

# North Liberty Planning Commission

Meeting Information

Tuesday, April 3, 2018 6:30 PM City Council Chambers

If you would like additional information, larger-scale maps, or other information before the meeting, please contact Dean Wheatley at 626-5747 or at dwheatley@northlibertyiowa.org



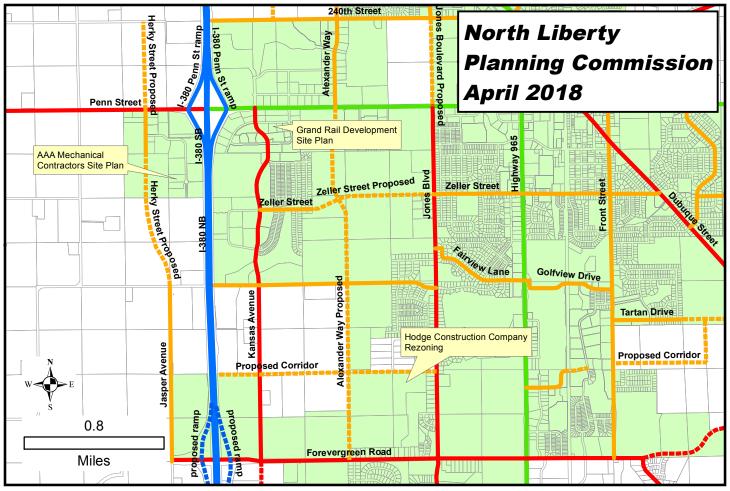
# NORTH LIBERTY PLANNING COMMISSION MEETING NOTICE AND AGENDA

Tuesday, April 3, 2018, 6:30 PM
North Liberty City Council Chambers, 1 Quail Creek Circle

- 1. ROLL CALL
- 2. AGENDA APPROVAL
- 3. SITE PLAN: Request from AAA Mechanical Contractors, Inc. to approve a site plan for a new mechanical contractor building located generally at the southwest corner of the I-380 Industrial Park, near the south end of Stoner Court. (Lot 1 of I-380 Industrial Park Second Addition)
  - a. Staff Presentation
  - b. Applicants Presentation
  - c. Public Comments
  - d. Questions and Comments
  - e. Recommendation to the City Council
- **4. SITE PLAN:** Request from Grand Rail Development Company, Inc to approve a site plan for a mixed-use development on Madison Avenue, one block south of West Penn Street. (Auditor's Parcel 2002058, Liberty's Gate Part 1)
  - a. Staff Presentation
  - b. Applicants Presentation
  - c. Public Comments
  - d. Questions and Comments
  - e. Recommendation to the City Council
- 5. REZONING: Request from Hodge Construction Company to approve a rezoning of 21.62 acres from ID (Interim Development district) to RS-6 (Residential Single-Family), for property generally located west of Jones Boulevard and north of Forevergreen Road. (Legal: To be platted as Mickelson 2<sup>nd</sup> Addition)
  - a. Staff Presentation
  - b. Applicants Presentation
  - c. Public Comments
  - d. Questions and Comments

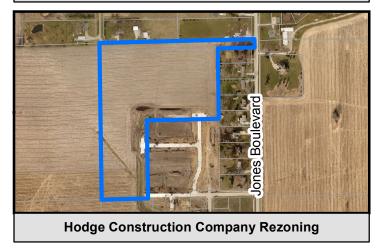
- e. Recommendation to the City Council
- 6. APPROVAL OF PREVIOUS MINUTES
- 7. OLD BUSINESS
- 8. NEW BUSINESS
- 9. ADJOURNMENT

Agenda version: 3/22/2018









2017 Aerial Photography No scale



March 27, 2018

#### Memo

To: North Liberty Planning Commission From: Dean Wheatley, Planning Director Subject: Site Plan Approval Request for industrial development at 2755 Stoner Court. (Lot 1 of I-380 Industrial Park Second Addition)

Your North Liberty city staff has reviewed the subject submission, and offer comments presented in this memo. The staff review team includes the following personnel:
Ryan Heiar, City Administrator
Tracey Mulcahey, Assistant City Administrator
Tom Palmer, City Building Official
Scott Peterson, City Attorney
Kevin Trom, City Engineer
Dean Wheatley, Planning Director

This request is to construct a 17,950 square foot construction contractor building at the southwest corner of the I-380 Industrial Park, at the south end of Stoner Court. The I-380 Industrial Park includes a number of both large and small industrial buildings.

The site layout is relatively simple, with a new large building, parking, and loading at the rear. The westerly 104' of the lot is not buildable due to the existence of a large storm water management area. The building proposed is a handsome industrial steel design that meets code requirements and is appropriate for the area.

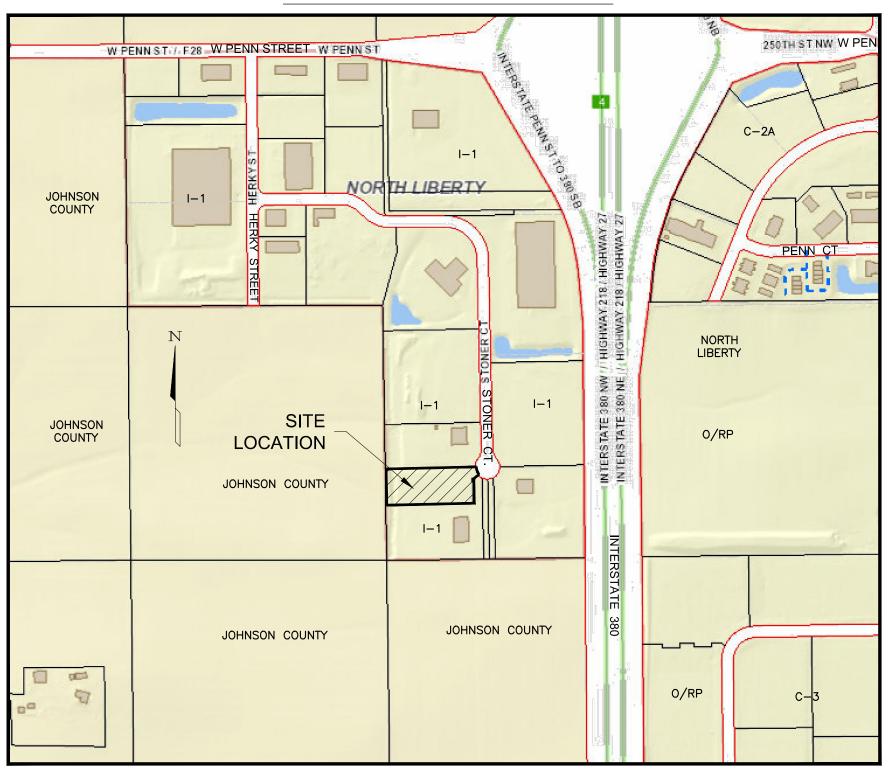
The plan is recommended for approval.

# SITE PLAN AAA MECHANICAL CONTRACTORS, INC. LOT 1, I-380 INDUSTRIAL PARK 2ND ADDITION

2755 STONER COURT CITY OF NORTH LIBERTY, IOWA

#### UTILITY AND EMERGENCY TELEPHONE NUMBERS **AGENCY** CONTACT NUMBER CITY OF NORTH LIBERTY, IOWA (319)626-5700 WATER AND WASTE WATER POLICE DEPARTMENT BUSINESS (319)626-5724 **EMERGENCY** FIRE DEPARTMENT (319)626-5717 BUSINESS **EMERGENCY** (319)292-8989 IOWA ONE CALL (UTILITIES) MIDAMERICAN ENERGY (NAT. GAS) (800)329-6261 BUSINESS **EMERGENCY** (800)595-5325 ALLIANT ENERGY (ELECTRIC) (800)255-4268 BUSINESS LINN COUNTY R.E.C. (ELECTRIC) (800)332-5400 BUSINESS SOUTH SLOPE (TELEPHONE, CABLE TV) BUSINESS (319)626-2211 LOCATES (800)292-8989 MEDIACOM (CABLE TV) BUSINESS (800)332-0245 LOCATES (800)292-8989

# LOCATION MAP



(SCALE: APPROX. 1" = 500')

INDEX OF SHEETS		
NO.	DESCRIPTION	
C1	TITLE SHEET	
C2	SITE LAYOUT, UTILITY, & LANDSCAPE PLAN	
C3	GRADING AND EROSION CONTROL PLAN	
C4	PAVING PLAN	
C5	GENERAL NOTES, LEGEND & BENCHMARKS	
C6	CONSTRUCTION DETAILS	
	C1 C2 C3 C4 C5	

#### LEGAL DESCRIPTION

LOT 1, I-380 INDUSTRIAL PARK SECOND ADDITION TO NORTH LIBERTY, JOHNSON COUNTY, IOWA.

OWNER/APPLICANT: JTJ HÓLDINGS, LLC c/o JEFF KOEPPEL PO BOX 805 IOWA CITY, IOWA 52244 PH: 319-351-1843

ENGINEER/CONTACT: BRAIN ENGINEERING, INC. 1540 MIDLAND COURT NE CEDAR RAPIDS, IOWA 52402 PH: 294-9424 FAX: 294-1056 EMAIL: dans@brain—eng.com

## CONTACT PERSON

Contact Person	Daniel L. Schmidt			
Telephone Number	(319) 294-9424			
Fax Number	(319) 294-1056			
Mailing Address	1540 Midland Court NE			
Date Submitted	3/1/2018			
Date Revised	3/22/18, 3/27/18			

### ZONING INFORMATION

EXISTING ZONING & USE EXISTING ZONING: I-1, INDUSTRIAL DISTRICT PROPOSED ZONING: NO CHANGE PROPOSED USE: MECHANICAL CONTRACTOR

### <u>I-1 SETBACK REQUIREMENTS</u> <u>BUILDING SETBACKS:</u> FRONT YARD — 25 FEET

REAR YARD - 20 FEET SIDE YARD - 20 FEET

REAR YARD — 5 FEET SIDE YARD - 5 FEET

SITE AREA CALCULATION:

TOTAL SITE AREA: 87,117 SQ. FEET = 2.00 ACRES BUILDING AREA: 17,950 SQ. FEET - 20.6% PAVED AREA: 43,245 SQ. FEET - 49.6% TOTAL HARD SURFACE: 61,082 SQ. FEET - 70.1%

#### BUILDING INFORMATION:

MECHANICAL CONTRACTOR: AAA MECHANICAL CONTRACTORS, INC. SINGLE STORY WITH STORAGE MEZZANINE

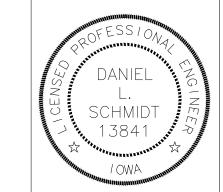
MAIN LEVEL: OFFICE AREA = 5,950 SQ. FT. WAREHOUSE AREA = 12,000 SQ. FT. MEZZANINE: 1,502 SQ. FT. (STORAGE)

#### PARKING REQUIREMENTS

TOTAL PARKING SPACES REQUIRED: INDUSTRY: 1/500 S.F. GFA = 36 SPACES (17,950 SQ. FT.)

TOTAL PARKING PROVIDED: 38 SPACES

ADA SPACES REQUIRED: 2 INCL. 1 VAN ACCESSIBLE ADA SPACES PROVIDED : 2 INCL. 1 VAN ACCESSIBLE



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.

Signed

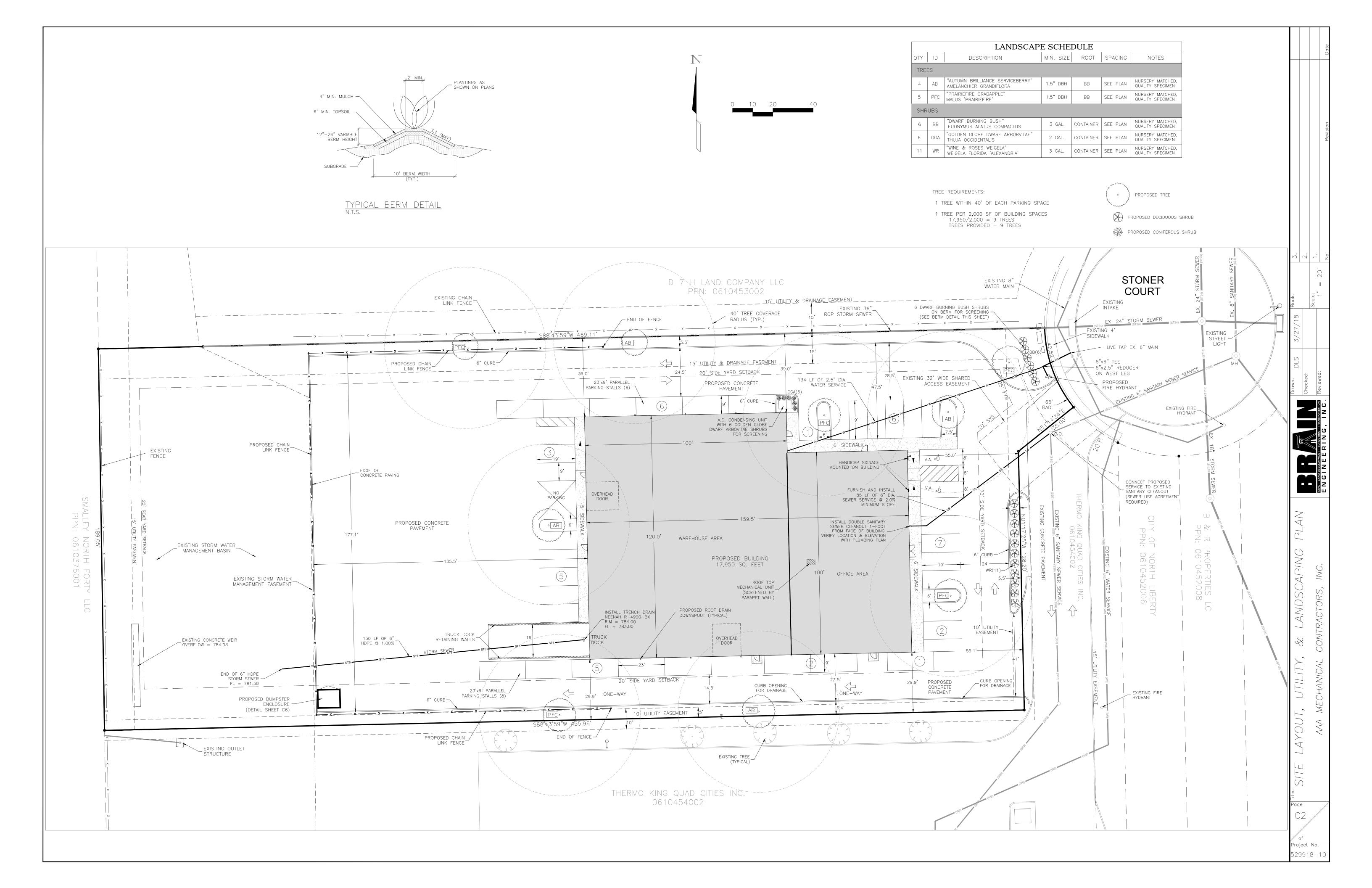
Daniel L. Schmidt 3/27/2018 Daniel L. Schmidt, P.E.

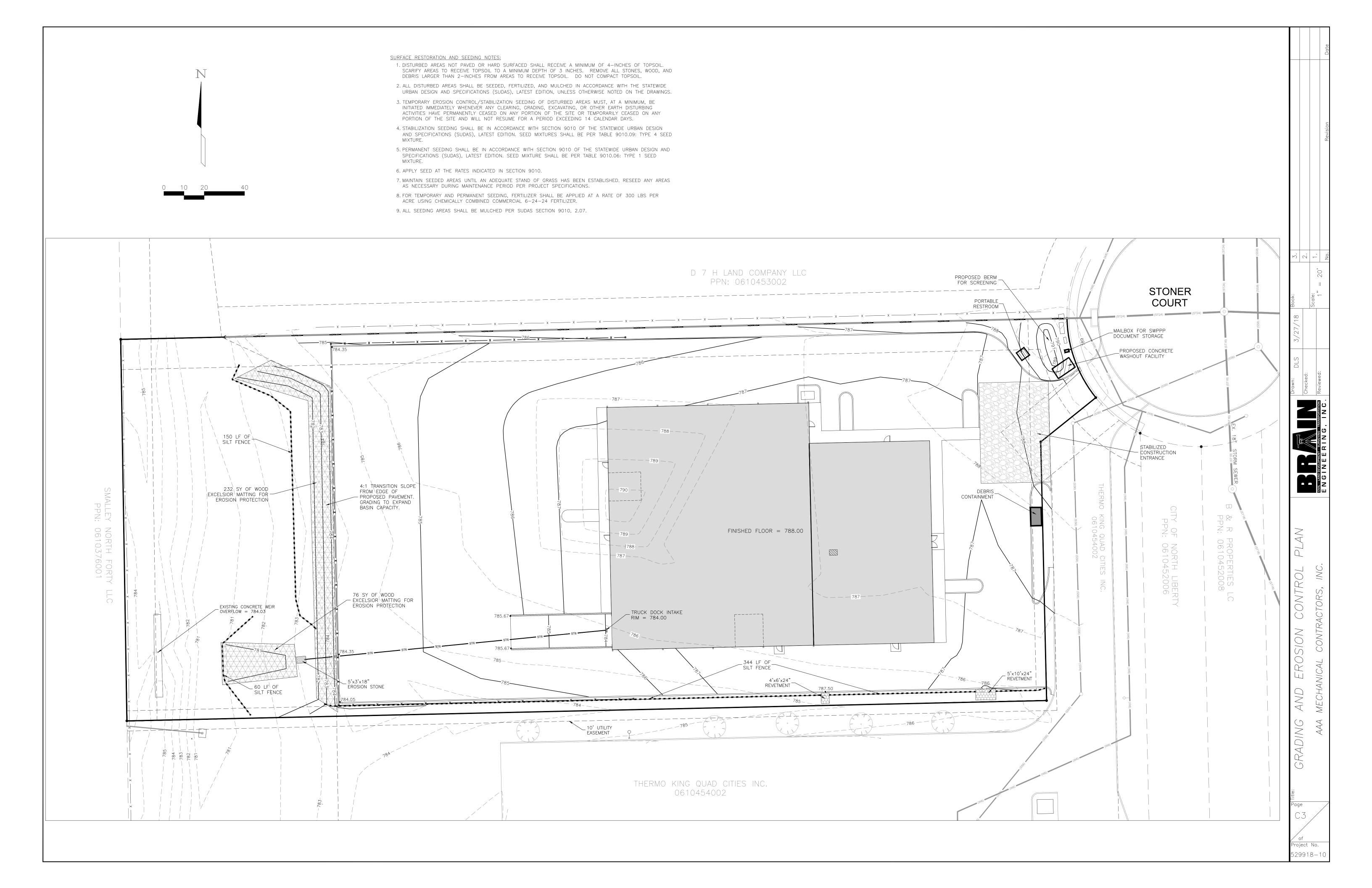
My License Renewal Date Is December 31, 2018 License Number 13841 Pages or sheets covered by this seal: 6

