

Madison, Wisconsin

# CITY OF MADISON

## CITY ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS

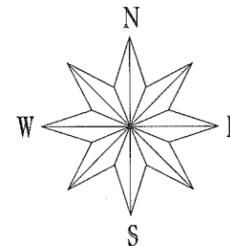
# PLAN OF PROPOSED IMPROVEMENT

## UNIVERSITY RESEARCH PARK – SCIENCE DRIVE

### STORM SEWER

### UTILITIES ONLY

CITY PROJECT NO. 11733  
CITY CONTRACT NO. 8025  
MUNIS NO. 11733



## CONSTRUCTION PROJECT LOCATION

#### INDEX OF SHEETS

| SHEET NO. | TITLE                      |
|-----------|----------------------------|
| 1         |                            |
| C202      | STORM SEWER PLAN & PROFILE |

PUBLIC IMPROVEMENT PROJECT  
APPROVED

AUGUST 1, 2017

BY THE COMMON COUNCIL  
OF MADISON, WISCONSIN

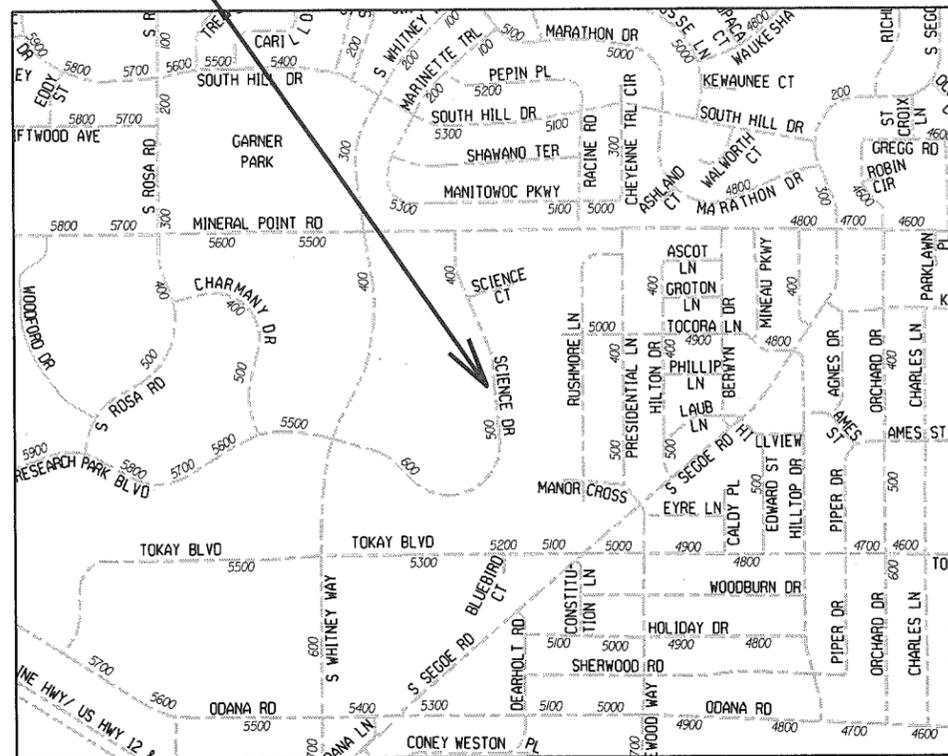
PUBLIC IMPROVEMENT DESIGN  
APPROVED BY:

 9/28/17  
City Engineer Date

STORM SEWER  
DESIGNED BY:

SEE C202 SHEET

| CONVENTIONAL SIGNS                                |   |
|---|---|
| FIELD VERIFY ALL UTILITY LOCATIONS                |   |
| GAS   | — G —   |
| STORM SEWER                                       | — ST —  |
| SANITARY SEWER                                    | — SAN —   |
| WATER   | — W —   |
| OVERHEAD ELECTRIC                                 | — OH —  |
| POWER POLE  | ⊕   |
| ADA COMPLIANT RAMP W/<br>DETECTABLE WARNING FIELD |  |
| COMBUSTIBLE FLUIDS                                |  |



