Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
PLAN OF PROPOSED IMPROVEMENT

WILLOW CREEK
STORMWATER TREATMENT

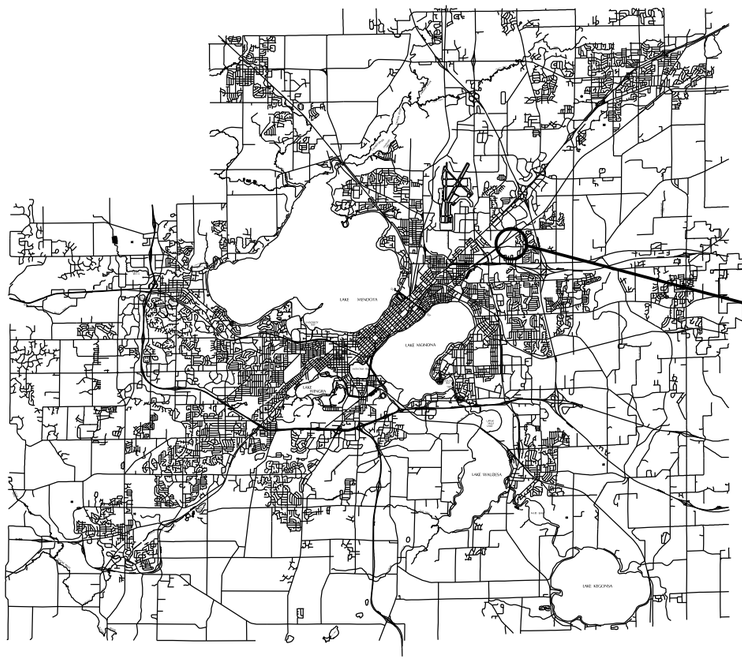
CITY PROJECT NO. 53W1734

INDEX OF SHEETS

CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

GAS	G
STORM SEWER	ST
SANITARY SEWER	SAN
WATER	W
OVERHEAD ELECTRIC	OH
POWER POLE	
HANDICAP RAMP	
COMBUSTIBLE FLUIDS	CAUTION



N
W E
S

PROJECT LOCATION

PLANNED EARTHWORK QUANTITIES
EXCAVATION CUT (MEASURED PLAN QUANTITY).....700 CY

PUBLIC IMPROVEMENT PROJECT APPROVED

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

City Engineer _____ Date _____

PROJECT DESIGNED BY:

PLOT SCALE: ____
PLOT NAME: ____
REV. DATE: ____
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53W1734\Storm\Design\TITLE.dgn

DATE: 12/11/2015

WILLOW CREEK STORMWATER TREATMENT PROJECT NO. 53W1734	SHEET NO. 2
PLAN VIEW (SCALE = 1:30)	
PLAN	CITY OF MADISON

PLOT SCALE: ——

PLOT NAME: ——

REV. DATE: ——

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

INSTALL NEW 10'X6' CBC

S-3 S-2 P-1 S-1 P-2 R-1

72"x12"

100+00 POB 100+00.00

100+76.22 PI

101+06 101+05.89 POE

BOUNDARY OF CONCRETE

20+00 20+00.00 POB

20+66 20+65.83 POE

30+00 30+00.00 POB

30+66 30+65.83 POE

40+00 40+00.00 POB

40+75 40+74.70 POE

50+00 50+00.00 POB

51+00

52+00

52+22 52+21.87 POE

WEIR ELEV=850.1 FT AMSL

HERRICK DRIVE

BUILDING

GAS TANK

GAS PUMP

BOLLARDS

ASPHALT

ASPHALT DRIVEWAY

POLE SHED

CNC.

BIT.