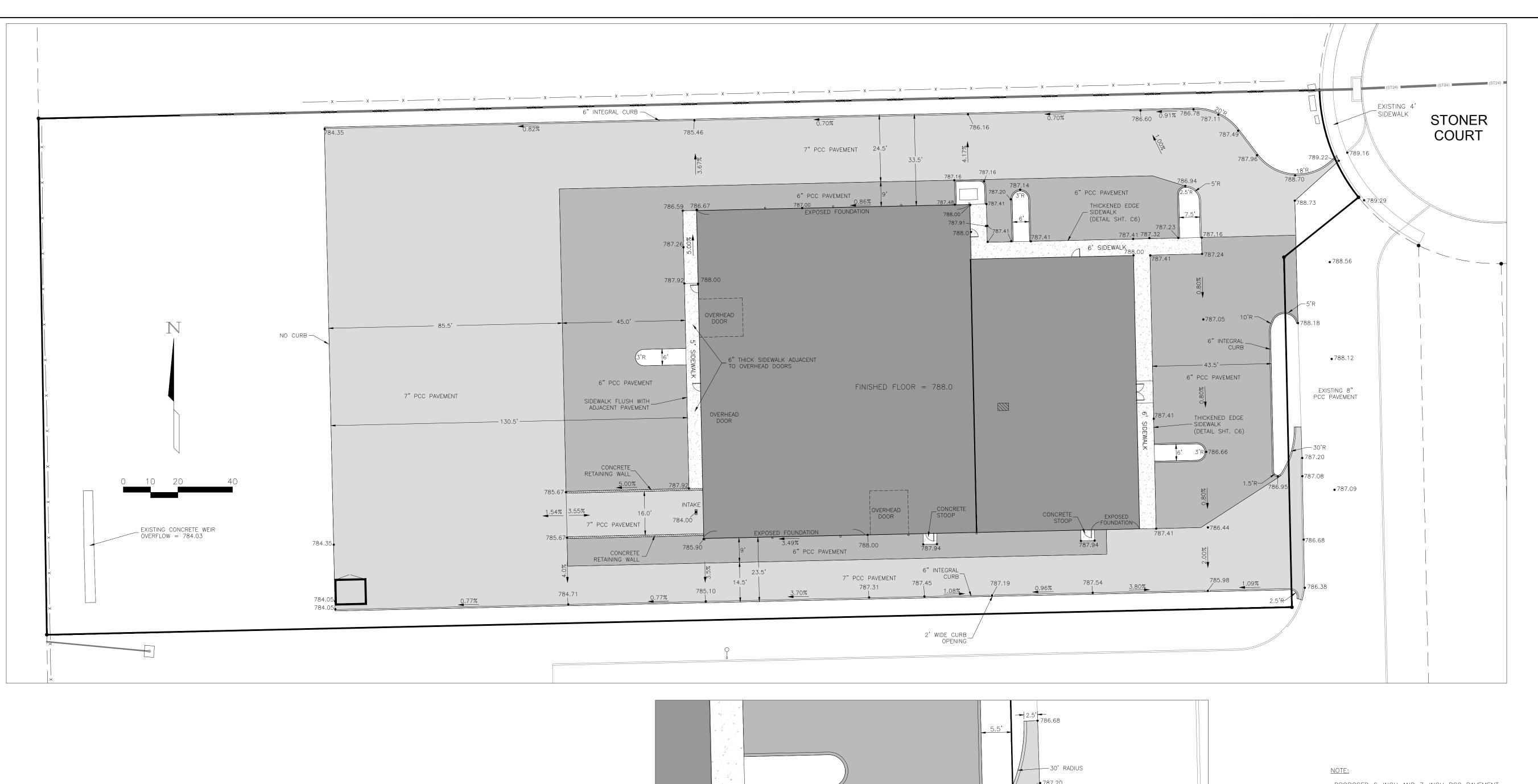


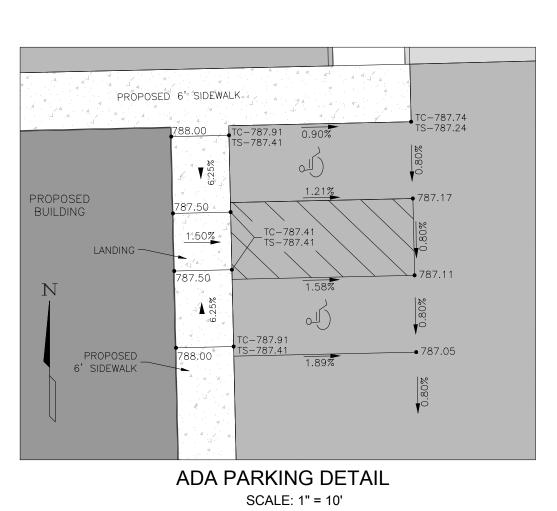
REVISION DATE 3/27/2018 CITY FILE NO:

> Project No: 529918-10











PROPOSED 6-INCH AND 7-INCH PCC PAVEMENT TO BE PLACED ON 6" MODIFIED SUBBASE.

Project No. 529918-10

#### GENERAL NOTES:

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF NORTH LIBERTY REQUIREMENTS AND THE STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS), LATEST EDITION, UNLESS OTHERWISE NOTED ON THE DRAWINGS
- 2. THE LOCATIONS OF UTILITY MAINS, STRUCTURES, AND SERVICE CONNECTIONS PLOTTED ON THIS DRAWING ARE APPROXIMATE ONLY AND WERE OBTAINED FROM PLANS OF RECORD. THERE MAY BE OTHER EXISTING UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS NOT KNOWN AND MAY NOT BE SHOWN ON THIS
- 3. NOTIFY UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THE PLANS OR KNOWN TO BE WITHIN CONSTRUCTION LIMITS OF THE SCHEDULE PRIOR TO EACH STAGE OF CONSTRUCTION.
- 4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT CRITICAL LOCATIONS TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATION.
- 5. IOWA CODE 480, UNDERGROUND FACILITIES INFORMATION, REQUIRES VERBAL NOTICE TO IOWA ONE—CALL 1—800—292—8989, NOT LESS THAN 48 HOURS BEFORE EXCAVATING, EXCLUDING WEEKENDS AND HOLIDAYS.
- 6. NOTIFY THE APPROPRIATE GOVERNING AUTHORITY 48-72 HOURS PRIOR TO BEGINNING CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY. ALL WORK IN RIGHT-OF-WAY PERMITS SHALL BE OBTAINED PRIOR TO WORK WITHIN THE RIGHT-OF-WAY. THE CITY OF NORTH LIBERTY SHALL BE THE PUBLIC AGENCY RESPONSIBLE FOR INSPECTION DURING CONSTRUCTION OF THE PUBLIC PORTIONS OF THE PROJECT.
- 7. NO WORK SHALL BE PERFORMED BEYOND THE PROJECT LIMITS WITHOUT PRIOR AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE.
- 8. PROVIDE TRAFFIC AND PEDESTRIAN CONTROL MEASURES (SIGNS, BARRICADES, FLAGGERS, ETC.) IN COMPLIANCE WITH PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION AND SUDAS STANDARDS.
- 9. ADJUST ALL VALVES, MANHOLES, CASTINGS, GAS VENTS, ETC., TO MATCH THE NEW SURFACE. ADJUSTMENT SHALL BE COORDINATED WITH THE UTILITY COMPANIES AND THE COST FOR ALL ADJUSTMENTS SHALL BE INCIDENTAL TO THE CONSTRUCTION. AT NO ADDITIONAL COST TO THE OWNER, REPAIR ANY DAMAGE TO SAID STRUCTURES AND APPURTENANCES THAT OCCUR DURING CONSTRUCTION.
- 10. CONTRACTOR SHALL REFER TO BUILDING PLANS FOR BUILDING DIMENSIONS, STOOP SIZES AND LOCATIONS, AND BUILDING UTILITY ENTRANCE LOCATIONS, SIZES, AND ELEVATIONS.
- 11. REPLACE ANY PROPERTY MONUMENTS REMOVED OR DESTROYED BY CONSTRUCTION. MONUMENTS SHALL BE SET BY A LAND SURVEYOR REGISTERED TO PRACTICE IN THE STATE OF IOWA.

#### GRADING NOTES:

- 1. STRIP EXISTING TOPSOIL WITHIN THE PROJECT LIMITS AND AREAS TO RECEIVE FILL. STOCKPILE TOPSOIL ON—SITE FOR RESPREAD ON DISTURBED AREAS NOT TO BE HARD SURFACED.
- 2. TOPSOIL SHALL BE RESPREAD TO A MINIMUM DEPTH OF 4 INCHES IN ALL AREAS OTHER THAN THE BUILDING AND PAVEMENT AREAS.
- 3. PROOFROLL ALL FILL AREAS TO IDENTIFY SOFT OR DISTURBED AREAS IN THE SUBGRADE. ALL UNSUITABLE MATERIAL IDENTIFIED SHALL BE REMOVED AND RECOMPACTED. PROOFROLL WITH 25 TON MINIMUM GROSS
- 4. REMOVE AND RECOMPACT AREAS OF SUBGRADE WHICH ARE SOFT OR UNSTABLE TO MEET SPECIFIED LIMITS FOR DENSITY AND MOISTURE CONTENT
- 5. SCARIFY EXISTING SUBGRADE TO DEPTH OF 12 INCHES AND RECOMPACT TO 95% STANDARD PROCTOR DENSITY (ASTM D698) PRIOR TO PLACEMENT OF FILL.
- 6. DO NOT PLACE, SPREAD, OR COMPACT ANY FILL MATERIAL DURING UNFAVORABLE WEATHER CONDITIONS AND DO NOT RESUME COMPACTION OPERATIONS UNTIL MOISTURE CONTENT AND DENSITY OF IN-PLACE MATERIAL ARE WITHIN SPECIFIED LIMITS.
- 7. PLACE FILL MATERIAL IN MAXIMUM 9" LIFTS.
- 8. FILLS PLACED BELOW LAWN AREAS SHALL BE COMPACTED TO 90% STANDARD PROCTOR DRY DENSITY (ASTM D698).
- 9. SCARIFY SUBGRADE TO DEPTH OF 3 INCHES WHERE TOPSOIL IS SCHEDULED. SCARIFY AREAS WHERE EQUIPMENT USED FOR HAULING AND SPREADING TOPSOIL HAS COMPACTED SUBSOIL.
- 10. FILL MATERIAL OBTAINED FROM OFF—SITE SOURCES SHALL BE SOIL OR SOIL AND ROCK MIXTURE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES. IT SHALL CONTAIN NO ROCKS OR LUMPS OF 6 INCHES IN GREATEST DIMENSION AND NOT MORE THAN 15% OF THE ROCKS OR LUMPS SHALL BE LARGER THAN 2-1/2 INCHES IN GREATEST DIMENSION.
- 11. SCARIFY AND RECOMPACT THE TOP 12" OF SUBGRADE IN ALL CUT AREAS AFTER ROUGH GRADING IS COMPLETED. COMPACT THE ENTIRE PAVING AND BUILDING SUBGRADE TO 95% STANDARD PROCTOR DRY DENSITY TO WITHIN 1.0' OF FINAL SUBGRADE. THE FINAL 1.0' OF FILL TO BE COMPACTED TO 98% STANDARD PROCTOR DENSITY (ASTM D698).
- 12. FINISH CONTOURS SHOWN ARE TOP OF PAVEMENT OR TO TOP OF TOPSOIL.
- 13. NO ROCK EXCAVATION IS ANTICIPATED ON THIS PROJECT. SHOULD ROCK BE ENCOUNTERED DURING CONSTRUCTION, NOTIFY THE OWNER'S REPRESENTATIVE.
- 14. FILL PLACED WITHIN THE BUILDING AREA AND IN AREAS TO BE PAVED SHOULD CONSIST OF APPROVED MATERIALS WHICH ARE FREE OF ORGANIC MATTER AND DEBRIS. THE FILL SHOULD BE PLACED AND COMPACTED IN LIFTS OF 9 INCHES OR LESS IN LOOSE THICKNESS. FILL PLACED ABOVE SHALLOW FOOTING BASE ELEVATION FOR FLOOR SLAB SUPPORT IN THE BUILDING AREA AND MORE THAN 12 INCHES BELOW FINISHED SUBGRADE ELEVATION IN AREAS TO BE PAVED SHOULD BE COMPACTED TO AT LEAST 95% STANDARD PROCTOR DENSITY (ASTM D698). THE UPPER 12 INCHES OF SUBGRADE IN AREAS TO BE PAVED AND FILL PLACED BELOW SHALLOW FOOTING BASE ELEVATION IN THE BUILDING AREA SHOULD BE COMPACTED TO AT LEAST 95% STANDARD PROCTOR DENSITY (ASTM D-698).

#### SITE PREPARATION NOTES

AND TO THE NEAREST JOINT.

- 1. PROVIDE WASTE AREAS OR DISPOSAL SITES FOR EXCESS MATERIAL (EXCAVATED MATERIAL OR BROKEN CONCRETE) WHICH IS NOT DESIRABLE TO BE INCORPORATED INTO THE WORK INVOLVED ON THIS PROJECT. DISPOSAL SITES MUST BE APPROVED BY THE ENGINEER. CONTRACTOR SHALL APPLY NECESSARY MOISTURE TO THE CONSTRUCTION AREA AND TEMPORARY HAUL ROADS TO PREVENT THE SPREAD OF DUST. OFF—SITE DISPOSAL SHALL BE IN ACCORDANCE WITH THE APPLICABLE GOVERNMENTAL REGULATIONS.
- 2. PROTECT ADJACENT PROPERTY DURING DEMOLITION AND SITE GRADING.
- 3. MAINTAIN POSITIVE DRAINAGE ON THE SITE THROUGHOUT THE PROJECT DURATION.
- 4. KEEP ADJACENT PUBLIC AND PRIVATE STREETS FREE FROM SOIL AND DEBRIS GENERATED BY THE PROJECT. CLEAN SOIL AND DEBRIS FROM THE ADJACENT STREETS ON A DAILY BASIS.
- 5. DURING CONSTRUCTION, CONTROL DUST SPREADING FROM ALL WORK AND STAGING AREAS.
- 6. REMOVAL OR ABANDONMENT OF PUBLIC UTILITIES SHALL BE FULLY COORDINATED WITH APPROPRIATE UTILITY SUPPLIER AND REGULATORY AGENCIES.
- 7. ANY EXISTING FACILITIES (CURBS, PAVEMENT, UTILITIES, ETC,) THAT THE CONTRACTOR'S OPERATIONS DAMAGE SHALL BE REPAIRED BY THAT CONTRACTOR AT HIS/HER COST.
- 8. REMOVE ALL DESIGNATED STREETS, DRIVEWAYS, ETC. IN THEIR ENTIRETY. BACKFILL ALL EXCAVATIONS WITH COHESIVE MATERIAL COMPACTED TO 98% STANDARD PROCTOR DRY DENSITY (ASTM D698).
  9. WHERE A SECTION OF PAVEMENT, CURB AND GUTTER, OR SIDEWALK IS CUT OR OTHERWISE DAMAGED BY THE CONTRACTOR, THE ENTIRE SECTION SHALL BE REMOVED AND REPLACED. PAVEMENT, CURBS, GUTTERS,

AND SIDEWALKS SHALL BE REMOVED A MINIMUM OF TWO FEET BEYOND THE EDGE OF THE TRENCH CUT

- 10. SAWCUT EDGES OF PAVEMENT FULL DEPTH PRIOR TO REMOVAL TO PREVENT DAMAGE TO ADJACENT SLABS
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EXISTING CONCRETE STRUCTURES ON THE SITE AS SHOWN ON THE PLANS. THE REMOVAL INCLUDES DRIVEWAYS, CURB AND GUTTER, SIDEWALK, AND BASEMENT FOUNDATION FOOTINGS, FLOOR AND WALLS. THE REMOVAL ALSO INCLUDES STORM SEWER INTAKES AND PIPE AS SHOWN ON THE PLANS.
- 12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT TREES AND SHRUBS NOTED ON THE PLANS
  TO REMAIN IN PROJECT AREA FROM DAMAGE DUE TO CONSTRUCTION ACTIVITY. PROTECTION INCLUDES, BUT
  IS NOT LIMITED TO, CONSTRUCTION FENCING AROUND THE DRIP LINE OF TREES AND PROHIBITING VEHICLE
  TRAFFIC WITHIN THE DRIPLINE OF TREES.
- 13. REMOVAL AND DISPOSAL OF EXISTING TREES AND SHRUBS WITHIN CONSTRUCTION LIMITS SHALL BE INCIDENTAL TO THE GRADING PORTION OF THE PROJECT. STUMPS ARE TO BE GROUND TO TWO FEET BELOW FINISHED GRADE.

#### EROSION CONTROL NOTES:

- THE CONTRACTOR SHALL INCORPORATE ALL EROSION CONTROL FEATURES INTO THE PROJECT PRIOR TO
  DISTURBING THE SOIL
- 2. MINIMIZE SOIL EROSION BY MAINTAINING ALL EXISTING VEGETATIVE GROWTH WITHIN THE GRADING LIMITS FOR
- 3. THE CONTRACTOR SHALL COMPLY WITH THE SOIL EROSION CONTROL REQUIREMENTS OF THE IOWA CODE, THE IOWA DEPARTMENT OF NATURAL RESOURCES NPDES PERMIT, AND LOCAL ORDINANCES. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT AGAINST EROSION AND DUST POLLUTION ON THIS SITE AND ALL OFF—SITE BORROW OR DEPOSIT AREAS DURING CONSTRUCTION OR AS A RESULT OF CONSTRUCTION.
- 4. THIS PROJECT REQUIRES THE OBTAINING OF A NPDES GENERAL PERMIT NO. 2 FOR STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FOR CONSTRUCTION ACTIVITIES FROM THE IOWA DEPARTMENT OF NATURAL RESOURCES (IDNR). THE OWNER SHALL OBTAIN THE PERMIT. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLIANCE AND FULFILLING ALL REQUIREMENTS OF THE NPDES GENERAL PERMIT NO. 2 INCLUDING THE STORM WATER POLLUTION PREVENTION PLAN.
- 5. ALL DOCUMENTS RELATED TO THE STORM WATER DISCHARGE PERMIT SHALL BE KEPT ON SITE AT ALL TIMES AND MUST BE PRESENTED TO THE IOWA DNR UPON REQUEST WHICH INCLUDE THE NOTICE OF INTENT, PROOF OF PUBLICATION, POLLUTION PREVENTION PLAN, PROJECT INSPECTION REPORT, AND OTHER ITEMS. FAILURE TO COMPLY WITH THE DISCHARGE REQUIREMENTS IS IN VIOLATION OF THE CLEAN WATER ACT AND THE CORE OF IOWA
- 6. THE CONTRACTOR SHALL PROTECT ADJOINING PROPERTY INCLUDING PUBLIC UTILITIES, SANITARY SEWER, STORM DRAINAGE SYSTEMS, AND STREETS FROM ANY DAMAGE RESULTING FROM EARTH MOVING ACTIVITIES OR OTHER DEBRIS FROM PROJECT SITE. REPAIR DAMAGE IMMEDIATELY AT NO ADDITIONAL COST.
- OTHER DEBRIS FROM PROJECT SITE. REPAIR DAMAGE IMMEDIATELY AT NO ADDITIONAL COST.

  7. THE CONTRACTOR SHALL PREVENT ACCUMULATION OF EARTH, SILTATION, AND/OR DEBRIS ON ADJOINING PUBLIC OR PRIVATE PROPERTY FROM THE PROJECT SITE. REMOVE ACCUMULATION OF EARTH OR DEBRIS
- 8. THE CONTRACTOR SHALL PROVIDE TEMPORARY AND/OR PERMANENT SEEDING OF AREAS UPON COMPLETION OF GRADING AS SOON AS PRACTICAL. FINAL STABILIZATION MEANS ALL SOIL DISTURBING ACTIVITIES ARE COMPLETE AND A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% FOR THE AREA HAS BEEN ESTABLISHED OR AN EQUIVALENT STABILIZATION MEASURE.
- 9. IF CONSTRUCTION ACTIVITIES ARE NOT PLANNED TO OCCUR IN A DISTURBED AREA FOR AT LEAST 21 DAYS, THE AREA SHALL BE STABILIZED BY TEMPORARY SEEDING OR MULCHING WITHIN 14 DAYS OF CEASING CONSTRUCTION ACTIVITIES.
- 10. THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL TEMPORARY EROSION CONTROL MEASURES IN WORKING ORDER, INCLUDING CLEANING, REPAIRING, REPLACEMENT, AND SEDIMENT REMOVAL THROUGHOUT THE PERMIT PERIOD. CLEANING OF SILT CONTROL DEVICES SHALL BEGIN WHEN THE FEATURES HAVE LOST 50% OF THEIR CAPACITY
- 11. SILT FENCE SHALL BE INSTALLED AROUND ALL STOCKPILED TOPSOIL.

IMMEDIATELY AND TAKE REMEDIAL ACTIONS FOR PREVENTION.

