CITY OF MADISON

Revised 2-17-2023

CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
PLAN OF PROPOSED IMPROVEMENT

HAWKS LANDING NORTH FLOOD MITIGATION

CITY PROJECT NO. 11704

CONTRACT NO. 9432

PUBLIC IMPROVEMENT PROJECT APPROVED

APPROVED DATE: 9/7/2022

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

Greg Fries Oct 7, 2022

City Engineer

DESIGN ENGINEER SIGNATURE AND SEAL:

WISCONSIN
ERIC J. THOMPSON
E-35781
MADISON
WI
PROFESSIONAL ENGINEER
OCTOBER 7, 2022

Engineer

UTILITIES

GAS:

MADISON GAS & ELECTRIC COMPANY
133 S. BLAIR STREET
MADISON, WI 53701
CONTACT: SHAUN ENDRES
(608) 252-7224
SENDRES@MGE.COM

ELECTRIC:

ALLIANT ENERGY
2147 COUNTY HIGHWAY PB
VERONA, WI 53593
CONTACT: CHRIS GILL
(608) 290-1772
CHRISGILL@ALLIANTENERGY.COM

CITY ELECTRIC:

CITY OF MADISON - TRAFFIC ENGINEERING
MADISON MUNICIPAL BUILDING, SUITE 109
215 MARTIN LUTHER KING JR BLVD
MADISON, WI 53703
CONTACT: TIM STELLA
(608) 266-6525
TSTELLA@CITYOFMADISON.COM

SANITARY SEWER:

CITY OF MADISON - ENGINEERING
CITY - COUNTY BUILDING, ROOM 115
210 MARTIN LUTHER KING JR. BLVD.
MADISON, WI 53703
CONTACT: MARK MODER, P.E.
(608) 261-9250
MMODER@CITYOFMADISON.COM

WATERMAIN:

CITY OF MADISON
119 E. OLIN AVENUE
MADISON, WI 53713
CONTACT: JEFF BELSHAW
(608) 206-3856
JBELSHAW@MADISONWATER.ORG
AFTER HOURS EMERGENCY: (608) 266-4665

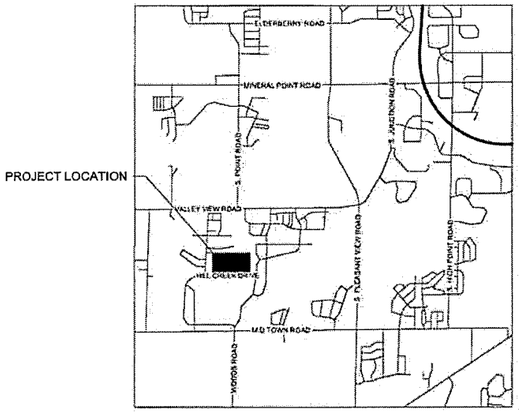
STORM SEWER:

CITY OF MADISON
CITY - COUNTY BUILDING, ROOM 115
210 MARTIN LUTHER KING JR. BOULEVARD
MADISON, WI 53703
CONTACT: JANET SCHMIDT
(608) 261-9688
JSCHMIDT@CITY OF MADISON.COM

TELEPHONE & CATV:

TDS TELECOM
525 JUNCTION ROAD
MADISON, WI 53717
CONTACT: JERRY MYERS
O: (608) 664-4404 C: (608) 297-7104
JERRY.MYERS@TDSTELECOM.COM

CHARTER COMMUNICATIONS
2701 DANIELS STREET
MADISON, WI 53718
CONTACT: ANDY WIETECKA
ANDY.WIETECKA@CHARTER.COM



LOCATION MAP

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SCH 1	STORM SEWER SCHEDULE
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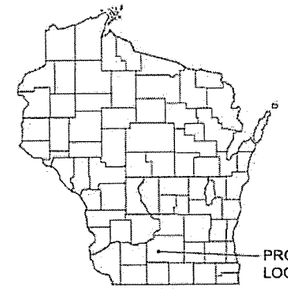
LEGEND

- EXISTING WATER MAIN
- EXISTING WATER MAIN, VALVE & HYDRANT
- EXISTING WATER SERVICE & CURB STOP
- PROPOSED WATER MAIN, VALVE, & HYDRANT
- PROPOSED WATER SERVICE & CURB STOP
- EXISTING SANITARY SEWER & MANHOLE
- PROPOSED SANITARY SEWER & MANHOLE
- EXISTING FORCEMAIN
- EXISTING STORM SEWER & INLET
- PROPOSED STORM SEWER & INLET
- PROPOSED STORM SEWER & MANHOLE
- BURIED ELECTRIC
- BURIED GAS & VALVE
- BURIED CABLE TELEVISION
- BURIED TELEPHONE
- BURIED FIBER OPTICS
- OVERHEAD UTILITY
- RAILROAD TRACKS
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- EXISTING SIDEWALK
- PROPOSED SIDEWALK
- EXISTING CULVERT PIPE
- PROPOSED CULVERT PIPE
- FENCE LINE
- DRAINAGE ARROW
- SILT FENCE
- RIGHT-OF-WAY
- BASELINE
- PROPERTY LINE
- TREE LINE
- BENCHMARK
- IRON PIPE
- IRON ROD
- CONTROL POINT
- UTILITY POLE & GUY
- SOIL BORING
- LIGHT POLE
- PEDESTAL
- STREET SIGN
- MAILBOX
- FLAGPOLE
- TREE - DECIDUOUS
- TREE - CONIFEROUS
- TREE TO BE REMOVED



DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

NOTE:
UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND CONTRACTOR SHALL HAVE APPROPRIATE UTILITY MARK EXACT LOCATIONS PRIOR TO CONSTRUCTION.

		NO.	DATE	REVISION	BY
PROJECT DATE:	DRAWN BY: MH	-	-	-	-
	DESIGNED BY: Init	-	-	-	-
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PLOT DATE: 10/6/2022 10:27 AM, P:\370\3\F3\00373079\PCADD\C3D\2021\Plan Sheets\00373079 Title and Detail Sheets.dwg

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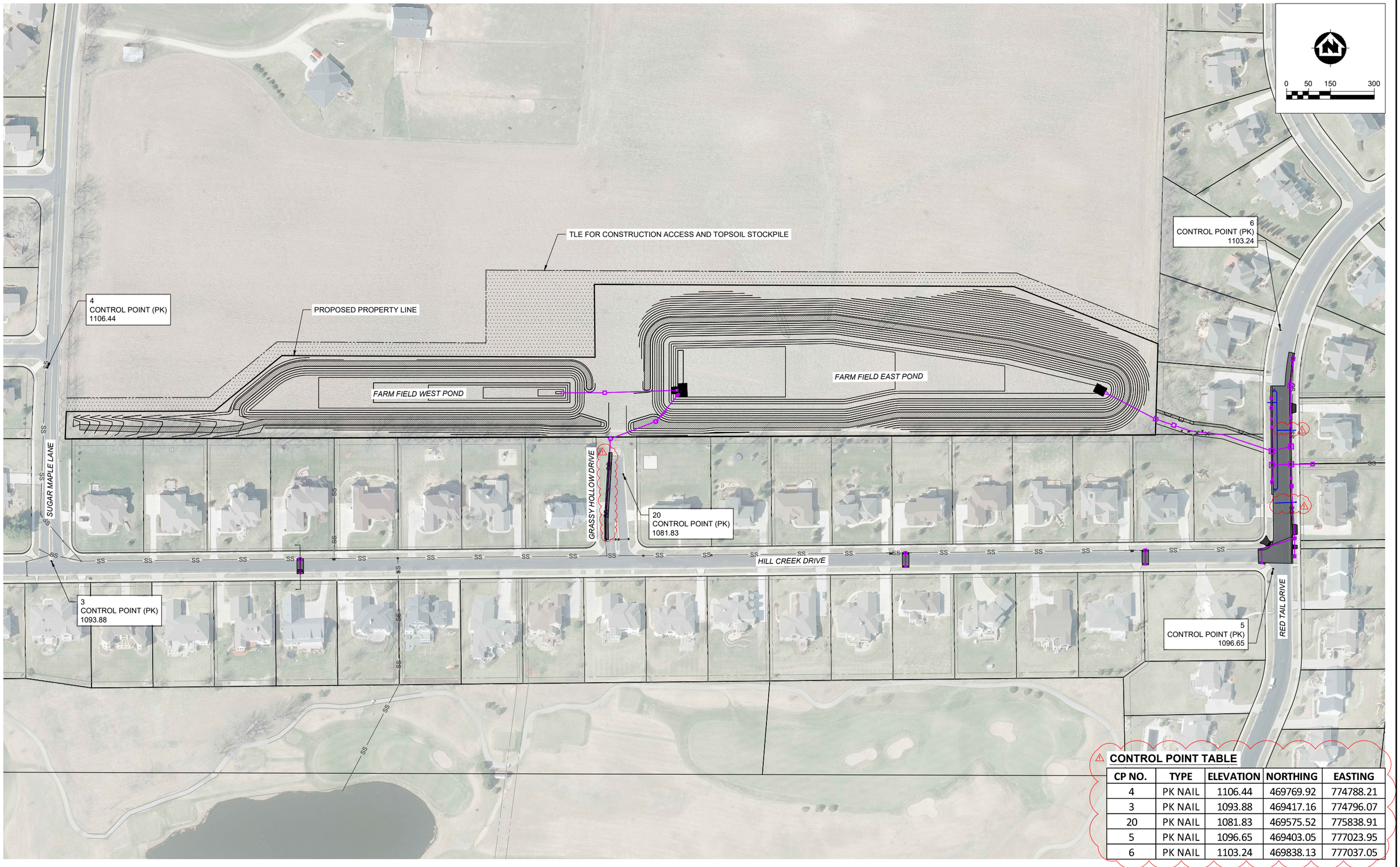
TITLE SHEET

PROJECT NO 00373079
SHEET G 1



CONTROL POINT TABLE

CP NO.	TYPE	ELEVATION	NORTHING	EASTING
4	PK NAIL	1106.44	469769.92	774788.21
3	PK NAIL	1093.88	469417.16	774796.07
20	PK NAIL	1081.83	469575.52	775838.91
5	PK NAIL	1096.65	469403.05	777023.95
6	PK NAIL	1103.24	469838.13	777037.05

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PROJECT DATE: .	DRAWN BY: Init	1	02/09/2023	CONSTRUCTION BULLETIN 1	JM
	DESIGNED BY: Init	.	.	.	.
	CHECKED BY: Init	.	.	.	.

PLOT DATE: 2/16/2023 9:44 AM, P:\370s\373\00373079\CADD\C3D\2021\Plan Sheets\00373079 Overview Sheet.dwg

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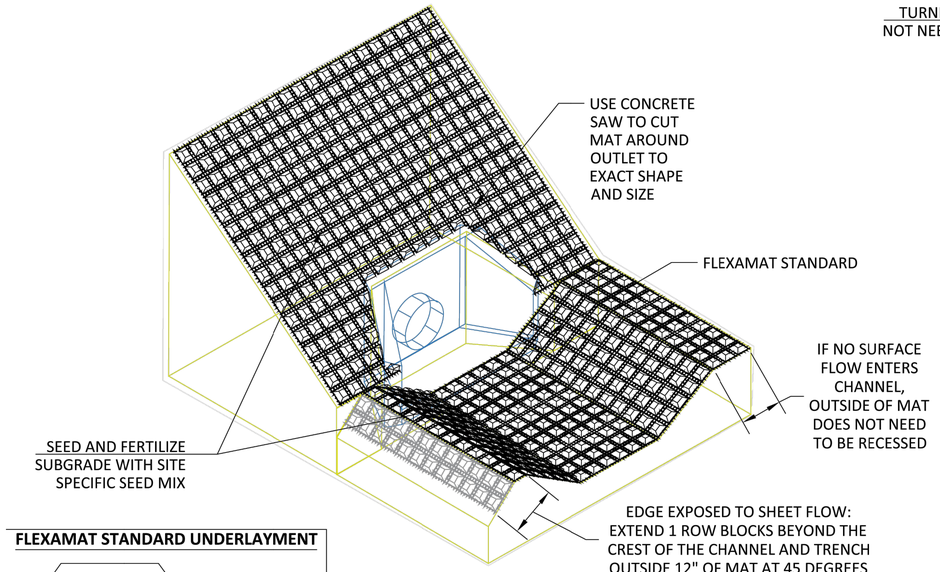
HAWKS LANDING NORTH FLOOD MITIGATION
CITY OF MADISON
DANE COUNTY, WISCONSIN

PROJECT OVERVIEW

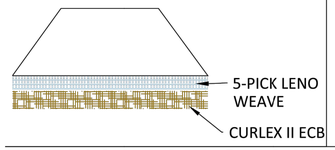
PROJECT NO. 00373079
SHEET G 2

1. SECTION NR216.46 OF WISCONSIN STATE ADMINISTRATIVE CODE IDENTIFIES REQUIREMENTS FOR CONSTRUCTION SITE AND POST-CONSTRUCTION EROSION CONTROL. IT IS THE INTENT OF THESE PLANS TO SATISFY THESE REQUIREMENTS. THE METHODS AND STRUCTURES USED TO CONTROL EROSION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL IMPLEMENT AN APPROPRIATE MEANS OF CONTROLLING EROSION DURING SITE OPERATION AND UNTIL THE VEGETATION IS RE-ESTABLISHED. ADJUSTMENTS TO THE CONTROL SYSTEM SHALL BE MADE AS REQUIRED.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE WISCONSIN DNR'S CONSERVATION PRACTICE STANDARDS. THESE STANDARDS ARE PERIODICALLY UPDATED AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND REFERENCE THE MOST RECENTLY RELEASED STANDARD.
3. THIS INFORMATION IS ONLY ONE PART OF THE OVERALL EROSION CONTROL REQUIREMENTS. ADDITIONAL REQUIREMENTS MAY ALSO BE SHOWN ON THE CONTRACT DRAWINGS AND IN THE ACCOMPANYING SPECIFICATIONS.
4. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE OWNER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.
5. THE AREA OF EROSIVE LAND EXPOSED TO THE ELEMENTS BY GRUBBING, EXCAVATION, TRENCHING, BORROW AND FILL OPERATIONS AT ANY ONE TIME SHALL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE. FOR ANY DISTURBED AREA THAT REMAINS INACTIVE FOR GREATER THAN 7 WORKING DAYS, OR WHERE GRADING WORK EXTENDS BEYOND THE PERMANENT SEEDING DEADLINES, THE SITE MUST BE TREATED WITH TEMPORARY STABILIZATION MEASURES SUCH AS SOIL TREATMENT, TEMPORARY SEEDING AND/OR MULCHING. ALL DISTURBED AREAS SHALL BE TREATED WITH PERMANENT STABILIZATION MEASURES WITHIN 3 WORKING DAYS OF FINAL GRADING.
6. ALL EROSION CONTROL MEASURES AND STRUCTURES SERVING THE SITE MUST BE INSPECTED AT LEAST WEEKLY OR WITHIN 24 HOURS OF THE TIME 0.5 INCHES OF RAIN HAS OCCURRED. ALL NECESSARY REPAIR AND MAINTENANCE WILL BE DONE AT THIS INSPECTION TIME.
7. ALL EROSION CONTROL DEVICES AND/OR STRUCTURES SHALL BE PROPERLY INSTALLED PRIOR TO CLEARING AND GRUBBING OPERATIONS WITHIN THEIR RESPECTIVE DRAINAGE AREAS. THESE SHALL BE PROPERLY MAINTAINED FOR MAXIMUM EFFECTIVENESS UNTIL VEGETATION IS RE-ESTABLISHED.
8. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY INSTALLED PRIOR TO ANY SOIL DISTURBANCE.
9. ANY SLOPES STEEPER THAN 3H:1V SHALL BE STAKED WITH EROSION CONTROL FABRIC UNLESS INDICATED ON THE PLAN.
10. ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS, OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED OFF-SITE BY RUNOFF OR WIND.
11. WIND EROSION SHALL BE KEPT TO A MINIMUM DURING CONSTRUCTION. WATERING, MULCH, OR A TACKING AGENT MAY BE REQUIRED TO PROTECT NEARBY RESIDENCES AND WATER RESOURCES.
12. CHANNELIZED RUNOFF ENTERING THE PROJECT SITE FROM ADJOINING LANDS SHALL BE DIVERTED THROUGH NATURALLY OR ARTIFICIALLY EROSION-RESISTANT CONVEYANCES. IF CHANNELIZED RUNOFF CANNOT BE DIVERTED, SITE BEST MANAGEMENT PRACTICES MUST ACCOUNT FOR THE ADDITIONAL FLOW RATES AND EROSION POTENTIAL THAT SUCH RUNOFF PRESENTS.
13. THE CONTRACTOR SHALL TAKE ALL POSSIBLE PRECAUTIONS TO PREVENT SOILS FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. PAVED SURFACES ADJACENT TO CONSTRUCTION SITE VEHICLE ACCESS SHALL BE SWEPT AND/OR SCRAPED (NOT FLUSHED) PERIODICALLY TO REMOVE SOIL, DIRT, AND/OR DUST.
14. EROSION CONTROLS SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF TEMPORARY STOCKPILES. ANY SOIL STOCKPILE THAT REMAINS FOR MORE THAN 7 DAYS SHALL BE COVERED OR TREATED WITH STABILIZATION PRACTICES SUCH AS TEMPORARY OR PERMANENT SEEDING AND MULCHING. ALL STOCK PILES SHALL BE PLACED AT LEAST 75 FEET FROM STREAMS OR WETLANDS.
15. ADDITIONAL EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.) SHALL INCLUDE THE FOLLOWING:
    a. PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
    b. BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
    c. DISCHARGE OF TRENCH WATER OR DEWATERING EFFLUENT MUST BE PROPERLY TREATED TO REMOVE SEDIMENT IN ACCORDANCE WITH THE WDNR CONSERVATION PRACTICE STANDARD 1061 - DEWATERING OR A SUBSEQUENT WDNR DEWATERING STANDARD PRIOR TO DISCHARGE INTO A STORM SEWER, DITCH, DRAINAGEWAY, OR WETLAND OR LAKE.
16. ALL DRAINAGE CULVERTS, STORM DRAIN INLETS, MANHOLES, OR ANY OTHER EXISTING STRUCTURES THAT COULD BE DAMAGED BY SEDIMENTATION SHALL BE PROTECTED ACCORDING TO THE VARIOUS METHODS PROVIDED IN THE PRINTED CONSERVATION PRACTICE STANDARDS.
17. ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR STABILIZATION MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.
18. THE FIRST SIX WEEKS AFTER INITIAL STABILIZATION, ALL NEWLY SEEDED AND MULCHED AREAS SHALL WATERED WHENEVER 7 DAYS ELAPSE WITHOUT A RAIN EVENT.
19. WHEN THE DISTURBED AREA HAS BEEN STABILIZED BY PERMANENT VEGETATION OR OTHER MEANS, TEMPORARY BMP'S SUCH AS SILT FENCES, STRAW BALES, AND SEDIMENT TRAPS SHALL BE REMOVED AND THESE AREAS STABILIZED.
20. ALL TEMPORARY BEST MANAGEMENT PRACTICES SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED.
21. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITH SEED AND MULCH UNLESS OTHERWISE SPECIFIED. A MINIMUM OF FOUR INCHES OF TOPSOIL SHALL BE APPLIED TO ALL AREAS TO BE SEEDED OR SODDED.

