

CITY HALL PARKING LOT

1600 ROWLEY STREET

ELY, IOWA



CIVIL ENGINEERS
LAND PLANNERS
LAND SURVEYORS
LANDSCAPE ARCHITECTS
ENVIRONMENTAL SPECIALISTS

1917 S. GILBERT ST.
IOWA CITY, IOWA 52240
(319) 351-8282
www.mmsconsultants.net

Date: Revision:

COVER SHEET

CITY HALL
PARKING LOT
1600 ROWLEY ST.
ELY,
LINN COUNTY,
IOWA

MMS CONSULTANTS, INC.

Date: 8/8/21

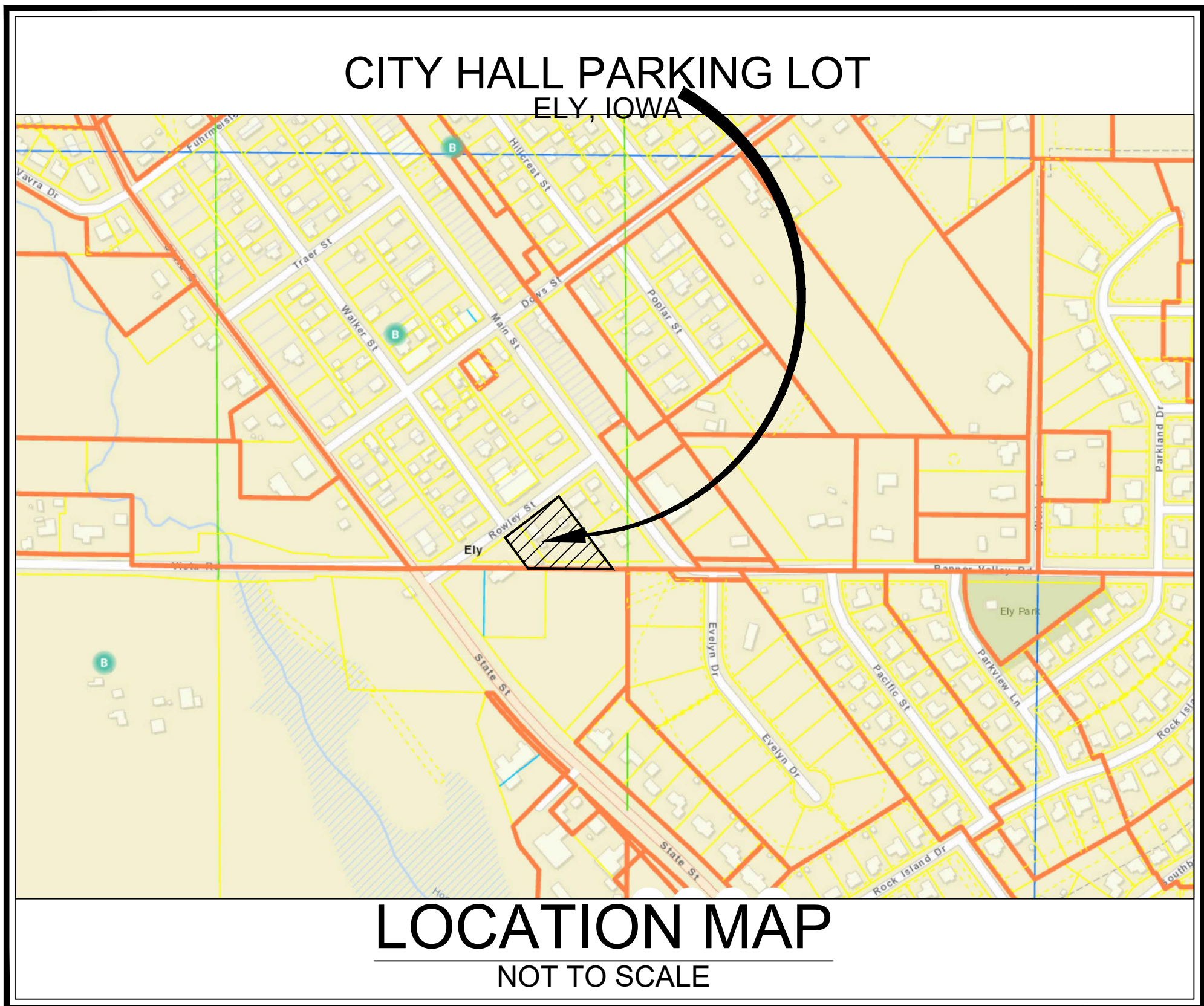
Designed by: SBP Field Book No: 1300

Drawn by: TAV Scale: 1"=10'

Checked by: SBP Sheet No:

Project No: C001

5701-087 of: 1



STANDARD LEGEND AND NOTES	
---	PROPERTY &/or BOUNDARY LINES
---	CONGRESSIONAL SECTION LINES
---	RIGHT-OF-WAY LINES
---	EXISTING RIGHT-OF-WAY LINES
---	CENTER LINES
---	EXISTING CENTER LINES
---	LOT LINES, INTERNAL
---	LOT LINES, PLATTED OR BY DEED
---	PROPOSED EASEMENT LINES
---	EXISTING EASEMENT LINES
---	BENCHMARK
---	RECORDED DIMENSIONS
---	CURVE SEGMENT NUMBER
---	POWER POLE
---	POWER POLE W/DROP
---	POWER POLE W/TRANS
---	POWER POLE W/LIGHT
---	GUY POLE
---	SANITARY MANHOLE
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---	GAS LINES
---	CONTOUR LINES (1' INTERVAL)
---	PROPOSED GROUND
---	EXISTING TREE LINE
---	EXISTING DECIDUOUS TREE & SHRUB
---	EXISTING EVERGREEN TREES & SHRUBS

THE ACTUAL SIZE AND LOCATION OF ALL PROPOSED FACILITIES SHALL BE VERIFIED WITH CONSTRUCTION DOCUMENTS, WHICH ARE TO BE PREPARED AND SUBMITTED SUBSEQUENT TO THE APPROVAL OF THIS DOCUMENT.

MAYOR
ELDY MILLER

CITY ADMINISTRATOR
ADAM THOMPSON

COUNCIL
BEN SYMONDS
JUDY WERY
KAY HALE
DAN WHITAKER
WILLIAM TUTHILL

UTILITY COMPANY CONTACTS		
SERVICE	SUPPLIER	PHONE NO.
TELEPHONE & CABLE TV	SOUTH SLOPE COOPERATIVE ATTN: BRIAN FRESE	319-227-7111
NATURAL GAS	MIDAMERICAN ENERGY ATTN: STACY HANK	319-298-5157
TELEPHONE & CABLE TV	AUREON NETWORK SERVICES ATTN: JEFF KLOCKO	515-830-0445
ELECTRICITY	LINN COUNTY REC ATTN: JOHNA NUNEMAKER	319-298-5157
ELECTRICITY	ALLIANT ENERGY ATTN: LAURA BARR	319-286-1315
TELEPHONE & CABLE TV	MEDIACOM ATTN: RANDY CHASE	319-395-9699
WATER	CITY OF ELY ATTN: DENISE HOY	319-848-4103
SEWER	CITY OF ELY ATTN: DENISE HOY	319-848-4103

BENCHMARK INFORMATION			
POINT	ELEVATION	DATUM	DESCRIPTION
NO. 1	729.787	NAVD88	BENCHMARK, 994'± WEST OF WEST CURB ON STATE STREET ALONG SOUTH SIDE OF VISTA ROAD 40'± NORTH OF THE SOUTH CURB.