WALL

STEAM LINES NOT MARKED

CNC. FLUME

BIT. PARKING

ASPHALT PATH

FENCE

CONCRETE BLOCK WALL

WISCONSIN D.O.T. R/W

RAILROAD TRACKS

NO MARKINGS

STEAM LINE STRUCTURE

CREEK

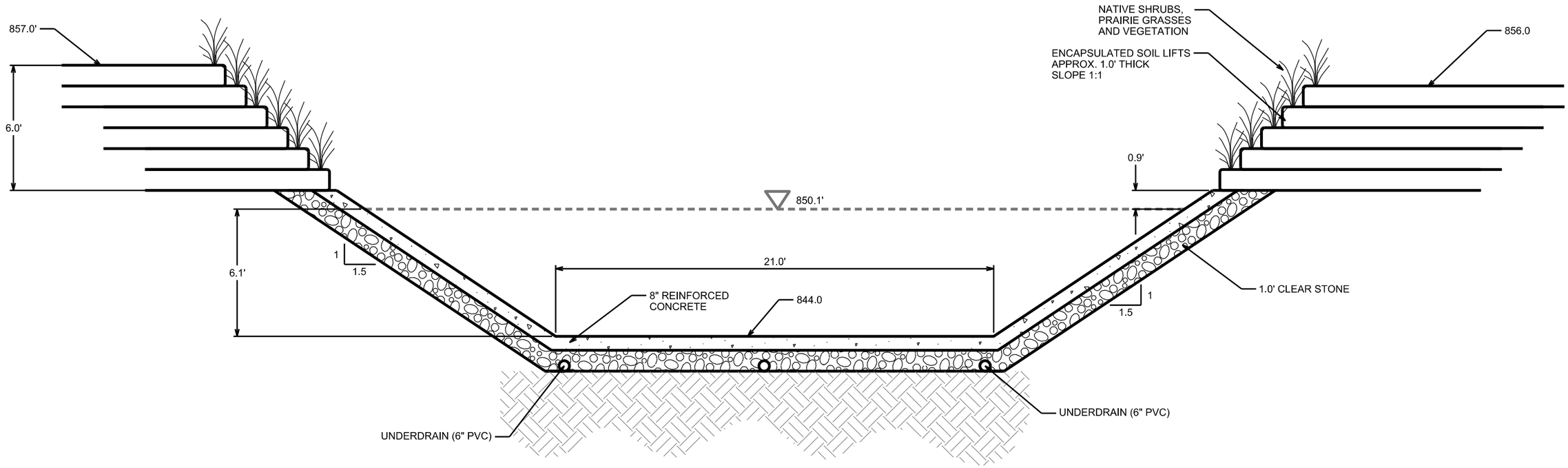
FILE NAME: M:\DESIGN\Projects\53W1734\Storm\Design\53W1734STM-StormPlan.dgn

DATE: 12/11/2015

PLOT SCALE: 29.9999 sf / In.

WILLOW CREEK STORMWATER TREATMENT PROJECT NO. 53W1734	SHEET NO. 3
DETAIL (NOT TO SCALE)	
CHANNEL DETAILS	CITY OF MADISON

SECTION A-A'