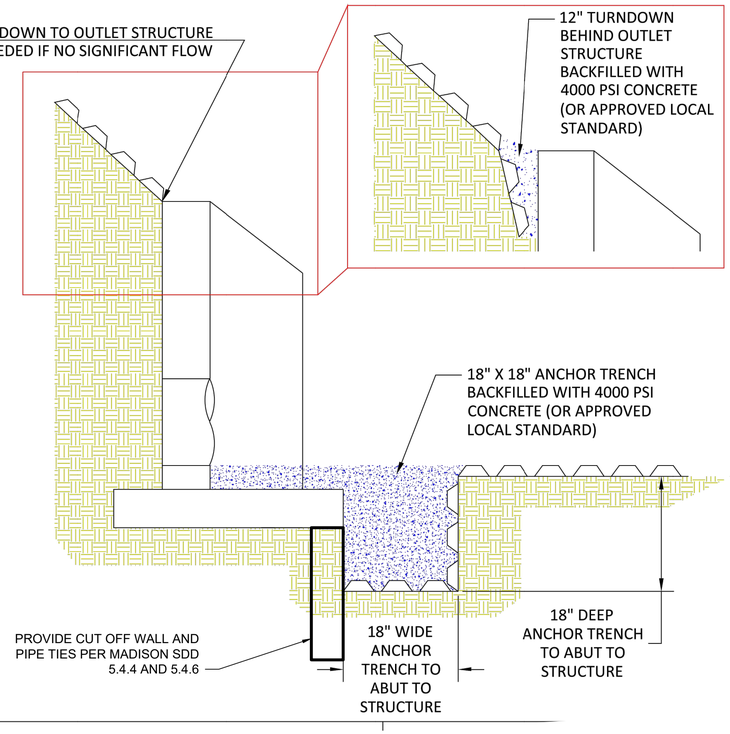
ISOMETRIC VIEW OF OUTLET AND SLOPE PROTECTION



FLEXAMAT STANDARD UNDERLAYMENT



PROFILE VIEW OF ANCHOR TRENCHES



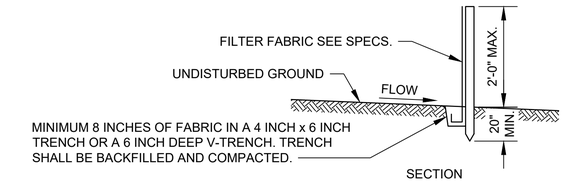
FLEXAMAT STANDARD - OUTLET ARMORING

CONSTRUCTION NOTES:

1. GRADE CHANNEL SO THAT WATER WILL FLOW DOWN CENTER OF THE CHANNEL AND BE CONTAINED TO THE CHANNEL. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND. THE PREPARED SURFACE SHALL PROVIDE A FIRM UNYIELDING FOUNDATION FOR THE MATS.
2. PRIOR TO FLEXAMAT STANDARD INSTALLATION, SEED AND FERTILIZER SUBGRADE WITH SITE SPECIFIC SEED MIX IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS.
3. INSTALL FLEXAMAT ROLLS. AVAILABLE WIDTHS ARE 4', 5.5', 8', 10', 12', AND 16' AVAILABLE IN CUSTOM LENGTHS. FOR WIDTHS WIDER THAN 16', INSTALL 15.5' WIDE MAT WITH 12" GEOGRID EXTENSION AND 6" UNDERLAYMENT EXTENSION.
    3.1. WHERE POSSIBLE AVOID LONGITUDINAL ABUTMENT SEAMS IN CHANNEL BOTTOM.
    3.2. FOR OUTLET PROTECTION WIDER THAN 16' SEE CHANNEL PARALLEL TO FLOW INSTALLATION DETAIL
    3.3. FOR OUTLET PROTECTION THAT REQUIRES MORE THAN 1 MAT IN LENGTH TO COVER CHANNEL SEE CHANNEL PARALLEL TO FLOW INSTALLATION DETAIL.
4. AT THE BEGINNING OF CHANNEL, THE INITIAL LEADING EDGE OF FLEXAMAT EXPOSED TO CONCENTRATED FLOW SHALL BE EMBEDDED 18" VERTICALLY INTO ANCHOR TRENCH. THE TRENCH SHALL BE FILLED WITH 4,000 PSI CONCRETE.
5. AT THE END OF THE ARMORED CHANNEL, EMBED THE MAT 18" IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH A COHESIVE FILL.

GUIDANCE TABLE FOR STORMWATER OUTFALL PROTECTION

PIPE DIAMETER		FLEXAMAT WIDTH	FLEXAMAT LENGTH (*MIN)
12"	8 CFS	5.5'	5'
18"	20 CFS	8'	8'
24"	30 CFS	8'	10'
36"	75 CFS	12'	16'
48"	100 CFS	16'	20'
60"	150 CFS	20'	25'



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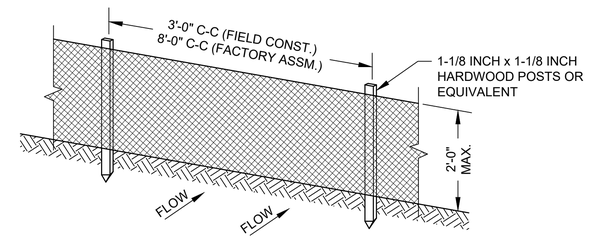

PERSPECTIVE VIEW

GENERAL NOTES:

1. ENDS OF FENCE SHALL BE TURNED UPSLOPE 1 TO 2 FEET IN ELEVATION TO PREVENT FLANKING.
2. STAPLE FABRIC WITH 1/2 INCH (MINIMUM) STAPLES TO THE UPSLOPE SIDE OF THE POSTS.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.

TYPICAL SILT FENCE INSTALLATION AT SITE PERIMETER DETAIL

NO SCALE

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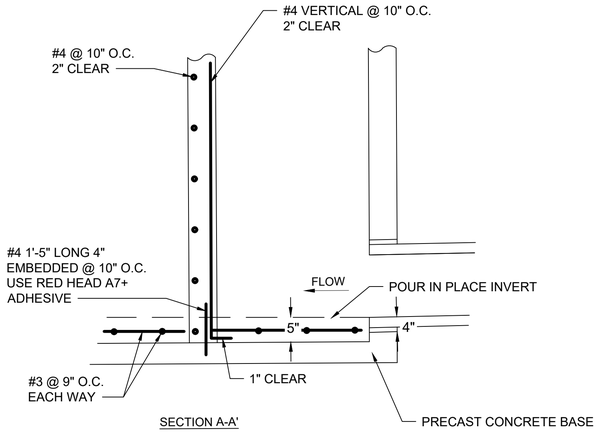
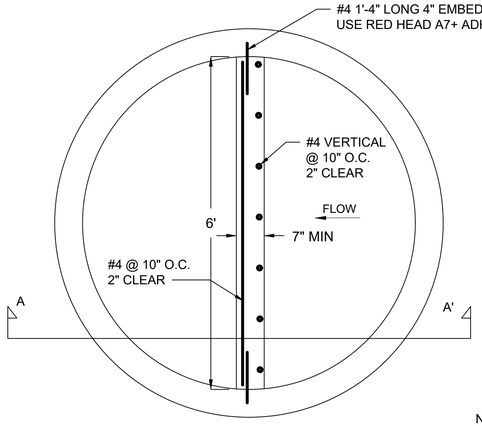
EROSION CONTROL DETAILS

PROJECT NO. 00373079
SHEET G 3



SECTION A-A'

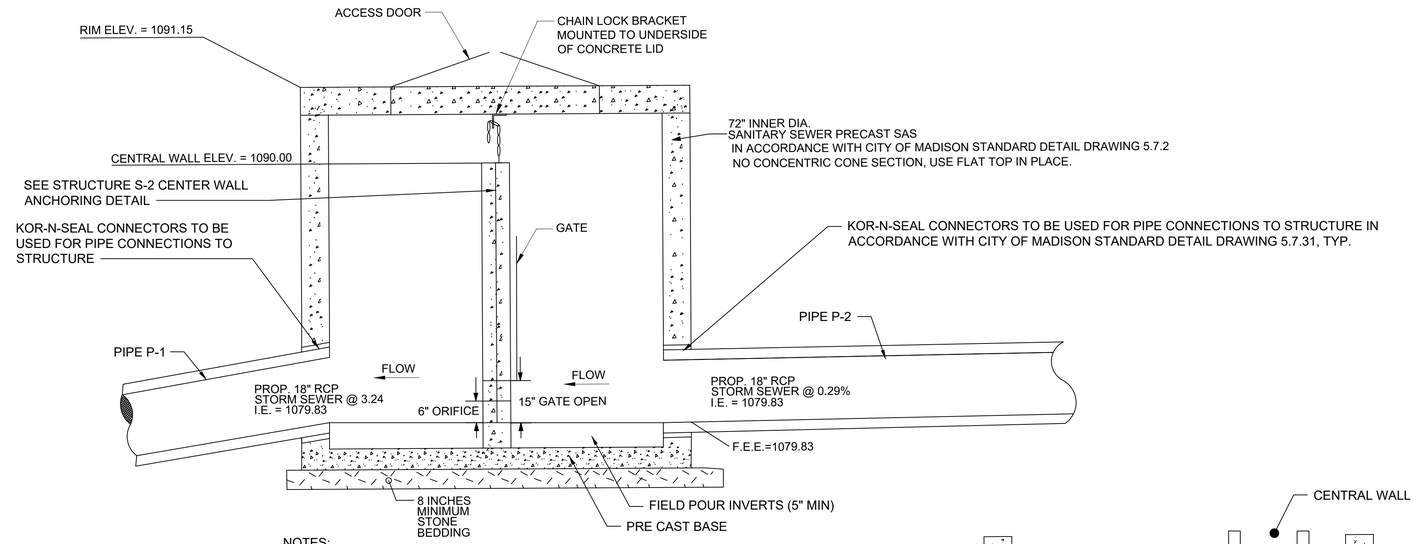


TOP VIEW

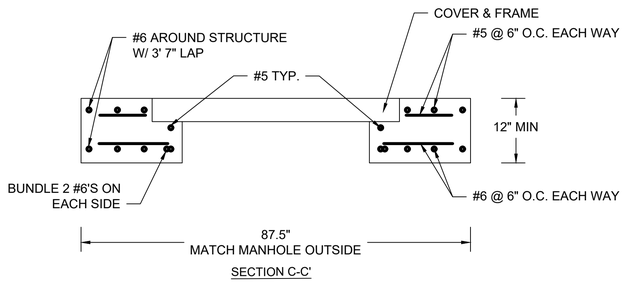
NOTES:
1. ALL BARS TO BE EPOXY COATED.
2. CONCRETE TO BE 4,000 PSI

STRUCTURE S-2 CENTER WALL ANCHORING DETAIL

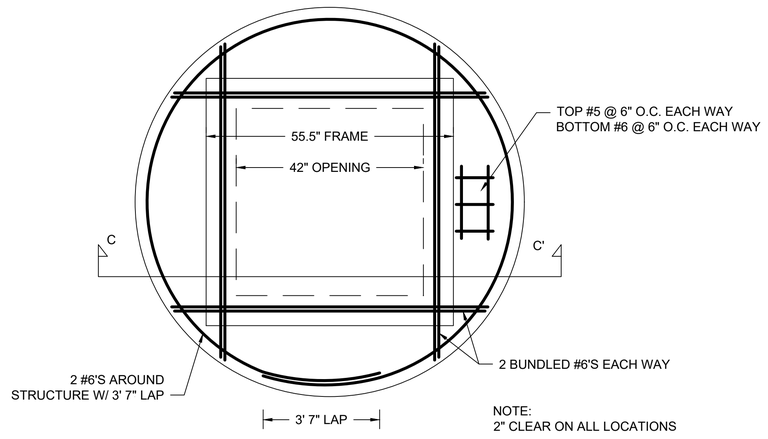
SCALE: NONE



NOTES:
GRATE TO BE HALLIDAY RETRO GRATE - SERIES X, OR APPROVED EQUAL.