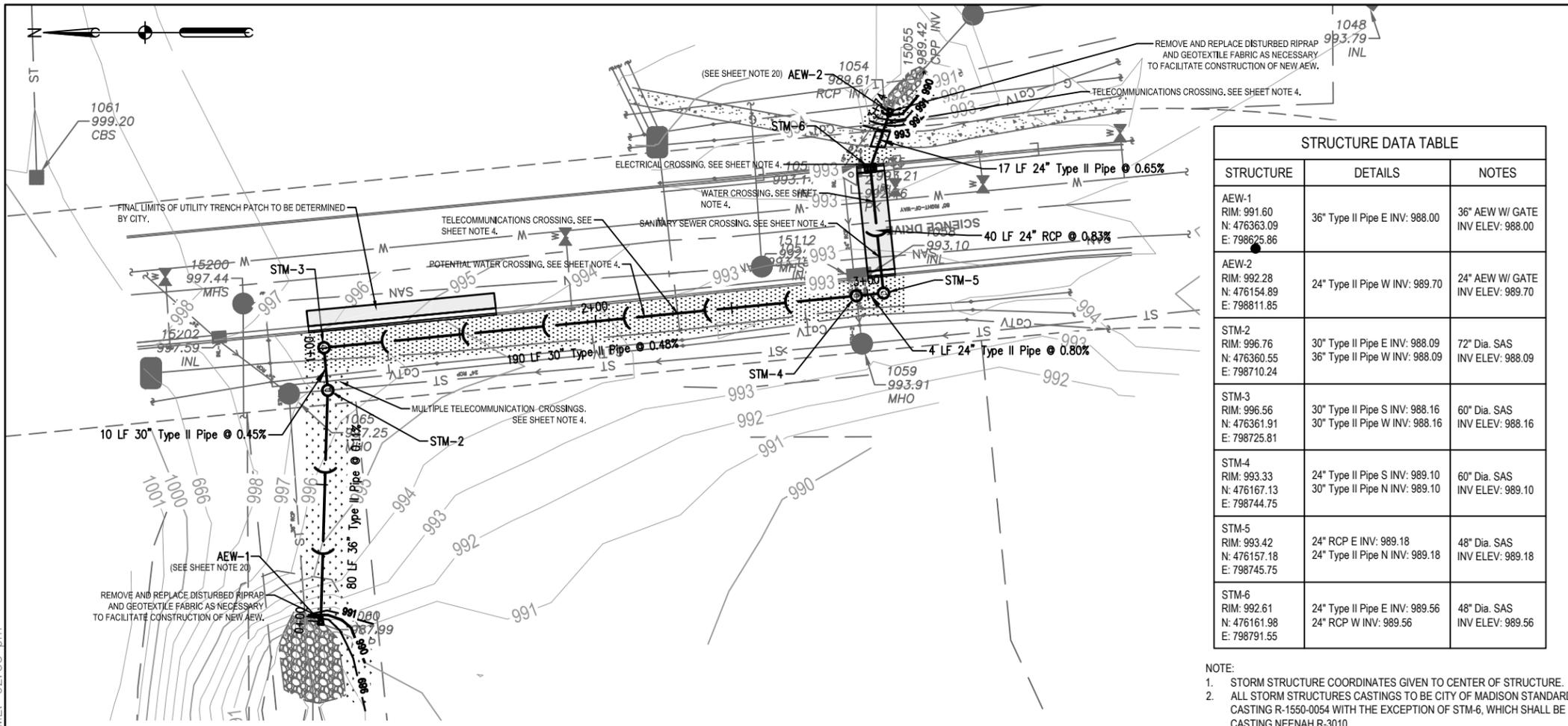
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREET'S DIVISION

FILE:P:\24428.013\CAD\111x17\24428-C-202.dwg USER:chorsley DATE:Sep. 20 2017 TIME: 02:35 pm