SURVEY CONTROL				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
V1	342254.22'	5442168.48'	730.41	CUT 'X' ON SE CORNER OF INTX ON NW SIDE OF STATE STREET AT NORTH DRIVE ENTRANCE TO CASEY'S
V2	3422293.53'	5442777.04'	725.93	CUT 'X' ON CORNER OF RAMP TURNING SPACE NEAR MANHOLE ON NW CORNER OF DOWS AND WALKER ST
V3	3423715.43'	5441406.98'	738.15	CUT 'X' AT END OF CURB ON SOUTH PORTION OF RADIUS AT INTERSECTION OF NORTHGATE DR AND STATE ST
V4	3426006.20'	5439695.80'	745.53	CUT 'X' IN NORTHERN MOST DRIVE TO T&W SERVICE, APPROX 10 FT EAST OF EDGE OF PAVEMENT OF STATE ST
V5	3428658.06'	5438593.67'	757.50	PIN SET AT SW CORNER OF MABIE RD AND ELY RD INTERSECTION.
V6	3425148.41'	5444471.40'	809.463	CUT 'X' AT INTERSECTION OF ROGERS CREEK RD AND JAPPA RD

Sheet Index

C001	COVER SHEET
C120	SITE DIMENSION AND LAYOUT PLAN
CD100	SITE DEMOLITION PLAN
C140	OVERALL GRADING AND EROSION CONTROL PLAN
C141	DETAILED GRADING PLAN
C160	SITE UTILITY PLAN
C500	GENERAL NOTES AND DETAILS

UTILITIES

THE CONTRACTOR SHALL NOTIFY IOWA ONE CALL AT 811 OR 800/292-8989 NO LESS THAN 48 HRS. IN ADVANCE OF ANY DIGGING OR EXCAVATION.

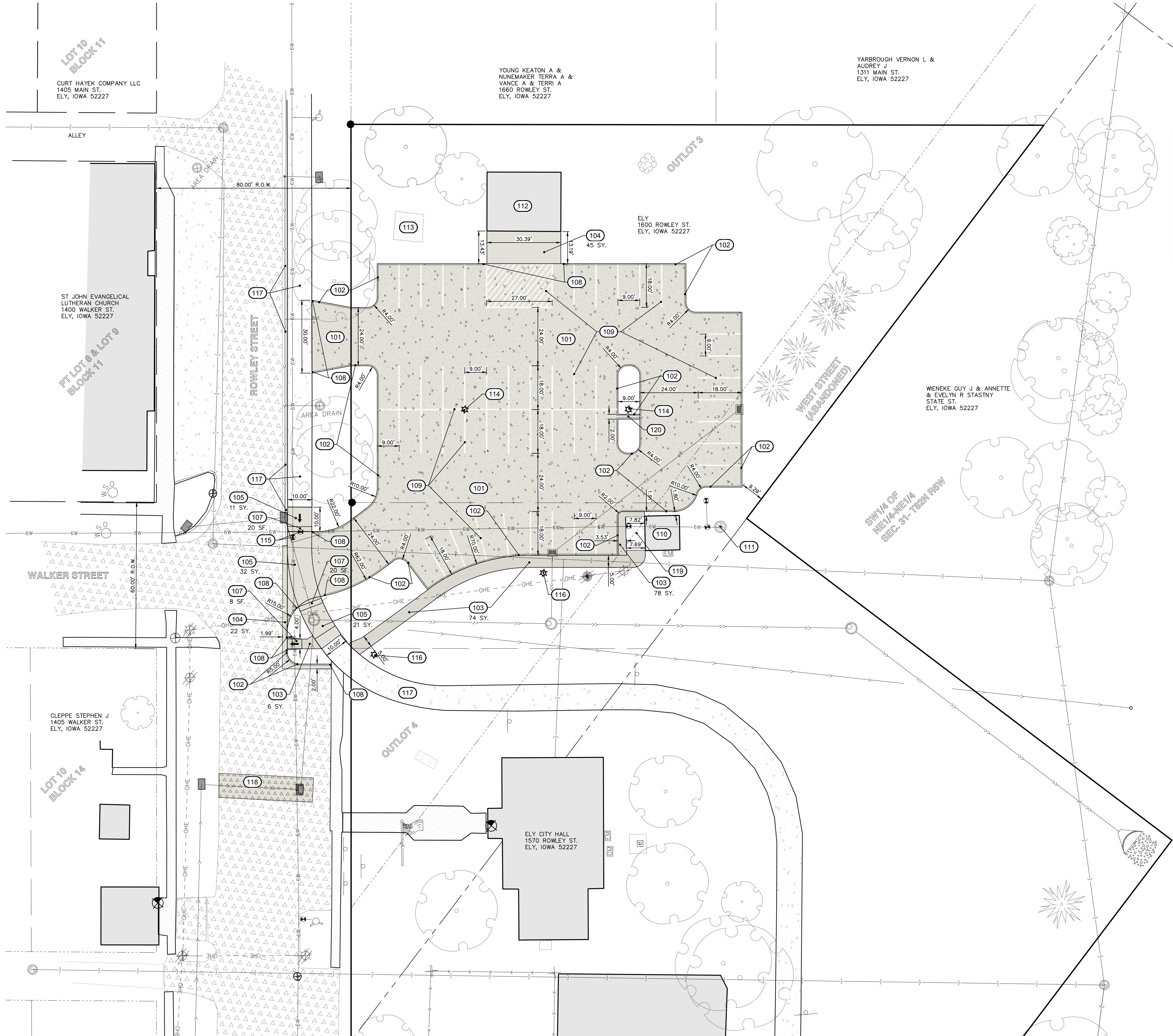
WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.

I hereby certify that this engineering document was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

SCOTT B. POTTORFF, P.E. Iowa Lic. No. 16932

My license renewal date is December 31, 2021.