PLOT SCALE: ____

PLOT NAME: ____

REV: DATE: ____

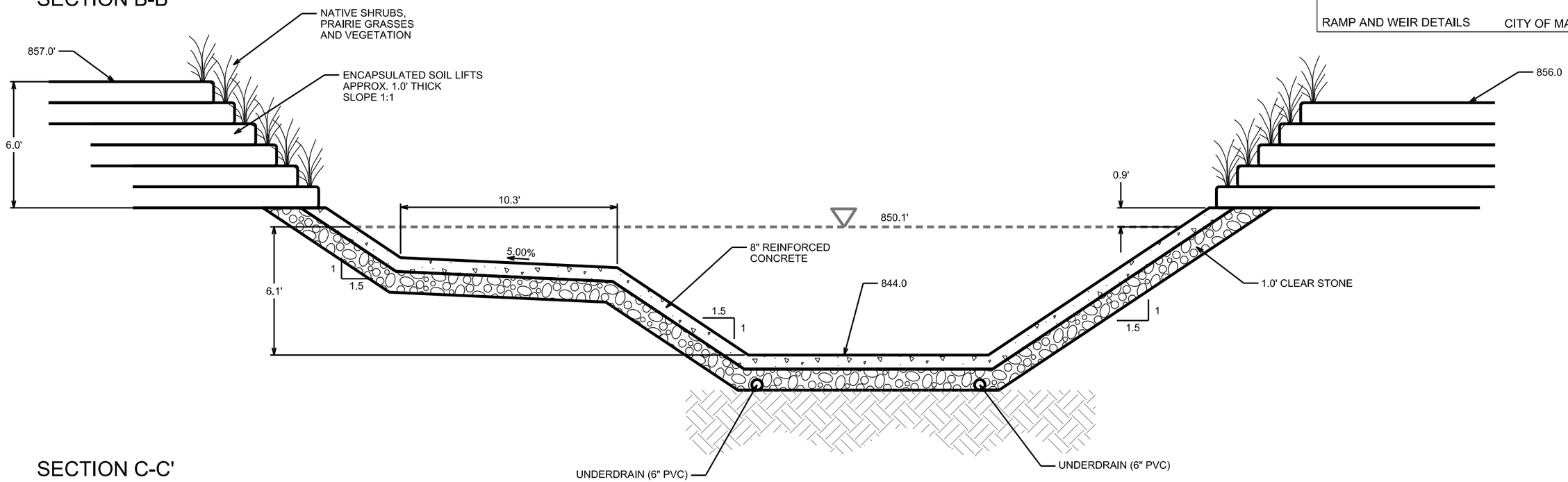
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53W1734\Storm\Design\53W1734STM-StormDetail.dgn

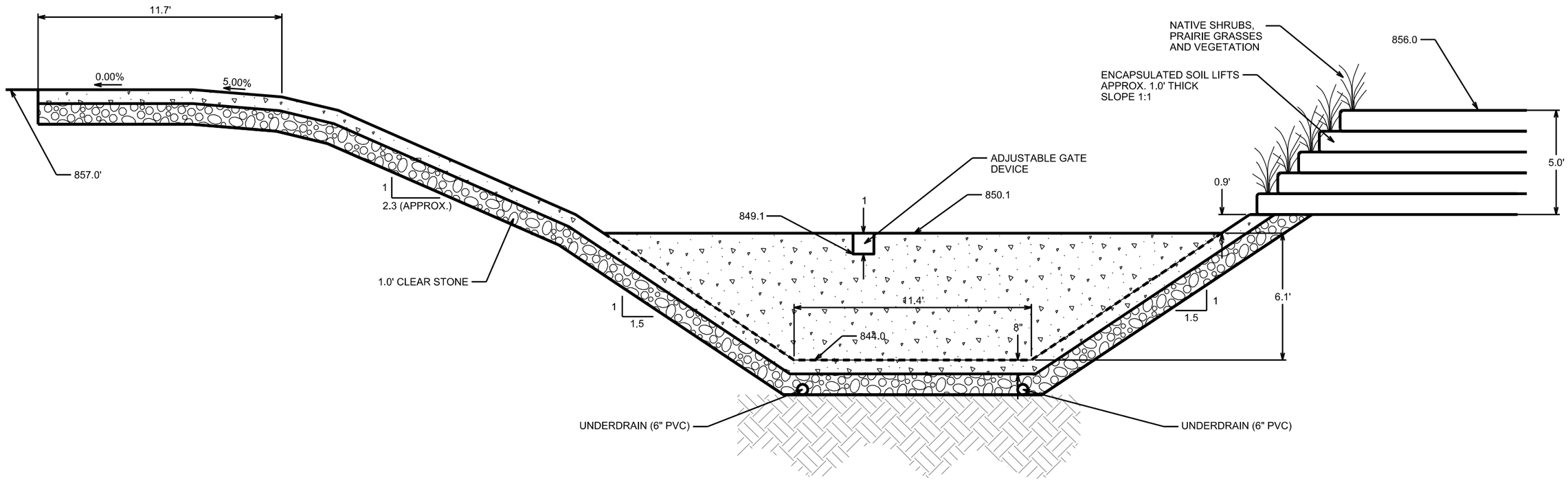
DATE: 12/11/2015

WILLOW CREEK STORMWATER TREATMENT PROJECT NO. 53W1734	SHEET NO. 4
DETAIL (NOT TO SCALE)	
RAMP AND WEIR DETAILS	CITY OF MADISON