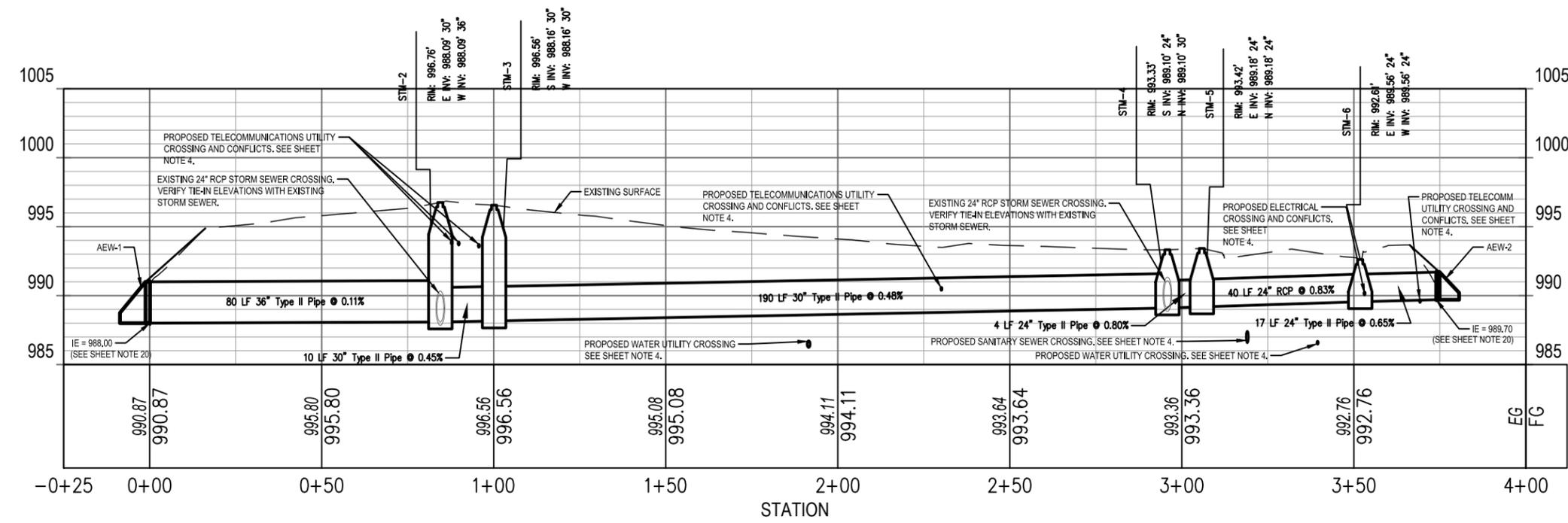


| STRUCTURE DATA TABLE                                 |  |                                     |
|--|--|-------------------------------------|
| STRUCTURE  | DETAILS  | NOTES                               |
| AEW-1<br>RIM: 991.60<br>N: 476363.09<br>E: 798625.86 | 36" Type II Pipe E INV: 988.00                                   | 36" AEW W/ GATE<br>INV ELEV: 988.00 |
| AEW-2<br>RIM: 992.28<br>N: 476154.89<br>E: 798811.85 | 24" Type II Pipe W INV: 989.70                                   | 24" AEW W/ GATE<br>INV ELEV: 989.70 |
| STM-2<br>RIM: 996.76<br>N: 476360.55<br>E: 798710.24 | 30" Type II Pipe E INV: 988.09<br>36" Type II Pipe W INV: 988.09 | 72" Dia. SAS<br>INV ELEV: 988.09    |
| STM-3<br>RIM: 996.56<br>N: 476361.91<br>E: 798725.81 | 30" Type II Pipe S INV: 988.16<br>30" Type II Pipe W INV: 988.16 | 60" Dia. SAS<br>INV ELEV: 988.16    |
| STM-4<br>RIM: 993.33<br>N: 476167.13<br>E: 798744.75 | 24" Type II Pipe S INV: 989.10<br>30" Type II Pipe N INV: 989.10 | 60" Dia. SAS<br>INV ELEV: 989.10    |
| STM-5<br>RIM: 993.42<br>N: 476157.18<br>E: 798745.75 | 24" RCP E INV: 989.18<br>24" Type II Pipe N INV: 989.18          | 48" Dia. SAS<br>INV ELEV: 989.18    |
| STM-6<br>RIM: 992.61<br>N: 476161.98<br>E: 798791.55 | 24" Type II Pipe E INV: 989.56<br>24" RCP W INV: 989.56          | 48" Dia. SAS<br>INV ELEV: 989.56    |

- NOTE:
- STORM STRUCTURE COORDINATES GIVEN TO CENTER OF STRUCTURE.
  - ALL STORM STRUCTURES CASTINGS TO BE CITY OF MADISON STANDARD CASTING R-1550-0054 WITH THE EXCEPTION OF STM-6, WHICH SHALL BE CASTING NEENAH R-3010.
  - FOR APRON ENDWALLS, SEE CITY SDD 5.6.1.

SCALE: 1" = 20'

1 SCIENCE DRIVE STORM PLAN



2 SCIENCE DRIVE STORM PROFILE

HORIZ SCALE: 1" = 40'  
VERT SCALE: 1" = 10'