Pages or sheets covered by this seal:
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PAVING LEGEND

- 6" HMA OVER 6" GRANULAR BASE OR MATCH EXISTING PAVING (IDOT GRADATION 14)
- 5" HMA OVER 6" GRANULAR BASE WITH PCC CURB AND GUTTER SECTION. ALTERNATE: 6" PCC PARKING OVER 4" GRANULAR BASE (IDOT GRADATION 14)
- 6" PCC OVER 4" GRANULAR BASE (IDOT GRADATION 14)
- 4" PCC OVER 4" GRANULAR BASE (IDOT GRADATION 14)

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- EXISTING DRAINAGE MANHOLE
- PROPOSED DRAINAGE MANHOLE
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- PROPOSED CURB INLET
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KEYNOTES	
NUMBER	KEYNOTE
101	INSTALL DRIVE PER DETAIL (THICKNESS AND MATERIAL AS NOTED IN PAVING LEGEND)
102	INSTALL 6" STANDARD CURB
103	INSTALL P.C.C. SIDEWALK PER SUDAS DESIGN STANDARDS
104	6" PCC PAVING ON 4" ROCK BASE WITH INTEGRAL CURB AND GUTTER
105	INSTALL P.C.C. TRAIL PER SUDAS DESIGN STANDARDS.
106	NOT USED
107	INSTALL DETECTIBLE WARNING PANEL
108	CURB TRANSITION
109	INSTALL 4" WIDE PAVEMENT MARKINGS (TYP), WHITE
110	EXISTING CITY WATER SHED.
111	EXISTING WELL HEAD.
112	EXISTING CITY SHED
113	EXISTING CONCRETE PAD
114	LIGHT POLE, TYPE S3, WITH TYPE A LIGHT POLE BASE PER STANDARD ROAD PLAN U-201. LIGHT POLE BASE SHALL EXTEND MINIMUM 36" ABOVE PAVEMENT OR TOP OF CURB
115	EXISTING WATER VALVE BOX TO BE ADJUSTED TO MATCH PROPOSED TRAIL GRADES.
116	LIGHT POLE, TYPE S1, WITH TYPE A LIGHT POLE BASE PER STANDARD ROAD PLAN U-201. LIGHT POLE BASE SHALL BE FLUSH WITH FINISH GRADE
117	EXISTING 3" ROLL CURB AND 10' TRAIL TO REMAIN. PROTECT DURING CONSTRUCTION. REPAIR ANY CURB AND/OR TRAIL PANELS DAMAGED DURING CONSTRUCTION.
118	INSTALL CITY STREET SECTION. MATCH EXISTING STREET MATERIAL, THICKNESS AND SUBBASE. (ALTERNATE #2 WORK)
119	EXISTING STOOP TO REMAIN. PROTECT DURING CONSTRUCTION. REPAIR ANY SECTION DAMAGED DURING CONSTRUCTION.
120	INSTALL CONCRETE FLUME

THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PER IDOT STANDARD ROAD PLANS AND CITY OF ELY REQUIREMENTS AT ALL TIMES DURING WORK WITHIN PUBLIC R.O.W.

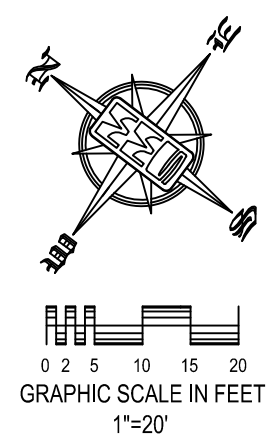
THE CONTRACTOR SHALL COORDINATE WITH UTILITY PROVIDERS FOR ANY REQUIRED RELOCATION OF EXISTING UTILITIES.

UTILITIES

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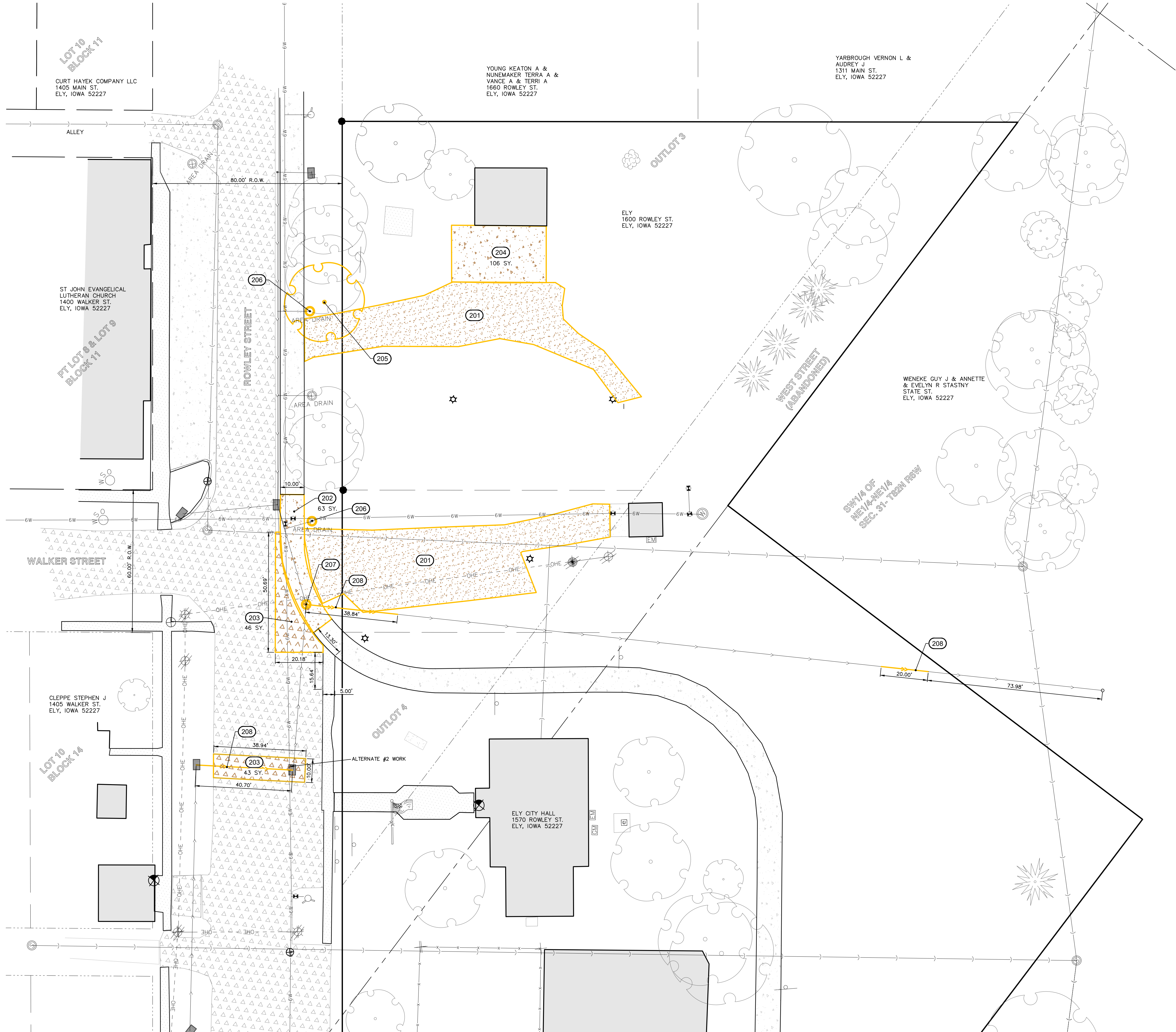
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SITE DIMENSION AND LAYOUT PLAN

CITY HALL
PARKING LOT
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KEYNOTES	
NUMBER	KEYNOTE
(201)	REMOVE EXISTING GRANULAR SURFACE
(202)	SAWCUT AT EXISTING JOINT AND REMOVE EXISTING PCC SIDEWALK
(203)	SAWCUT AND REMOVE EXISTING ASPHALT PAVING
(204)	REMOVE EXISTING PCC PAVING.
(205)	REMOVE EXISTING INDIVIDUAL TREES AND BUSHES. CLEAR AND GRUB ALL EXISTING STUMPS.
(206)	REMOVE EXISTING AREA DRAIN. CAP EXISTING PIPE.
(207)	REMOVE EXISTING STORM MANHOLE.
(208)	REMOVE EXISTING STORM SEWER AS NEEDED TO INSTALL NEW STORM SEWER.