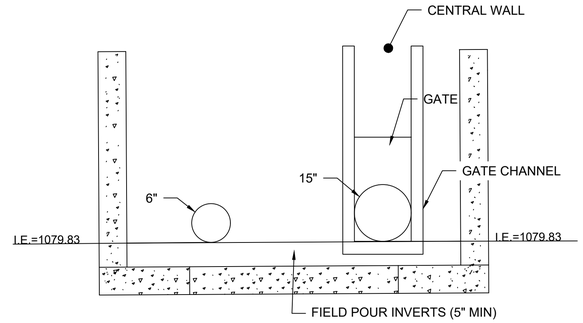
SECTION C-C'



NOTE:
2" CLEAR ON ALL LOCATIONS

STRUCTURE S-2 LID DETAIL

SCALE: NONE



PRECAST REINFORCED OUTLET CONTROL STRUCTURE S-2

SCALE: NONE

NOTE:
1. APPROVED EQUAL MAY BE SUBMITTED FOR REVIEW

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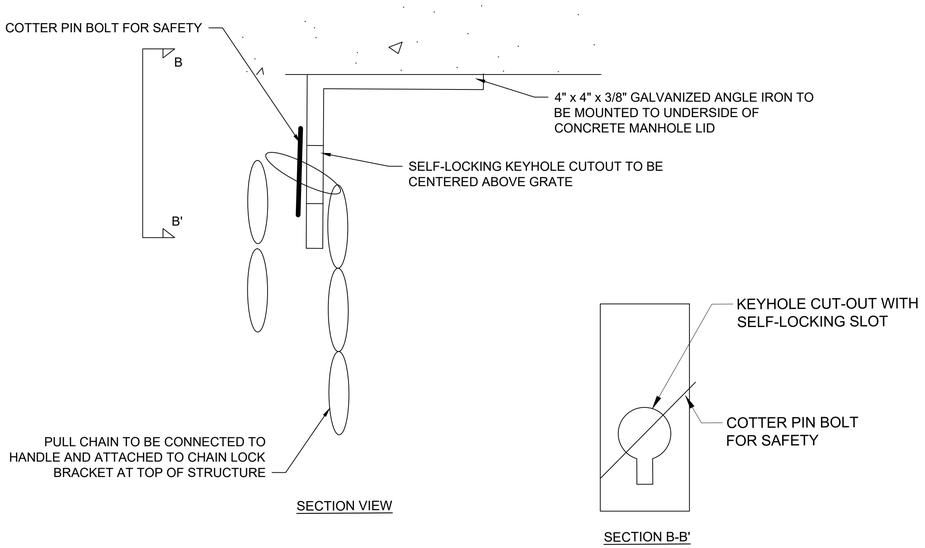
STORM SEWER OUTLET CONTROL STRUCTURE DETAILS

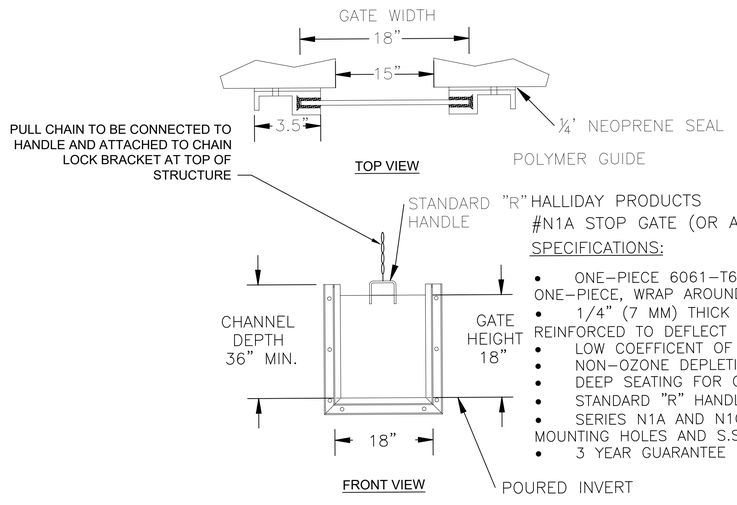
PROJECT NO. 00373079
SHEET G 4



NOTES:

1. MOUNT CHAIN LOCKING BRACKET TO BOTTOM OF CONCRETE LID WITH 4" MOUNTING SCREWS.
2. BRACKET TO BE HOT DIPPED GALVANIZED.
3. KEY HOLE TO BE MOUNTED DIRECTLY ABOUT GATE.

CHAIN LOCK BRACKET



HALLIDAY PRODUCTS
#N1A STOP GATE (OR APPROVED EQUAL)

SPECIFICATIONS:

- ONE-PIECE 6061-T6 EXTRUDED ALUMINUM FRAME ONE-PIECE, WRAP AROUND POLYMER GUIDE
- 1/4" (7 MM) THICK 6061-T6 ALUMINUM GATE REINFORCED TO DEFLECT NO MORE THAN 1/360th OF SPAN
- LOW COEFFICENT OF FRICTION
- NON-OZONE DEPLETING BITUMINOUS COATING ON FRAME
- DEEP SEATING FOR OPTIMUM TRACKING
- STANDARD "R" HANDLE OR OPTIONAL "P" HANDLE
- SERIES N1A AND N1C SUPPLIED WITH ø1/2" (13 MM) MOUNTING HOLES AND S.STL. MOUNTING HARDWARE
- 3 YEAR GUARANTEE

GATE DETAILS

STANDARD SIZES				
QTY.	MODEL NO.	A DIM. INCHES (MM)	C DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
1	H2W4242	42 (1067)	42 (1067)	223 (101)

HALLIDAY PRODUCTS
#H2W4242 ACCESS DOOR (OR APPROVED EQUAL)

SPECIFICATIONS:

- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- T-316 STAINLESS STEEL SLAM LOCK WITH REMOVABLE KEY
- STAINLESS STEEL COMPRESSION SPRING ASSIST
- DOUBLE LEAF CONSTRUCTION
- H20 LOAD RATING (SEE NOTES)
- EXTRUDED ALUMINUM CHANNEL FRAME
- RECESSED LIFTING HANDLE
- LIFETIME GUARANTEE

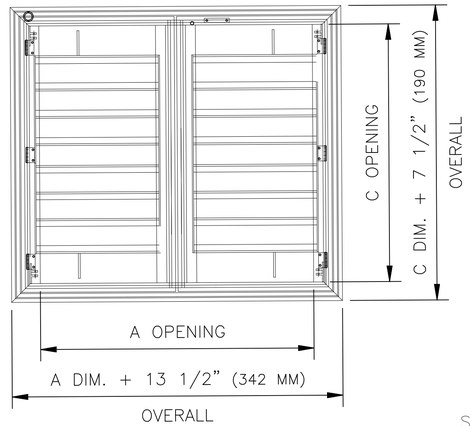
NOTES:

1) SUITABLE FOR USE IN OFF STREET LOCATION WHERE NOT SUBJECTED TO HIGH DENSITY TRAFFIC.

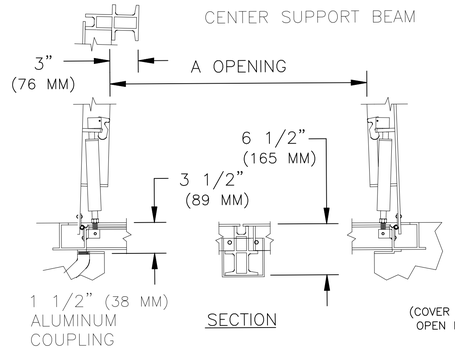
2) PROVIDE A FULL BED OF CLASS "A" CONCRETE UNDER FRAME AND SUPPORT ANGLES.

SLAM LOCK

LIFTING HANDLE



S.STL. & ALUM. POSITIVE LOCKING HOLD OPEN ARM WITH S.STL. SPRING ASSIST



1/4" (7 MM) THICK DIAMOND PATTERN ALUMINUM COVER PLATE

T-316 STAINLESS STEEL HINGES WITH TAMPER PROOF FASTENERS

PRIMER REQUIRED

T-316 STAINLESS STEEL SADDLE BOLTED TO FRAME

ACCESS DOOR DETAILS

SCALE: NONE

PRECAST REINFORCED OUTLET CONTROL STRUCTURE S-2

SCALE: NONE

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HAWKS LANDING NORTH FLOOD MITIGATION
CITY OF MADISON
DANE COUNTY, WISCONSIN

STORM SEWER OUTLET CONTROL STRUCTURE DETAILS

PROJECT NO. 00373079
SHEET G 5

RED TAIL DRIVE

0 2 4

1096.69
1096.67
1096.72
1096.73
1096.61
1096.67
1096.62
1096.72
R1'-2"
1097.08
4.5"
1097.07
1097.16
1097.21
3' - 9"
STA:201+20.79
OFF:22.83'R
ELEV:1096.80
4' - 6.75"
27 IN. TYPE II PAVEMENT STORM
STA:201+53.18
OFF:22.74'R
ELEV:1097.00
1097.24
1097.34
4.5"
5' - 7"
1097.39
1097.40

CONTRACTOR TO COORDINATE
REMOVAL & RELOCATION OF
LIGHT POLE WITH CITY & UTILITY

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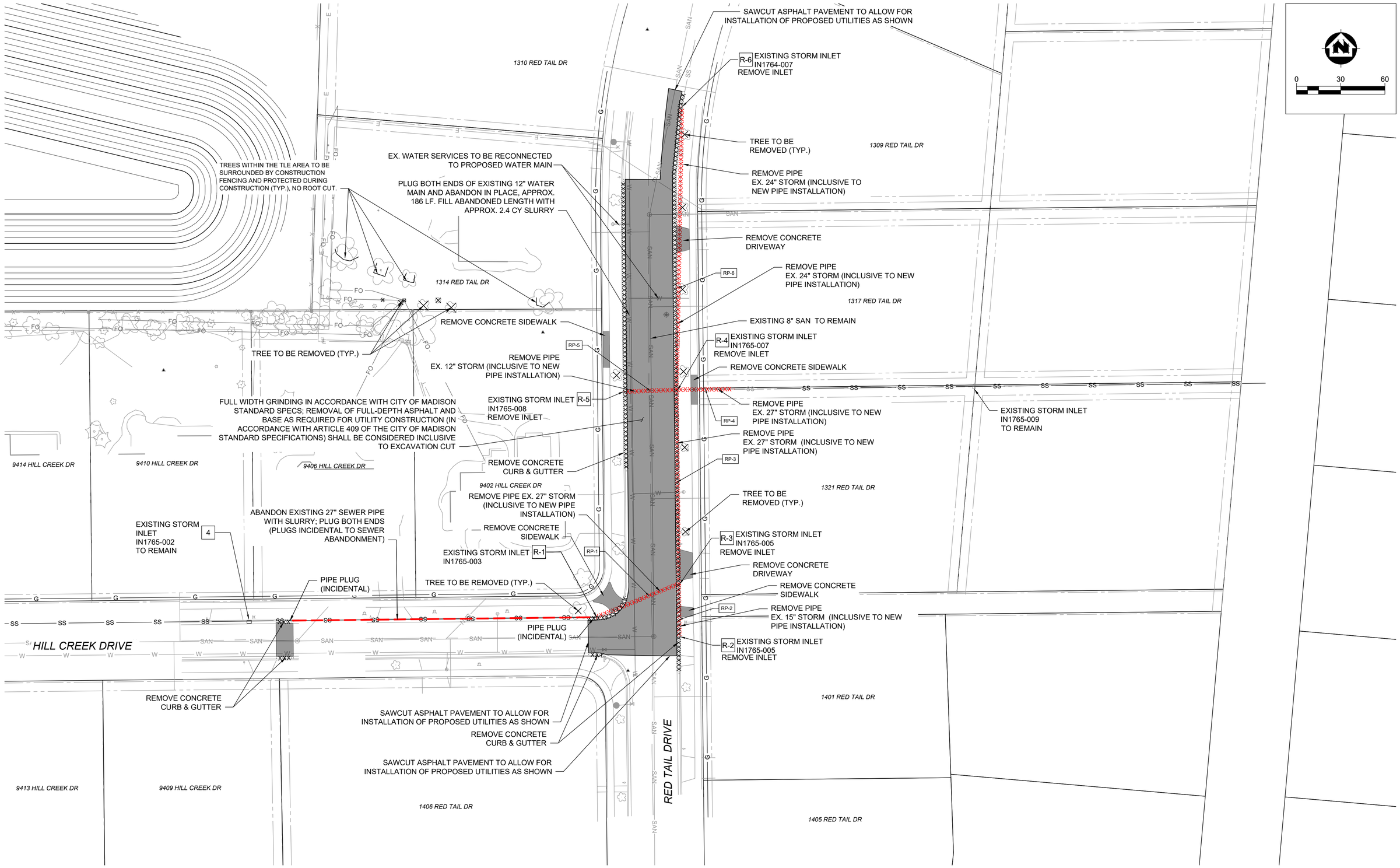
DETAILS - STORM STRUCTURES S-26 & S-30