#### LITILITY NOTES

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF NORTH LIBERTY REQUIREMENTS AND THE STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS), LATEST EDITION, UNLESS OTHERWISE NOTED ON
- 2. VERIFY THE ELEVATION OF POSSIBLE CONFLICTING UTILITIES PRIOR TO CONSTRUCTING PROPOSED WATER MAINS, SANITARY SEWERS, STORM SEWERS, ETC. ANY CONFLICTS MUST IMMEDIATELY BE BROUGHT TO THE ENCINEER'S ATTENTION.
- 3. SITEWORK UTILITY CONTRACTOR TO EXTEND ALL PIPING TO WITHIN 5 FEET OF BUILDING AND CAP FOR CONNECTION BY BUILDING UTILITY CONTRACTOR UNLESS OTHERWISE INDICATED. COORDINATE ALL INVERT ELEVATIONS AND PIPING LOCATIONS WITH BUILDING PLANS.
- 4. ALL OPEN EXCAVATIONS SHALL BE PROTECTED WITH SAFETY FENCE, BARRIERS OR BARRICADES IN ACCORDANCE WITH OSHA.
- 5. CONTRACTOR SHALL REFER TO BUILDING PLANS FOR UTILITY ENTRANCE LOCATIONS, SIZES, AND ELEVATIONS PRIOR TO BEGINNING UTILITY CONSTRUCTION.
- 6. THE LOCATIONS OF UTILITY MAINS, STRUCTURES, AND SERVICE CONNECTIONS PLOTTED ON THIS DRAWING ARE APPROXIMATE ONLY AND WERE OBTAINED FROM PLANS OF RECORD. THERE MAY BE OTHER EXISTING UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS NOT KNOWN AND MAY NOT BE SHOWN ON THIS DRAWING
- 7. NOTIFY UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THE PLANS OR KNOWN TO BE WITHIN CONSTRUCTION LIMITS OF THE SCHEDULE PRIOR TO EACH STAGE OF CONSTRUCTION.
- 8. IOWA CODE 480, UNDERGROUND FACILITIES INFORMATION, REQUIRES VERBAL NOTICE TO IOWA ONE—CALL 1—800—292—8989, NOT LESS THAN 48 HOURS BEFORE EXCAVATING, EXCLUDING WEEKENDS AND HOLIDAYS.

## STORM SEWER NOTES:

- 1. HIGH DENSITY POLYETHYLENE PIPE (HDPE) SHALL BE CORRUGATED WITH INTEGRALLY FORMED SMOOTH INTERIOR MEETING THE REQUIREMENTS OF SUDAS.
- 2. HDPE STORM SEWER SHALL BE CONSTRUCTED WITH CLASS A BEDDING. HDPE STORM SEWER SHALL BE BACKFILLED WITH GRANULAR AGGREGATE TO A MINIMUM OF 12—INCHES ABOVE THE TOP OF THE PIPE.
- 3. RCP STORM SEWER SHALL BE CLASS III REINFORCED CONCRETE PIPE.
- 4. RCP STORM SEWER SHALL BE CONSTRUCTED WITH CLASS C BEDDING.
- 5. ROOF DRAIN MATERIAL SHALL BE RIGID NON—PERFORATED POLYETHYLENE PIPE. MATERIAL SHALL BE ADVANCED DRAINAGE SYSTEMS, N—12, SMOOTH INTERIOR OR APPROVED EQUIVALENT.
- 6. STORM SEWER LINES SHALL BE A MINIMUM OF 10 FEET FROM WATER LINES RUNNING PARALLEL. AT CROSSINGS, A MINIMUM 18-INCHES OF SEPARATION MUST BE PROVIDED.
- 7. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN A RECORD DRAWING SET SHOWING LOCATIONS OF ALL ROOF DRAINS AND OTHER PERTINENT INFORMATION REGARDING THE STORM SEWER CONSTRUCTION. THE RECORD DRAWING SET WILL BE PROVIDED TO THE OWNER.

## SANITARY SEWER NOTES:

- 1. SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF NORTH LIBERTY
- REQUIREMENTS AND THE STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS), LATEST EDITION.

  2. 6" DIAMETER SANITARY SEWER SERVICE PIPE AND FITTINGS SHALL BE SDR 23.5 POLYVINYL CHLORIDE (PVC).

#### PAVEMENT GENERAL NOTES:

- 1. ALL SLOPES IN PAVEMENT SHALL BE UNIFORM TO AVOID PONDING.
- 2. REMOVE AND REPLACE OR RESTORE ALL STREET SIGNS, PAVEMENT MARKINGS, SIDEWALK LAMPS, SIDEWALKS, STEPS, LANDSCAPE STRUCTURES, CURB AND GUTTER, STREETS, DRIVES, AND ALL OTHER SURFACE STRUCTURES REMOVED OR OTHERWISE DAMAGED DURING THE COURSE OF THE WORK. SIDEWALKS SHALL BE REMOVED AND REPLACE TO NEAREST JOINT BEYOND CONSTRUCTION AREA.
- 3. COMPACT SUBGRADE BENEATH PAVEMENTS IN ACCORDANCE WITH GRADING NOTES.
- 4. GRANULAR SUBBASE FOR PAVEMENTS SHALL MEET THE LIMITS OF GRADATION NO. 14 (MODIFIED SUBBASE)
  PER IOWA DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION SECTION 4120 AND
  4123. SUBSTITUTIONS SHALL BE APPROVED BY THE ENGINEER.
- 5. PROOF—ROLL SUBGRADE WITH A MINIMUM 25 TON G.V.W. TRUCK TO IDENTIFY AREAS OF SOFT OR UNSTABLE SUBGRADE. REMOVE AND REPLACE UNSTABLE AREAS WITH SUITABLE COMPACTED MATERIAL.
- 6. ALL CURB AND GUTTER IS 6-INCH, TYPE I, UNLESS STATED OTHERWISE.

#### PCC PAVEMENT NOTES:

- 1. PCC PAVING THICKNESS SHALL BE AS NOTED ON THE PLANS AND DETAILS.
- 2. MATERIALS AND CONSTRUCTION FOR PORTLAND CEMENT CONCRETE PAVEMENTS SHALL MEET THE REQUIREMENT OF IOWA DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, LATEST REVISION, SECTION 2301. THE PARAGRAPHS FOR MEASUREMENT AND PAYMENT SHALL NOT APPLY.
- 3. MINIMUM 28-DAY COMPRESSIVE STRENGTH FOR CONCRETE USED FOR PAVEMENTS SHALL BE 4000 PSI. CONCRETE SHALL BE C-3 OR C-4 WITH TYPE 1 CEMENT. AIR CONTENT SHALL BE 6-1/2% +/- 1.5%. AIR ENTRAINMENT ADMIXTURES AND WATER REDUCING ADMIXTURES SHALL CONFORM TO IOWA DOT SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION SECTION 4103. DURABILITY FOR PORTLAND CEMENT CONCRETE SHALL BE CLASS 2.
- 4. JOINT SEALER SHALL CONFORM TO IOWA DOT SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION SECTION 4136 FOR HOT POURED JOINT SEALER.
- 5. CURING COMPOUND (WHITE, DARK, OR CLEAR) SHALL CONFORM TO IOWA DOT SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION SECTION 4105. APPLICATION METHOD SHALL CONFORM TO IOWA DOT SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION SECTION 2301.19.
- 6. FLYASH PER IOWA DOT SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION SECTION 4108 MAY BE SUBSTITUTED FOR CEMENT AT THE RATES SPECIFIED IN SECTION 2301.04E AFTER NOTIFICATION AND AUTHORIZATION BY THE OWNER'S REPRESENTATIVE.
- 7. PAVEMENT TIE BARS AND DOWEL BARS SHALL CONFORM TO IOWA DOT SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION SECTION 4151. EPOXY COATING, WHEN SPECIFIED, SHALL CONFORM TO IOWA DOT SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION SECTION 4151.03B.
- 8. CURBS SHALL BE CAST INTEGRAL WITH THE CONCRETE PAVEMENT UNLESS NOTED OTHERWISE. EDGES
- SHALL BE ROUNDED BUT NOT ROLLED.

  9. SIDEWALKS SHALL HAVE A CROSS SLOPE OF NO LESS THAN 1.5% AND NO GREATER THAN 2.0%.
- 10. PCC SIDEWALKS SHALL BE 4 INCHES THICK, EXCEPT AT DRIVEWAYS. THICKNESS OF PCC WALKS AT DRIVEWAYS SHALL MATCH THAT OF THE ADJACENT DRIVEWAY. TRANSVERSE CONSTRUCTION JOINTS SHALL BE AT MAXIMUM CENTERS EQUAL TO WIDTH OF WALK AND NO GREATER THAN 6 FEET FOR WALKS WIDER THAN 5 FEET. LONGITUDINAL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN SLABS WIDER THAN 8 FEET. PLACE EXPANSION JOINTS WHERE WALK MEETS OTHER WALKS, BACK OF CURBS, FIXTURES, OR OTHER STRUCTURES, AND AT INTERVALS NOT EXCEEDING 50 FEET.
- 11. ONE INCH PREFORMED FOAM EXPANSION JOINT MATERIAL SONOFLEX 'F' BY SONOBORN OR APPROVED EQUAL SHALL BE PLACED BETWEEN NEW PAVEMENT CONSTRUCTION AND THE FACES OF BUILDINGS, STOOPS, EXISTING SLABS, AND OTHER FIXTURES, UNLESS NOTED ON THE DRAWINGS. JOINTS AT THESE LOCATIONS SHALL BE SEALED WITH A SELF LEVELING POLYURETHANE SUCH AS SONOLASTIC SL-1 OR APPROVED EQUAL.
- 12. ALL PCC SHALL BE JOINTED AT 12 FEET O.C. MAXIMUM DISTANCE. JOINTING SHALL BE IN ACCORDANCE WITH CEDAR RAPIDS METROPOLITAN AREA STANDARD DETAILS FOR PUBLIC IMPROVEMENTS NUMBERS 2700-021, 2700-022, AND 2700-023.
- 13. CONSTRUCT 1" EXPANSION JOINTS ON PCC CURBS AT ALL ENDS OF RETURN RADII.

#### PAVEMENT MARKING NOTES

- 1. PAINT PARKING STRIPING AND SIDEWALK CURBS, TRAFFIC DIRECTION ARROWS, HANDICAP SYMBOLS AND FACE
  OF LIGHT POLE BASES "TRAFFIC WHITE" WHERE SHOWN ON PLANS.
- 2. PAINT HANDICAP SYMBOLS "TRAFFIC WHITE" PER LOCAL REQUIREMENTS WHERE SHOWN ON PLANS.
- 3. PAVEMENT MARKINGS SHALL BE FAST DRY TRAFFIC LANE MARKING PAINT CONFORMING TO IDOT STANDARD SPECIFICATIONS, LATEST EDITION, SECTION 4183.03. REFLECTORIZED SPHERES FOR TRAFFIC PAINT SHALL MEET THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS SECTION 4184
- 4. PAINTING SHALL NOT BEGIN UNTIL PAVEMENT SURFACE HAS BEEN POWER BROOMED AND HAND SWEPT AS NECESSARY TO REMOVE LOOSE MATERIALS AND DIRT; AND NOT BEFORE ADEQUATE CURING TIME HAS BEEN OBTAINED ON THE PAVEMENT.
- 5. APPLY PAINT AT MANUFACTURER'S RECOMMENDED RATES IN TWO SEPARATE COATS FOR ALL PAVEMENT MARKINGS. ALL STRIPES ARE 4 INCHES WIDE UNLESS OTHERWISE INDICATED. HANDICAP SYMBOLS SHALL CONFORM TO APPLICABLE A.D.A. REGULATIONS.

### SURFACE RESTORATION AND SEEDING NOTES:

- 1. DISTURBED AREAS NOT PAVED OR HARD SURFACED SHALL RECEIVE A MINIMUM OF 4—INCHES OF TOPSOIL. SCARIFY AREAS TO RECEIVE TOPSOIL TO A MINIMUM DEPTH OF 3 INCHES. REMOVE ALL STONES, WOOD, AND DEBRIS LARGER THAN 2—INCHES FROM AREAS TO RECEIVE TOPSOIL. DO NOT COMPACT TOPSOIL.
- 2. ALL DISTURBED AREAS SHALL BE SEEDED, FERTILIZED, AND MULCHED IN ACCORDANCE WITH THE STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS), LATEST EDITION, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 3. TEMPORARY EROSION CONTROL/STABILIZATION SEEDING OF DISTURBED AREAS MUST, AT A MINIMUM, BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING, OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
- 4. STABILIZATION SEEDING SHALL BE IN ACCORDANCE WITH SECTION 9010 OF THE STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS), LATEST EDITION. SEED MIXTURES SHALL BE PER TABLE 9010.09: TYPE 4 SEED MIXTURE.
- 5. PERMANENT SEEDING SHALL BE IN ACCORDANCE WITH SECTION 9010 OF THE STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS), LATEST EDITION. SEED MIXTURE SHALL BE PER TABLE 9010.06: TYPE 1 SEED MIXTURE.
- 6. APPLY SEED AT THE RATES INDICATED IN SECTION 9010.
- 7. MAINTAIN SEEDED AREAS UNTIL AN ADEQUATE STAND OF GRASS HAS BEEN ESTABLISHED. RESEED ANY AREAS AS NECESSARY DURING MAINTENANCE PERIOD PER PROJECT SPECIFICATIONS.
- 8. FOR TEMPORARY AND PERMANENT SEEDING, FERTILIZER SHALL BE APPLIED AT A RATE OF 300 LBS PER
- ACRE USING CHEMICALLY COMBINED COMMERCIAL 6-24-24 FERTILIZER.

  9. ALL SEEDING AREAS SHALL BE MULCHED PER SUDAS SECTION 9010, 2.07.
- 10. EXISTING FACILITIES (CURBS, PAVEMENT, UTILITIES, ETC.) THAT ARE TO REMAIN AND DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

#### LEGEND

FIRE HYDRANT	♣
VALVE OR BLOWOFF	$\otimes$
STREET LIGHT	$\sim$
UTILITY POLE	Ø
GUY WIRE	$\longrightarrow$
TRAFFIC SIGN	٥
MANHOLE	$\bigcirc$
EXISTING STORM SEWER INTAKE	
PROPOSED INTAKE	$\otimes$
TELEPHONE TERMINAL	<b>XTEL</b>
CABLE TV TERMINAL	⊠CATV
OVERHEAD ELECTRICAL	— — — (OHE)
UNDERGROUND ELECTRICAL	——— UG EL —
OVERHEAD TELEPHONE	OH TEL
UNDERGROUND TELEPHONE	UG TEL
GAS LINE	GAS
CABLE TV LINE	CATV
STORM SEWER w/SIZE	ST12
SANITARY SEWER w/SIZE	SS8
WATER MAIN w/SIZE	W6
FENCE	
RIGHT-OF-WAY	ROW
BACK OF CURB TO BACK OF CURB	В-В
DECIDUOUS TREE	
CONIFEROUS TREE	*
SILT FENCE FOR DITCH CHECK	_<>-<>-<>
UTILITY EASEMENT	UE
DRAINAGE EASEMENT	DE
BENCH MARK w/NUMBER	<b>⊕</b> BM 1
CONTROL POINT	
TOP OF SLAB ELEVATION	T/S =

<u>BENCHMARKS:</u>

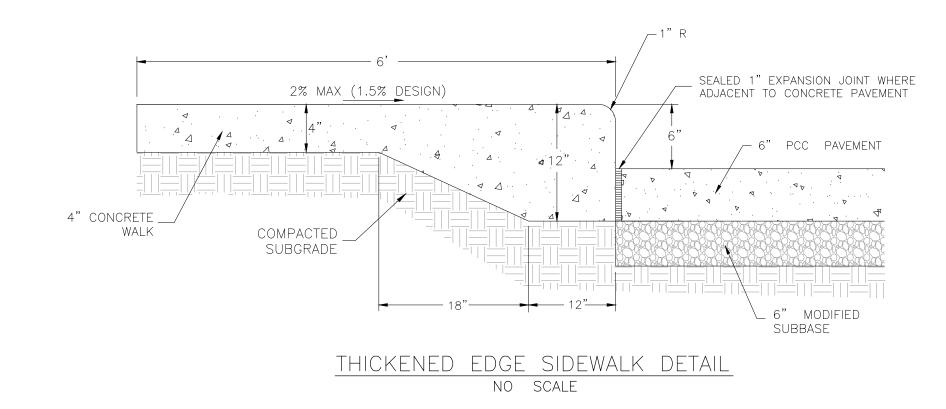
- ) RIM OF EXISTING STORM SEWER INTAKE ON WEST SIDE OF STONER COURT NORTH OF EXSTING PROPERTY ACCESS DRIVE ELEV. = 788.82
- 2) RIM OF EXISTING SANITARY SEWER MANHOLE IN SE AREA OF EXISTING STONER COURT PAVING ELEV. = 788.72

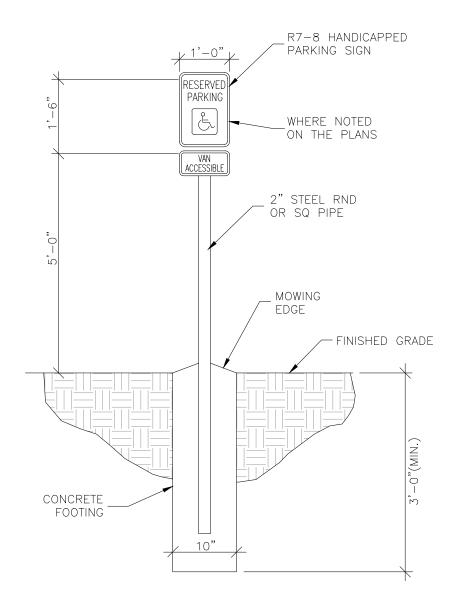
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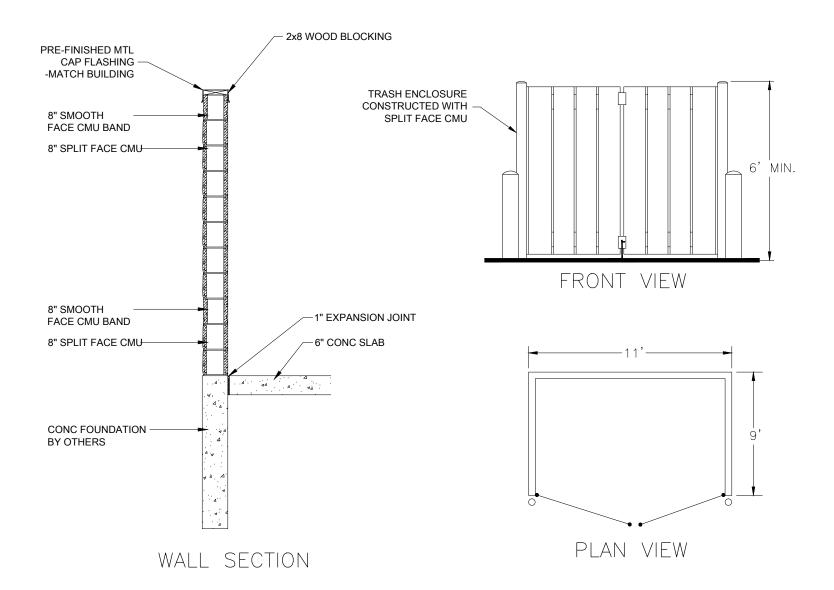
<u>′of</u> roject No. 29918−1





NOTE:
INSTALL SIGNS ON BUILDING WHERE REQUIRED.

HANDICAPPED PARKING SIGN
NOT TO SCALE



TRASH ENCLOSURE DETAIL

NO SCALE

CONSTRUCTION DETAILS

Page

Project No.