PAVEMENT AND SURFACE LEGEND	
	EXISTING ASPHALT PAVEMENT OF VARYING THICKNESS AND SUB-BASE.
	EXISTING PCC PAVEMENT OF VARYING THICKNESS AND SUB-BASE.
	EXISTING PCC SIDEWALK OF VARYING THICKNESS AND SUB-BASE.
	GRAVEL ARE TO BE REMOVED
	CONC. PAVEMENT TO BE REMOVED

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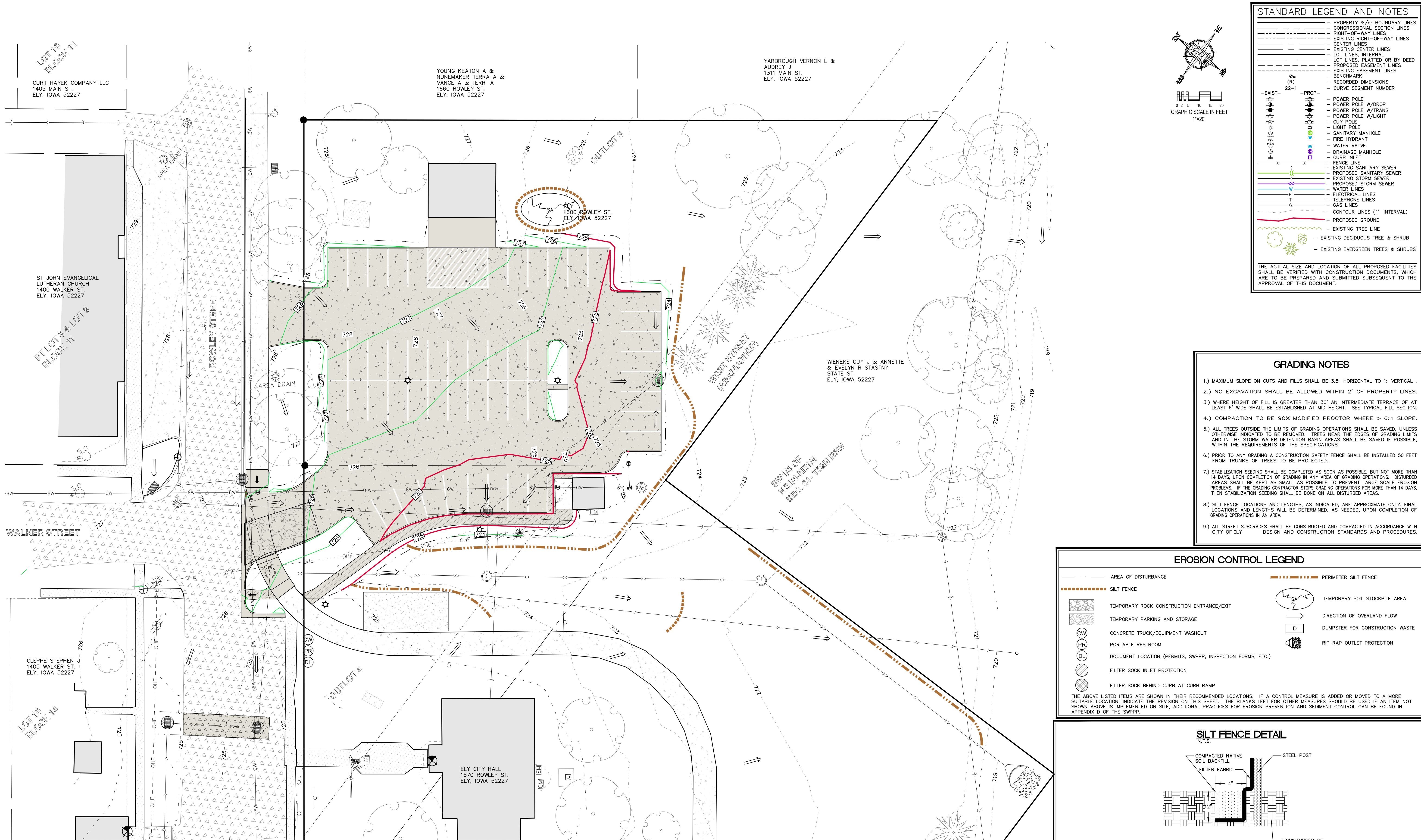
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SITE DEMOLITION PLAN

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- POWER POLE W/LIGHT
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GRADING NOTES

- 1.) MAXIMUM SLOPE ON CUTS AND FILLS SHALL BE 3:5. HORIZONTAL TO 1: VERTICAL.
- 2.) NO EXCAVATION SHALL BE ALLOWED WITHIN 2' OF PROPERTY LINES.
- 3.) WHERE HEIGHT OF FILL IS GREATER THAN 30' AN INTERMEDIATE TERRACE OF AT LEAST 6' WIDE SHALL BE ESTABLISHED AT MID HEIGHT. SEE TYPICAL FILL SECTION.
- 4.) COMPACTION TO BE 90% MODIFIED PROCTOR WHERE > 6:1 SLOPE.
- 5.) ALL TREES OUTSIDE THE LIMITS OF GRADING OPERATIONS SHALL BE SAVED, UNLESS OTHERWISE INDICATED TO BE REMOVED. TREES NEAR THE EDGES OF GRADING LIMITS AND IN THE STORM WATER DETENTION BASIN AREAS SHALL BE SAVED IF POSSIBLE, WITHIN THE REQUIREMENTS OF THE SPECIFICATIONS.
- 6.) PRIOR TO ANY GRADING A CONSTRUCTION SAFETY FENCE SHALL BE INSTALLED 50 FEET FROM TRUNKS OF TREES TO BE PROTECTED.
- 7.) STABILIZATION SEEDING SHALL BE COMPLETED AS SOON AS POSSIBLE, BUT NOT MORE THAN 14 DAYS, UPON COMPLETION OF GRADING IN ANY AREA OF GRADING OPERATIONS. DISTURBED AREAS SHALL BE KEPT AS SMALL AS POSSIBLE TO PREVENT LARGE SCALE EROSION PROBLEMS. IF THE GRADING CONTRACTOR STOPS GRADING OPERATIONS FOR MORE THAN 14 DAYS, THEN STABILIZATION SEEDING SHALL BE DONE ON ALL DISTURBED AREAS.
- 8.) SILT FENCE LOCATIONS AND LENGTHS, AS INDICATED, ARE APPROXIMATE ONLY. FINAL LOCATIONS AND LENGTHS WILL BE DETERMINED, AS NEEDED, UPON COMPLETION OF GRADING OPERATIONS IN AN AREA.
- 9.) ALL STREET SUBGRADES SHALL BE CONSTRUCTED AND COMPACTED IN ACCORDANCE WITH CITY OF ELY.