PROJECT NO. 00373079
SHEET G 6



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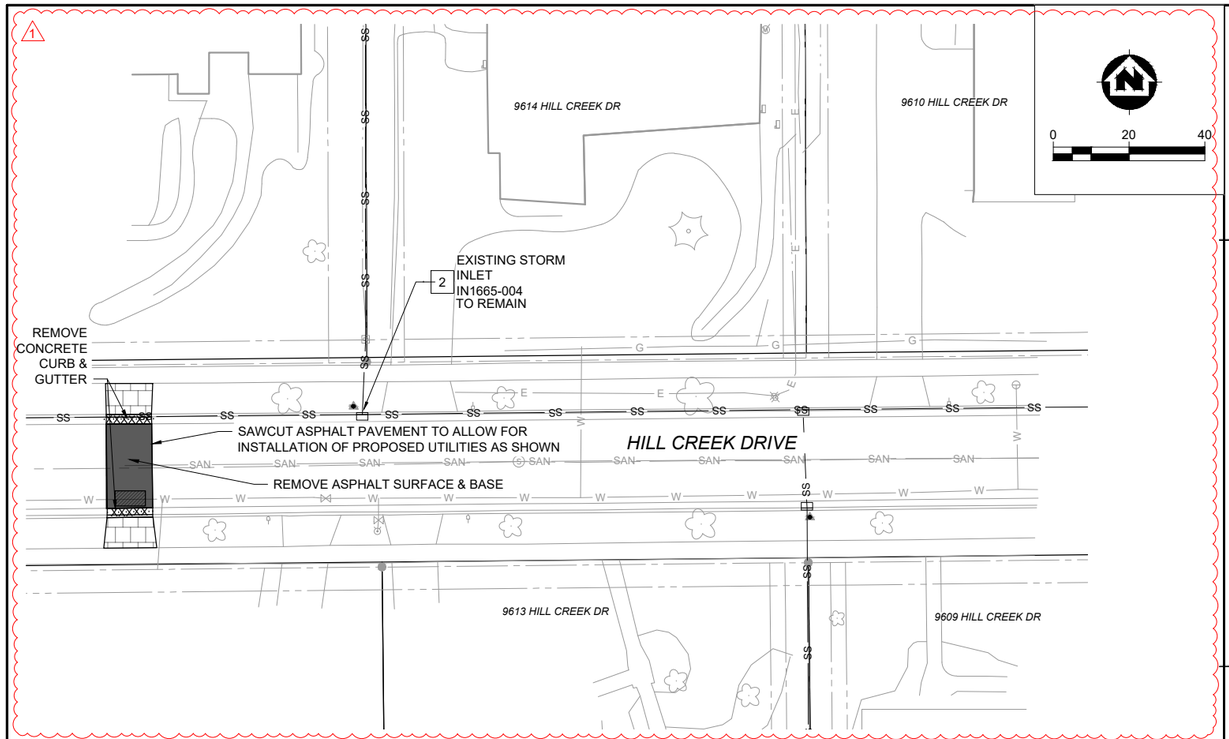
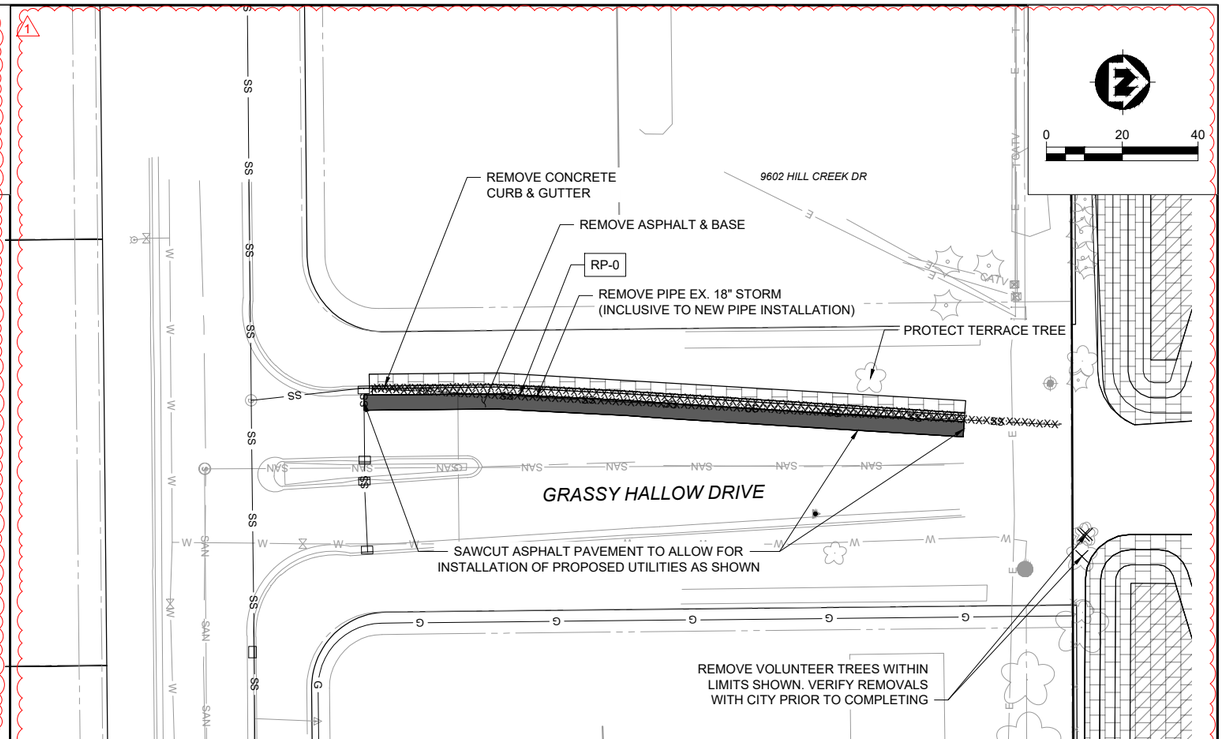
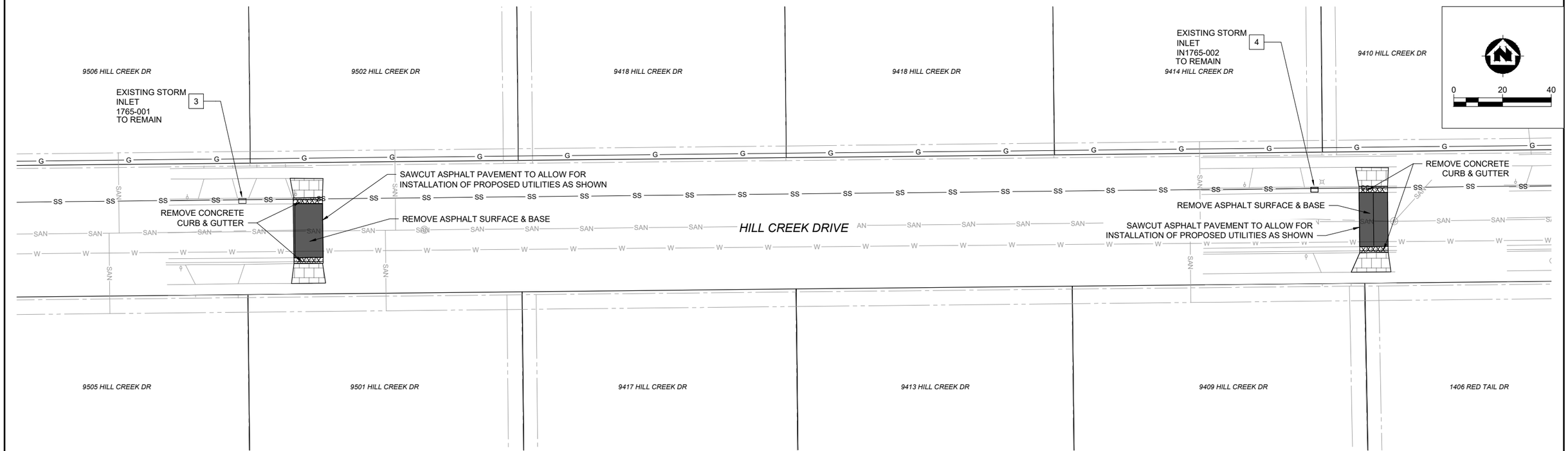
DEMOLITION PLAN - RED TAIL DRIVE

PROJECT NO. 00373079
SHEET D 1







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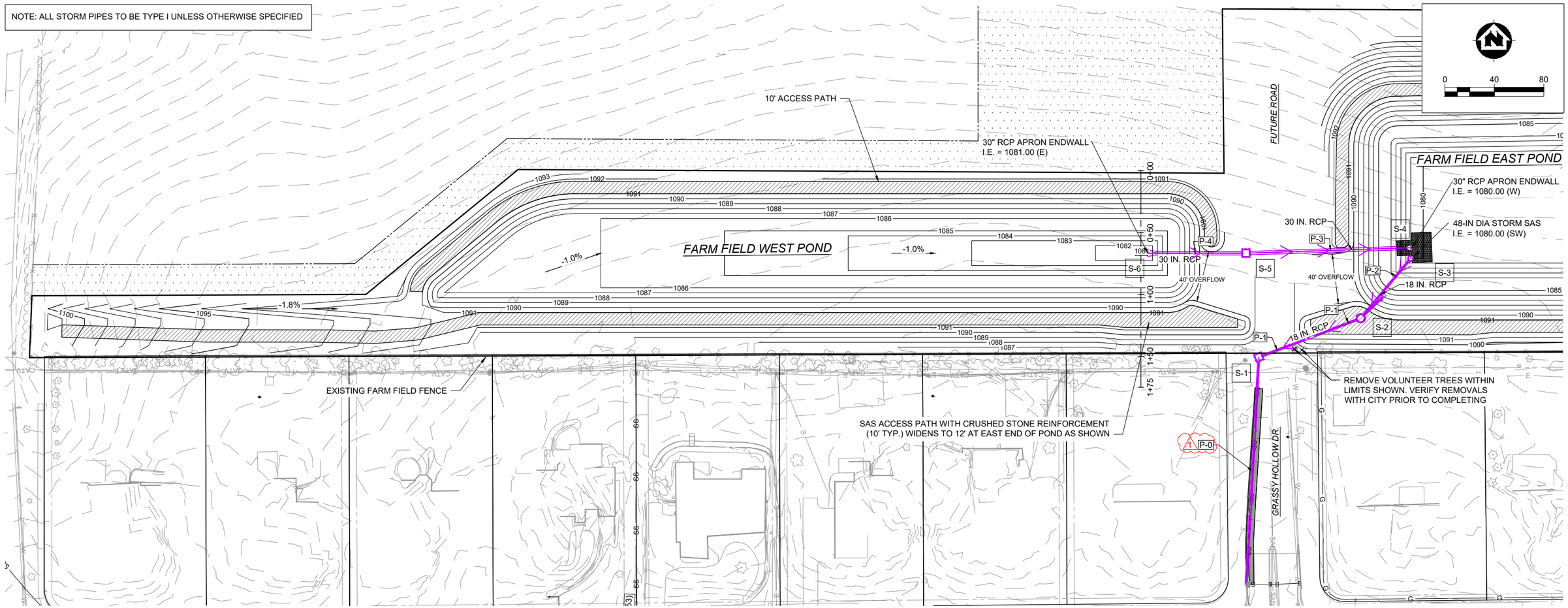
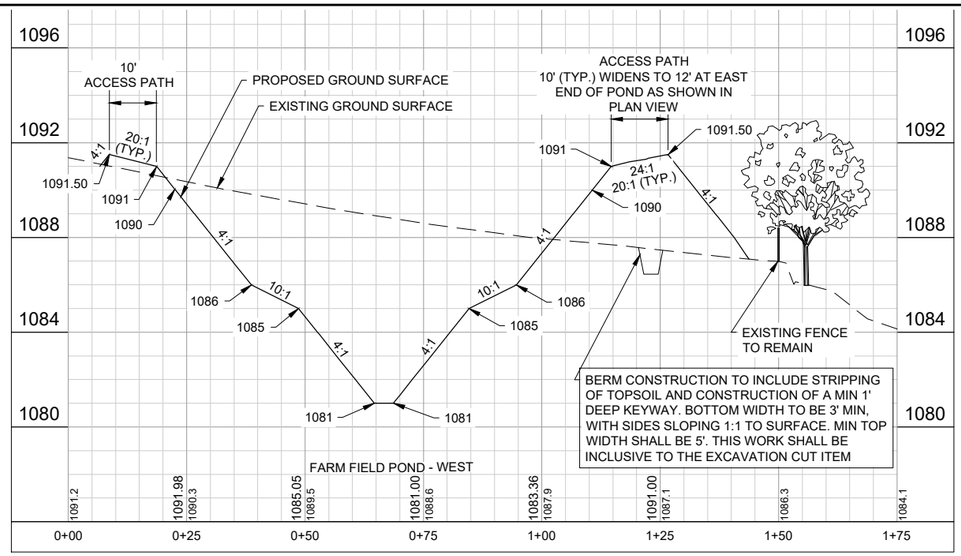
DEMOLITION PLAN - HILL CREEK DRIVE

PROJECT NO. 00373079
SHEET D 2

NOTE: ALL STORM PIPES TO BE TYPE I UNLESS OTHERWISE SPECIFIED





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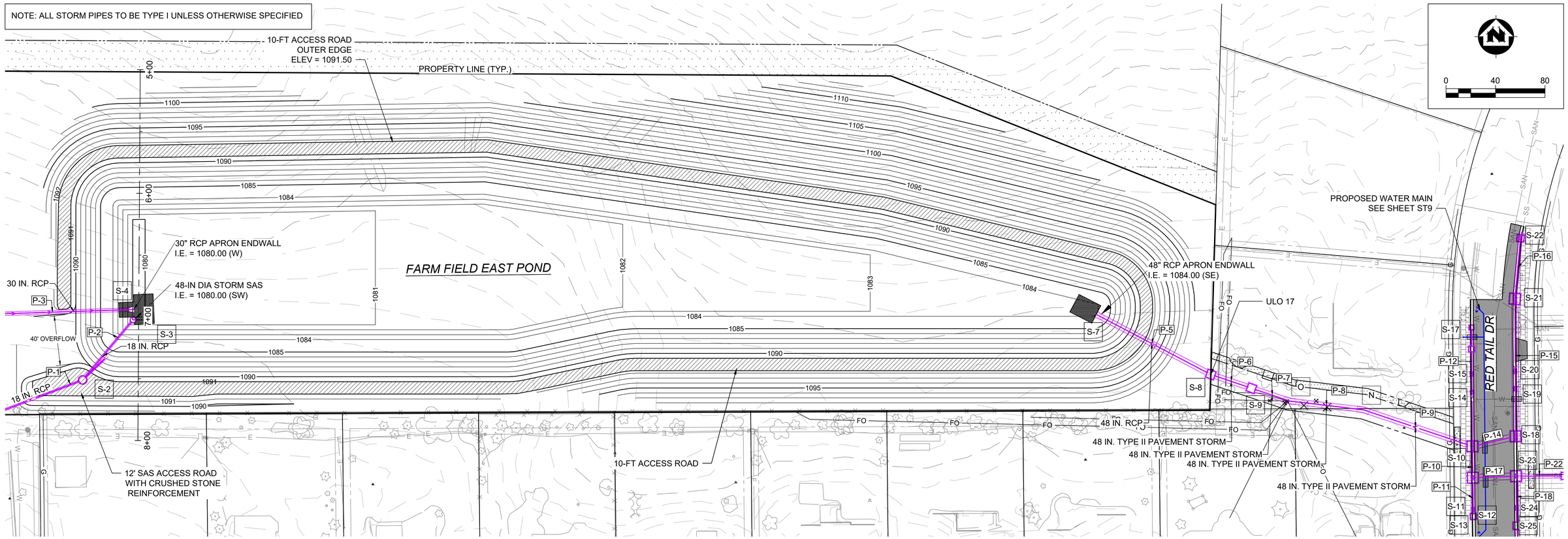
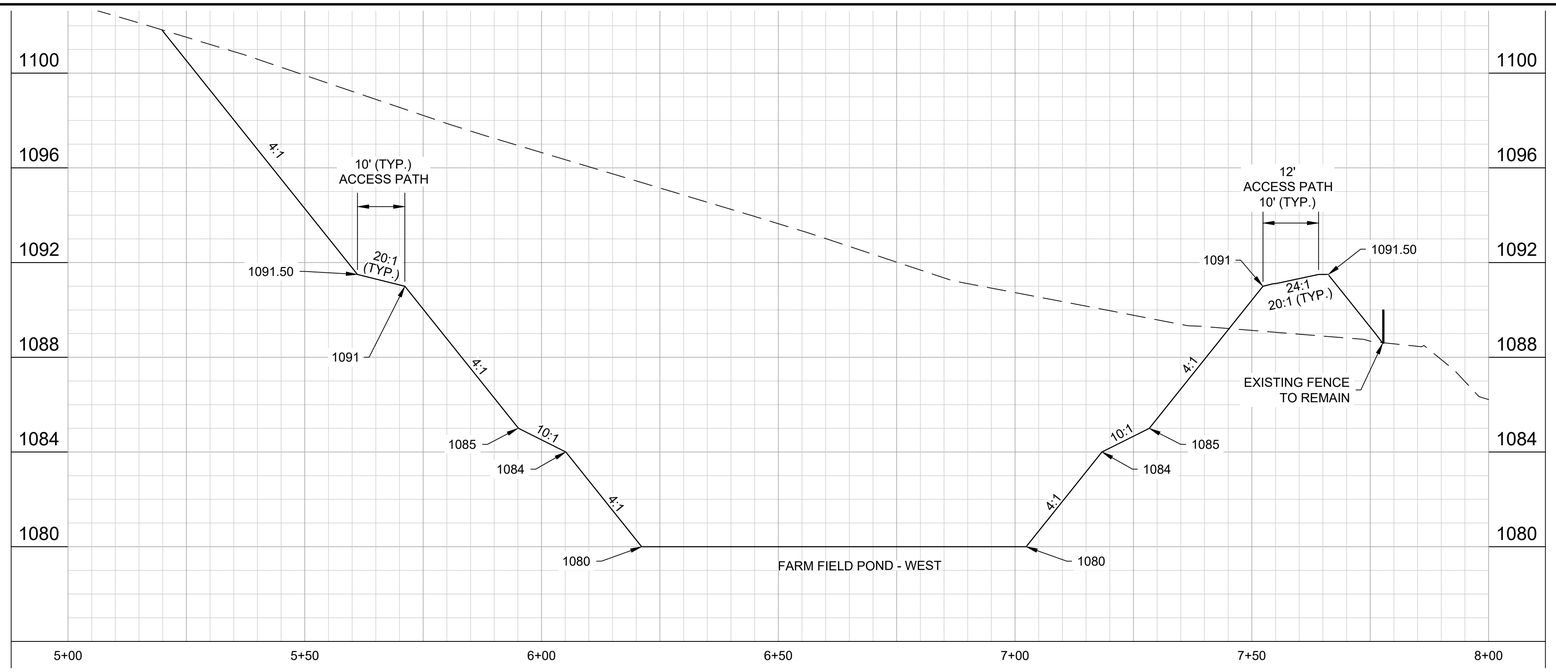
FARM FIELD WEST POND PLAN AND CROSS SECTION