SECTION B-B'



SECTION C-C'



PLOT SCALE: ____
PLOT NAME: ____
REV: DATE: ____
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53W1734\Storm\Design\53W1734STM-StormDetail.dgn DATE: 12/11/2015

WILLOW CREEK STORMWATER TREATMENT PROJECT NO. 53W1734	SHEET NO. 5
PLAN (SCALE = 1:30)	
EROSION CONTROL	CITY OF MADISON

PLOT SCALE: ——

PLOT NAME: ——

REV. DATE: ——

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

INSTALL NEW 10'X6' CBC

8" SILT SOCK

ENCAPSULATED SOIL LIFTS

CONSTRUCTION ENTRANCE

S-1 S-2 S-3 P-1 P-2 R-1

72"x12"

8" SILT SOCK

BOUNDARY OF CONCRETE

ENCAPSULATED SOIL LIFTS

SILT FENCE

WEIR
ELEV=850.1 FT AMSL

COFFER DAM
ELEV SHOWN = 856.0 FT AMSL
ACTUAL ELEV TO BE SET BY CONTRACTOR

8" SILT SOCK

HERRICK DRIVE

NOTE: ALL STORM DRAINS WILL BE DIVERTED AROUND ACTIVE CONSTRUCTION AREAS. METHOD TO BE DETERMINED BY CONTRACTOR.

FILE NAME: M:\DESIGN\Projects\53W1734\Storm\Design\53W1734STM-StormPlan_EC.dgn

DATE: 12/15/2015

PLOT SCALE: 29.9999 sf / In.

STORM SEWER SCHEDULE

WILLOW CREEK STORMWATER TREATMENT	SHEET NO.
PROJECT NO. 53W1734	6
STORM SEWER SCHEDULE	CITY OF MADISON

PLOT SCALE: _ _ _

PLOT NAME: _ _ _

REV. DATE: _ _

PROPOSED STORM STRUCTURES

STRUC NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-1	100+92.51	RT-0.00	SQUARE-CUT HEADWALL	857.52	846.85	10.67	
S-2	100+76.22	RT-0.00	CONCRETE COLLAR	857.70	846.88	10.82	PER S.D.D. 5.4.5; SEE SPEC. NOTE 1
S-3	100+32.49	LT-0.05	CONCRETE COLLAR	858.64	846.97	11.67	PER S.D.D. 5.4.5; SEE SPEC. NOTE 1

PROPOSED STORM PIPES

PIPE NO.	FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	EI # (DWNSTRM)	EI # (UPSTRM)	PIPE LENGTH (FT)	PLAN LENGTH (FT)	SLOPE (%)	SIZE (DIA)	TYPE	NOTES
P-1	S-1	S-2	846.85	846.88	16	16	0.18%	10'X6'	CONCRETE BOX CULVERT	
P-2	S-2	S-3	846.88	846.97	44	44	0.21%	10'X6'	CONCRETE BOX CULVERT	

STORM PIPE REMOVAL

PIPE REMOVAL NO.	REMOVE FROM	REMOVE TO	LENGTH (FT)	PAID (Y/N)	SIZE	TYPE	NOTES
R-1	S-3	STA 100+49.19 RT-13.32	22	N	10'X6'	CONCRETE BOX CULVERT	

NOTE: PLAN LENGTH (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.

SPECIAL NOTES:

1) PLACE SEWER ELECTRONIC MARKER ABOVE STORM SEWER TAP AND BEND LOCATIONS

STANDARD NOTES:

- 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
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.

- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- 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 LAUREN STRIEGL OF CITY ENGINEERING AT (608) 266-4094, LSTRIEGL@CITYOFMADISON.COM, FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608) 264-9275.