EROSION CONTROL LEGEND

- AREA OF DISTURBANCE
- SILT FENCE
- TEMPORARY ROCK CONSTRUCTION ENTRANCE/EXIT
- TEMPORARY PARKING AND STORAGE
- CONCRETE TRUCK/EQUIPMENT WASHOUT
- PORTABLE RESTROOM
- DOCUMENT LOCATION (PERMITS, SWPPP, INSPECTION FORMS, ETC.)
- FILTER SOCK INLET PROTECTION
- FILTER SOCK BEHIND CURB AT CURB RAMP
- PERIMETER SILT FENCE
- TEMPORARY SOIL STOCKPILE AREA
- DIRECTION OF OVERLAND FLOW
- DUMPSTER FOR CONSTRUCTION WASTE
- RIP RAP OUTLET PROTECTION

THE ABOVE LISTED ITEMS ARE SHOWN IN THEIR RECOMMENDED LOCATIONS. IF A CONTROL MEASURE IS ADDED OR MOVED TO A MORE SUITABLE LOCATION, INDICATE THE REVISION ON THIS SHEET. THE BLANKS LEFT FOR OTHER MEASURES SHOULD BE USED IF AN ITEM NOT SHOWN ABOVE IS IMPLEMENTED ON SITE. ADDITIONAL PRACTICES FOR EROSION PREVENTION AND SEDIMENT CONTROL CAN BE FOUND IN APPENDIX D OF THE SWPPP.

SILT FENCE DETAIL

N.T.S.

GRADING AND EROSION CONTROL NOTES

TOTAL SITE AREA: 0.53 ACRES
TOTAL AREA TO BE DISTURBED: 0.53 ACRES

EROSION CONTROL MEASURES SHOWN SHALL BE USED DURING FILL ACTIVITIES. EROSION CONTROL MEASURES SHALL BE REEVALUATED AND MODIFIED, IF NECESSARY, AT THE TIME OF SITE DEVELOPMENT.

ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES THAT COULD BE USED ON SITE, IF NEEDED, CAN BE FOUND IN APPENDIX D OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) BINDER PREPARED FOR THE SITE. IF ADDITIONAL MEASURES ARE USED, INDICATE THE TYPE AND LOCATION OF SAID MEASURE ON THIS PLAN.

CONTRACTOR SHALL INSTALL A ROCK ENTRANCE AND PERFORM REGULAR CLEANING OF VEHICLES THAT LEAVE THE SITE.

FOLLOWING INSTALLATION OF PERIMETER SILT FENCE AND TEMPORARY CONSTRUCTION ENTRANCE THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR TO SCHEDULE A SITE INSPECTION PRIOR TO ANY SOIL DISTURBING ACTIVITIES.

THE CONTRACTOR SHALL FOLLOW THE NPDES PERMIT, SWPPP, AND THE CITY CSR REGULATIONS.

THE EROSION CONTROL CONTRACTOR SHALL INSTALL FILTER SOCKS OR OTHER APPROVED FORM OF INLET PROTECTION AT EACH STREET INTAKE ADJACENT TO THE SITE.

INSTALLATION

1. POSTS SHALL BE 1.33 POUNDS PER LINEAL FOOT STEEL WITH A MINIMUM LENGTH OF 5 FEET. STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.
2. SILT FENCE FABRIC SHALL CONFORM TO I.D.O.T. STANDARD SPECIFICATION SECTION 4196.01.A. SILT FENCING SHALL BE A MINIMUM OF 24" AND A MAXIMUM OF 36" HIGH WHEN COMPLETE.
3. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE FENCE TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, THE FILTER CLOTH SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6" OVERLAP, AND SECURELY SEALED.
4. POSTS SHALL BE SPACED A MAXIMUM OF 8 FEET APART AND DRIVEN SECURELY INTO THE GROUND ALONG THE FENCE ALIGNMENT. POSTS SHALL BE DRIVEN INTO THE GROUND A MINIMUM OF 28".
5. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" WIDE BY 12" DEEP ALONG THE UPSLOPE SIDE OF THE POSTS.
6. FILTER FABRIC SHALL BE STAPLED OR WIED TO THE POSTS SUCH THAT THE FABRIC EXTENDS INTO THE TRENCH AS SHOWN ABOVE. THE FABRIC SHALL BE FASTENED A MINIMUM OF THREE PLACES ON EACH POST.
7. THE TRENCH SHALL BE BACK FILLED WITH EXCAVATED MATERIAL AND THOROUGHLY COMPACTED.

MAINTENANCE

1. SILT FENCES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL EVENT OF 0.5 INCHES OR MORE. DURING PERIODS OF PROLONGED RAIN INSPECTIONS SHALL BE AT LEAST DAILY. ANY REPAIRS NEEDED TO MAINTAIN THE SILT FENCE'S EFFECTIVENESS SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO STABILIZING THE UPSLOPE AREAS THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN THE DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE FENCE. SILTS REMOVED SHALL BE PLACED IN A PROTECTED PLACE THAT WILL PREVENT THEIR ESCAPE FROM THE CONSTRUCTION SITE.
4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER NEEDED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEED.
5. SILT FENCE SHALL REMAIN IN PLACE UNTIL IT IS NO LONGER NEEDED AS DIRECTED BY THE POLLUTION PREVENTION PLAN. GENERALLY SILT FENCES SHALL REMAIN UNTIL THE UPSLOPE AREAS ARE STABILIZED WITH AN ESTABLISHED GRASS COVER AS A MINIMUM.



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IOWA CITY, IOWA 52240
(319) 351-8282
www.mmsconsultants.net

Date: Revision:

OVERALL GRADING AND EROSION CONTROL PLAN

CITY HALL
PARKING LOT
1600 ROWLEY ST.
ELY, LINN COUNTY,
IOWA

MMS CONSULTANTS, INC.