PROJECT NO. 00373079
SHEET C 1

NOTE: ALL STORM PIPES TO BE TYPE I UNLESS OTHERWISE SPECIFIED





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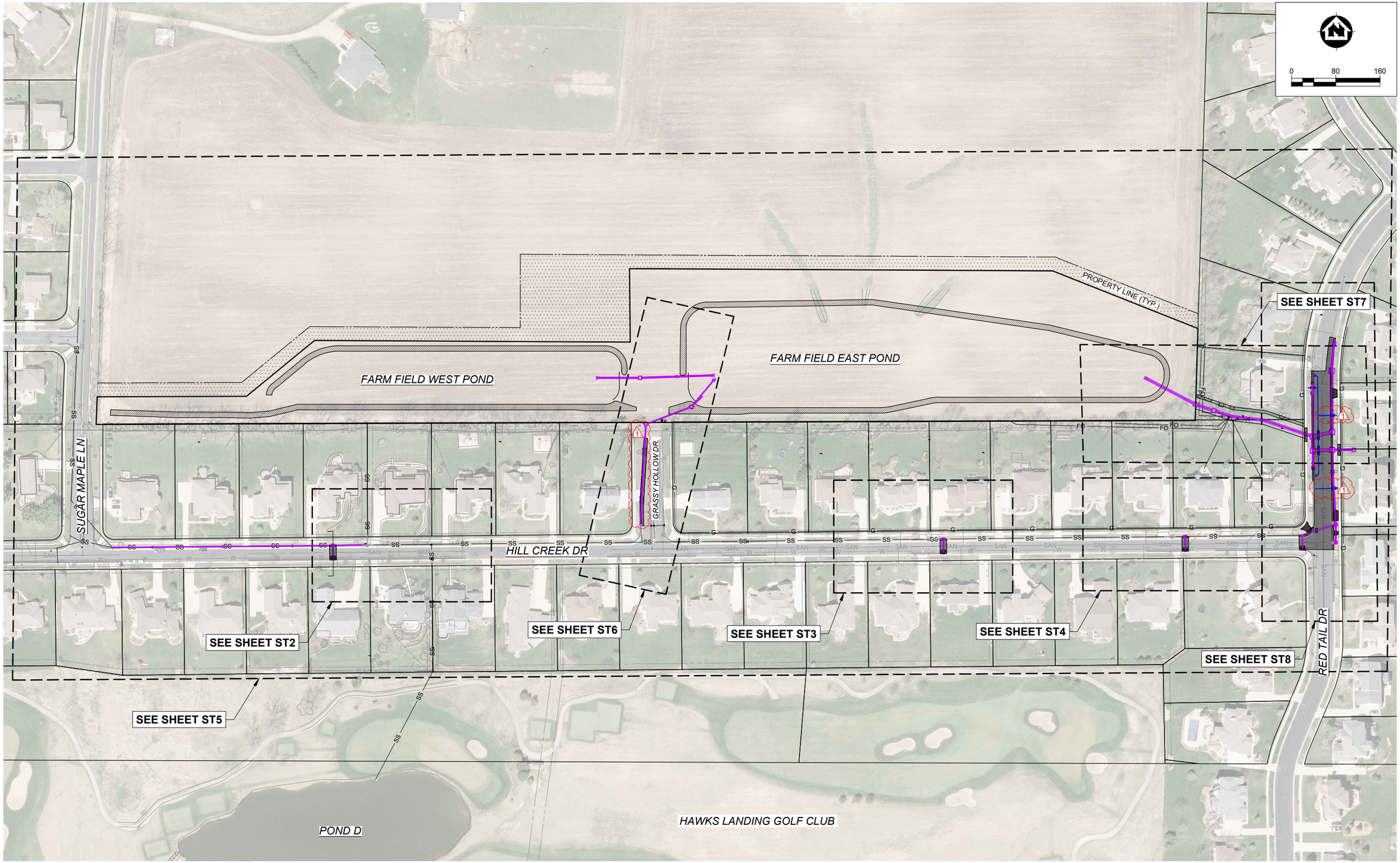
FARM FIELD EAST POND AND CROSS SECTION

PROJECT NO. 00373079

SHEET C 2



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HAWKS LANDING NORTH FLOOD MITIGATION
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DANE COUNTY, WISCONSIN

STORM SEWER & PLAN SHEET OVERVIEW

PROJECT NO. 00373079

SHEET ST 1

NOTE: ALL STORM PIPES TO BE TYPE I UNLESS OTHERWISE SPECIFIED

9702 HILL CREEK DRIVE

9614 HILL CREEK DRIVE

9610 HILL CREEK DRIVE

0 10 20

4'x4' FIELD POURED STORM SAS W/ CASTING R-3067 S-31
STA = 303+83.34, -12.77' LT
TOC = 1081.30 (VERIFY IN FIELD)
IE = 1076.43 (12" S)
IE = 1075.72 (15" W)
IE = 1075.72 (15" E)

ROADWAY LINEWORK WEST OF THIS POINT IS ASSUMED AND WAS NOT SURVEYED

EXISTING CATCH BASIN
IN1665-015
TOC = 1079.26
IE = 1075.90 (N RCP)
IE = 1075.73 (S RCP)

2 EXISTING STORM INLET
IN1665-004
STA = 304+44.97, -13.69' LT
TOC = 1078.58 1
IE = 1073.89 (27" W)
IE = 1073.89 (27" E)
IE = 1073.89 (15" W)
IE = 1075.27 (12" N)

APPROX. LOCATION OF GAS MAIN BASED ON MAPPING FROM UTILITY. GAS WAS NOT MARKED PROPERLY DURING UTILITY LOCATE

EXISTING INLET
IN1665-016
RIM @ FLOW LINE = 1075.80 1
IE = 1071.06 (E RCP 30")
IE = 1070.17 (W RCP 27")
IE = 1071.00 (S RCP 42")

TYPE "A" CONCRETE CURB & GUTTER

REPLACE ASPHALT PER DESIGN STANDARDS FOR TYPE A ROADWAY (SDD 4.06)

CONNECT 48-IN STORM SAS TO EXISTING 27" STORM SEWER

SAWCUT ASPHALT PAVEMENT

ULO 1
TOP SAN = 1071.28
NO CONFLICTS ANTICIPATED

P-24

304+00

305+00

306+00

26 L.F. - 12 IN. RCP @ -0.54%

ULO 2A
TOP WATR = 1074.87
NO CONFLICTS ANTICIPATED

HILL CREEK DRIVE

2-IN THICK RIGID INSULATION

ULO 2B
TOP WATR LAT = 1074.85
CONFLICT ANTICIPATED
STORM SEWER SHIFTED 8'WEST

STORM INLET, TYPE H S-32
STA = 303+83.36, 13.31' RT
TOC = 1081.38 (VERIFY IN FIELD)
IE = 1076.57 (12" N)

TREE TO BE PROTECTED DURING CONSTRUCTION

EXISTING INLET
IN1665-017
RIM @ FLOW LINE = 1076.00 1
IE = 1070.53 (N RCP 42")
IE = 1070.44 (S RCP 42")

TYPE "A" CONCRETE CURB & GUTTER

NOTE: SANITARY LATERALS IN AREA OF CONSTRUCTION ARE UNKNOWN. TAKE CAUTION WHILE EXCAVATING, IF LATERALS ARE ENCOUNTERED, COORDINATE RELOCATION OF PROPOSED UTILITIES WITH THE CITY.

9701 HILL CREEK DRIVE

9613 HILL CREEK DRIVE

9609 HILL CREEK DRIVE

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HILL CREEK DRIVE

PROJECT NO. 00373079
SHEET ST 2

NOTE: ALL STORM PIPES TO BE TYPE I UNLESS OTHERWISE SPECIFIED

9510 HILL CREEK DRIVE

9506 HILL CREEK DRIVE

9502 HILL CREEK DRIVE

9418 HILL CREEK DRIVE

0 10 20

S-33
4'x4' FIELD POURED STORM SAS
W/ CASTING R-3067
STA = 314+87.29, -12.38' LT
TOC = 1086.73
IE = 1082.74 (12" S)
IE = 1081.74 (27" E)
IE = 1081.74 (27" W)

3
EXISTING STORM
INLET
1765-001
STA = 314+60.48, -13.40' LT
TOC = 1086.40 (1)
IE = 1081.60 (27" W)
IE = 1081.60 (27" E)

APPROX. LOCATION OF GAS MAIN BASED ON MAPPING FROM UTILITY. GAS WAS NOT MARKED PROPERLY DURING UTILITY LOCATE

CONNECT 48-IN STORM SAS TO EXISTING 27" STORM SEWER

TYPE "A" CONCRETE CURB & GUTTER

P-25

SAWCUT ASPHALT PAVEMENT

(1) ULO 4
TOP WATR = 1080.33
NO CONFLICT ANTICIPATED

(1) ULO 3
TOP SAN = 1076.48
NO CONFLICT ANTICIPATED

HILL CREEK DRIVE

313+00 314+00 315+00 316+00

21 L.F. - 12 IN. RCP @ -0.61%

TYPE "A" CONCRETE CURB & GUTTER

REPLACE ASPHALT PER DESIGN STANDARDS FOR TYPE A ROADWAY (SDD 4.06)

S-34
STORM INLET, TYPE H
STA = 314+87.38, 13.54' RT
TOC = 1086.66
IE = 1082.87 (12" N)

2-IN THICK RIGID INSULATION

9509 HILL CREEK DRIVE

9505 HILL CREEK DRIVE

9501 HILL CREEK DRIVE

9417 HILL CREEK DRIVE

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HILL CREEK DRIVE

PROJECT NO. 00373079
SHEET ST 3

NOTE: ALL STORM PIPES TO BE TYPE I UNLESS OTHERWISE SPECIFIED

9418 HILL CREEK DRIVE

9414 HILL CREEK DRIVE

9410 HILL CREEK DRIVE

9406 HILL CREEK DRIVE

0 10 20

TYPE "A" CONCRETE CURB & GUTTER

EXISTING STORM INLET
IN1765-002
STA = 319+00.44, -13.50' LT
TOC = 1088.58
IE = 1083.76 (27" W)
IE = 1083.90 (27" E)
4

CONNECT 48-IN STORM SAS TO EXISTING 27" STORM SEWER

S-35
4'x4' FIELD POURED STORM SAS W/ CASTING R-3067
STA = 319+24.59, -12.41' LT
TOC = 1088.87
IE = 1085.59 (12" S)
IE = 1084.59 (27" W)

APPROX. LOCATION OF GAS MAIN BASED ON MAPPING FROM UTILITY. GAS WAS NOT MARKED PROPERLY DURING UTILITY LOCATE

FILL EXISTING 27" RCP STORM WITH SLURRY, PLUG AND ABANDON IN PLACE.

22 L.F. - 12 IN. RCP @ -0.65%

1 ULO -5A
TOP SAN 1079.15
NO CONFLICT ANTICIPATED

HILL CREEK DRIVE

318+00

319+00

320+00

REPLACE ASPHALT PER DESIGN STANDARDS FOR TYPE A ROADWAY (SDD 4.06)

SAWCUT ASPHALT PAVEMENT

P-26

1 ULO 6A
TOP WATR 1082.03
NO CONFLICT ANTICIPATED

TYPE "A" CONCRETE CURB & GUTTER

2-IN THICK RIGID INSULATION

S-36
STORM INLET, TYPE H
STA = 319+24.53, 13.65' RT
TOC = 1088.87
IE = 1085.73 (12" N)

9413 HILL CREEK DRIVE

9409 HILL CREEK DRIVE

1406 RED TAIL DRIVE

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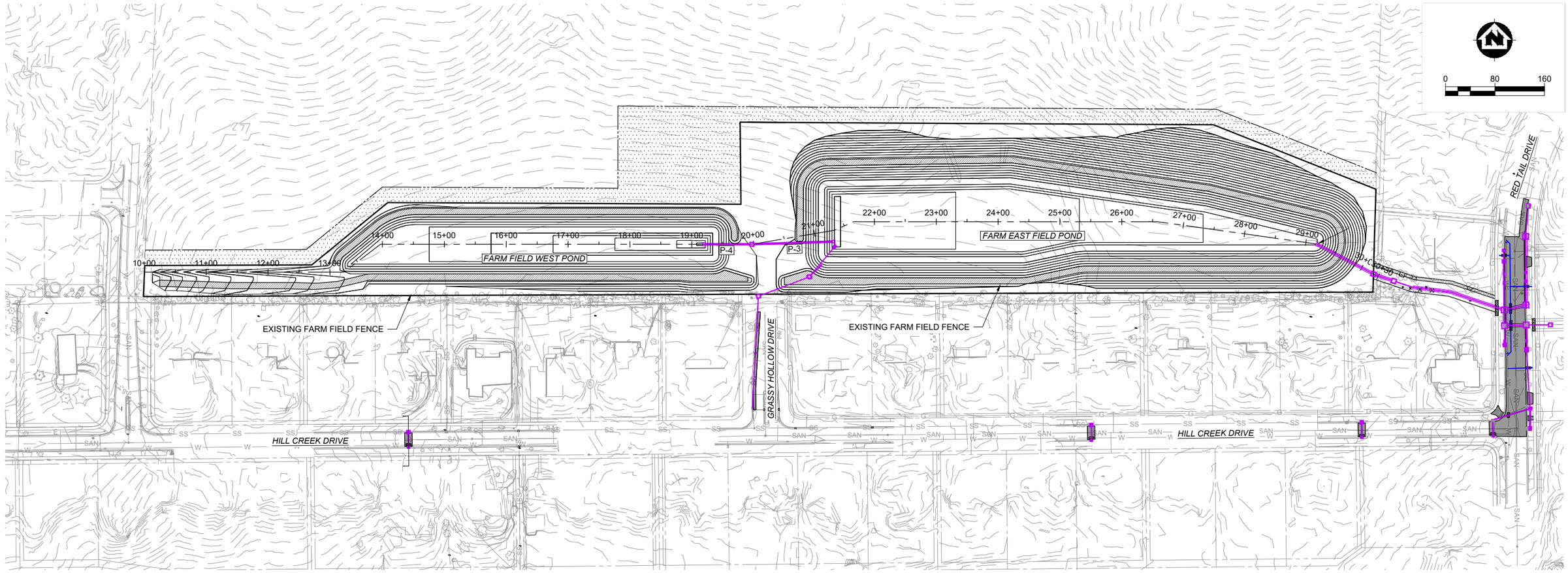
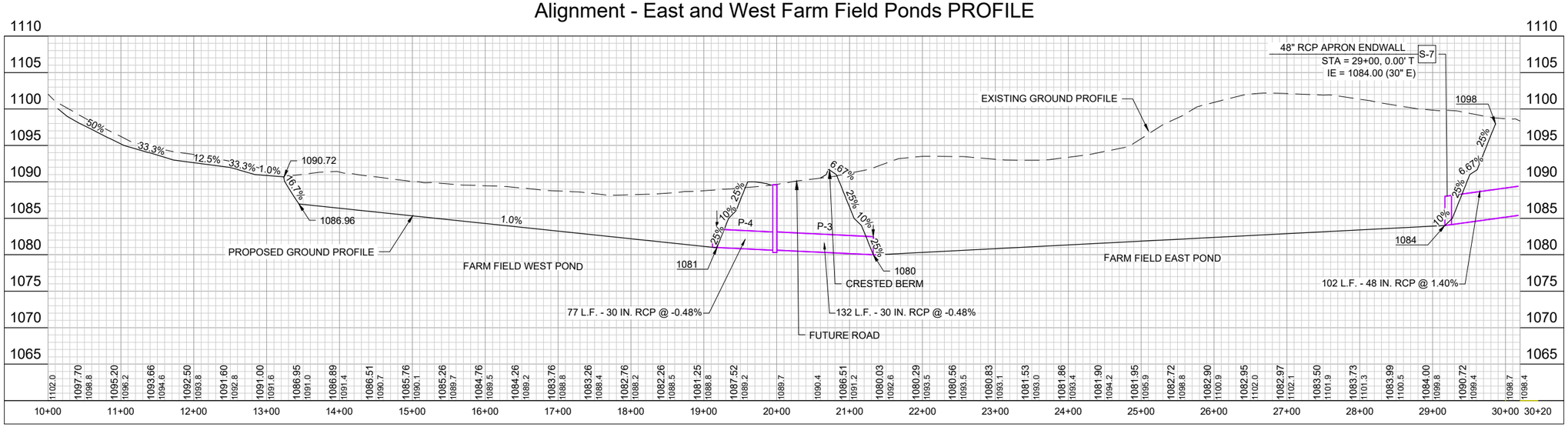
HILL CREEK DRIVE