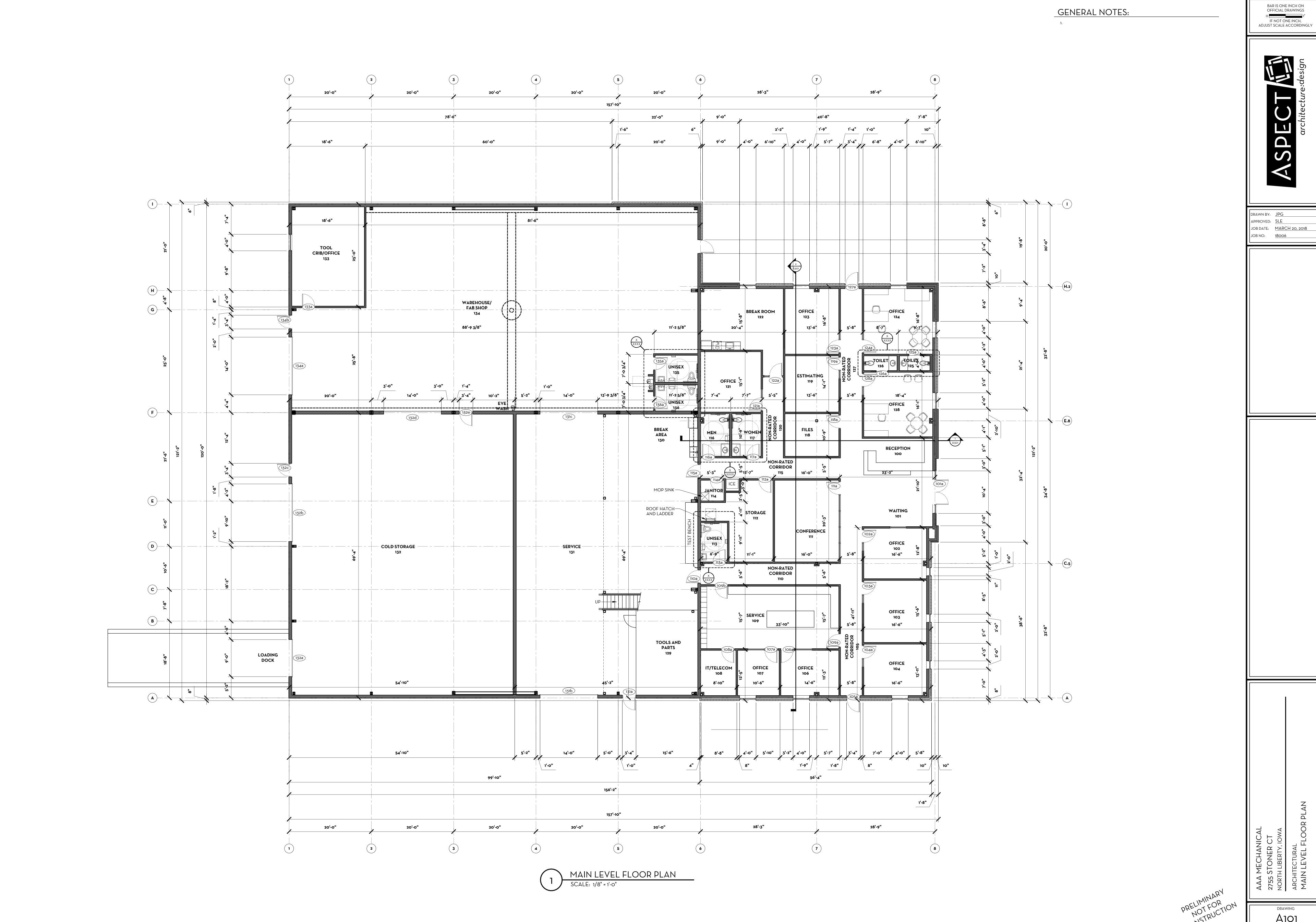












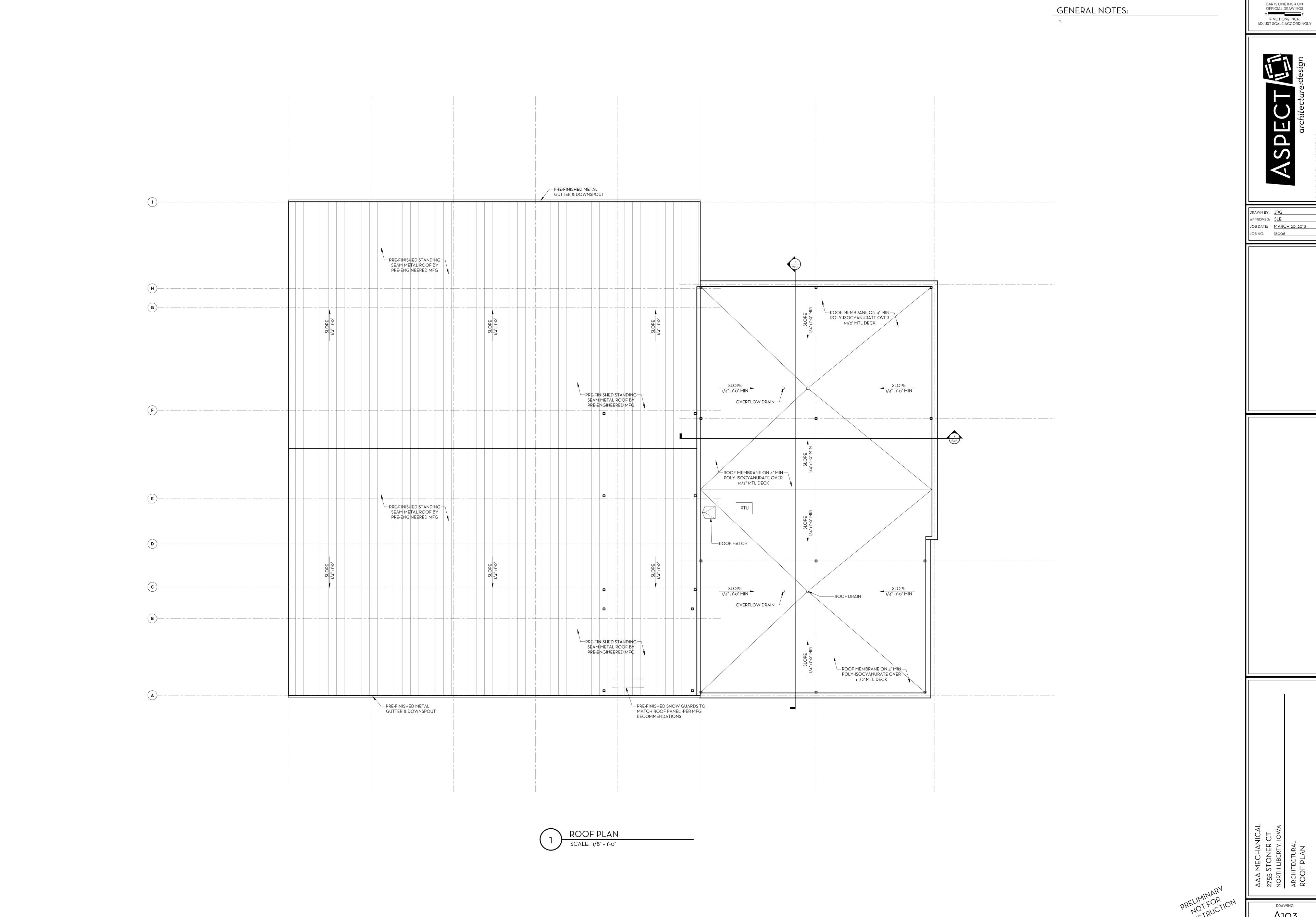
A101

GENERAL NOTES: 28'-9" 28'-3" 20'-0" 20'-0" 20'-0" 20'-0" 20'-0" 100'-0" 14'-0" 20'-0" 14'-0" 20'-0" 20'-0" DRAWN BY: JPG APPROVED: SLE JOB DATE: MARCH 20, 2018 JOB NO: 18006 ROOF MEMBRANE ON 4" MIN-POLY-ISOCYANURATE OVER OVERFLOW DRAIN— SLOPE 1/4" : 1'-0" MIN ROOF MEMBRANE ON 4" MIN— POLY-ISOCYANURATE OVER 1-1/2" MTL DECK MEZZANINE STORAGE 200 ROOF HATCH 16'-5" 20'-0" SLOPE 1/4" : 1'-0" MIN —ROOF DRAIN OVERFLOW DRAIN— ROOF MEMBRANE ON 4" MIN POLY-ISOCYANURATE OVER
1-1/2" MTL DECK 14'-0" 20'-0" 20'-0" 20'-0" 20'-0" 20'-0" 20'-0" MEZZANINE LEVEL FLOOR PLAN SCALE: 1/8" = 1'-0"

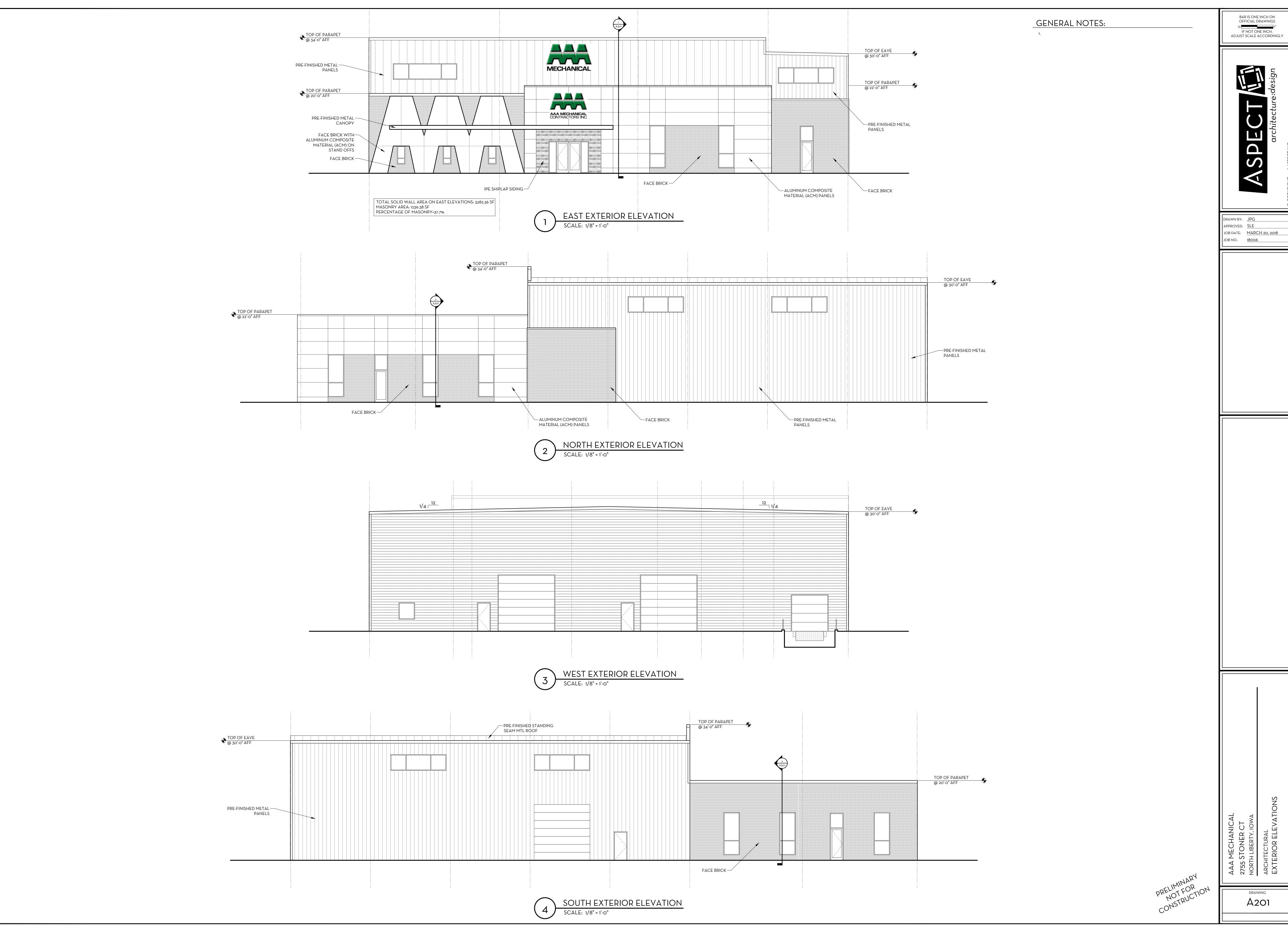
BAR IS ONE INCH ON OFFICIAL DRAWINGS

DRAWING

A102



A103



Calculation Summary Label CalcType Max Min Avg/Min Max/Min Illuminance N.A. PROPERTY Illuminance Luminaire Schedule Total Lamp Lumens LLF Description Symbol Qty Arrangement SINGLE 0.900 Philips PPW30-NW-G1-8 N.A. D 7 H LAND COMPANY LLC PPN: 0610453002 0.0 0.0 0.0 0.0 0,0 150 LF. OF 2.5" DIA. 0.1 0.1 0.0 EXISTING 320 WIDE SHARED 0.0 0.2 WAPER SERVICE 0.1 0.1 0.0 0.0 CCCS. CASEMENT 0.0 0.6 190.9 0.9 60.4 0.2 0.1 0.0 0.05 0 0.1 0.0 0. 0.4 0.2 1.1.A. 0.5 0.1 p.o \0.1 \*0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.2 1.1 1 3.4 1.1 0.2 0.1 FURNISH AND INSTALL 85 LF OF 6" DIA. SEWER SERVICE @ 2.0%%% MINIMUM SLOPE 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.2 0.7 2.0 4.6 1.3 0.2 0.1 0. 1.6 0.6 0.2 0.0 0. INSTALL DOUBLE SANITARY SEWER CLEANOUT 1-FOOT FROM FACE OF BUILDING. VERIFY LOCATION & ELEVATION WITH PLUMBING PLAN \*0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.2 0.9 3 <u>•</u>0 4 **0**7.2 0.1 **0**00 0.0 0.4 0.2 0.1 0.0 0.0 1.2 0.6 0.2 0.1 4.2 1.5 0.3 0.1 0.0 LLC 4.4 1.5 0.3 0.1 0.0 1.5 0.7 0.2 0 1 0.0  $\Diamond$ 



March 27, 2018

#### Memo

To: North Liberty Planning Commission From: Dean Wheatley, Planning Director Subject: Site Plan Approval Request (Lot 8 and part of Lot 7, Liberty's Gate Part 1)

Your North Liberty City staff has reviewed the subject submission, and offer comments presented in this memo. The staff review team includes the following personnel:
Ryan Heiar, City Administrator
Tracey Mulcahey, Assistant City Administrator
Tom Palmer, City Building Official
Scott Peterson, City Attorney
Kevin Trom, City Engineer
Dean Wheatley, Planning Director

This request is to construct a new mixed-use building at the Liberty's Gate subdivision on Madison Avenue, one block south of West Penn Street. The proposal is for ground floor commercial space with two upper floors of residential units, underground residential tenant parking, and associated open commercial parking.

The site is logically arranged, including mostly building and parking, plus the large existing green space buffer at the rear (south) end of the lot. Pedestrian-scale feature(s) required by the Zoning Ordinance shown on the plan include a picnic area and enhanced lighting bollards at the entrances.

The building design is interesting and substantial, and inclusion of underground parking for residents is a premium feature. The building elevations well-designed with interesting modern architecture, and meet all technical requirements of the Zoning Ordinance.

Staff recommends approval of the site plan.

#### Notes:

- Based on elevations of fire department access roads to the highest floor level of the buildings, standpipes will most likely be required. 2015 IFC Section 905.3.1; Class III standpipe systems shall be installed throughout buildings where the floor level of the highest story is located more than 30 feet above the lowest level of the fire department vehicle access.
- SWPPP & CSR permits are required.

CIVIL ENGINEERS

LAND PLANNERS

LAND SURVEYORS

1917 S. GILBERT ST.

(319) 351-8282

IOWA CITY, IOWA 52240

www.mmsconsultants.net

LANDSCAPE ARCHITECTS

**ENVIRONMENTAL SPECIALISTS** 

3/20/2018 REVISED PER CITY COMMENTS JEB/BTM

3/26/2018 REVISED PER CITY COMMENTS JEB/BTM

Date Revision

= 104 SPACES

# SITE PLAN 560 N. MADISON NORTH LIBERTY, IOWA

(116)—

MMS CONSULTANTS INC. 1917 S. GILBERT STREET IOWA CITY, IA 52240

MADISON AVENUE

EXIST 10' UTILITY

EASEMENT

(104)-

N88\*53'39"E\_\_\_255.13'\_

(104)

PROPOSED BUILDING FF MAIN LEVEL=793.22 FF LOWER LEVEL=782.22

(101)-

(102)-

4.00'

:50' TRANSITION

104)-

(116)

J & K RENTALS LLC 880 LINDER ROAD NE IOWA CITY, IA 52240

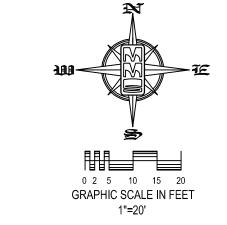
GRAND RAIL DEVELOPMENT CO. INC DOUGLAS D. RUPPERT 745 PACHA PARKWAY NORTH LIBERTY, IA 52317

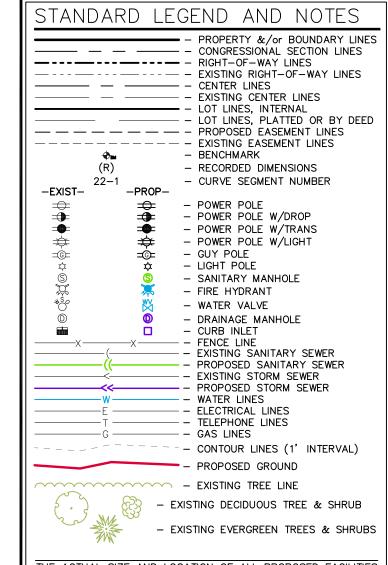
**DEVELOPERS: ATTORNEY** 122 S. LINN STREET IOWA CITY, IA 52240

EXISTING 4' WIDE SIDEWALK

116)

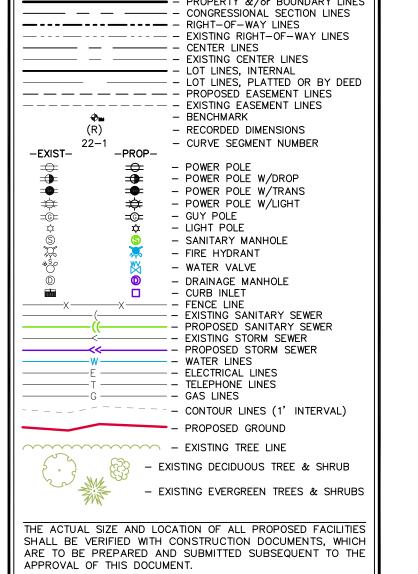
EXIST 5' UTILITY EASEMENT

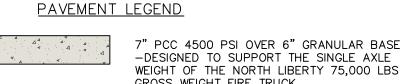






(22,069 SF) (13,382 SF) 4" PCC SIDEWALK (4,377 SF)





WEIGHT OF THE NORTH LIBERTY 75,000 LBS GROSS WEIGHT FIRE TRUCK 5" PCC PARKING OVER 4" GRANULAR BASE

NOTE: THESE QUANTITIES REFLECT THE OVERALL SITE INCLUDING WORK WITHIN THE RIGHT OF WAY

KEYNOTES			
NUMBER	KEYNOTE		
101	INSTALL DRIVE PER DETAIL (THICKNESS AND MATERIAL AS NOTED)		
102	INSTALL 6" STANDARD CURB		
103	INSTALL THICKENED EDGE SIDEWALK		
104	INSTALL P.C.C. SIDEWALK PER NORTH LIBERTY MUNICIPAL DESIGN STANDARDS		
105	INSTALL ADA RAMP PER ADA STANDARDS		
106	GRIND EXISTING CURB; INSTALL TYPE 'A' CONCRETE DRIVEWAY AND SIDEWALK PER SUDAS DETAIL 7030.10		
107	INSTALL ACCESSIBLE PARKING, RAMPS, STRIPING AND SIGNAGE PER DETAILS.		
108	DUMPSTER ENCLOSURE		
109	CONCRETE PARK STOP PER DETAIL		
(110)	INSTALL BIKE RACK		
111	INSTALL 4" WIDE PAVEMENT MARKINGS (TYP)		
(112)	RETAINING WALL, BY OTHERS		
113	STRUCTURAL SLAB BY OTHERS		
(114)	CURB TRANSITION		

PERGOLA AND PICNIC TABLE

DECORATIVE BOLLARD WITH DOWNWARD CAST LIGHT (TYP OF 4)

LEGAL DESCRIPTION AUDITOR'S PARCEL NO. 2002058, TO THE CITY OF NORTH LIBERTY, JOHNSON COUNTY, IOWA, IN ACCORDANCE WITH THE RECORDED PLAT THEREOF, IN THE

RECORDS OF THE JOHNSON COUNTY RECORDER'S OFFICE, CONTAINING 1.68 ACRES AND SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD.