Date: 8/8/21

Designed by: SBP Field Book No: 1300

Drawn by: TAV Scale: 1"=20'

Checked by: SBP Sheet No:

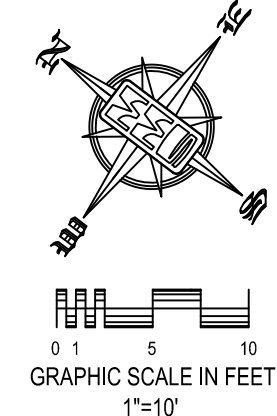
Project No: C140

5701-087 of: 1

STANDARD LEGEND AND NOTES

- PROPERTY &/or BOUNDARY LINES
- CONGRESSIONAL SECTION LINES
- RIGHT-OF-WAY LINES
- EXISTING RIGHT-OF-WAY LINES
- CENTER LINES
- EXISTING CENTER LINES
- LOT LINES, INTERNAL
- LOT LINES, PLATTED OR BY DEED
- PROPOSED EASEMENT LINES
- EXISTING EASEMENT LINES
- BENCHMARK
- RECORDED DIMENSIONS
- CURVE SEGMENT NUMBER
- EXIST- (R) 22-1
- PROP- (R) 22-1
- POWER POLE
- POWER POLE W/DROP
- POWER POLE W/TRANS
- POWER POLE W/LIGHT
- GUY POLE
- SANITARY MANHOLE
- FIRE HYDRANT
- WATER VALVE
- DRAINAGE MANHOLE
- CURB INLET
- FENCE LINE
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- WATER LINES
- ELECTRICAL LINES
- TELEPHONE LINES
- GAS LINES
- CONTOUR LINES (1' INTERVAL)
- PROPOSED GROUND
- EXISTING TREE LINE
- EXISTING DECIDUOUS TREE & SHRUB
- EXISTING EVERGREEN TREES & SHRUBS

THE ACTUAL SIZE AND LOCATION OF ALL PROPOSED FACILITIES SHALL BE VERIFIED WITH CONSTRUCTION DOCUMENTS, WHICH ARE TO BE PREPARED AND SUBMITTED SUBSEQUENT TO THE APPROVAL OF THIS DOCUMENT.



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Date	Revision
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DETAILED GRADING PLAN

CITY HALL
PARKING LOT
1600 ROWLEY ST.
ELY, LINN COUNTY,
IOWA

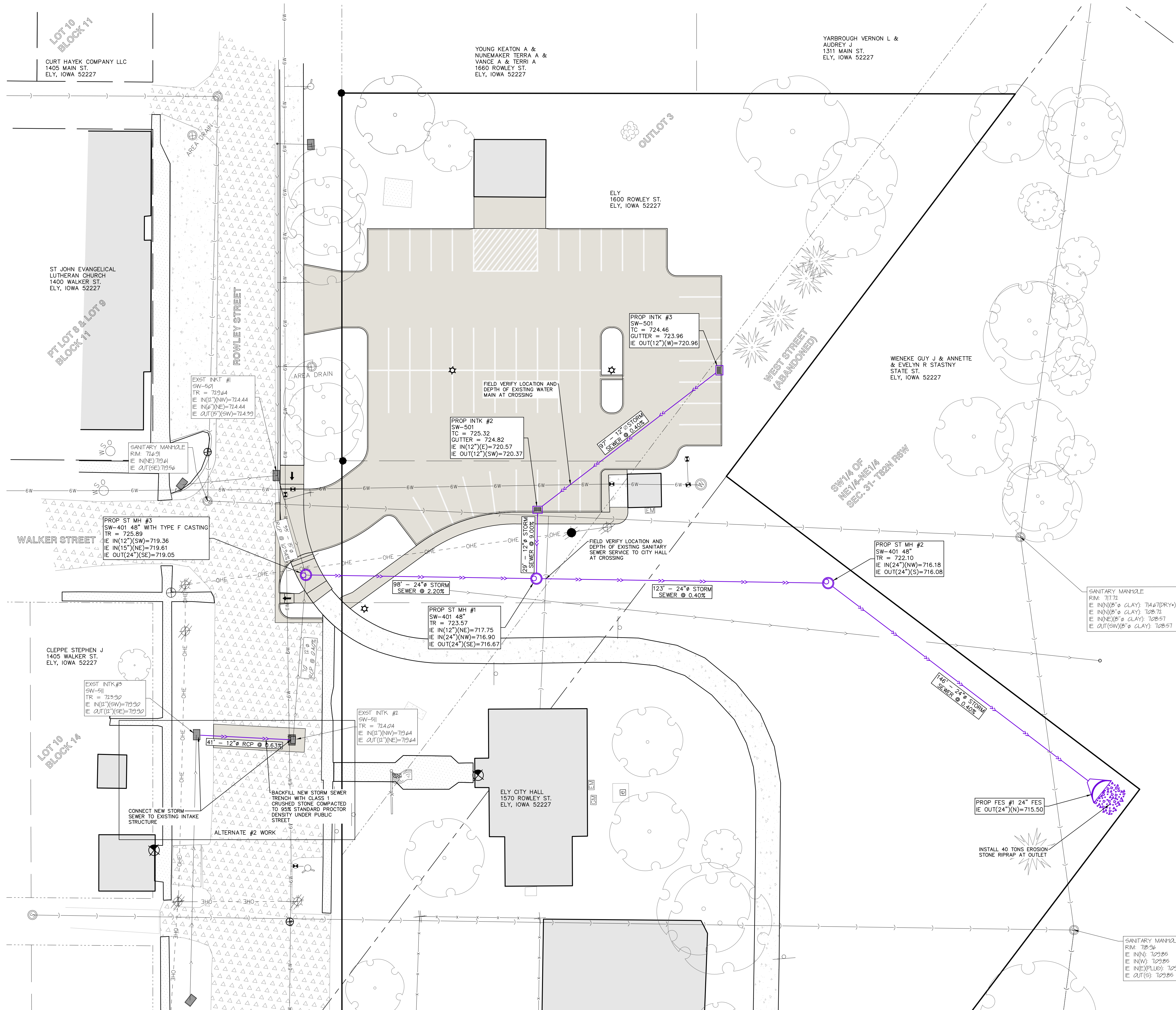
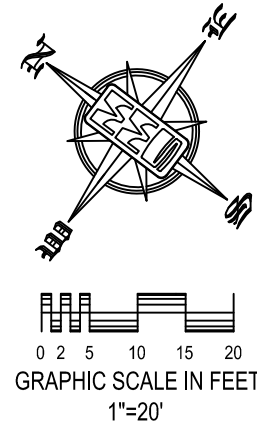
MMS CONSULTANTS, INC.	
Date:	8/8/21
Designed by:	SBP
Field Book No.:	1300
Drawn by:	TAV
Scale:	1"=10'
Checked by:	SBP
Sheet No.:	
Project No.:	5701-087
of:	1
C141	



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STANDARD LEGEND AND NOTES	
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	LIGHT POLE
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	FIRE HYDRANT
	WATER VALVE
	DRAINAGE MANHOLE
	CURB INLET
	FENCE LINE
	EXISTING SANITARY SEWER
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	EXISTING STORM SEWER
	PROPOSED STORM SEWER
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THE ACTUAL SIZE AND LOCATION OF ALL PROPOSED FACILITIES SHALL BE VERIFIED WITH CONSTRUCTION DOCUMENTS, WHICH ARE TO BE PREPARED AND SUBMITTED SUBSEQUENT TO THE APPROVAL OF THIS DOCUMENT.	

SITE UTILITY PLAN

CITY HALL
PARKING LOT
1600 ROWLEY ST.
ELY, LINN COUNTY,
IOWA

MMS CONSULTANTS, INC.

Date: 8/8/21

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Project No: C160

5701-087 of: 1



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GENERAL NOTES AND DETAILS

CITY HALL
PARKING LOT
1600 ROWLEY ST.
ELY,
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IOWA

MMS CONSULTANTS, INC.