PROJECT NO. 00373079
SHEET ST 4



Alignment - East and West Farm Field Ponds PROFILE



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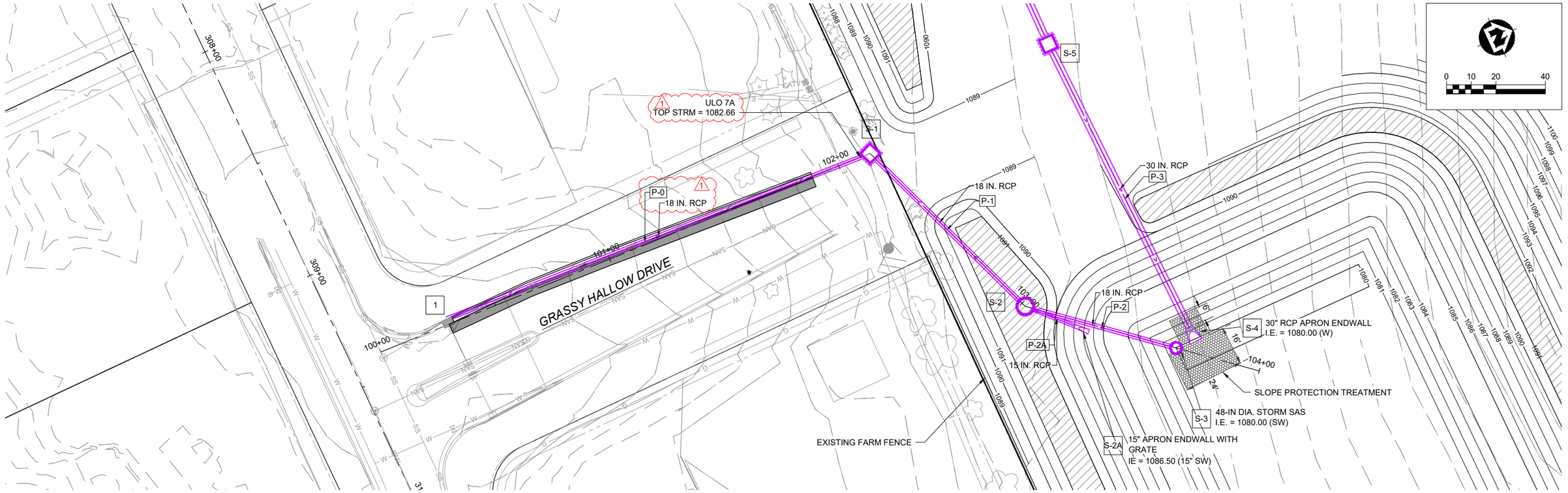
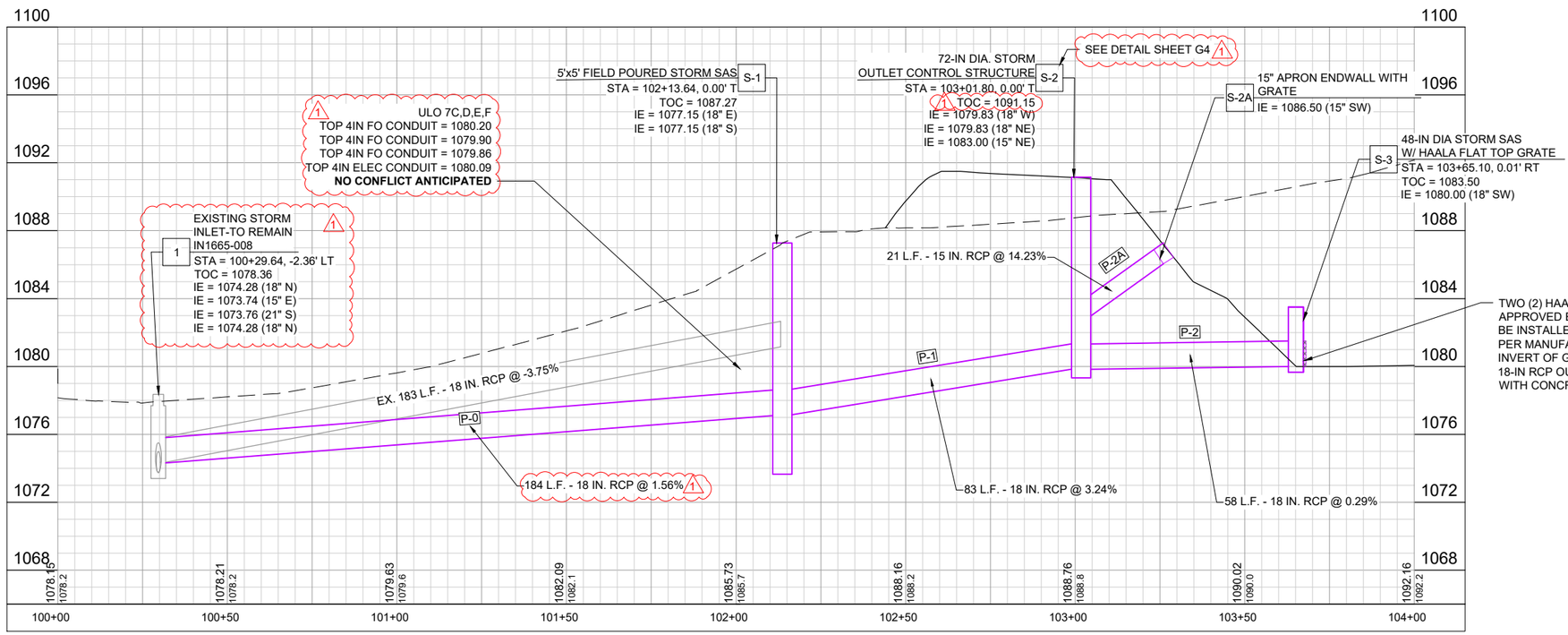
PLAN & PROFILE SHEET - FARM FIELD WEST AND EAST PONDS

PROJECT NO. 00373079

SHEET ST 5





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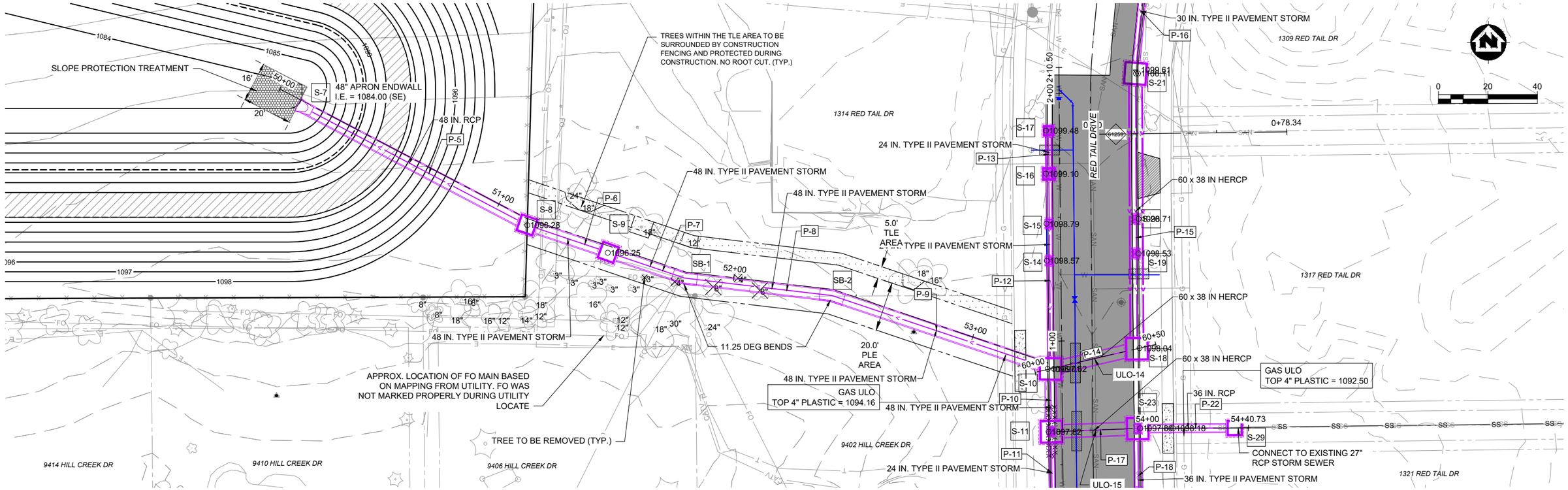
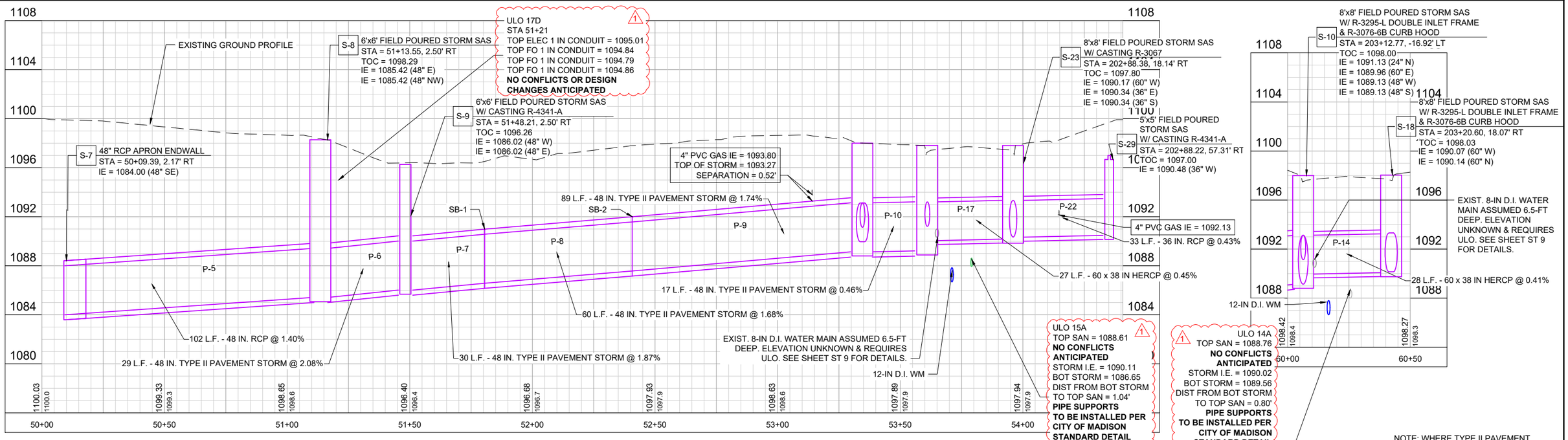
PLAN & PROFILE SHEET - GRASSY HALLOW DRIVE

PROJECT NO. 00373079
SHEET ST 6





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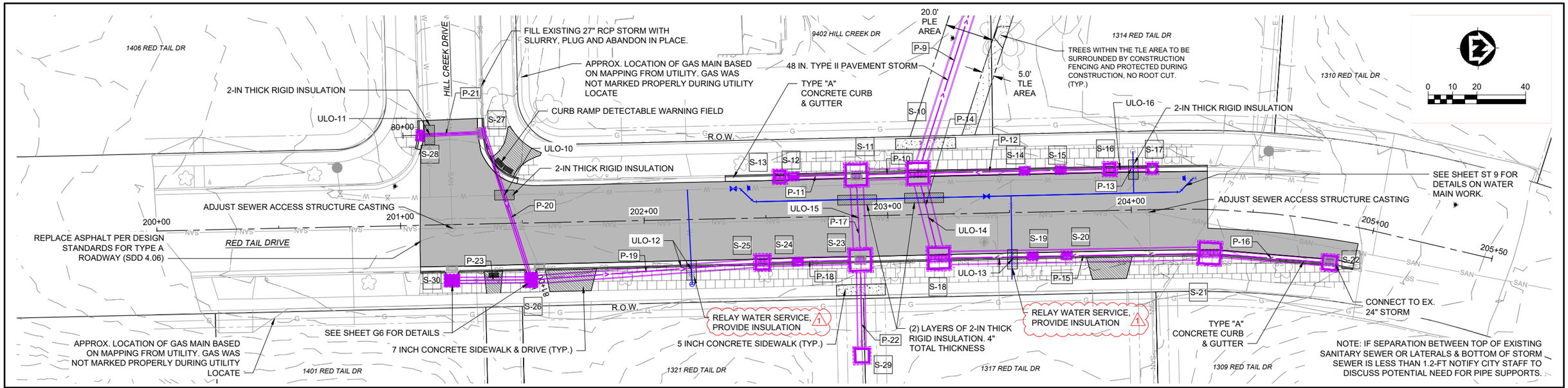
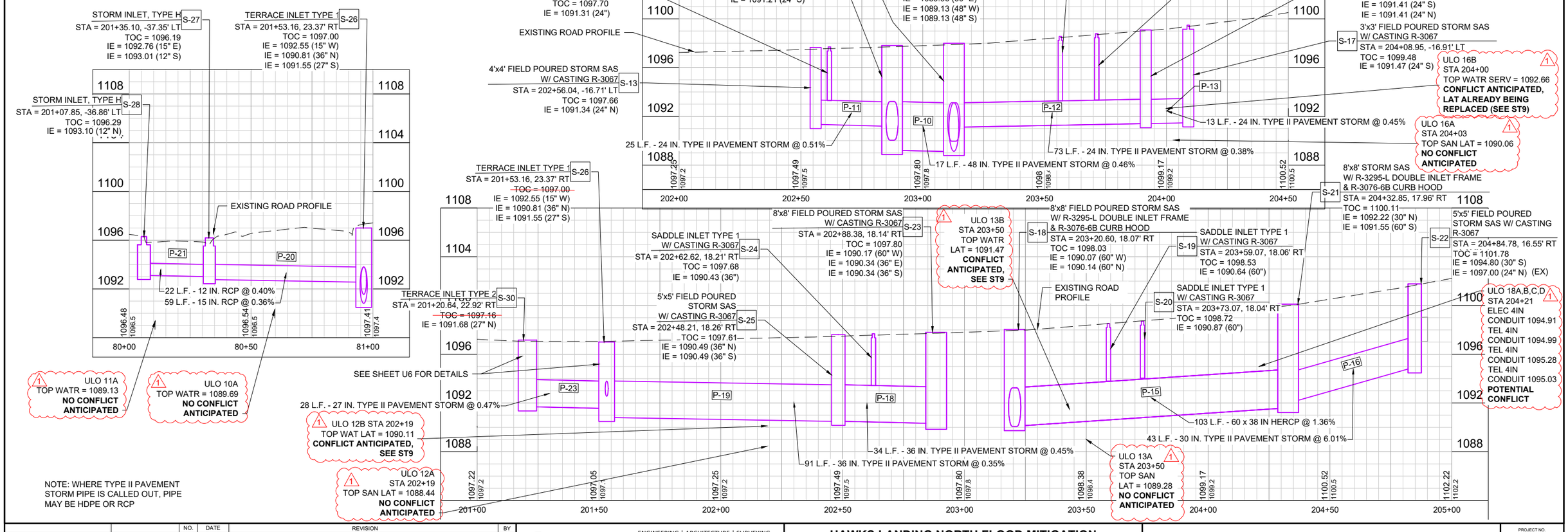
HAWKS LANDING NORTH FLOOD MITIGATION
CITY OF MADISON
DANE COUNTY, WISCONSIN

