

Madison, Wisconsin

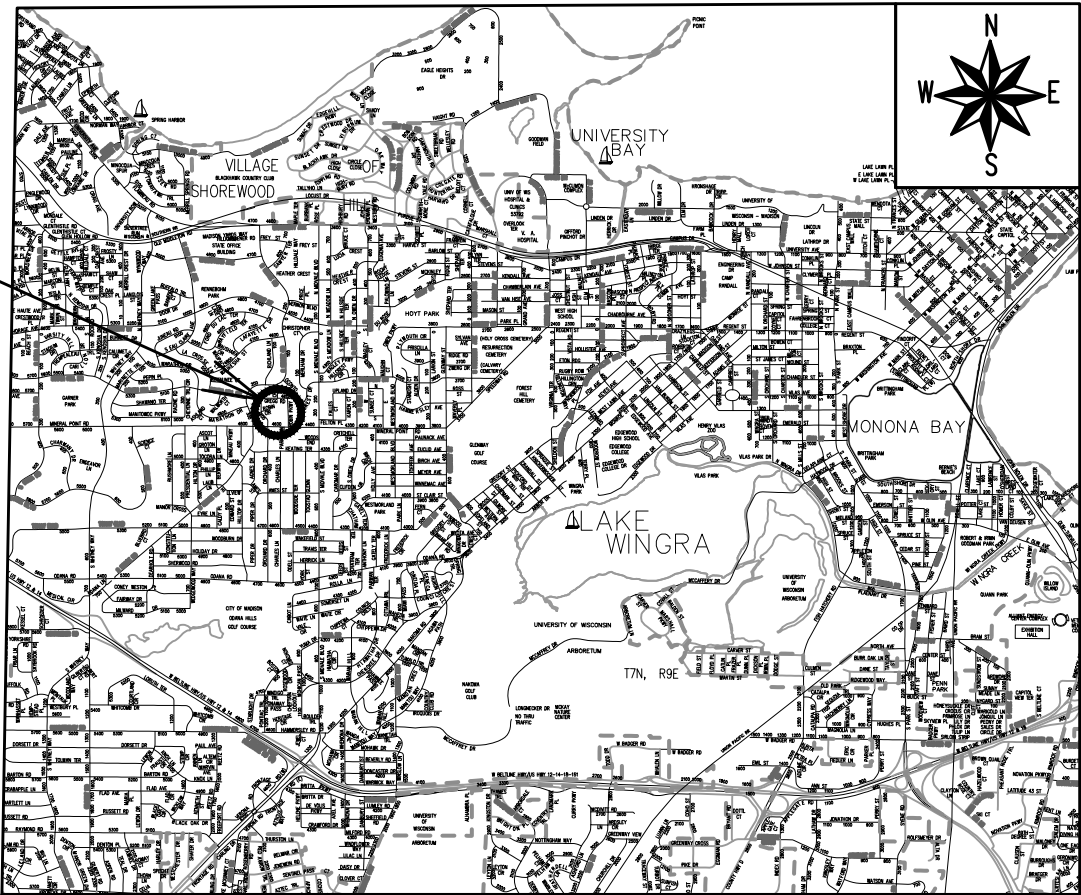
INDEX OF SHEETS

SHEET NO.	1	COVER SHEET
SHEET NO.	EX1	EXISTING CONDITIONS
SHEET NO.	S1	OVERALL SITE LAYOUT
SHEET NO.	CP1	CLEARING PLAN
SHEET NO.	GP1	GRADING & EROSION CONTROL PLAN-NORTH AREA
SHEET NO.	GP2	GRADING & EROSION CONTROL PLAN -SOUTH AREA
SHEET NO.	U1	UTILITY PLAN
SHEET NO.	U2	STORMSEWER SCHEDULE
SHEET NO.	VP1	VEGETATION PLAN
SHEET NO.	D1	MAINTENANCE ACCESS DETAIL
SHEET NO.	P1 - P2	ROBIN GREENWAY ACCESS PLAN AND PROFILE
SHEET NO.	X1-X5	ROBIN GREENWAY ACCESS CROSS SECTIONS

CITY OF MADISON  
CITY ENGINEERING DIVISION  
DEPARTMENT OF PUBLIC WORKS  
PLAN OF PROPOSED IMPROVEMENT  
ROBIN GREENWAY IMPROVEMENTS

CITY PROJECT NO. 11066  
CONTRACT NO. 9333

PROJECT  
LOCATION



UTILITY CONTACTS

MG&E (Gas): Roger Ahles 608-252-5682  
MG& E (Elec): Mark Bohm 608-252-4730  
AT&T: Matthew Vachalik 262-707-6216