Date: 8/8/21

Designed by: SBP Field Book No: 1300

Drawn by: TAV Scale: N/A

Checked by: SBP Sheet No:

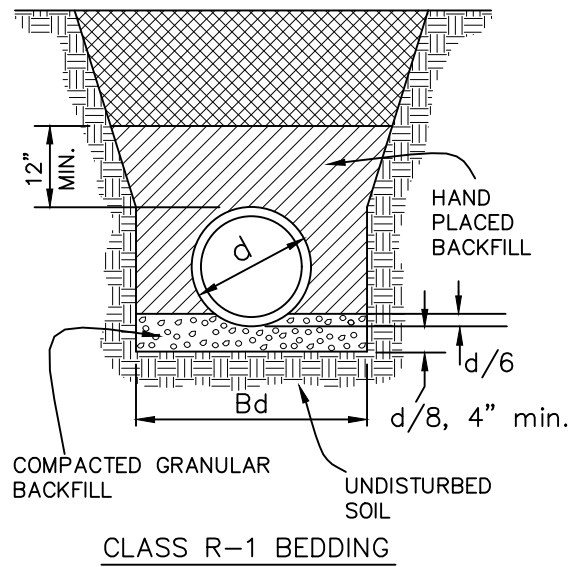
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5701-087 of: 1

STORM SEWER NOTES

- 1) STORM SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD DETAILED SPECIFICATIONS AND DETAILED SPECIFICATION REQUIREMENTS PREPARED FOR THIS PROJECT. CITY OF ELY DESIGN AND CONSTRUCTION STANDARDS AND PROCEDURES SHALL PREVAIL.
- 2) ALL STORM SEWERS SHALL BE CLASS 3 RCP OR DUAL WALL POLYETHYLENE PIPE UNLESS NOTED OTHERWISE IN THE PLANS.
- 3) AT PLACES WHERE A FLARED END SECTION IS REQUIRED, PIPE LENGTH INCLUDES THE FLARED END. THE LAST TWO JOINTS ARE TO BE TIED WHERE FLARED END SECTIONS ARE REQUIRED.
- 4) ALL RCP STORM SEWERS SHALL BE PROVIDED WITH CLASS R-1 BEDDING AS SHOWN ON STANDARD ROAD PLAN SW-102. DUAL WALL POLYETHYLENE STORM SEWERS SHALL BE PROVIDED WITH CLASS F-3 BEDDING AS SHOWN ON STANDARD ROAD PLAN SW-103.
- 5) STORM SEWERS OUTSIDE OF THE PUBLIC STREET SHALL BE BACKFILLED WITH EITHER OF THE FOLLOWING COMPACTED TO 95% SATNDARD PROCTOR DENSITY:
 - A. SUITABLE EXCAVATED MATERIAL. IF EXCAVATED MATERIAL IS NOT SUITABLE, THEN
 - B. CRUSHED STONE AS SPECIFIED FOR GRANULAR TRENCH BACKFILL SHALL BE USED.
- 6) GRANULAR TRENCH BACKFILL SHALL BE CLASS A CRUSHED STONE COMPACTED TO 95% STANDARD PROCTOR DENSITY. STORM SEWERS WITHIN PUBLIC STREET ROW SHALL BE BACKFILLED WITH GRANULAR TRENCH BACKFILL.
- 7) ALL RCP STORM SEWERS SHALL HAVE TONGUE AND GROOVE JOINTS WRAPPED WITH ENGINEERING FABRIC. DUAL WALL POLYETHYLENE STORM SEWERS SHALL HAVE SOIL TIGHT JOINTS.
- 8) ALL PIPE SHALL BE CERTIFIED.
- 9) ALL STORM INTAKES SHALL BE A MINIMUM OF 48 INCHES FROM TOP OF CURB/RIM TO SUBGRADE. IF INVERT ELEVATIONS ARE INSUFFICIENT TO PROVIDE THIS REQUIRED DEPTH, THE CONTRACTOR TO PROVIDE DEEPER STRUCTURE AND POUR CONCRETE FILLET IN INTAKE TO MAKE INTAKE PIPES DRAIN AT INVERT ELEVATIONS LISTED.
- 10) LIFT HOLES IN STORM SEWER WILL NOT BE ALLOWED.
- 11) MANHOLE SHALL NOT HAVE STEPS
- 12) PROVIDE CONCRETE FILLETS IN ALL NEW & EXISTING DRAINAGE STRUCTURES PER REFERENCED DETAILS.
- 13) ALL STORM SEWER STRUCTURES ARE TO BE WATER TIGHT WITH WATER STOP USED IN CONSTRUCTION JOINT AND PENETRATIONS. RISERS SHALL BE LADTECH HDPE RISERS OR CRETEX PRO-RING.

WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS, OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THOSE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THAT THERE MAY BE OTHER FACILITIES IN THE CONSTRUCTION AREA, THE EXISTENCE OF WHICH IS NOT PRESENTLY KNOWN OR SHOWN HEREON. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION, AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.



- NOTES:
1. PIPE SHALL BE PLACED ON CRUSHED STONE MATERIAL.
 2. BELL HOLES SHALL BE HAND SHAPED SO THAT ONLY PIPE BARREL RECEIVES BEARING PRESSURE.
 3. PLACE BEDDING TO ENSURE THAT THERE ARE NO VOIDS UNDER OR ALONGSIDE THE LENGTH OF PIPE.
 4. BACKFILL SHALL BE HAND TAMPED UP TO 12" ABOVE TOP OF PIPE.
 5. SEE TABLE FOR ALLOWABLE TRENCH WIDTH Bd.

ID INCHES	Bd FEET & INCHES
12	2-3
15	2-9
18	3-0
21	3-3
24	3-6
27	4-0
30	4-3
36	4-9
42	5-6
48	6-3

TRAIL CLOSURE AND DETOUR NOTES

INSTALL "TRAIL CLOSED AHEAD" SIGNS AND "TRAIL DETOUR" SIGNS TO DIVERT PEDESTRIAN AND BICYCLE TRAFFIC AROUND THE WORK AREA WHILE THE TRAIL IS BEING RECONSTRUCTED ADJACENT TO THE PARKING LOT. DETOUR TRAIL TRAFFIC ALONG STATE STREET SIDEWALKS WEST OF THE TENNIS COURTS AND ALONG ROWLEY STREET SIDEWALKS ONT HE NORTH SIDE OF ROWLEY STREET TO MAIN STREET WHERE THE TRAFFIC CAN USE THE TRAIL. PLACE TRAIL CLOSURE SIGNS AT MAIN STREET AND AT STATE STREET SOUTH OF THE TENNIS COURTS. INSTALL DETOUR SIGNS AS REQUIRED TO DIRECT TRAIL TRAFFIC AS DESCRIBED ABOVE.

