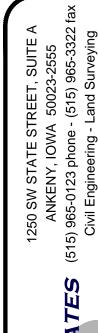
NAI NO.: 22111

SHEET 24" X 36"



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DATE: 09/12/2022 SHEET 24" X 36"



LOT1, HERITAGE COMMERCIAL AT PRIARIE TRAIL PLAT

SHEET 24" X 36"

FINISHED GRADE / TOP OF SIDEWALK

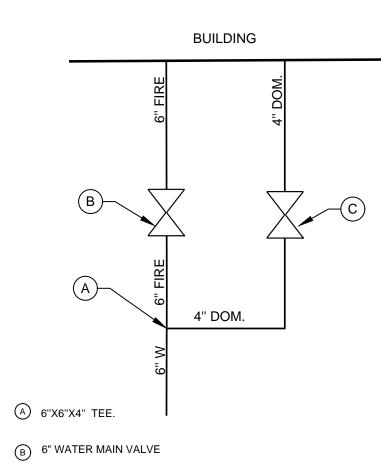
STANDARD ADA ACCESSIBLE PARKING SIGN IN ACCORDANCE WITH ANSI A117.1-09 SECTION 502.7 - PROVIDE AT ALL STALLS ADJACENT TO 5' WIDE ACCESS ISLE.

VAN ACCESSIBLE ADA PARKING SIGN IN ACCORDANCE WITH ANSI A117.1-09 SECTION 502.7 - PROVIDE AT ALL STALLS ADJACENT TO 8' WIDE ACCESS ISLE

METAL POSTS - EPOXY OR POWDER COATED BLACK

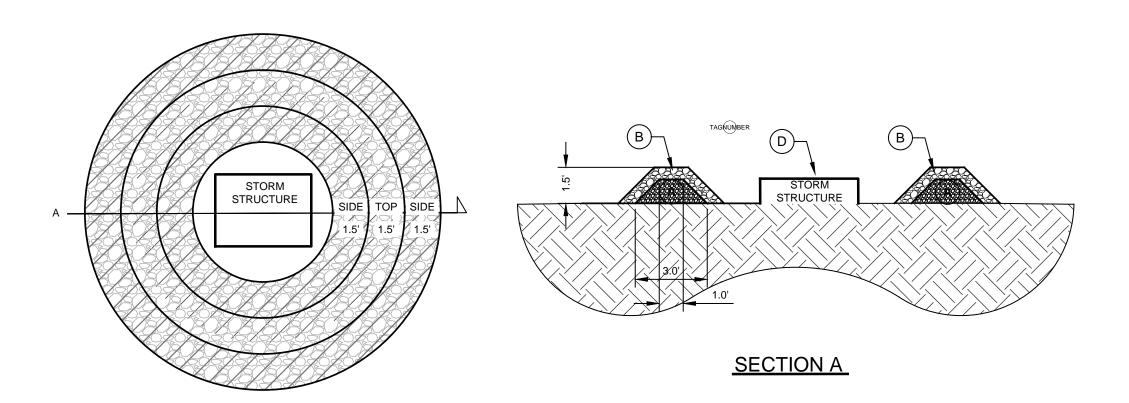
CONCRETE BASE

ACCESSIBLE SIGNS



© 4" WATER MAIN VALVE

WATER SERVICE CONNECTION NO SCALE



1-INCH CLEAN STONE, TO FORM 1-FOOT HIGH MIN. X 1-FOOT WIDE MIN. CORE. EROSION CONTROL STONE, 6-INCHES THICK, ON TOP AND SIDES OF BERM. FINISH GRADE SURFACE. REFER TO SHEET UP-1 FOR TOP OF STRUCTURE ELEVATIONS.