APPLICANT GRAND RAIL DEVELOPMENT CO, INC 745 PACHA PARKWAY NORTH LIBERTY, IA 52317

DEVELOPMENT CHARACTERISTICS CURRENT ZONING: C-1-B REQUESTED LAND USE: COMMERCIAL LOT AREA: 73,288 SF (1.68 ACRES)

FRONT YARD SIDE YARD REAR YARD PARKING SETBACKS:

SIDE REAR

MINIMUM LOT REQUIREMENTS LOT FRONTAGE LOT WIDTH

MAXIMUM BUILDING HEIGHT 45 FEET OR 3 STORIES LOT CHARACTERISTICS 73,288 SF (100%)(1.68 AC) 9,819 SF (13%) 37,492 SF (52%) BUILDING AREA - PROPOSED PAVING AREA - PROPOSED 25,974 SF (35%) GREEN SPACE AREA

20 FEET

35 FEET

BUILDING CHARACTERISTICS:
1 - PROPOSED RETAIL/20-UNIT APARTMENT BUILDINGS @ 9,819 SF PARKING REQUIREMENTS:

PROPOSED RETAIL 1 PER 200 SF 9,820 SF / 200 = 50 TOTAL SPACES REQUIRED

PROPOSED MULTI-FAMILY RESIDENTIAL 2.2 / DU 20 DU X 2.2 = 44 TOTAL SPACES REQUIRED

TOTAL PARKING PROVIDED (ADA PROVIDED = 5)

TOTAL PARKING REQUIRED (ADA PROVIDED = 5) = 94 SPACES PROPOSED PARKING LOT SPACES (4 ACCESSIBLE) = 76 SPACES PROPOSED PARKING GARAGE SPACES (1 ACCESSIBLE) = 28 SPACES

ALL GROUND MOUNTED MECHANICAL UNITS SHALL BE SCREENED WITH LANDSCAPING (SEE LANDSCAPING PLAN). SNOW STORAGE FOR THE SITE CAN BE PROVIDED AT THE SOUTH SIDE OF THE SITE.

SHEET INDEX

1 TITLE SHEET/OVERALL LAYOUT PLAN

2 GRADING PLAN 3 UTILITY PLAN

4 LANDSCAPE PLAN

5 GENERAL NOTES AND DETAILS

6 EROSION CONTROL PLAN

SURVE	SURVEY CONTROL				
POINT	NORTHING	EASTING	EASTING ELEVATION DESCRIPTION		
1	5018.13	4356.25	4356.25 798.715 CUT X (MMS NO. 13)		
2	5015.90	5170.37	784.413 (ASSUMED)	BENCHMARK AND CONTROL POINT FROM CHURCH SITE (MMS NO. 102)	
3	5046.99	4875.92	789.91 (ASSUMED)	ARROW BOLT ON HYDRANT ON NORTH SIDE OF MADISON AVENUE AT CENTER OF LOT (MMS NO. 276)	

560 N. MADISON AVE NORTH LIBERTY, IOWA

LOCATION MAP

NOT TO SCALE

PENN ST

TITLE SHEET/ OVERALL LAYOUT PLAN

SITE PLAN 560 N. MADISON

NORTH LIBERTY JOHNSON COUNTY STATE OF IOWA

THE CONTRACTOR SHALL NOTIFY IOWA
ONE CALL 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 APPROXIMATI 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

# MMS CONSULTANTS, INC. 3/1/2017 Checked by:

Project No:

IOWA CITY

1194143

#### PERMANANT SEEDING OF URBAN AREAS

SUDAS TYPE 1 PERMANENT LAWN MIXTURE SHALL BE USED FOR PERMANENT SEEDING OF URBAN AREAS, INCLUDING ANY AREAS PREVIOUSLY MAINTAINED AS A LAWN. (SUDAS 9010.2.02). THE APPLICATION RATE SHALL BE AS LISTED BELOW:

TABLE 9010.06: TYPE 1 SEED MIXTURE (1)

COMMON NAME	APPLICATION RATE lb/acre	
CREEPING RED FESCUE	25	
TURF-TYPE PERENNIAL RYEGRASS (2)	20	
TURF-TYPE PERENNIAL RYEGRASS (2)	20	
KENTUCKY BLUEGRASS CULTIVAR (3)	65	
KENTUCKY BLUEGRASS CULTIVAR (3)	65	
KENTUCKY BLUEGRASS CULTIVAR (3)	65	
(1) A COMMERCIAL MIXTURE MAY BE USED IF IT CONTAINS A HIGH PERCENTAGE OF SIMILAR		

BLUEGRASSES; IT MAY OR MAY NOT CONTAIN CREEPING RED FESCUE. 2) CHOOSE TWO DIFFERENT CULTIVARS OF TURF-TYPE PERENNIAL RYEGRASS, AT 20 Ibs/ACRE EACH. 3) CHOOSE THREE DIFFERENT CULTIVARS OF KENTUCKY BLUEGRASS, AT 65 Ibs/ACRE EACH.

#### **GRADING NOTES**

.) 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

— – PROPERTY &/or BOUNDARY LINES

- LOT LINES, PLATTED OR BY DEED

- CENTER LINES - EXISTING CENTER LINES

BENCHMARK

GUY POLE

- LIGHT POLE

- LOT LINES, INTERNAL

- — - PROPOSED EASEMENT LINES

- RECORDED DIMENSIONS - CURVE SEGMENT NUMBER

POWER POLE W/DROP

- POWER POLE W/TRANS

- POWER POLE W/LIGHT

- SANITARY MANHOLE

- DRAINAGE MANHOLE

- FENCE LINE - EXISTING SANITARY SEWER

PROPOSED SANITARY SEWER - EXISTING STORM SEWER - PROPOSED STORM SEWER

- - CONTOUR LINES (1' INTERVAL)

- EXISTING DECIDUOUS TREE & SHRUB

- EXISTING EVERGREEN TREES & SHRUBS

FIRE HYDRANT

WATER VALVE

CURB INLET

WATER LINES

- GAS LINES

- ELECTRICAL LINES

- TELEPHONE LINES

- PROPOSED GROUND

- EXISTING TREE LINE

EXISTING EASEMENT LINES

4.) COMPACTION TO BE 90% MODIFIED PROCTOR WHERE > 6:1 SLOPE. .) 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.

LEAST 6' WIDE SHALL BE ESTABLISHED AT MID HEIGHT. SEE TYPICAL FILL SECTION.

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 NORTH LIBERTY DESIGN AND CONSTRUCTION STANDARDS AND PROCEDURES.

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

3/20/2018 REVISED PER CITY COMMENTS JEB/BTM 3/26/2018 REVISED PER CITY COMMENTS JEB/BTM

**GRADING PLAN** 

SITE PLAN 560 N. MADISON

NORTH LIBERTY JOHNSON COUNTY STATE OF IOWA

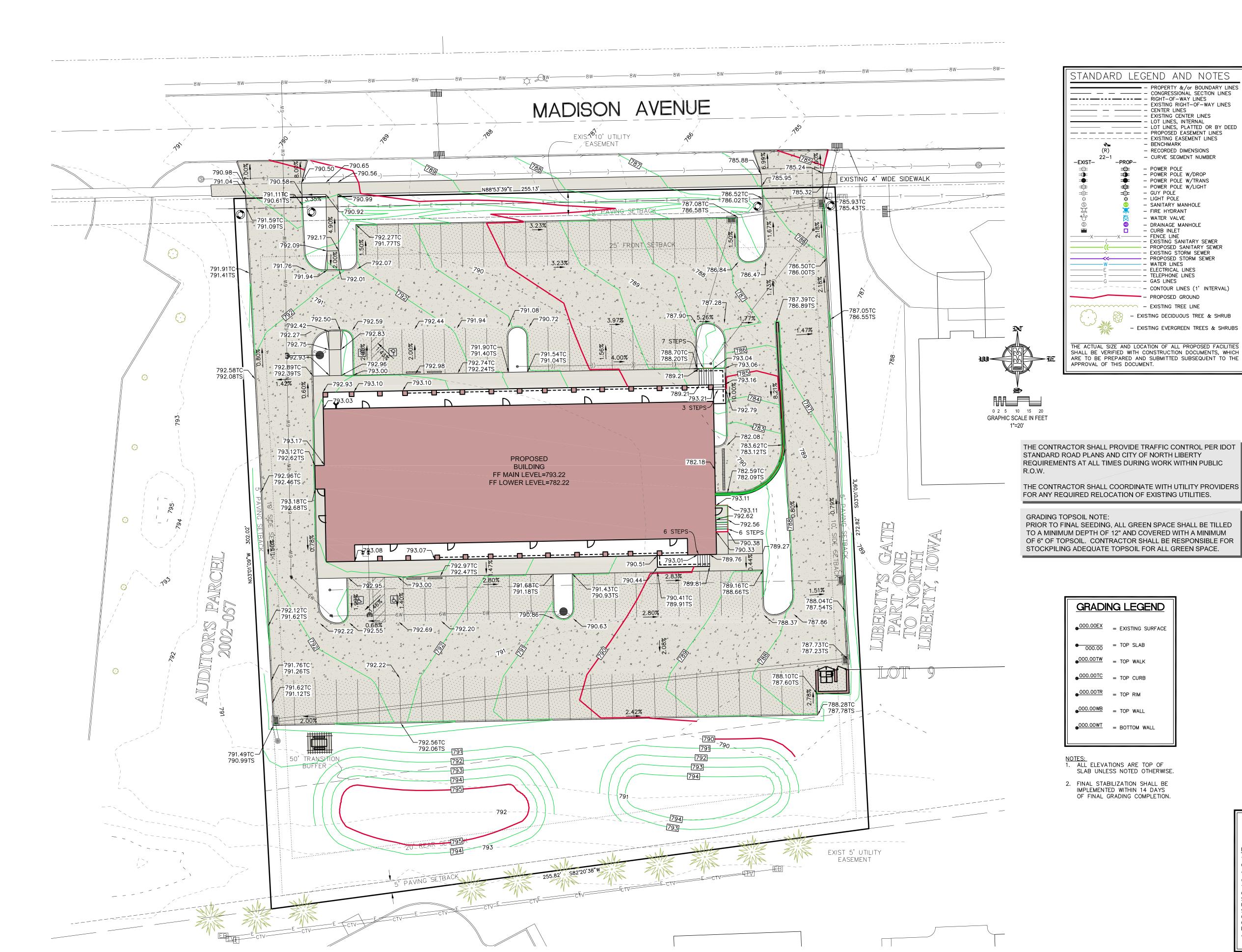
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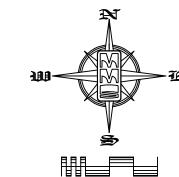
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IN HE DR S.	MMS CONSU	ILTANTS, IN			
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IOWA CITY 1194143





STANDARD LEGEND AND NOTES PROPERTY &/or BOUNDARY LINES — — — — — CONGRESSIONAL SECTION LINES - --- --- --- - EXISTING RIGHT-OF-WAY LINES — — CENTER LINES - EXISTING CENTER LINES — – LOT LINES, INTERNAL - LOT LINES, PLATTED OR BY DEED BENCHMARK - RECORDED DIMENSIONS CURVE SEGMENT NUMBER -EXIST--PROP-- POWER POLE - POWER POLE W/DROP - POWER POLE W/TRANS - POWER POLE W/LIGHT GUY POLE - LIGHT 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 CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PER IDOT STANDARD ROAD PLANS AND CITY OF NORTH LIBERTY REQUIREMENTS AT ALL TIMES DURING WORK WITHIN PUBLIC

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

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

APPROVAL OF THIS DOCUMENT.

1.68 AC.

**CIVIL ENGINEERS** LAND PLANNERS LAND SURVEYORS LANDSCAPE ARCHITECTS ENVIRONMENTAL SPECIALISTS 1917 S. GILBERT ST. IOWA CITY, IOWA 52240 (319) 351-8282 www.mmsconsultants.net

3/20/2018 REVISED PER CITY COMMENTS JEB/BTM 3/26/2018 REVISED PER CITY COMMENTS JEB/BTM

UTILITY PLAN

SITE PLAN 560 N. MADISON

NORTH LIBERTY JOHNSON COUNTY STATE OF IOWA

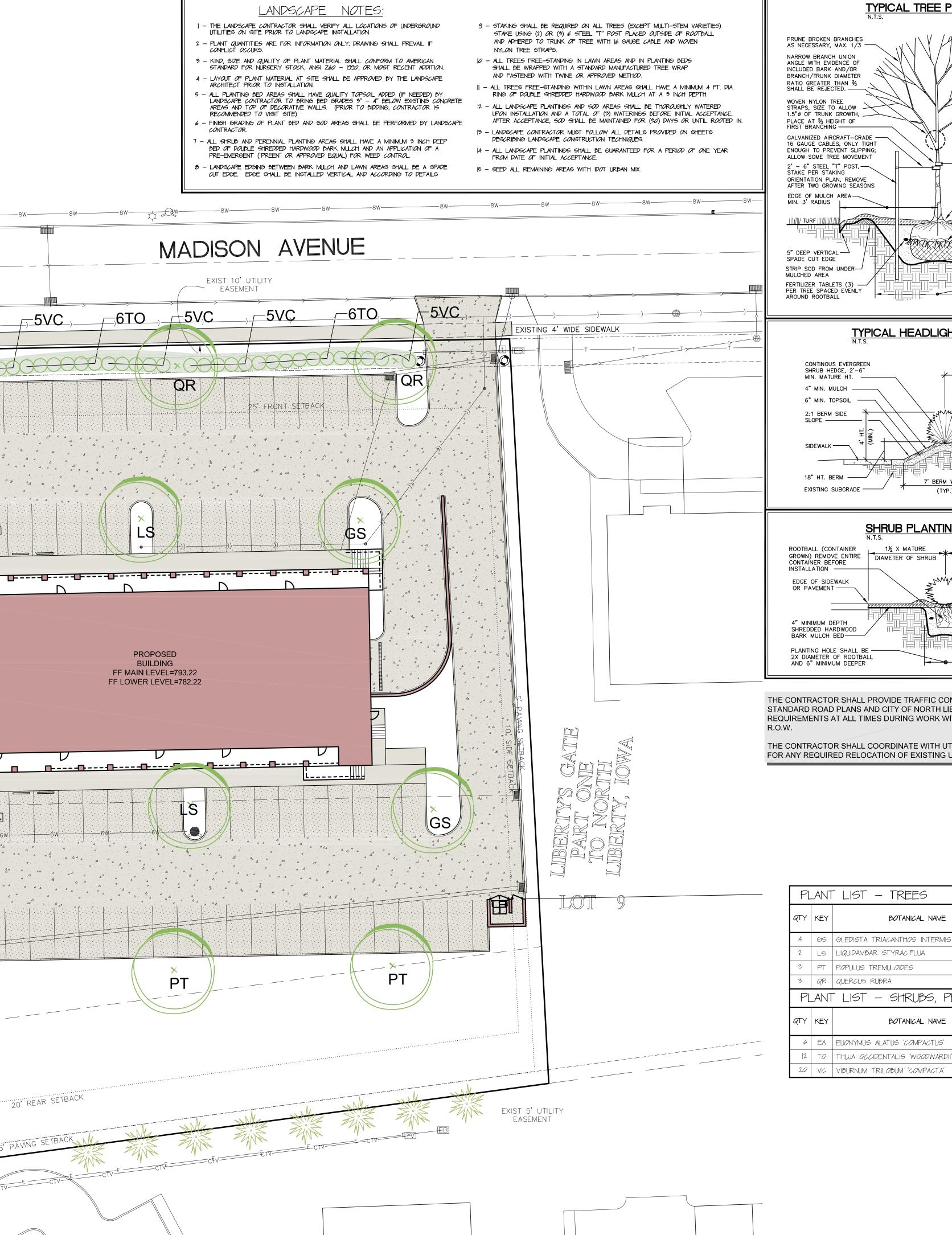
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MMS CONSULTANTS, INC.

3/1/2017 Designed by: Field Book No: Drawn by:

IOWA CITY 1194143



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- PROPERTY & for BOUNDARY LINES. —— — — — — CONGRESSIONAL SECTION LINES —— – CENTER LINES \_POST - LOT LINES, INTERNAL — – LOT LINES, PLATTED OR BY DEED - — — — — — — PROPOSED EASEMENT LINES - - EXISTING EASEMENT LINES BENCHMARK - RECORDED DIMENSIONS - CURVE SEGMENT NUMBER CABLE -EXIST--PROP-\\_STRAP - POWER POLE - POWER POLE W/DROP STAKING ORIENTATION PLAN - POWER POLE W/TRANS - POWER POLE W/LIGHT GUY POLE - PLANT WITH BASE OF TREE A LIGHT POLE MIN. 1" ABOVE ADJACENT GRADE ENSURE ROOT FLARE IS VISIBLE - SANITARY MANHOLE FIRE HYDRANT - REMOVE ALL TWINE AND STRAPS WATER VALVE OR CUT AND FOLD WIRE BASKET AND CUT BURLAP FROM TOP 1/2 - DRAINAGE MANHOLF OF ROOTBALL CURB INLET - FENCE LINE - EXISTING SANITARY SEWER -3" MINIMUM DEPTH SHREDDED HARDWOOD BARK MULCH, ENSURE - PROPOSED SANITARY SEWER ROOT FLARE IS VISIBLE - - EXISTING STORM SEWER – PROPOSED STORM SEWER SIDEWALK/PAVING - - WATER LINES - ELECTRICAL LINES - TELEPHONE LINES - 3" WATER RETENTION SOIL RING — - GAS LINES - - - - - - CONTOUR LINES (1' INTERVAL) - EXISTING UNDISTURBED SUBGRADE - PROPOSED GROUND - PLANTING MIX/NATIVE SOIL BACKFILL - EXISTING TREE LINE TREE PIT TO BE MINIMUM OF 2.5 X ROOT BALL DIAMETER SLANT AND ROUGHEN SIDES; - EXISTING DECIDUOUS TREE & SHRUB INCREASE PIT DIAMETER IN - EXISTING EVERGREEN TREES & SHRUBS HEAVY CLAY SOILS

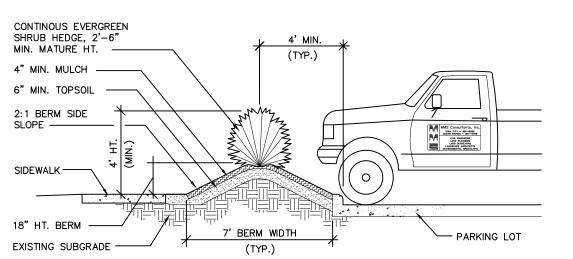
STANDARD LEGEND AND NOTES

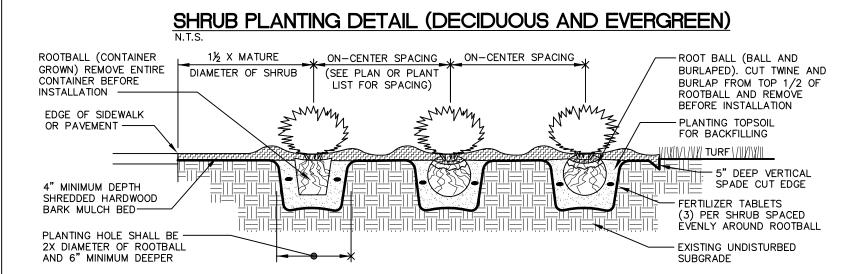
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## TYPICAL HEADLIGHT SCREENING DETAIL





THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PER IDOT STANDARD ROAD PLANS AND CITY OF NORTH LIBERTY REQUIREMENTS AT ALL TIMES DURING WORK WITHIN PUBLIC

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

## LANDSCAPE REQUIREMENTS

1 TREE FOR EVERY 2,000 SF OF BUILDING FOOTPRINT - 11,968 / 2,000 = 6 TREES

1 TREE WITHIN 40' OF EACH PARKING SPACE PROVIDED

PARKING LOT SCREENING FROM PUBLIC RIGHT OF WAY.