SHEET NOTES

- PRIOR TO START OF PROJECT WORK, CONTRACTOR TO VERIFY ALL SITE CONDITIONS. PRESENT THE WORK PLAN AT THE OWNER'S PRE-CONSTRUCTION MEETING. DO NOT BEGIN PRIOR TO THE 'PRE-CONSTRUCTION MEETING' AND WRITTEN AUTHORIZATION TO PROCEED IS ISSUED BY THE OWNER.
- PRIOR TO THE COMMENCEMENT OF WORK, VERIFY LOCATIONS AND DEPTHS OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY CONSTRUCTION AND TAKE RESPONSIBILITY FOR DAMAGES TO SUCH UTILITIES CAUSED AS A RESULT OF CONSTRUCTION.
- CONTRACTOR TO POT-HOLE EXISTING UTILITIES AT PROPOSED STORM SEWER CROSSINGS TO ENSURE CONFLICTS ARE MITIGATED. WHEREIN INSTANCES OF SERVICE DISRUPTIONS ARE ANTICIPATED. CONTRACTORS ARE TO NOTIFY THE APPROPRIATE UTILITIES BEFORE CONSTRUCTION. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR STORM SEWER CONSTRUCTION.
- CONNECTIONS TO EXISTING STORM SEWERS ARE TO BE CONSTRUCTED AT THE INVERT OF ELEVATION OF THE EXISTING STORM SEWER PIPE AS OBSERVED IN THE FIELD. CONSULT THE CIVIL ENGINEER IF INVERT ELEVATIONS OBSERVED IN THE FIELD ARE GREATER OR LESS THAN 0.1' AS SHOWN ON PLANS.
- TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION, INCLUDING DAMAGES TO UTILITIES, WALKS, WALLS, DRIVES, CURBS, ETC.
- SECURE ALL NECESSARY PERMITS AND NOTIFY ALL UTILITY COMPANIES WITH UTILITIES ON THE SITE PRIOR TO THE CONSTRUCTION OF THE PROJECT. ADHERE TO ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS OR REGULATIONS PERTAINING TO THE PROJECT.
- USE DIMENSIONS SHOWN ON DRAWINGS FOR LAYOUT OF THE WORK. DO NOT USE SCALE DIMENSIONS FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
- REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT SHOWN ON DRAWINGS.
- DETAILS NOTED AS TYPICAL SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT.
- TAKE NOTE OF ALL GRADING AND DRAINAGE WAYS AND MAINTAIN THESE DRAIN WAYS FLOWS FREE OF OBSTRUCTIONS.
- ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- COORDINATE WORK OF SUBCONTRACTORS AND ALL OTHER CONTRACTORS TO ENSURE ORDERLY AND EFFICIENT COMPLETIONS OF ALL WORK.
- SHADE TERRACE SEED MIX TO BE IN ACCORDANCE WITH SECTION 207.2(a) OF THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- TALL GRASS PRAIRIE SEED MIX TO BE IN ACCORDANCE WITH WISDOT 70 SEED MIXTURE.
- EROSION CONTROL MATTING TO BE PLACED OVERTOP AREAS REQUIRING TALL GRASS PRAIRIE SEED MIXTURES.
- FOR SAS STRUCTURES CONNECTING TO EXISTING STORM SEWERS, BOTTOM SAS SECTION SHALL BE "DOGHOUSE" TYPE FOR CONNECTION TO EXISTING STORM SEWERS. ASSOCIATED COSTS, INCLUDING CONNECTION AND EXISTING PIPE REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR SAS.
- IF CONTRACTOR USES PLASTIC PIPE, CONCRETE ENDWALL SHALL BE JOINT TIED TO (1) PIPE LENGTH OF RCP USING WDOT PIPE TIES AND THE TRANSITIONED TO HDPE USING MACWRAP JOINT CONNECTOR TO CONNECT RCP AND HDPE PIPE. IF CONTRACTOR CHOOSES TO USE ALL RCP, THE LAST 3 JOINTS SHALL BE CONNECTED USING WDOT PIPE TIES. COST ASSOCIATED WITH HDPE-RCP CONNECTION TO BE INCLUDED IN APRON END WALL UNIT PRICING.
- SIDEWALK AND LANE CLOSURE DETAILS, SEE CITY SDD 6.36 AND 6.33.

LEGEND

- UTILITY TRENCH PATCH, TYPE III (SEE CITY SDD 5.2.4)
- 5" CONCRETE SIDEWALK OVER 6" DENSE GRADED BASE
- SHADE TERRACE SEED MIX
- TALL GRASS PRAIRIE SEED MIX
- CURB AND GUTTER, TYPE A (SEE CITY SDD 3.06)
- 865 PROPOSED MINOR CONTOUR
- 864 PROPOSED MAJOR CONTOUR
- EXISTING GRADE - PROFILE ELEVATION
- PROPOSED GRADE - PROFILE ELEVATION
- PROPOSED STORM SEWER
- STORM STRUCTURE
- APRON END WALL
- CURB INLET



SMITHGROUP JJR

44 EAST MIFFLIN STREET  
SUITE 500  
MADISON, WI 53703  
608.251.1177  
www.smithgroupjir.com



SCIENCE DRIVE  
STORM SEWER  
IMPROVEMENTS  
MADISON, WISCONSIN

Owner:  
UNIVERSITY RESEARCH  
PARK  
SCIENCE DR STORM #11733 (CONTRACT #8025)

Storm Sewer Plan & Profile  
DRAWING TITLE

CITY COMMENTS  
ISSUED WITH

DRAWING REFERENCE

DRAWING SCALE

8-25-17  
DATE  
SCIENCE DRIVE STORM  
SEWER IMPROVEMENTS  
PROJECT NAME

24428.013  
PROJECT NUMBER

C202  
DRAWING NUMBER