PLAN & PROFILE SHEET - RED TAIL DRIVE TO FARM FIELD

PROJECT NO. 00373079
SHEET ST 7





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HAWKS LANDING NORTH FLOOD MITIGATION
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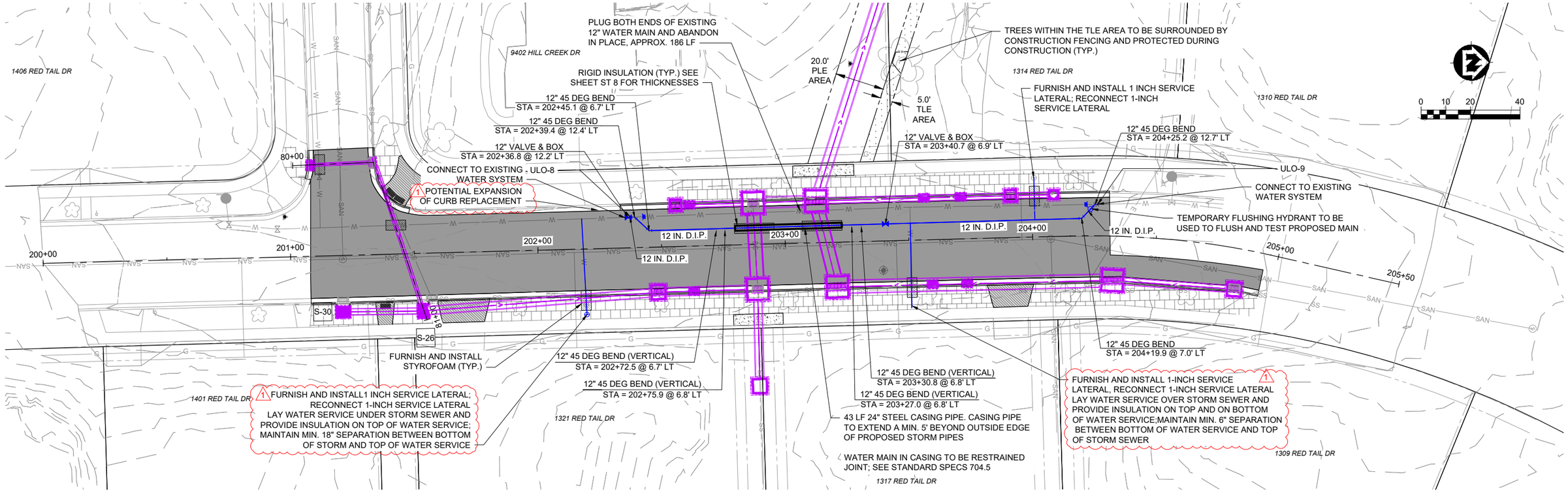
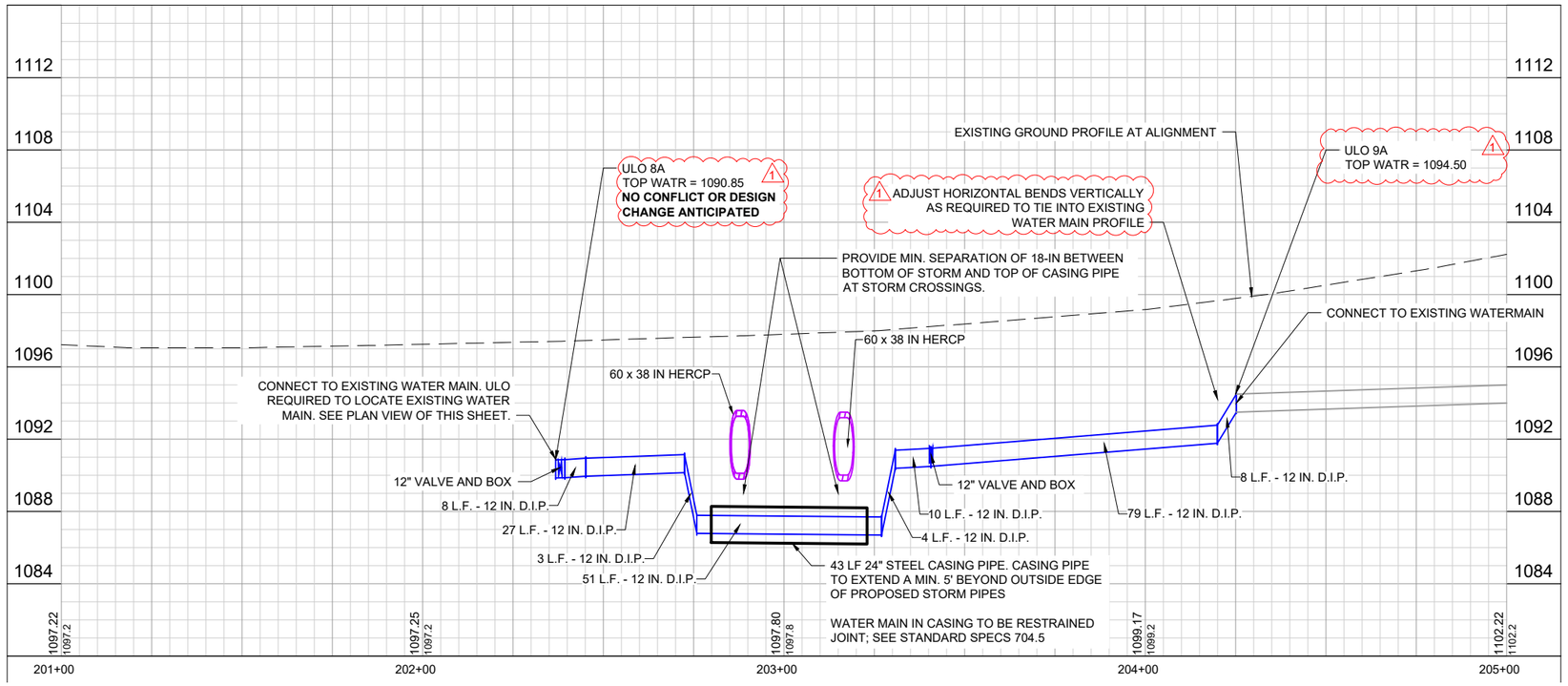
PLAN & PROFILE SHEET - RED TAIL DR

PROJECT NO. 00373079
SHEET ST 8





WATER MAIN NOTES:

1. CONTRACTOR TO NOTIFY MADISON WATER UTILITY CONSTRUCTION SUPERVISOR JEFF BELSHAW, (PH: 608-206-3856) A MINIMUM OF ONE WEEK BEFORE WATER MAIN WORK BEGINS.
2. ALL WATER WORK TO BE DONE TO CITY STANDARD SPECS. ENSURE THRUST RESTRAINT REQUIREMENTS ARE MET FOR ALL HORIZONTAL AND VERTICAL BENDS.
3. RECONNECTED WATER SERVICE LATERALS TO BE INSTALLED A MINIMUM OF 18" BELOW STORM PIPES AT THEIR CROSSING LOCATIONS.

INSTALLATION PHASING NOTES:

IN ORDER TO MINIMIZE DISRUPTION TO EXISTING WATER SERVICES, WATER MAIN INSTALLATION TO FOLLOW THE BELOW PHASING:

1. CUT IN CONNECTION TO EXISTING WATER MAIN TO BE MADE AT SOUTH END OF PROPOSED WATER MAIN, STA 202+39.4. EXISTING MAIN TO BE CAPPED.
2. CONSTRUCT PROPOSED WATER MAIN AND INSTALL TEMPORARY FLUSHING HYDRANT JUST SHY OF THE PROPOSED CONNECTION TO EXISTING WATER MAIN, APPROX. STA 204+22.
3. FLUSH AND TEST INSTALLED WATER MAIN. ONCE IT PASSES TESTS, MAKE SERVICE CONNECTIONS TO PROPOSED WATER MAIN AT 1314 RED TAIL DR AND 1317 RED TAIL DR.
4. REMOVE TEMPORARY FLUSHING HYDRANT AND MAKE FINAL CONNECTION TO EXISTING WATER MAIN, STA 204+25.2. EXISTING MAIN TO BE CAPPED.

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HAWKS LANDING NORTH FLOOD MITIGATION
CITY OF MADISON
DANE COUNTY, WISCONSIN

WATER MAIN PLAN & PROFILE - RED TAIL DR

PROJECT NO. 00373079
SHEET ST 9

LEGEND:
- CLEAR STONE BERM (DITCH CHECK)
- SILT FENCE
- INLET PROTECTION, RIGID FRAME
- EROSION MATTING, CLASS I, URBAN TYPE A
- EROSION MATTING, CLASS II, TYPE A - ORGANIC

EROSION MATTING, CLASS I, URBAN TYPE A

EROSION MATTING, CLASS II, TYPE A - ORGANIC

CLEAR STONE BERM (DITCH CHECK) (TYP.)

FARM FIELD WEST POND

SUGAR MAPLE LANE

STREET CONSTRUCTION ENTRANCE BERM

SILT FENCE (TYP.)

CONSTRUCTION LIMITS (TYP.)

EROSION MATTING CLASS I, URBAN TYPE A (TYP.) 1

STREET CONSTRUCTION ENTRANCE BERM

STREET CONSTRUCTION STONE BERM 1

0 50 100

BASIN AREAS BELOW THE BOTTOM OF MAINTENANCE PATH (INSIDE EDGE OF MAINTENANCE PATH/LOW SIDE OF MAINTENANCE PATH) AND THE WESTERN DITCH AREA LEADING INTO THE FARM FIELD WEST POND (AREA NOTED AS EROSION MATTING, CLASS II, TYPE A - ORGANIC) SHALL BE PLANTED WITH TALL GRASS PRAIRIE SEEDING IN ACCORDANCE WITH CITY OF MADISON STANDARD SPECIFICATIONS.

DISTURBED AREAS THAT ARE TO BE PLANTED WITH SEED, INCLUDING THE MAINTENANCE PATH, THAT ARE LOCATED OUTSIDE OF THE BASIN AREAS AND WESTERN DITCH AREA SHALL BE PLANTED WITH TERRACE SEED MIX IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS.

LEGEND:
- CLEAR STONE BERM (DITCH CHECK)
- SILT FENCE
- INLET PROTECTION, RIGID FRAME
- EROSION MATTING, CLASS I, URBAN TYPE A
- EROSION MATTING, CLASS II, TYPE A - ORGANIC

EROSION MATTING, CLASS I, URBAN TYPE A

FARM FIELD EAST POND

16' X 20' SLOPE PROTECTION TREATMENT

EROSION MATTING, CLASS II, TYPE A - ORGANIC

24' X 16' SLOPE PROTECTION TREATMENT EXTEND 6' BEHIND APRON ENDWALL

STREET CONSTRUCTION ENTRANCE BERM

SILT FENCE (TYP.)

CONSTRUCTION LIMITS (TYP.)

0 20 40 80

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HAWKS LANDING NORTH FLOOD MITIGATION
CITY OF MADISON
DANE COUNTY, WISCONSIN

EROSION CONTROL AND RESTORATION SHEET

PROJECT NO. 00373079
SHEET EC 1

LEGEND:
- CLEAR STONE BERM (DITCH CHECK)
- SILT FENCE
- INLET PROTECTION, RIGID FRAME
- EROSION MATTING, CLASS I, URBAN TYPE A
- EROSION MATTING, CLASS II, TYPE A - ORGANIC
- SILT SOCK
- PROPOSED TREE

0 10 20 40

HILL CREEK DRIVE

RED TAIL DRIVE

1406 RED TAIL DR

9402 HILL CREEK DR

1314 RED TAIL DR

1310 RED TAIL DR

1405 RED TAIL DR

1401 RED TAIL DR

1321 RED TAIL DR

1317 RED TAIL DR

1309 RED TAIL DR

STREET CONSTRUCTION STONE BERM (TYP.)

EROSION MATTING CLASS I, URBAN TYPE A (TYP.)

EROSION MATTING, CLASS II, TYPE A - ORGANIC

RIGID FRAME INLET PROTECTION (TYP.)

STREET CONSTRUCTION ENTRANCE BERM (TYP.)

INSTALL SILT SOCK AT TERRACE INLETS

SILT FENCE (TYP.)

CONSTRUCTION LIMITS (TYP.)

LEGEND:
- CLEAR STONE BERM (DITCH CHECK)
- SILT FENCE
- INLET PROTECTION, RIGID FRAME
- EROSION MATTING, CLASS I, URBAN TYPE A
- EROSION MATTING, CLASS II, TYPE A - ORGANIC

1

9614 HILL CREEK DR

HILL CREEK DRIVE

9701 HILL CREEK DR

9613 HILL CREEK DR

RIGID FRAME INLET PROTECTION (TYP.)

EROSION MATTING CLASS I, URBAN TYPE A (TYP.)

CONSTRUCTION LIMITS (TYP.)

RIGID FRAME INLET PROTECTION (TYP.)

EROSION MATTING CLASS I, URBAN TYPE A (TYP.)

9506 HILL CREEK DR

9502 HILL CREEK DR

HILL CREEK DRIVE

9505 HILL CREEK DR

CONSTRUCTION LIMITS (TYP.)

9501 HILL CREEK DR

9410 HILL CREEK DR

9414 HILL CREEK DR

EROSION MATTING CLASS I, URBAN TYPE A (TYP.)

RIGID FRAME INLET PROTECTION (TYP.)

HILL CREEK DRIVE

1406 RED TAIL DR

9409 HILL CREEK DR

CONSTRUCTION LIMITS (TYP.)

0 10 20 40

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HAWKS LANDING NORTH FLOOD MITIGATION
CITY OF MADISON
DANE COUNTY, WISCONSIN

EROSION CONTROL AND RESTORATION SHEET

PROJECT NO. 00373079
SHEET EC 2

PROPOSED STORM STRUCTURES

STRUC. NO	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-1	102+13.64	0.00	FIELD POURED 5'x5' STORM SAS	1087.27	1077.15 (18" E) 1077.15 (18" S)	13.12	W/R-1550-0054. DEPTH INCLUDES 3' SUMP
S-2A	103+29.22	RT-3.06'	15" APRON ENDWALL	-	1086.50 (15" SW)	-	WITH GRATE
S-2	103+01.80	0.00	72-IN DIA. STORM	1091.15	1079.83 (18" W) 1079.83 (18" NE)	11.32	SEE PRECAST REINFORCED OUTLET CONTROL STRUCTURE S-2 DETAIL
S-3	103+65.10	0.00	48-IN DIA SAS	1083.50	1080.00 (18" SW)	3.50	WITH TWO (2) 18"x49" SIDE FLOW GRATES INSTALLED AT 18" RCP E.I., FILL TO FLOWLINE WITH CONCRETE
S-4	21+30.49	RT-18.18	30" APRON ENDWALL	-	1080.00 (30" W)	-	N/A
S-5	19+97.37	RT-0.28	FIELD POURED 5'x5' STORM SAS	1089.61	1080.63 (30" E) 1080.63 (30" W)	8.97	W/R-1550-0054
S-6	19+17.93	0.00	30" APRON ENDWALL	-	1081.00 (30" E)	-	-
S-7	50+09.39	RT-2.17	48" APRON ENDWALL	-	1084.00 (30" E)	-	WITH GATE
S-8	51.13.55	RT-2.50	FIELD POURED 6'x6' STORM SAS	1098.29	1085.42 (48" NW) 1085.42 (48" E)	12.87	W/R-1550-0054
S-9	51+48.21	RT-2.50	FIELD POURED 6'x6' STORM SAS	1096.26	1086.02 (48" W) 1086.02 (48" E)	10.24	W/R-4341-A
SB-1	51+80.55	RT-2.50	11.25 DEG TYPE II PAVEMENT STORM BEND	-	1086.57 (48" SE) 1086.57 (48" NW)	-	N/A
SB-2	52+40.12	RT-2.50	11.25 DEG TYPE II PAVEMENT STORM BEND	-	1087.58 (48" SE) 1087.58 (48" NW)	-	N/A
S-10	203+12.77	LT-16.92	FIELD POURED 8'x8' STORM SAS	1098.00	1091.13 (24" N) 1089.96 (60" E) 1089.13 (48" W) 1089.13 (48" S)	8.87	W/R-3295-L DOUBLE INLET FRAME & R-3076-6B CURB HOOD
S-11	202+87.42	LT-16.30	FIELD POURED 8'x8' STORM SAS	1097.82	1089.21 (48" N) 1090.05 (60" E) 1091.21 (24" S)	8.61	W/R-3067-7004-V
S-12	202+61.68	LT-16.73	SADDLE INLET	1097.70	1091.31 (24")	6.39	W/R-3067-7004-V
S-13	202+26.04	LT-16.71	SADDLE INLET	1097.66	1091.34 (24" N)	6.32	W/R-3067-7004-V
S-14	203+56.47	LT-17.00	SADDLE INLET	1098.56	1091.28 (24")	7.28	W/R-3067-7004-V
S-15	203+71.40	LT-17.01	SADDLE INLET	1098.79	1091.33 (24")	7.46	W/R-3067-7004-V
S-16	203+91.50	LT-16.90	FIELD POURED 4'x4' STORM SAS	1099.10	1091.41 (24" N) 1091.41 (24" S)	7.69	W/R-3067-7004-V
S-17	204+08.95	LT-16.91	FIELD POURED 3'x3' STORM SAS	1099.48	1091.47 (24" S)	8.01	W/R-3067-7004-V
S-18	203+20.60	RT-18.07	FIELD POURED 8'x8' STORM SAS	1098.03	1090.09 (60" N) 1090.09 (60" W)	7.94	W/R-3295-L DOUBLE INLET FRAME & R-3076-6B CURB HOOD
S-19	203+59.07	RT-18.06	SADDLE INLET	1097.53	1090.64 (60")	6.89	W/R-3067-7004-V
S-20	203+73.07	RT-18.04	SADDLE INLET	1098.72	1090.87 (60")	7.85	W/R-3067-7004-V
S-21	204+32.85	RT-17.96	FIELD POURED 8'x8' STORM SAS	1100.11	1092.22 (30" N) 1091.55 (60" S)	8.56	W/R-3295-L DOUBLE INLET FRAME & R-3076-6B CURB HOOD
S-22	204+84.78	RT-16.55	FIELD POURED 5'x5' STORM SAS	1101.78	1094.80 (30" S) 1097.00 (24" N) EX	6.98	W/R-3067-7004-V
S-23	202+88.38	RT-18.14	FIELD POURED 8'x8' STORM SAS	1097.80	1090.17 (60" W) 1090.34 (36" E) 1090.34 (36" S)	7.63	W/R-3067-7004-V
S-24	202+62.62	RT-18.21	SADDLE INLET	1097.68	1090.43 (36" N) 1090.43 (36" S)	7.25	W/R-3067-7004-V
S-25	202+48.21	RT-18.26	FIELD POURED 5'x5' STORM SAS	1097.61	1090.49 (36" N) 1090.49 (36" S)	7.12	W/R-3067-7004-V