TOTAL TREES REQUIRED = 6 TREES TOTAL TREES PROVIDED = 12 TREES

PL	PLANT LIST - TREES					
QTY	KEY	BOTANICAL NAME	COMMON NAME	INSTALL SIZE	<i>CO</i> MMENT	MATURE SIZE
4	65	GLEDISTA TRIACANTHOS INTERMIS 'SKYLINE'	SKYLINE THORNLESS HONEYLOCUST	2" CAL.	B & B	60' X 30'
2	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	2" CAL.	В&В	50' X 25'
3	PT	POPULUS TREMULOIDES	QUAKING ASPEN	2" CAL.	B & B	50' X 25'
3	QR	QUERCUS RUBRA	RED OAK	2" CAL.	В&В	70' X 30'
PLANT LIST — SHRUBS, PERENNIALS, ORNAMENTAL GRASSES & GROUNDCOVER						
QTY	KEY	BOTANICAL NAME	COMMON NAME	INSTALL SIZE	COMMENT	MATURE SIZE

COMPACT WINGED BURNING BUSH

GLOBE ARBORVITAE

COMPACT AMERICAN CRANBERRY BUSH VIBURNUM

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

24" HT. CONT

15" HT. CONT

24" HT. CONT.

5' X 5'

5′ X 5′

5′ X 5′

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www.mmsconsultants.net

Date Revision

3/20/2018 REVISED PER CITY COMMENTS JEB/BTM 3/26/2018 REVISED PER CITY COMMENTS JEB/BTM

LANDSCAPE PLAN

SITE PLAN 560 N. MADISON

NORTH LIBERTY JOHNSON COUNTY STATE OF IOWA

MMS CONSULTANTS, INC. 3/1/2017 Field Book No:

Drawn by: Checked by: IOWA CITY

1194143

#### SANITARY SEWER AND WATER MAIN CONSTRUCTION NOTES

- \*\*ALL SANITARY SEWER MANHOLE LIDS SHALL HAVE THE WORDS 'SANITARY SEWER' CAST IN THE LID\*\*
- 1) SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AS PREPARED BY MMS CONSULTANTS, INC. CONSTRUCTION SHALL ALSO CONFORM TO THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) MANUAL, AND TO THE CITY OF NORTH LIBERTY STANDARDS AND APPROVED MANUFACURERS/MODELS.
- 2) ALL TRENCH EXCAVATIONS SHALL BE COMPLETED IN ACCORDANCE WITH SUDAS SPECIFICATION SECTION 3010.
- 3) CONTRACTOR SHALL PROVIDE CLASS 1 CRUSHED STONE ENCASEMENT BEDDING ACCORDING TO SUDAS SPECIFICATION 3010,2.02,A FOR ALL SANITARY SEWER UNLESS NOTED OTHERWISE ON THE PLANS.
- 4) SANITARY SEWERS TO BE PVC TRUSS PIPE (SUDAS 4010,2.01,E) UNLESS NOTED OTHERWISE. SANITARY SEWER SERVICE LINES SHALL BE PVC, SDR 23.5 WITH GASKETED JOINTS (SUDAS 4010,2.04,C).
- 5) CONTRACTOR TO PROVIDE CLOW "BAND-SEAL" COUPLINGS FOR DISSIMILAR PIPE
- 6) WATER MAINS SHALL BE DR-18 PVC PIPE, IN COMPLIANCE WITH SUDAS SPECIFICATION SECTION 5010,2.01, UNLESS NOTED OTHERWISE ON THE PLANS.
- 7) ALL CLASS 52 DIP SHALL BE WRAPPED WITH 8 MIL. POLYETHYLENE WRAP IN COMPLIANCE WITH SUDAS 5010,3.05.
- 8) #12 AWG SOLID COPPER TRACER WIRE SHALL BE INSTALLED ALONG ENTIRE LENGTH OF NEW WATER MAIN, IN COMPLIANCE WITH SUDAS SPECIFICATION 5010,3.06 AND FIGURE 5010.102. THHN INSULATION IN YELLOW, ORANGE OR BLUE. 9) SANITARY SEWER TRENCHES SHADED ON THE PROFILE VIEW SHALL BE BACKFILLED WITH EITHER
- OF THE FOLLOWING COMPACTED TO 95% STANDARD 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. \*REFER TO SUDAS SPECIFICATION 3010,2.01 FOR UNSUITABLE MATERIAL\*
- 10) GRANULAR TRENCH BACKFILL SHALL BE CLASS 1 CRUSHED STONE CONFORMING TO SUDAS SPECIFICATION 3010,2.02,A. COMPACT TO 95% STANDARD PROCTOR DENSITY.
- 11) WATER MAINS WITHIN STREET RIGHT OF WAYS OR WITHIN EASEMENTS ADJACENT TO THE STREET RIGHT OF WAYS SHALL BE BACKFILLED WITH EITHER OF THE FOLLOWING COMPACTED TO 95% STANDARD 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.
- 12) ALL SANITARY SEWER SERVICE LINES CROSSING STREET RIGHT-OF-WAY SHALL BE BACKFILLED IN ACCORDANCE WITH THE PRECEDING NOTE.
- 13) ALL SANITARY SEWER SERVICE LINES SHALL BE EXTENDED

AND STORM SEWER.

- A. TO THE UTILITY EASEMENT LINE FOR THOSE LOCATIONS WHERE THE LOTS BEING SERVED ARE ON THE OPPOSITE SIDE OF THE STREET FROM THE SEWER MAIN.
- B. TO THE UTILITY EASEMENT LINE FOR THOSE LOCATIONS WHERE THE LOTS BEING SERVED ARE ADJACENT TO THE SEWER MAIN.

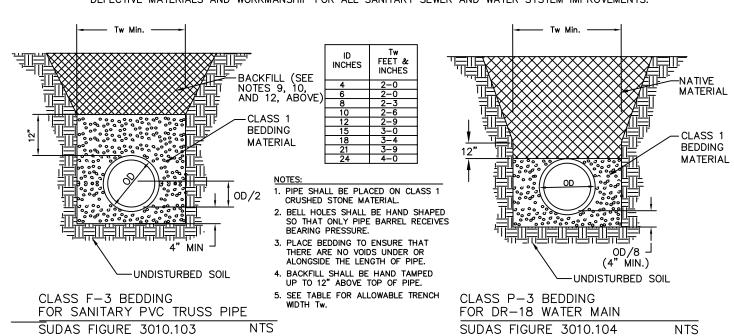
THE FOLLOWING MINIMUM CLEARANCES MUST BE MAINTAINED, ACCORDING TO SUDAS SPECIFICATION 5010,3.07: 14) WATER MAIN SHALL BE LOCATED 10 FEET HORIZONTALLY DISTANT FROM ALL SANITARY SEWER

- 15) WATER MAIN SHALL NOT PASS THROUGH NOR CONTACT A SEWER OR A SEWER MANHOLE. A MINIMUM HORIZONTAL SEPARATION OF 3 FEET SHALL BE MAINTAINED.
- 16) VERTICAL SEPARATION OF WATER MAINS CROSSING OVER ANY SANITARY SEWER SHOULD BE A MINIMUM OF 18-INCHES, MEASURED OUTSIDE TO OUTSIDE FROM THE CLOSEST EDGE OF EACH PIPE. IF PHYSICAL CONDITIONS PROHIBIT THIS SEPARATION, THE WATER MAIN SHALL NOT BE PLACED CLOSER THAN 6-INCHES ABOVE A SEWER OR 18-INCHES BELOW A SEWER. THE SEPARATION DISTANCE SHALL BE THE MAXIMUM FEASIBLE IN ALL CASES.
- 17) WHERE THE WATER MAIN CROSSES SEWER, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS ARE AS FAR AS POSSIBLE FROM THE SEWER. THE WATER AND SEWER PIPES MUST BE ADEQUATELY SUPPORTED AND HAVE WATER TIGHT JOINTS. A LOW PERMEABILITY SOIL SHALL BE USED FOR BACKFILL MATERIAL WITHIN 10-FEET OF THE POINT
- 18) NOMINAL DEPTH OF WATER MAIN = 5.5 FEET TO TOP OF PIPE.
- 19) WATER MAIN SHADED ON PLAN VIEW, AND ALL WATER SERVICE LINES CROSSING STREETS, SHALL BE INSTALLED PRIOR TO PAVING.
- 20) VIDEO INSPECTION OF ALL SANITARY SEWER MAINS IS REQUIRED PRIOR TO CITY ACCEPTING OWNERSHIP OF THE SYSTEM.

1) A	LL SANITARY SEWER AND SERVICE LINES SHALL BE AIR TESTED TO PASS THE FOLL	LOWING TEST:	
_	LOW PRESSURE AIR TESTING (SUDAS 4060,3.04,C)	SUDAS TABLE 4	060.02: TEST DURATION
Α	. PERFORM FROM MANHOLE—TO—MANHOLE AFTER BACKFILL, CLEAN AND WET PIPE LINE	PIPE DIAMETER, (INCHES)	TEST PERIOD DURATION (MINITES)
В	. PLUG ALL INLETS AND OUTLETS TO RESIST THE TEST PRESSURE.	8 10	4.0 5.0
С	. USE THE TABLE TO THE RIGHT TO DETERMINE THE TEST DURATION FOR SECTION BEING TESTED. PRESSURE HOLDING TIME IS BASED ON AVERAGE HOLDING PRESSURE OF 3.0 PSI OR DROP FROM 3.5-2.5 PSI.	12 15 18 21	6.0 7.0 8.5 10.0
D	. INTRODUCE LOW-PRESSURE AIR INTO SEALED LINE AND ACHIEVE INTERNAL AIR PRESSURE OF 4 PSIG GREATER THAN MAXIMUM PRESSURE EXERTED BY GROUNDWATER ABOVE PIPE INVERT. PRESSURE IN SEWER SHOULD NOT EXCEED 5.0 PSI.	24 27 30 36	11.5 13.0 14.0 17.0
Ε	. ALLOW 2 MINUTES MINIMUM FOR AIR PRESSURE TO STABILIZE. DISCONNECT LOW-PRESSURE AIR HOSE FROM CONTROL PANEL.	42 48	20.0 23.0

28.5

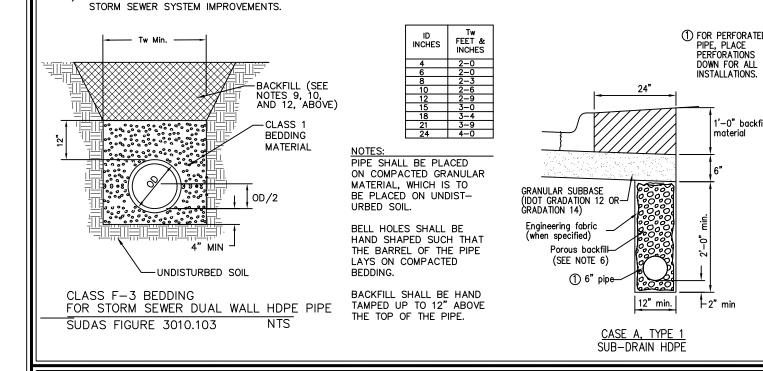
- F. WHEN PRESSURE HAS STABILIZED AND IS AT OR ABOVE THE STARTING TEST PRESSURE OF 3.5 PSI, COMMENCE THE TEST. RECORD THE DROP IN PRESSURE FOR THE TEST PERIOD. THE TEST MAY BE DISCONTINUED WHEN THE PRESCRIBED TEST TIME HAS BEEN COMPLETED, EVEN THOUGH 1.0 PSI DROP HAS NOT OCCURRED.
- G. IF THE GROUNDWATER LEVEL AT THE TIME OF TESTING IS ABOVE THE PIPE INVERT, ADD 0.43 PSI OF
- AIR PER FOOT OF WATER ABOVE THE INVERT TO TEST AIR PRESSURE RANGE OF 2.5 PSI TO 3.5 PSI
- H. IF THE PRESSURE DROP EXCEEDS 1.0 PSI DURING THE TEST PERIOD, THE TEST WILL BE CONSIDERED TO HAVE FAILED. LOCATE AND REPAIR LEAKS, AND RETEST THE LINE.
- I. AIR TESTING SHALL BE CONSIDERED INCIDENTAL TO SANITARY SEWER CONSTRUCTION.
- 22) ALL PVC TRUSS SEWERS SHALL HAVE A DEFLECTION TEST PERFORMED AS FOLLOWS:
- A. DEFLECTION TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. B. DEFLECTION TEST TO BE CONDUCTED BY PULLING A 9 ARM DEFLECTION MANDREL, COMPLYING WITH
- APPLICABLE ASTM STANDARDS, THROUGH SEWER BY HAND, IN ACCORDANCE WITH SUDAS SPECIFICATION 4060,3.05.
- C. NO PIPE SHALL EXCEED A DEFLECTION OF 5% OF INSIDE PIPE DIAMETER.
- 23) MANHOLE FRAME AND LID TO BE NEENAH R-1642 SELF SEALING OR APPROVED EQUAL. MANHOLE FRAMES IN PAVING SHALL ALSO BE NON-ROCKING
- 24) CONTRACTOR SHALL PROVIDE A 2-YEAR MAINTENANCE BOND WITH THE CITY OF NORTH LIBERTY COVERING DEFECTIVE MATERIALS AND WORKMANSHIP FOR ALL SANITARY SEWER AND WATER SYSTEM IMPROVEMENTS.



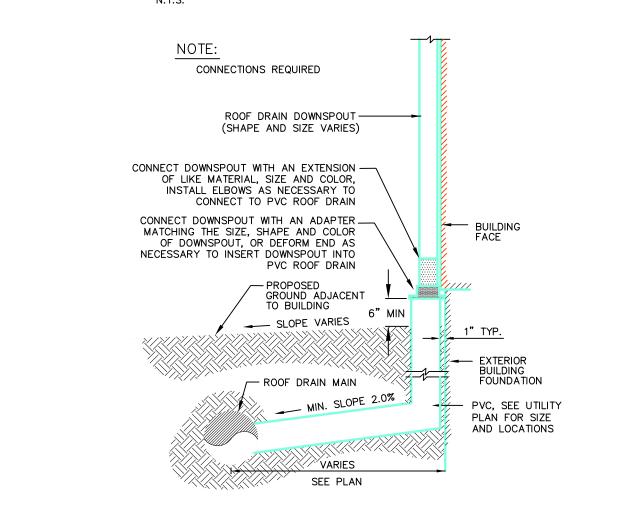
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## STORM SEWER AND SUB-SURFACE CONSTRUCTION NOTES

- 1) ALL STORM SEWER AND SUB-SURFACE CONSTRUCTION SHALL CONFORM TO PLANS AND DETAILS PREPARED FOR THIS PROJECT BY MMS CONSULTANTS, INC., AS WELL AS CONFORM TO THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) MANUAL. CONSTRUCTION SHALL ALSO CONFORM TO THE CURRENT CITY OF NORTH LIBERTY DESIGN STANDARDS, WHICH SHALL SUPERSEDE PLANS AND DETAILS PROVIDED BY MMS CONSULTANTS.
- 2) ALL STORM SEWER INTAKE AND MANHOLE LIDS SHALL HAVE THE WORDS "STORM SEWER" CAST INTO THE LID.
- 3) ALL REINFORCED CONCRETE PIPE STORM SEWER SHALL BE CLASS III UNLESS NOTED OTHERWISE IN THE PLANS.
- 4) ALL REINFORCED CONCRETE PIPE (RCP) SHALL CONFORM TO SUDAS SPECIFICATION 4020,2.01,A WITH THE FOLLOWING ADDITIONAL RESTRICTIONS: ALL RCP JOINTS FOR 36" AND SMALLER PIPE SHALL HAVE TONGUE AND GROOVE JOINTS INCORPORATING RUBBER "O"-RING OR PROFILE GASKETS COMPLYING WITH ASTM C443 OR SHALL BE TONGUE AND GROOVE WITH ALL JOINTS
- 5) RCP PIPE REDDING SHALL CONFORM TO SLIDAS FIGURE 3010.102 CLASS R-1. CLASS 1 REDDING MATERIAL SHALL BE AS SPECIFIED IN SUDAS SPECIFICATION 3010,2.02,A. TRENCH BACKFILL SHALL BE SUITABLE EXCAVATED MATERIAL AS IDENTIFIED IN SUDAS SPECIFICATION 3010,2.01,A PLACED AND COMPACTED IN ACCORDANCE WITH SECTIONS 3.05, D AND E. THE OWNER MAY ELECT TO TEST TRENCH COMPACTION AT THEIR OWN EXPENSE.
- 6) SUB-SURFACE DRAINAGE PIPE SHALL BE HIGH DENSITY POLYETHYLENE PIPE (HDPE) CONFORMING TO SUDAS SPECIFICATION 4040,2.02,C FOR BOTH PERFORATED TILE AND SOLID WALL PIPE.
- 7) FOR SUB-SURFACE DRAINAGE IN TURF AREAS HDPE PIPE BEDDING SHALL CONFORM TO SUDAS FIGURE 3010.103 CLASS F-3. BEDDING MATERIAL SHALL BE POROUS BACKFILL MATERIAL AS SPECIFIED IN SUDAS SPECIFICATION 4040,2.04. TRENCH BACKFILL SHALL BE SUITABLE EXCAVATED MATERIAL AS IDENTIFIED IN SUDAS SPECIFICATION 3010,2.01,A PLACED AND COMPACTED IN ACCORDANCE WITH SECTIONS 3.05 D AND E
- 8) FOR SUB-SURFACE DRAINAGE UNDER PAVEMENT HDPE PIPE INSTALLATION SHALL CONFORM TO SUDAS FIGURE 4040,2.01, CASE C TYPE 1. BEDDING AND BACKFILL MATERIAL SHALL BE AS SPECIFIED IN SUDAS SPECIFICATION 4040,2.04.
- 9) AT LOCATIONS WHERE A FLARED END SECTION IS REQUIRED, THE PIPE LENGTHS SHALL BE MEASURED TO THE END OF THE FLARED END. THE FLARED END SECTION AND THE TWO UPSTREAM JOINTS ARE TO INCORPORATE TIED JOINTS.
- 10) ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE CONNECTED TO THE PROPOSED STORM SEWER.
- NOTIFY ENGINEER OF ALL FIELD TILES ENCOUNTERED. 11) CONTRACTOR SHALL PROVIDE A FIVE-YEAR MAINTENANCE BOND COVERING DEFECTIVE MATERIALS AND WORKMANSHIP FOR ALL

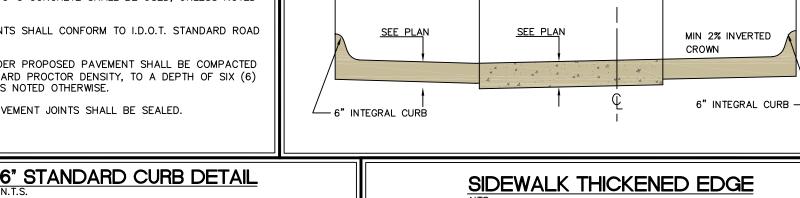


### DOWNSPOUT TO ROOF DRAIN SEWER CONNECTION DETAIL



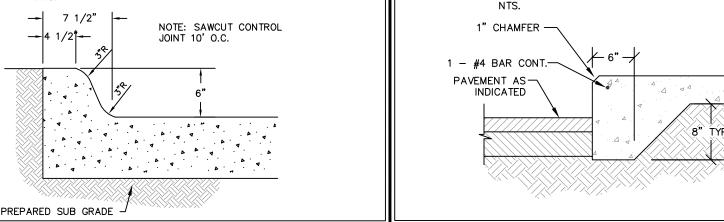
## PAVING CONSTRUCTION NOTES

- 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 3. PAVEMENT JOINTS SHALL CONFORM TO I.D.O.T. STANDARD ROAD
- PLAN PV-101. 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.