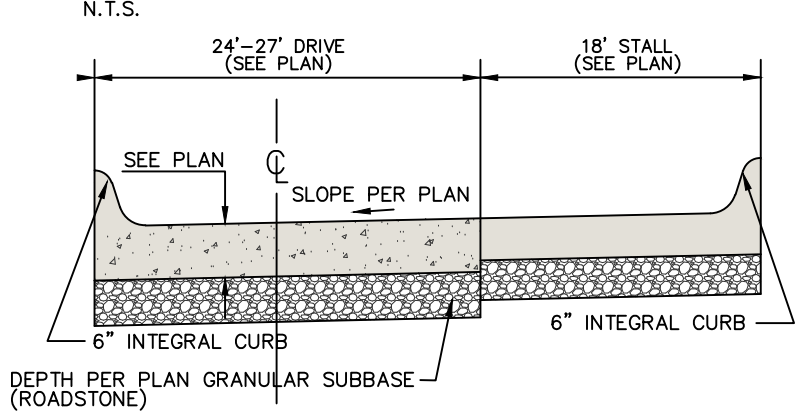
TRAFFIC CONTROL DEVICES, PROCEDURES, LAYOUTS, SIGNING, AND PAVEMENT MARKINGS INSTALLED WITHIN THE PROJECT LIMITS SHALL CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR. THE CONTRACTOR SHALL REMOVE AND REINSTALL PERMANENT SIGNAGE AS REQUIRED..
2. ALL TRAFFIC CONTROL SIGNS SHALL BE PLACED A MINIMUM OF 2 FEET CLEAR OF THE EDGE OF TRAIL WHERE POSSIBLE.
3. CONTRACTOR SHALL MOUNT ALL WARNING SIGNS ON PERMANENT POSTS. PORTABLE MOUNTINGS FOR WARNING SIGNS MAY BE USED FOR TEMPORARY INSTALLATIONS OF LESS THAN 3 DAYS ONLY.
4. THE CONTRACTOR SHALL PROVIDE ALL BARRICADES AND SIGNING REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE CURRENT EDITION OF THE MUTCD.

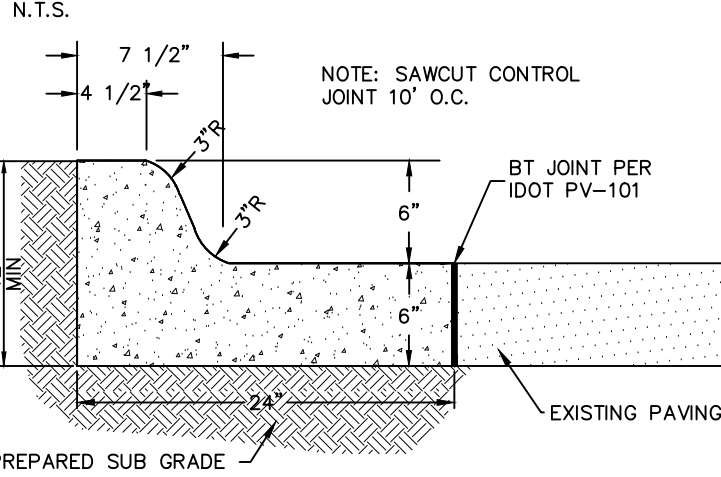
PAVING CONSTRUCTION NOTES

1. PAVEMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH I.D.O.T. SPECIFICATION SECTION 2301.
2. I.D.O.T. CLASS C-3 CONCRETE SHALL BE USED, UNLESS NOTED OTHERWISE.
3. PAVEMENT JOINTS SHALL CONFORM TO I.D.O.T. STANDARD ROAD PLAN PV-101.
4. SUBGRADE UNDER PROPOSED PAVEMENT SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY, TO A DEPTH OF SIX (6) INCHES, UNLESS NOTED OTHERWISE.
5. ALL SAWED PAVEMENT JOINTS SHALL BE SEALED.

TYPICAL DRIVE/PARKING SECTION



2' WIDE CURB AND GUTTER DETAIL



TRAFFIC CONTROL NOTES

TRAFFIC ON ROWLEY STREET SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION EXCEPT DURING STORM SEWER CROSSING. TRAFFIC ON ROWLEY STREET SHALL BE CLOSED TO TRAFFIC FOR STORM SEWER CROSSING, UTILIZING STANDARD ROAD PLAN TC-252 FOR THE ROAD CLOSURE. MAINTAIN TRAFFIC THRU THE INTERSECTION OF ROWLEY STREET AND WALKER STREET AT ALL TIMES DURING STORM SEWER CROSSING WORK. DURING THE REST OF THE PROJECT, MAINTAIN TRAFFIC CONTROL IN ACCORDANCE WITH STANDARD ROAD PLAN TC-202, WITH "ROAD WORK AHEAD" AND "END ROAD WORK" SIGNS ALONG ROWLEY STREET AND WALKER STREET AT ALL TIMES DURING CONSTRUCTION. MAINTAIN ACCESS TO ADJACENT PROPERTIES AT ALL TIMES. MAINTAIN TWO LANES OF TRAFFIC AT ALL TIMES WHEN THE CONTRACTOR IS NOT WORKING.

LOCAL TRAFFIC TO ADJACENT PROPERTIES SHALL BE MAINTAINED AS MUCH AS PRACTICAL AND SHALL BE MAINTAINED WHEN CONTRACTOR IS NOT WORKING. TRAFFIC CONTROL DEVICES, PROCEDURES, LAYOUTS, SIGNING, AND PAVEMENT MARKINGS INSTALLED WITHIN THE PROJECT LIMITS SHALL CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR. THE CONTRACTOR SHALL REMOVE AND REINSTALL PERMANENT SIGNAGE AS REQUIRED..
2. ALL TRAFFIC CONTROL SIGNS SHALL BE PLACED A MINIMUM OF 2 FEET CLEAR OF THE EDGE OF SHOULDER OR BACK OF CURB WHERE POSSIBLE.
3. CONTRACTOR SHALL MOUNT ALL WARNING SIGNS ON PERMANENT POSTS. PORTABLE MOUNTINGS FOR WARNING SIGNS MAY BE USED FOR TEMPORARY INSTALLATIONS OF LESS THAN 3 DAYS ONLY.
4. THE LOCATION FOR STORAGE OF EQUIPMENT BY THE CONTRACTOR DURING NON-WORKING HOURS SHALL BE AS APPROVED BY THE CITY OF ELY, AND THE CONTRACTOR SHALL PROVIDE A WRITTEN AGREEMENT WITH THE PROPERTY OWNER. CONSTRUCTION EQUIPMENT MAY BE STORED WITHIN THE RIGHT OF WAY, INSIDE THE ROAD CLOSURE BARRICADES, BUT THE ACCESS TO ADJACENT PROPERTIES SHALL BE FREE OF CONTRACTORS EQUIPMENT DURING NON-WORKING HOURS.
5. CONTRACTOR SHALL CONFINE EQUIPMENT AND WORK TO CONSTRUCTION LIMITS AND RIGHT OF WAY.
6. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES ON RELOCATIONS AND/OR ADJUSTMENTS TO EXISTING UTILITIES WITHIN THE CORRIDOR.
7. THE CONTRACTOR SHALL PROVIDE ALL BARRICADES AND SIGNING REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE CURRENT EDITION OF THE MUTCD.