PROPOSED STORM STRUCTURES

STRUC. NO	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-26	201+53.18	RT-22.74	TERRACE INLET TYPE 1	1097.00	1092.55 (15" W) 1090.81 (36" N) 1091.55 (27" S)	6.20	LP, FP, SEE SDD 5.7.12A
S-27	201+35.10	LT-37.35	STORM INLET, TYPE H	1096.19	1092.76 (15" E) 1093.01 (12" S)	3.43	W/R-3067-7004-V
S-28	201+07.85	LT-36.86	STORM INLET, TYPE H	1096.29	1093.10 (12" N)	3.19	W/R-3067-7004-V
S-29	202+88.22	RT-57.31	FIELD POURED 5'x5' STORM SAS	1097.00	1090.48 (36" W)	6.52	W/R-4341-A
S-30	201+20.79	RT-22.83	TERRACE INLET TYPE 2	1096.80	1091.68 (27" N)	5.12	LP, FP, SEE SDD 5.7.12A
1 S-31	303+83.34	LT-12.77	FIELD POURED 4'x4' STORM SAS	1081.30; VERIFY IN FIELD	1076.43 (12" S) 1076.35 (15" E) EX 1076.35 (15" W) EX	VERIFY IN FIELD	W/R-3067-7004-V
S-32	303+83.36	RT-13.30	STORM INLET, TYPE H	1081.38; VERIFY IN FIELD	1076.57 (12" N)	VERIFY IN FIELD	W/R-3067-7004-V
S-33	314+87.29	LT-12.38	FIELD POURED 4'x4' STORM SAS	1086.73	1082.74 (12" S) 1081.74 (27" E) EX 1081.74 (27" W) EX	4.99	W/R-3067-7004-V
S-34	314+87.38	RT-13.54	STORM INLET, TYPE H	1086.66	1082.87 (12" N)	3.79	W/R-3067-7004-V
S-35	319+24.59	LT-12.41	FIELD POURED 4'x4' STORM SAS	1088.87	1085.59 (12" S) 1084.59 (27" W) EX	4.28	W/R-3067-7004-V
S-36	319+24.53	RT-13.65	STORM INLET, TYPE H	1088.87	1085.73 (12" N)	3.14	W/R-3067-7004-V

STANDARD NOTES:

1. PAY LENGTH IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.
2. ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES; UD = UNDERDRAIN; TOC = TOP OF CASTING
3. APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
4. TOP OF CASTING (TOC) GRADE GIVEN IS THE BACK OF CURB FOR STRUCTURES WITHIN THE TERRACE ROADS, AND THE FINISHED GRADE FOR STRUCTURES IN GREEN SPACES.
5. ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
6. SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
7. ALL FIELD POURED SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.3. ALL PRECAST SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.5.
8. ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT JANET SCHMIDT OF CITY ENGINEERING AT JSCHMIDT@CITYOFMADISON.COM FOR PRECAST APPROVALS.
9. ALL REBAR FOR FIELD POUR STRUCTURES SHALL BE EPOXY COATED. ANY EXPOSED STEEL SHALL BE TOUCHED UP OR RECOATED PRIOR TO USE.

PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PAY LENGTH (FT)	PIPE LENGTH (FT)	SLOPE (%)	PIPE SIZE (IN).	TYPE	NOTES
1 P-0	1	S-1	1074.28	1077.15	184	180	1.59%	18	RCP	
P-1	S-1	S-2	1077.15	1079.83	88	83	3.23%	18	RCP	
P-2	S-2	S-3	1079.83	1080.00	67	58	0.29%	18	RCP	
P-2A	S-2	S-2A	1083.00	1086.50	28	25	14.00%	15	RCP	
P-3	S-4	S-5	1080.00	1080.63	134	132	0.48%	30	RCP	
P-4	S-5	S-6	1080.63	1081.00	79	77	0.48%	30	RCP	
P-5	S-7	S-8	1084.00	1085.42	105	102	1.39%	48	RCP	INSTALL WITH PIPE TIES
P-6	S-8	S-9	1085.42	1086.02	35	29	2.07%	48	TYPE II PAVEMENT STORM	
P-7	S-9	SB-1	1086.02	1086.57	33	30	1.83%	48	TYPE II PAVEMENT STORM	
P-8	SB-1	SB-2	1086.57	1087.58	60	60	1.68%	48	TYPE II PAVEMENT STORM	
P-9	SB-2	S-10	1087.58	1089.13	93	89	1.74%	48	TYPE II PAVEMENT STORM	
P-10	S-10	S-11	1089.13	1089.21	25	17	0.47%	48	TYPE II PAVEMENT STORM	
P-11	S-11	S-13	1091.21	1091.34	31	25	0.52%	24	TYPE II PAVEMENT STORM	
P-12	S-10	S-16	1091.13	1091.41	79	73	0.38%	24	TYPE II PAVEMENT STORM	
P-13	S-16	S-17	1091.41	1091.47	17	13	0.46%	24	TYPE II PAVEMENT STORM	
P-14	S-10	S-18	1089.96	1090.09	36	28	0.46%	60 x 38	HERCP	
P-15	S-18	S-21	1090.09	1091.55	111	104	1.40%	60 x 38	HERCP	
P-16	S-21	S-22	1092.22	1094.80	49	43	6.00%	30	TYPE II PAVEMENT STORM	
P-17	S-11	S-23	1090.05	1090.17	35	27	0.44%	60 x 38	HERCP	
P-18	S-23	S-25	1090.34	1090.49	40	34	0.44%	36	TYPE II PAVEMENT STORM	
P-19	S-25	S-26	1090.49	1090.81	95	90	0.36%	36	TYPE II PAVEMENT STORM	
P-20	S-26	S-27	1092.55	1092.74	63	58	0.32%	15	RCP	
P-21	S-27	S-28	1093.01	1093.10	25	22	0.41%	12	RCP	
P-22	S-23	S-29	1090.34	1090.48	39	33	0.42%	36	RCP	
P-23	S-26	S-30	1091.55	1091.68	33	27	0.48%	27	TYPE II PAVEMENT STORM	
P-24	S-31	S-32	1076.43	1076.57	26	22	0.54%	12	RCP	
P-25	S-33	S-34	1082.74	1082.87	26	22	0.59%	12	RCP	
P-26	S-35	S-36	1085.59	1085.73	26	22	0.64%	12	RCP	

		NO.	DATE	REVISION	BY
PROJECT DATE: .	DRAWN BY: Init	1	02/09/2023	CONSTRUCTION BULLETIN 1	JM
	DESIGNED BY: Init	.	.	.	.
	CHECKED BY: Init	.	.	.	.

PLOT DATE: 2/16/2023 12:25 PM, P:\370s\373\00373079\CADD\C3D\2021\Plan Sheets\00373079 Plan and Profile C4.dwg

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HAWKS LANDING NORTH FLOOD MITIGATION
CITY OF MADISON
DANE COUNTY, WISCONSIN

STORM SEWER SCHEDULE

PROJECT NO. 00373079
SHEET SCH 1

SEE ANNOTATIONS ON 1 ST2-ST9 FOR ELEVATIONS

PROPOSED ULO'S					
ULO NO.	STATION	OFFSET	DIA. (IN)	PIPE TYPE	ANTICIPATED T.O.P. ELEV.
ULO-1	303+81.30	LT-0.38	8	PVC SAN	UNKNOWN
ULO-2	303+91.35	RT-8.58	UNKNOWN	WATER MAIN	UNKNOWN
ULO-3	314+87.41	RT-0.34	8	PVC SAN	UNKNOWN
ULO-4	314+87.40	RT-8.51	UNKNOWN	WATER MAIN	UNKNOWN
ULO-5	319+24.56	RT-0.88	8	PVC SAN	1079.36
ULO-6	319+24.55	RT-9.26	UNKNOWN	WATER MAIN	UNKNOWN
ULO-7	102+10.68	RT-0.00	18	RCP STORM	1078.6
ULO-8	202+39.25	LT-12.29	UNKNOWN	WATER MAIN	UNKNOWN
ULO-9	204+25.26	LT-12.74	UNKNOWN	WATER MAIN	UNKNOWN
ULO-10	201+43.54	LT-11.53	UNKNOWN	WATER MAIN	UNKNOWN
ULO-11	201+12.40	LT-37.02	UNKNOWN	WATER MAIN	UNKNOWN
ULO-12	202+17.02	RT-19.70	UNKNOWN	SANITARY LATERAL & WATER SERVICE	UNKNOWN
ULO-13	203+47.33	RT-18.16	UNKNOWN	SANITARY LATERAL & WATER SERVICE	1096.35
ULO-14	203+16.82	RT-1.18	UNKNOWN	SANITARY	UNKNOWN
ULO-15	202+87.92	RT-1.22	UNKNOWN	SANITARY	UNKNOWN
ULO-16	203+98.46	LT-16.90	UNKNOWN	SANITARY LATERAL & WATER SERVICE	UNKNOWN
ULO-17	51+13.38	RT-2.47	UNKNOWN	FIBRE OPTIC & ELECTRIC	UNKNOWN

PROPOSED STORM PIPE REMOVALS

REMOVAL NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
1 RP-0	1	S-1	184	18	RCP	Y	
RP-1	R-1	R-3	60	27	RCP	Y	
RP-2	R-2	R-3	37	15	RCP	Y	
RP-3	R-3	R-4	128	27	RCP	Y	
RP-4	R-4	TOWARDS IN1765-002	40	27	RCP	Y	
RP-5	R-5	R-4	36	12	RCP	Y	
RP-6	R-4	R-6	193	24	RCP	Y	

PROPOSED STORM STRUCTURE REMOVALS

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
R-1	IN1765-003	201+34.91	LT-37.40	TYPE "H" INLET	
R-2	IN1765-005	201+20.74	RT-19.64	TYPE "H" INLET	
R-3	IN1765-004	201+56.70	RT-19.48	TYPE "H" INLET	
R-4	IN1765-007	202+88.39	RT-19.21	TYPE "H" INLET	
R-5	IN1765-008	202+87.42	LT-17.80	TYPE "H" INLET	
R-6	IN1764-007	204+84.87	RT-17.40	TYPE "H" INLET	

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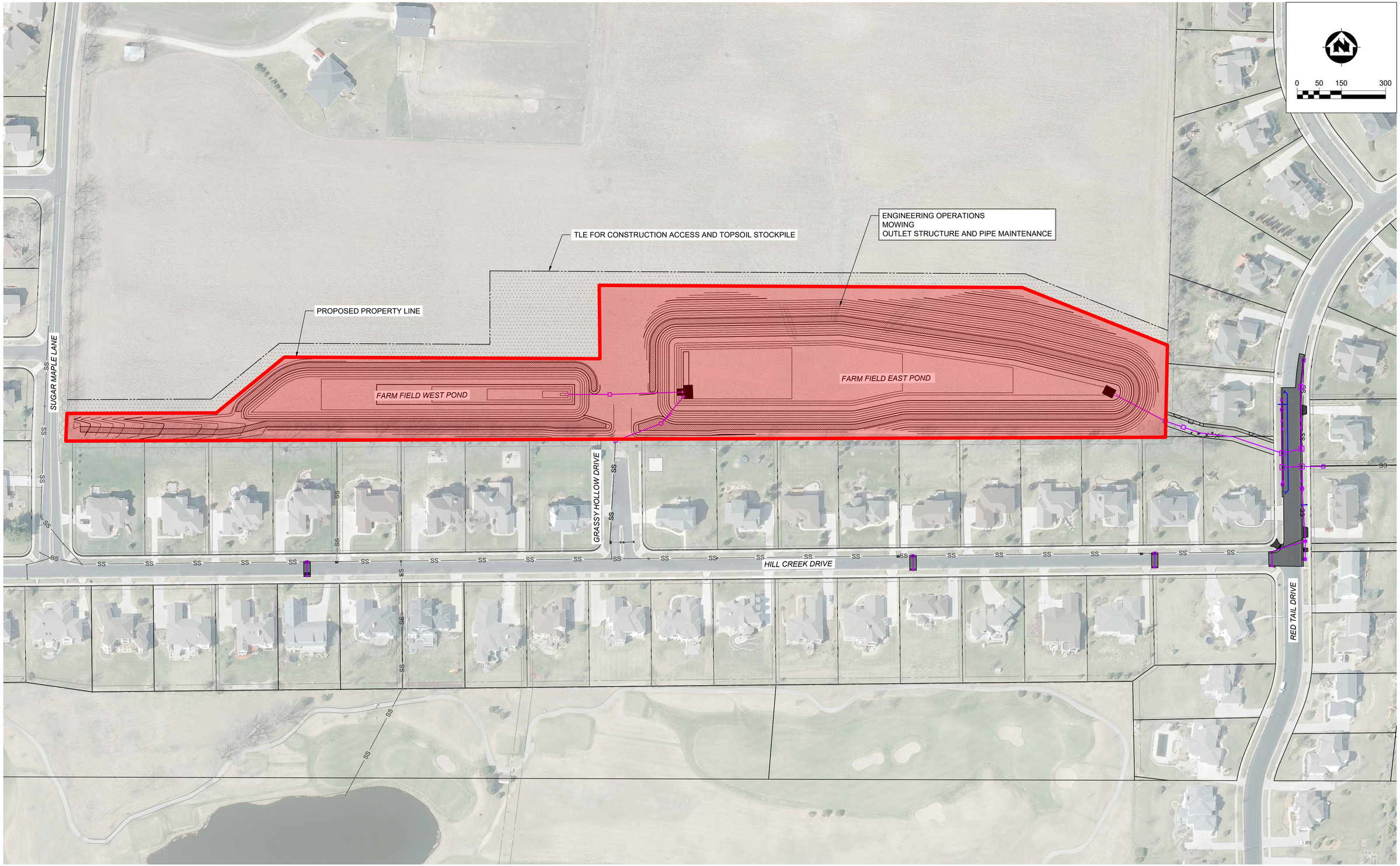
HAWKS LANDING NORTH FLOOD MITIGATION
CITY OF MADISON
DANE COUNTY, WISCONSIN

STORM TAPPING AND ULO SCHEDULES

PROJECT NO. 00373079
SHEET SCH 2



			NO.	DATE	REVISION	BY
PROJECT DATE: .	DRAWN BY:	Init	.	.	.	.
	DESIGNED BY:	Init	.	.	.	.
	CHECKED BY:	Init	.	.	.	.

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HAWKS LANDING NORTH FLOOD MITIGATION
CITY OF MADISON
DANE COUNTY, WISCONSIN

MAINTENANCE PLAN (CITY USE ONLY)

PROJECT NO.
00373079

SHEET
MN-1