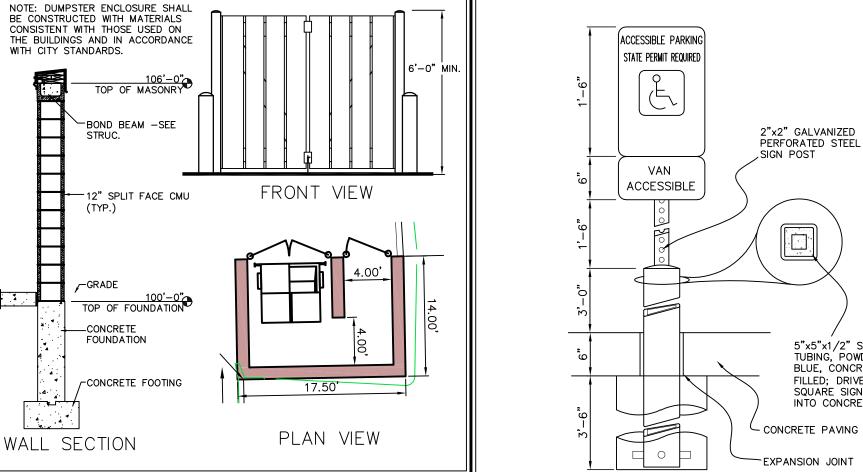


—19' PARKING STALL

TYPICAL DRIVE/PARKING SECTION



## ACCESSIBLE SIGN DETAIL



# ACCESSIBLE PARKING SYMBOL

TRASH ENCLOSURE DETAIL

1 Driveway radius (R).
Residential: 10 foot minimum, 15 foot maximum.

Transition the curb height to 0 inches at end of taper/radius or at the front edge of sidewalk. Do not extend raised curb across sidewalk.

4 Sidewalk thickness through driveway to match

(5) Center reinforcing bar vertically in the pavement.

7 Provide 'E' joint at back of curb unless 'B' joint is specified

8 For alleys, invert the pavement crown 2% toward center of alley.

TYPICAL SECTION

CONCRETE DRIVEWAY, TYPE A

(6) Match thickness of adjacent roadway, 8 inches

contract documents.

Pavement thickness.
Residential: 6 inches minimum.

Back of curb

TYPE A WITH FLARES

TYPE A WITH RADII

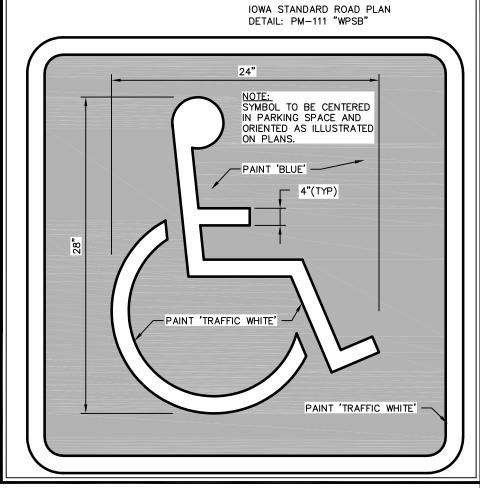
3'-0" min. 5'-0" max.

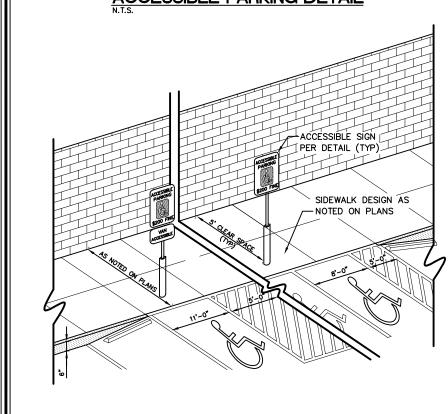
<u>DETAIL A</u>

<u>DETAIL B</u>

Commercial and industrial: As specified in the

Commercial and industrial: 7 inches minimum.





½" HANDRAIL

GREY. POLYURETHANE

SIDEWALK

DOWELED

EXPANSION -

JOINT 18" O.C.

SELF LEVELING JOINT

SEALER

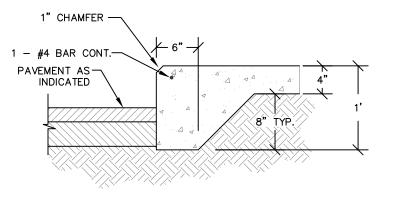
POST CONNECTION

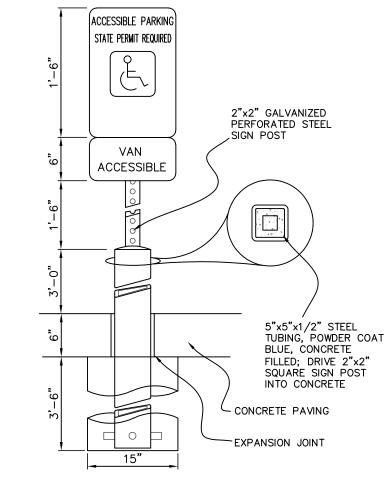
STEP CONSTRUCTION DETAIL

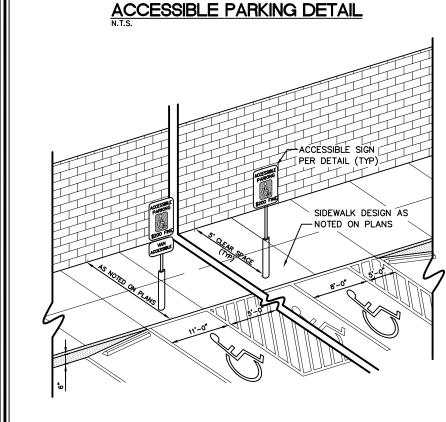
INSTALL 1½" DIAMETER — DOUBLE BAR HANDRAIL

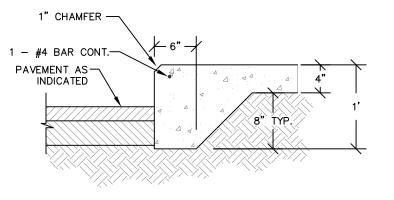
POWDER COATED STEEL,

BLACK OR RED IN COLOR

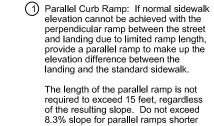








—19' PARKING STALL—



 $\vee$   $\vee$   $\vee$ 

Grade Break ♥ ♥

travel directions of 2.0%. Minimum 4 feet by 4 feet. 3) Perpendicular Curb Ramp: Target running slope of 6.25% with maximum

(5) Match pedestrian street crossing cross

(2) Turning Space: Target slope of 1.5%

with maximum slope perpendicular to the

running slope of 8.3%. (4) Target cross slope of 1.5% with a maximum cross slope of 2.0%.

slope or flatter.



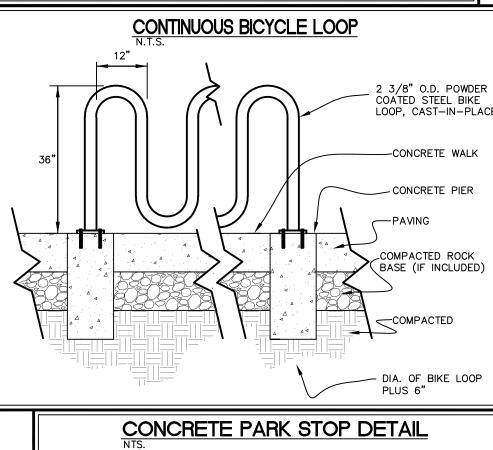
SUDAS Standard Specifications CURB RAMP FOR CLASS B OR C SIDEWALK

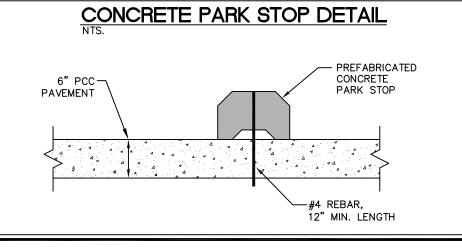
Curb Ramp

♥ ♥ Grass

Turning Space

Detectable warning





SIDE RAIL

- #4 REBAR

12" ON CENTER

#4 REBAR CENTERED IN

- #4 REBAR, 24" ON CENTER,

EXTEND 4" INTO SIDEWALL

CONSTRUCT FOOTING 3'-6" DEEP

WITH #4 REBAR, 12" ON CENTER,

BOTH DIRECTIONS

DOWELED

SIDEWALK

`KEY JOINT

ACTUAL NUMBER OF TREADS/RISERS

DEPENDING ON LOCATION OF STAIR

AND RISE AND LENGTH OF STAIR VARIES

- CONSTRUCT

FOOTING 3'-6" DEEP WITH #4

REBAR, 12" ON

CENTER, BOTH

EXPANSION

JOINT 18" O.C.

# **GENERAL NOTES**

1.68 AC.

CIVIL ENGINEERS

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LAND SURVEYORS

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(319) 351-8282

IOWA CITY, IOWA 52240

www.mmsconsultants.net

LANDSCAPE ARCHITECTS

**ENVIRONMENTAL SPECIALISTS** 

Revision

3/20/2018 REVISED PER CITY COMMENTS JEB/BTM

3/26/2018 REVISED PER CITY COMMENTS JEB/BTM

Date

# AND DETAILS

# SITE PLAN 560 N. MADISON

NORTH LIBERTY JOHNSON COUNTY STATE OF IOWA

		3/1/2017
Designed by:	втм	Field Book No:
Drawn by:	MAK	Scale: AS SHOWN
Checked by:	втм	Sheet No:
Project No:		<b>5</b>
IOWA	CITY	J

1194143

MMS CONSULTANTS, INC.

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3/20/2018 REVISED PER CITY COMMENTS JEB/BTM

3/26/2018 REVISED PER CITY COMMENTS JEB/BTM

----.

EXIST 5' UTILITY

EASEMENT

MADISON AVENUE

EXISA 10' UTILITY

/EASEMENT

PROPOSED

BUILDING

FF MAIN LEVEL=793.22

FF LOWER LEVEL=782.22

N88'53'39"F 255.13'

------

# STABILIZATION SEEDING STABILIZATION SEEDING SHALL BE IN ACCORDANCE WITH SUDAS

SECTION 9010.2.02 SEED MIXTURES AND SEEDING DATES.

TABLE 9010 06: TYPE 4 SEED MIXTURE

	TABLE 9010.06: TIPE	4 SEED MIXIURE
STE	COMMON NAME	APPLICATION RATE lb/acre
	SPRING - MARCH 1 - MAY 20	
	ANNUAL RYEGRASS	40
	OATS*	65
	SUMMER - MAY 21 - AUGUST 14	
	ANNUAL RYEGRASS	50
	OATS*	95
	FALL — AUGUST 15 — SEPTEMBER 30	
ıd	ANNUAL RYEGRASS	40
	GRAIN RYE	65
	* ENGINEER MAY DELETE FOR PREVIOUSLY ESTABLISHED	) URBAN AREAS.

FERTILIZER SHALL BE APPLIED AT A RATE OF 300 LBS PER ACRE USING CHEMICALLY COMBINED COMMERCIAL 13-13-13 FERTILIZER (SUDAS SECTION 9010.2.03 A.2)

### GRADING AND EROSION CONTROL NOTES

TOTAL SITE AREA: 1.68 ACRES
TOTAL AREA TO BE DISTURBED: 1.68 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

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.

CITY CSR REGULATIONS.

THE EROSION CONTROL CONTRACTOR SHALL INSTALL FILTER SOCKS OR

THE CONTRACTOR SHALL FOLLOW THE NPDES PERMIT, SWPPP, AND THE

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

# SILT FENCE DETAIL N.T.S. COMPACTED NATIVE STEEL POST SOIL BACKFILL FILTER FABRIC UNDISTURBED OR COMPACTED SOIL

INSTALLATION

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

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 SPLICED 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".

 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 WIRED 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 RAIN—FALL 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.

 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 SEEDED.

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.

# EROSION CONTROL PLAN

SITE PLAN 560 N. MADISON

NORTH LIBERTY JOHNSON COUNTY STATE OF IOWA

SS STREET SHALL NOTICY JOWA

THE CONTRACTOR SHALL NOTIFY IOWA
ONE CALL 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

WHERE POBLIC 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.

MMS CONSULTANTS, INC.

Date: 3/1/2017

Date: 3/1/201

Designed by: BTM

Drawn by: Scale: 1"=2

Checked by: BTM

ject No: IOWA CITY 1194143

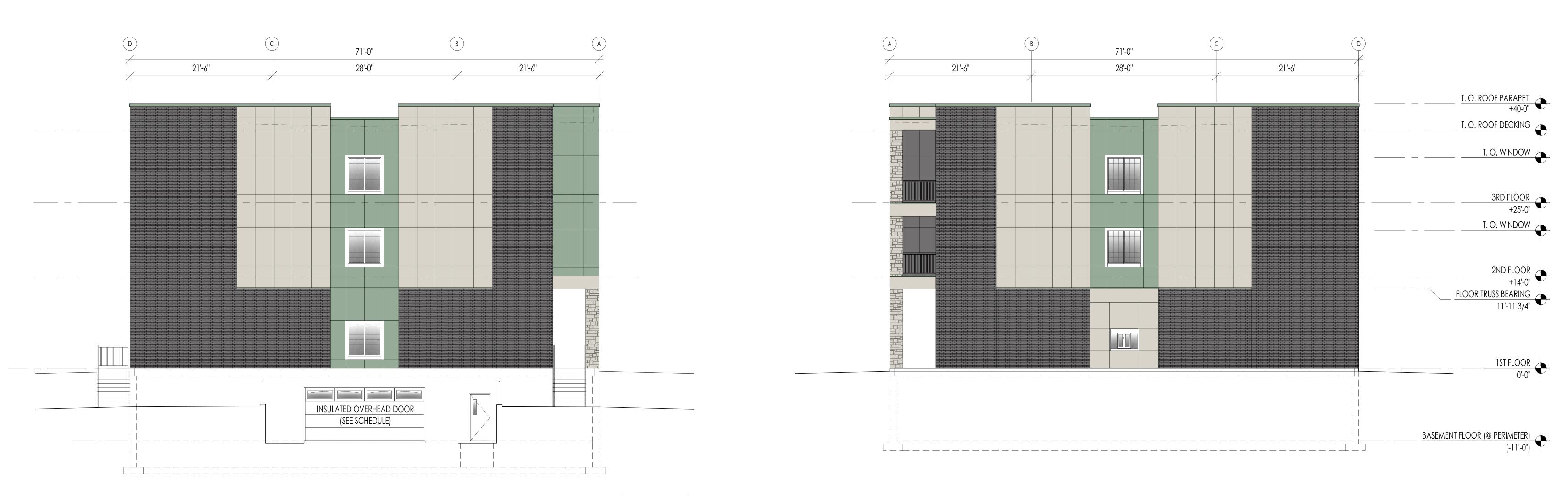
1"=20'



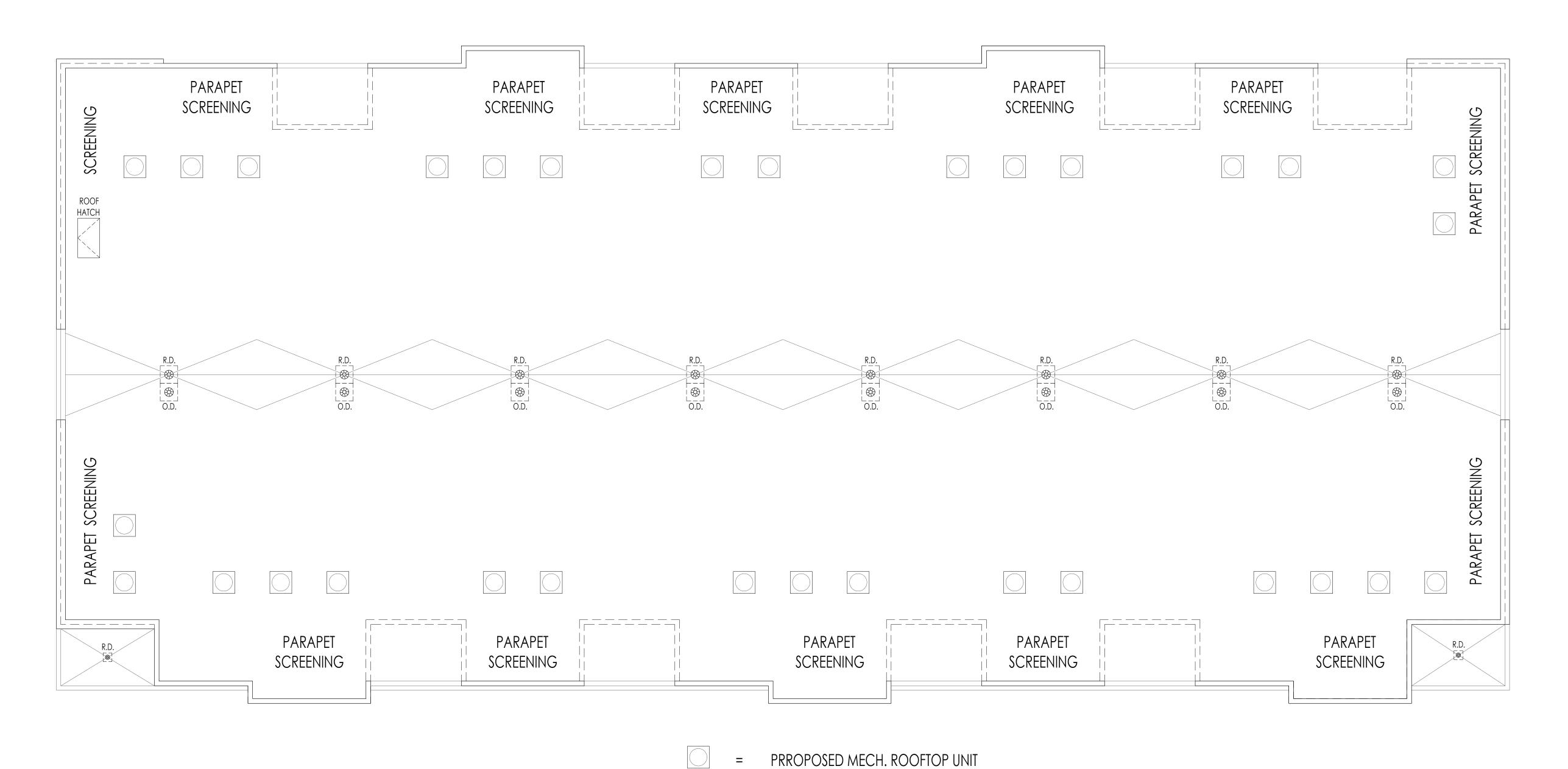
SOUTH ELEVATION (REAR) - 560 N. MADISON, N. LIBERTY, IOWA SELECT STRUCTURAL ENGINEERING 2-27-18 GRAND RAIL DEVELOPMENT



NORTH ELEVATION (FRONT) - 560 N. MADISON, N. LIBERTY, IOWA SELECT STRUCTURAL ENGINEERING 2-27-18 GRAND RAIL DEVELOPMENT



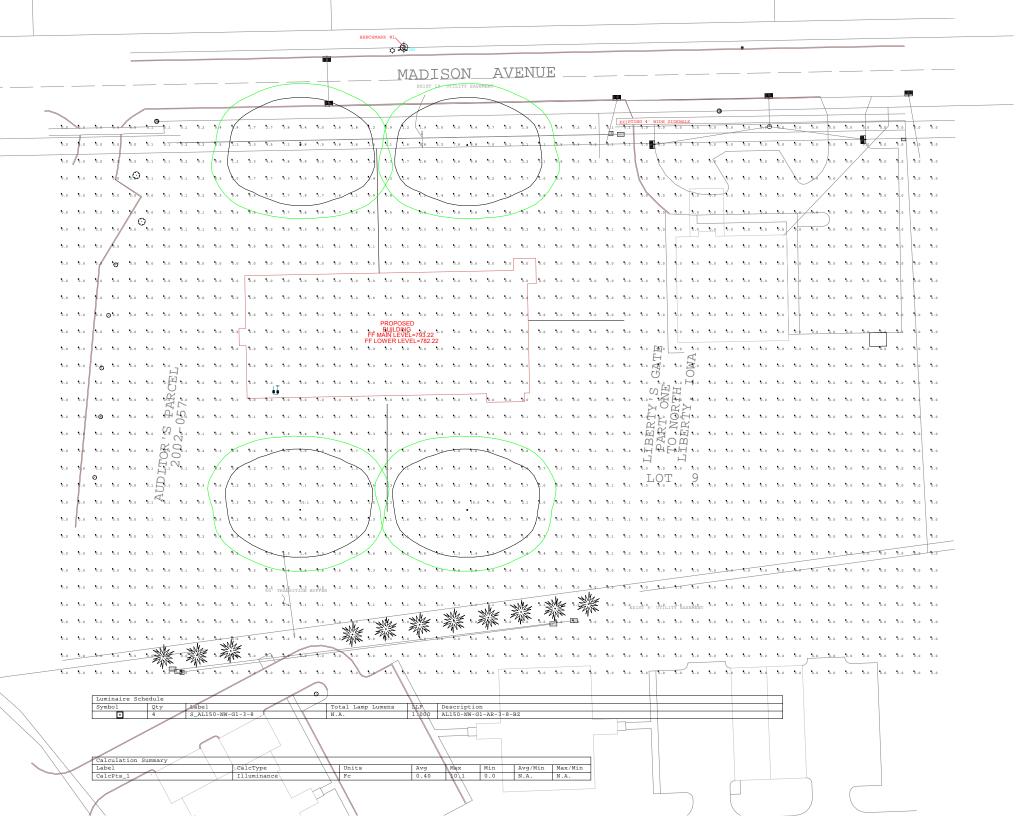
EAST & WEST ELEVATIONS (SIDE) - 560 N. MADISON, N. LIBERTY, IOWA SELECT STRUCTURAL ENGINEERING 2-27-18 GRAND RAIL DEVELOPMENT

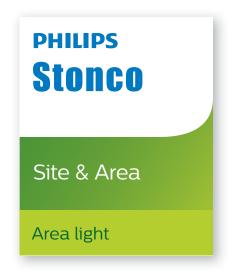


ROOF PLAN - 560 N. MADISON, N. LIBERTY, IOWA SELECT STRUCTURAL ENGINEERING 3-30-18 GRAND RAIL DEVELOPMENT



NORTH ELEVATION (FRONT) - 560 N. MADISON, N. LIBERTY, IOWA SELECT STRUCTURAL ENGINEERING 3-30-18 GRAND RAIL DEVELOPMENT









Project:	
Location:	
Cat.No:	
Type:	
Qty:	
Netes	

The Philips Stonco Area light features energy saving LED technology ideal for pole mounted area lighting applications. The Area light is available with Type 3 and Type 4 distributions in two lumen packages, providing up to 24,300 lumens.

#### Ordering guide

example: AL-150-NW-G1-AR-3-8-BZ

Luminaire	Wattage	LED Color – Generation	Mounting	Distribution	Voltage	Controls	Finish
AL		NW-G1	AR		8		BZ
AL Area Light	<b>150</b> 150W		AR¹ Arm mounting	<b>3</b> Type 3	8 120-277 Volts	No motion sensor	<b>BZ</b> Bronze
	<b>200</b> 200W	70 CRI, Generation 1		<b>4</b> Type 4		IMRI <sup>2</sup> Motion sensor <sup>2</sup>	

- 1. Mounts to a square pole. Adapter included for 4" round poles.
- IMRI is available with AL-200 only.

#### Housing

Aluminum die-cast housing with attachable arm. Arm has removable cover for ease of wire connection.

#### **IP Rating**

LED light engine rated IP66. Driver compartment rated to IP65.

#### **Vibration Resistance**

3G vibration rating that conforms to standards set forth by ANSI C136.31. Testing includes vibration to 3G acceleration in all three axes.

#### Electrical

Driver efficiency (>90% at full load). Available in 120-277V. IP66 compliant driver. RoHS compliant. Surge protector standard. 10KA per ANSI/IEEE C62.41.2.

#### **LED Board and Array**

216 or 280 LEDs. Color temperature 4000K, +/- 250K. Minimum CRI of 70. Metal core substrate.

#### **Optical System**

Type 3 and 4 distributions available.

#### **LED Thermal Management**

The housing design allows the one piece housing to provide excellent thermal management critical to long LED system life.

#### **Infrared Motion Response**

Integral IMRI module is a passive infrared (PIR) motion sensor mounted integral on driver enclosure and is available with a sensor lens type to accommodate mounting heights up to 40' and occupancy coverage area up to 2,800 sq.ft (60' in diameter). Motion response for option IMRI is set/operates in the following fashion:

The motion sensor is set to a constant 30% if there is low natural light detected by the integrated photocell and no motion.

When motion is detected by the PIR sensor, the luminaire goes to full power/ light output.

Dimming on low is factory set to 30% with 5 minute default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 70%, to 30% of the normal constant wattage reducing the light level.

#### Mounting

Standard luminaire arm mounts to square poles. Round pole adapter included with every luminaire designed for 4" OD poles.

#### **Energy Saving Benefits**

System efficacy up to 126lms/W with significant energy savings over Pulse Start Metal Halide luminaires.

#### Listings

UL/cUL listed to the UL 1598 standard, suitable for Wet Locations. Suitable for use in ambient from -30° to 40°C (-22° to 104°F).

All product configurations are DesignLights Consortium® qualified.

#### Finish

Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard color is bronze (BZ).

#### **Limited Warranty**

Luminaires, LED arrays, and drivers are all covered by a 5-year limited warranty. See philips.com/warranties for details.





## **Area light LED**

#### AL150/AL200

#### **LED Wattage and Lumen Values**

		System Color		Avgerage	Type 3		Type 4			
Ordering Codes	Total LEDs	Current (mA)	Temp. (K)	System Wattage <sup>1</sup>	Lumen Output <sup>1,2</sup>	BUG Rating	Efficacy (LPW)	Lumen Output <sup>1,2</sup>	BUG Rating	Efficacy (LPW)
AL150-NW-G1-AR	216	2850	4000K	147	18,585	B3-U0-G3	126	18,324	B3-U0-G3	125
AL200-NW-G1-AR	280	3800	4000K	197	24,382	B4-U0-G4	124	24,109	B3-U0-G3	122

- 1. Wattage and lumen output may vary by due to LED manufacturer forward volt specification and ambient temperature. Wattage shown is average for 120V through 277V input. Measured wattage may vary due to variation in input voltage.
- Lumen values based on photometric tests performed in compliance with IESNA LM-79. Contact outdoorlighting.applications@philips.com for details or additional information.

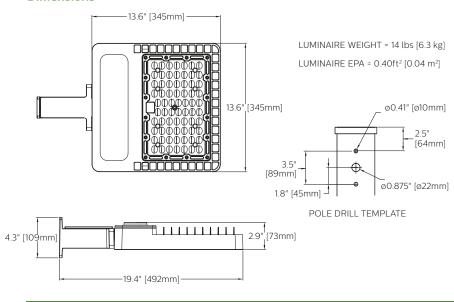
#### **Predicted Lumen Depreciation Data**

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.L70 is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L70 hours limited to 6 times actual LED test hours.

Ambient Temperature °C	LED Current	System Current	Calculated L <sub>70</sub> hrs <sup>1,2</sup>	L <sub>70</sub> per TM21 <sup>2,3</sup>	Lumen Maintenance @ 50,000hrs
25 °C	120mA	2850mA	>68,000	>54,000	77%
25 °C	120mA	3800mA	>68,000	>54,000	77%

- 1. Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.
- 2. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output.
- 3. Calculated per IESNA TM 21-11. Published L70 hours limited to 6 times actual LED test hours.

#### **Dimensions**



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Philips Lighting North America Corporation 200 Franklin Square Drive, Somerset, NJ 08873 Tel. 855-486-2216

Philips Lighting Canada Ltd. 281 Hillmount Rd, Markham, ON, Canada L6C 2S3 Tel. 800-668-9008



March 27, 2018

#### Memo

To: North Liberty Planning Commission
From: Dean Wheatley, Planning Director
Subject: Request of Hodge Construction Company to approve a rezoning of 21.62 acres from ID
(Interim Development district) to RS-6 (Residential Single-Family), for property generally located west of Jones Boulevard and north of Forevergreen Road.

(Legal: To be platted as Mickelson 2<sup>nd</sup> Addition)

Your North Liberty city staff has reviewed the subject submission, and offer comments presented in this memo. The staff review team includes the following personnel:

Ryan Heiar, City Administrator Tracey Mulcahey, Assistant City Administrator Tom Palmer, City Building Official Scott Peterson, City Attorney Kevin Trom, City Engineer Dean Wheatley, Planning Director

#### **Background and Statistics**

This request is to rezone property to permit the development of single-family lots of a size typical to many North Liberty neighborhoods, including Deerfield, Broadmoor, and others. A Good Neighbor meeting was held to allow any interested party an opportunity to comment on this rezoning prior to submission, and five resident households attended. Various concerns were expressed, including storm water management grading issues done with Part One currently under construction, sanitary sewer service along Jones Boulevard, and the extension of planned Noah Street south to Forevergreen Road. As can be seen on the zoning map inset, zoning surrounding and in the vicinity of the site includes ID, RS-4, RS-6, and RD-10, a good mix consistent with other areas of North Liberty and with good planning for a mix of housing type opportunities. Both Jones Boulevard and Forevergreen Road are major arterials in the major street system, but this property is removed from those streets and City planning for this area has been for mainly single-family development.

The property is shown as "residential" on the Land Use Plan, and so the request is consistent with that policy. A concept plan has been developed showing how streets are intended to connect to existing surrounding streets.

Existing housing unit counts within North Liberty

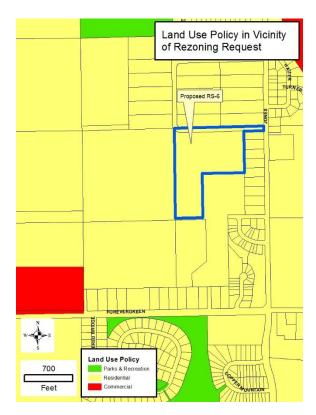
are approximately:

Single-family: 2,738 (37.6%) Multi-family: 2,536 (34.8%) Duplex: 1,271 (17.4%)

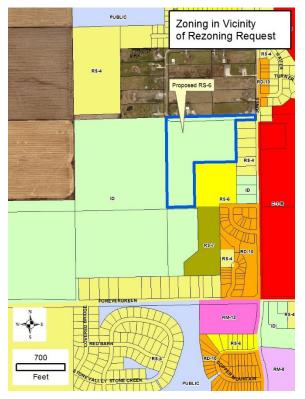
Res/Commercial: 213 (3%) Mobile Home: 531(7.3%)

## Subdivision Ordinance Provisions Affecting This Development

Proposed corner lots should be larger than others, as recommended by the City to provide somewhat larger yards. Storm water management will need to be planned for the site.



#### **Zoning Ordinance Provisions Affecting This Development**



None identified.

#### **Staff Comments Regarding the Proposed Zoning**

**Storm water impacts.** Storm water from this site will need to be managed in accordance with City standards as part of the preliminary plat review and infrastructure construction.

Street/Traffic impacts. Both Jones Boulevard and Forevergreen Road are classified as arterial streets. Jones Boulevard was recently upgraded and Forevergreen Road is scheduled to be improved in 2018 and 2019. Both will be adequate to accommodate new traffic resulting from this development.

#### Land use impacts and adjacent properties.

This general area best-suited for urban-scale density, and RS-6 lots satisfy that goal. There are larger lots to the east of this rezoning request, fronting on Jones Boulevard, but those were

platted many years ago before City utilities were available and before high land values and development costs began to dictate smaller urban lots.

**Land use and zoning recommendation.** In rezoning considerations, *suitability* and *compatibility* are key issues in addition to land use policy. In this case, the site is physically suitable for the development proposed, and single-family development proposed is considered compatible with surrounding uses.

Staff recommends approval of the rezoning request.

#### POINT OF BEGINNING (NORTHWEST CORNER, AUDITOR'S PARCEL 2017115) NORTHEAST CORNER OF SECTION 23-T80N-R7W FOUND CUT "X" BOOK 59 AT PAGE 165 IN ACCORDANCE WITH THE PLAT THEREOF RECORDED IN PLAT BOOK 9 AT PAGE 20 OF THE RECORDS OF THE JOHNSON COUNTY RECORDER'S OFFICE. N88°28'17"E 1329.77' -S00°46'27"E 66.00' - 323.35' S88'28'17"W NORTHWEST CORNER OF THE NORTHEAST QUARTER ID (INTERIM DEVELOPMENT) TO 33.00' OF THE NORTHEAST QUARTER OF SECTION 23-T80N-R7W **RS-6 RESIDENTIAL SINGLE FAMILY** SET 8" REBAR W\ YELLOW PLASTIC LS CAP CHIPMAN'S 2ND BOOK |2 AT PAGE 28 SECTION 10 11 SUTTNER DRIVE 16 15 TRACT A "TRACTS IN THE NE! , - NE<sub>4</sub>, SEC. 23-80-7-BOOK 10 AT PAGE 14 19 | 20 | 21 | 22 | 23 CHIPMAN LANE S<u>89</u>:16<u>'29"W</u> 395.<u>5</u>5' AUDITOR'S PARCEL 25 27 #96126 IN ACCORPANCE WITH THE PLAT THEREOF RECORDED IN PLAT BOOK 40 AT PAGE 161 OF THE RECORDS OF THE JOHNSON COUNTY RECORDER'S OFFICE. SECTION SECTION 23 IN ACCORPANCE WITH THE PLAT THEREOF RECORDED INVOLAT BOOK 61 AT PAGE 247 OF THE RECORDS OF AUDITOR' THE JOHNSON COUNTY RECORDER'S OFFICE. 22 OUTLOT "B" PAGE R'S PARCEL 15006 T80N-R7W OUTLOT "A" IN ACCORDANCE WITH THE PLAT THEREOF RECORDED A IN PLAT BOOK 60 AT PAGE 312 OF THE RECORDS OF THE JOHNSON COUNTY RECORDER'S OFFICE. 10 PARCEL 95034 BOOK 35 11 IN ACCORDANCE WITH THE PLAT THEREOF RECORDED IN PLAT BOOK IS AT PAGE 59 OF THE RECORDS OF THE JOHNSON COUNTY RECORDER'S OFFICE. 1331.66 2663.31 FOREVERGREEN ROAD N88'57'44"E EAST QUARTER CORNER | OF | SECTION 23-T80N-R7W OF THE FIFTH P.M. FOUND CUT "X" BOOK 55 AT PAGE 188

# ZONING EXHIBIT AUDITOR'S PARCEL 2017115 NORTH LIBERTY, JOHNSON COUNTY, IOWA

PLAT PREPARED BY:
MMS CONSULTANTS INC.
1917 S. GILBERT STREET
IOWA CITY, IA 52240

ZONING PARCEL ID TO RS-6

OWNER/SUBDIVIDER:
HODGE CONSTRUCTION COMPANY
711 S. GILBERT STREET
IOWA CITY, IA 52240

acres (941,978 square feet), and is subject to easements and restrictions of record.

Beginning at the Northwest Corner of Auditor's Parcel 2017115 in North Liberty, lowa, in accordance with the

Plat thereof Recorded in Plat Book 61 at Page 274 of the Records of the Johnson County Recorder's Office;

Northeast Corner thereof; Thence S00'46'27"E, along the East line of the Northeast Corner of said Auditor's

Thence S00'46'17'E along the West line of said Mickelson First Addition, a distance of 633.86 feet; Thence S89'16'29"W, 395.55 feet, to a point on the West line of said Auditor's Parcel; Thence N00'43'53"W along the

West line of said Auditor's Parcel, 1,292.63 feet, to the Point of Beginning. Said Zoning Parcel contains 21.62

Thence N88'28'17"E along the North line of said Auditor's Parcel 2017115, a distance of 1,329.77 feet, to the

Parcel, 66.00 feet; Thence S88'28'17"W, along said East line, 323.35 feet; Thence, S00'46'17"E, along said East line, 606.39 feet, to the Northeasterly Corner of Mickelson First Addition, North Liberty, Iowa; Thence

S89'13'43"W, along the North line of said Mickelson First Addition, 611.70 feet, to the Northwest Corner thereof;

OWNER'S ATTORNEY: TIMOTHY J. KRUMM 122 S. LINN STREET IOWA CITY, IA 52240

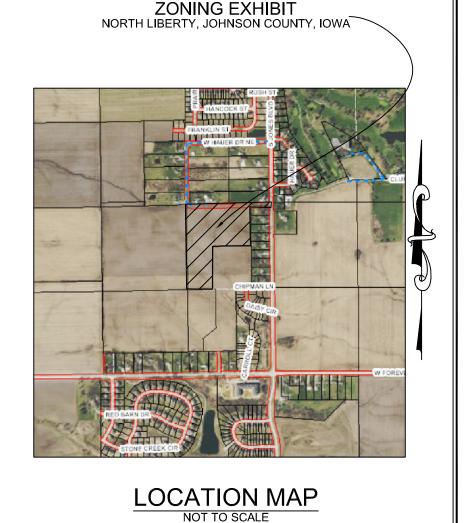


LAND PLANNERS
LAND SURVEYORS
LANDSCAPE ARCHITECTS
ENVIRONMENTAL SPECIALISTS

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

Date Revision

**ZONING EXHIBIT** 



LEGEND	AND NOTES
<u>♠</u>	<ul> <li>CONGRESSIONAL CORNER, FOUND</li> <li>CONGRESSIONAL CORNER, REESTABLISHED</li> <li>CONGRESSIONAL CORNER, RECORDED LOCATION</li> <li>PROPERTY CORNER(S), FOUND (as noted)</li> <li>PROPERTY CORNERS SET         <ul> <li>(5/8" Iron Pin w/ yellow, plastic LS Cap</li> <li>embossed with "MMS" )</li> </ul> </li> </ul>
<u> </u>	- CUT "X" - PROPERTY &/or BOUNDARY LINES - CONGRESSIONAL SECTION LINES - RIGHT-OF-WAY LINES - CENTER LINES - LOT LINES, INTERNAL - LOT LINES, PLATTED OR BY DEED - EASEMENT LINES, WIDTH & PURPOSE NOTED
(R) (M) C22-1 UNLESS NOTED OTHERWISE, ALL	EXISTING EASEMENT LINES, PURPOSE NOTED

A PORTION OF AUDITOR'S PARCEL 2017115 NORTH LIBERTY

JOHNSON COUNTY IOWA

### MMS CONSULTANTS, INC.

Date:		02/01/18
Designed by:	PAV	Field Book No:
Drawn by:		Scale:
	CAK	1"=200'
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1296-2	233	of 1



#### **NORTH LIBERTY PLANNING COMMISSION**

# Minutes February 6, 2018 City Council Chambers, 1 Quail Creek Circle

#### Roll Call

Chair Ronda Detlefsen called the February 6, 2018 Planning Commission meeting to order at 6:30 pm. Commissioners present: Ronda Detlefsen, Adam Gebhart, Jason Heisler, Becky Keogh, Kylie Pentecost and Patrick Staber. Absent: Bleil.

Others present: Dean Wheatley, Carter Kurdlre, Mary Byers, Neil Trott, Duane Van Hemert, Evan Runkle and other interested parties.

#### **Agenda Approval**

Gebhart moved, seconded by Pentecost, to approve the agenda. The vote was all ayes. Agenda was approved.

#### **Iowa City Community School District Site Plan**

Wheatley presented the request from Iowa City Community School District to approve the Site Plan for the new Grant Elementary School. Staff recommended approval.

#### Applicants Presentation

Duane Van Hemert, Iowa City Community School District, was present on behalf of the applicant and offered to answer questions.

#### **Public Comments**

No public comment was offered.

#### **Questions and Comments**

There was discussion on traffic issues with the new school during certain times of the day. Staff feels that with the purposed improvement to this area and the site being served with the City's trail and sidewalks systems that there should be good pedestrian and vehicular traffic flow.

#### Recommendation to the City Council

Staber moved, seconded by Keogh to recommend to the City Council approval of the site plan. The vote was: ayes—Detlefsen, Gebhart, Heisler, Keogh, Pentecost, Staber; nays—none; absent: Bleil. Motion carried.

## <u>Lot 8 Golfview Commercial Development Site Plan</u> Staff Presentation

Wheatley presented the request of Neil Trott for a multi-user building, Staff recommends approval.

Recommendation to the City Council

Staber moved, seconded by Gebhart, to recommend approval of the Site Plan. The vote was: ayes--Pentecost, Staber, Keogh, Detlefsen, Heisler, Gebhart; nays-none; absent: Bleil. Motion carried.

#### Approval of previous Minutes

Gebhart moved, seconded by Heisler, to approve the Minutes of December 5, 2017 Commission meeting. The vote was all ayes. Minutes were approved.

#### Old Business

No old business was presented.

#### **New Business**

Wheatley reported that there are no new cases for March.

#### Adjournment

Keogh moved, seconded by Staber, to adjourn the meeting at 7:25 p.m. The vote was all ayes and the meeting was adjourned.

Mary Byers,	Deputy City Clerk