PUBLIC IMPROVEMENT PROJECT  
APPROVED

APPROVED DATE

BY THE COMMON COUNCIL  
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN  
APPROVED BY:

City Engineer

Date

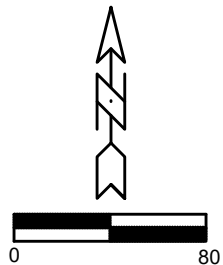
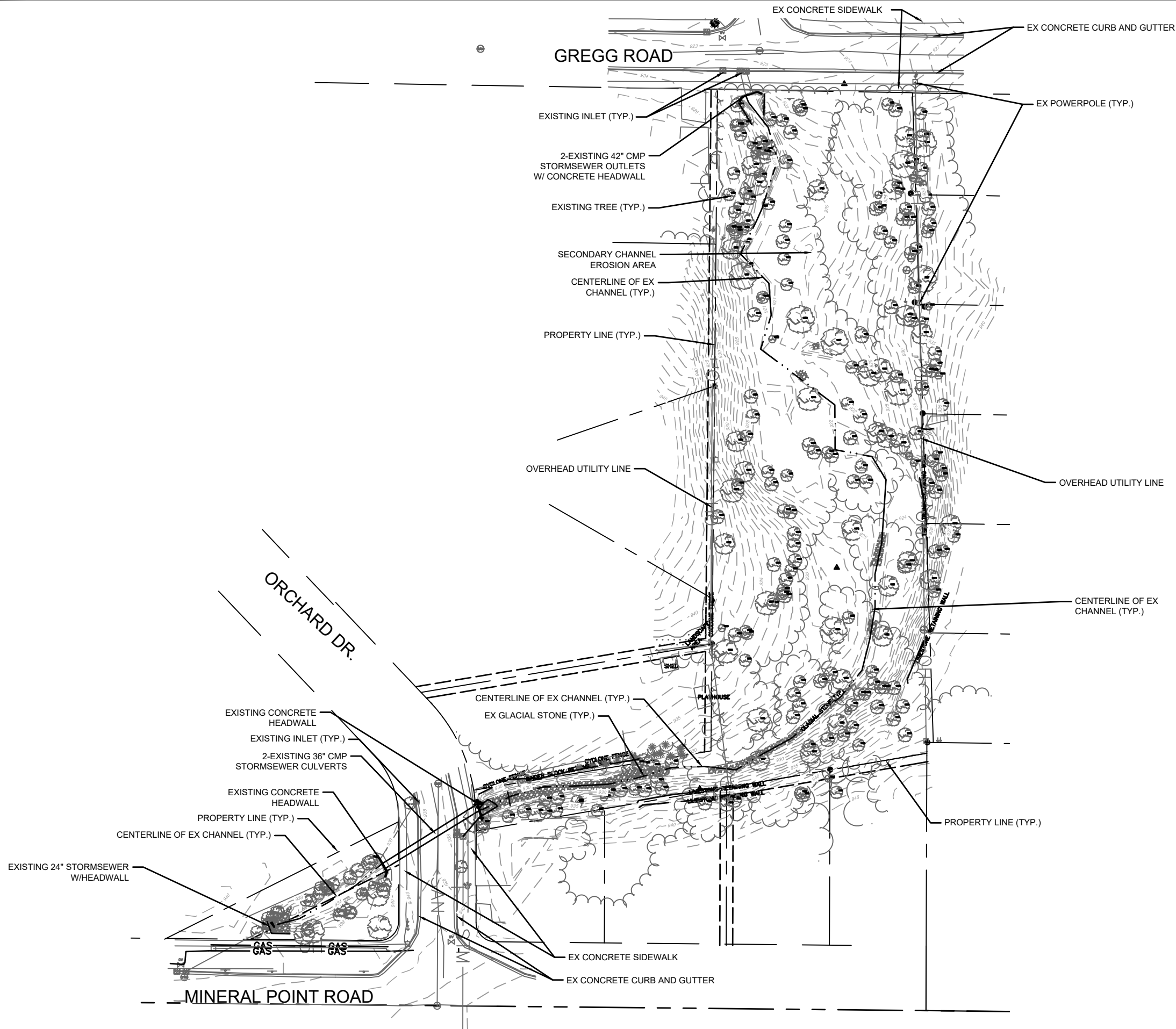
STORM SEWER  
DESIGNED BY:


PLOT SCALE: 1 IN=1 FT\_XREF

PLOT NAME: ---

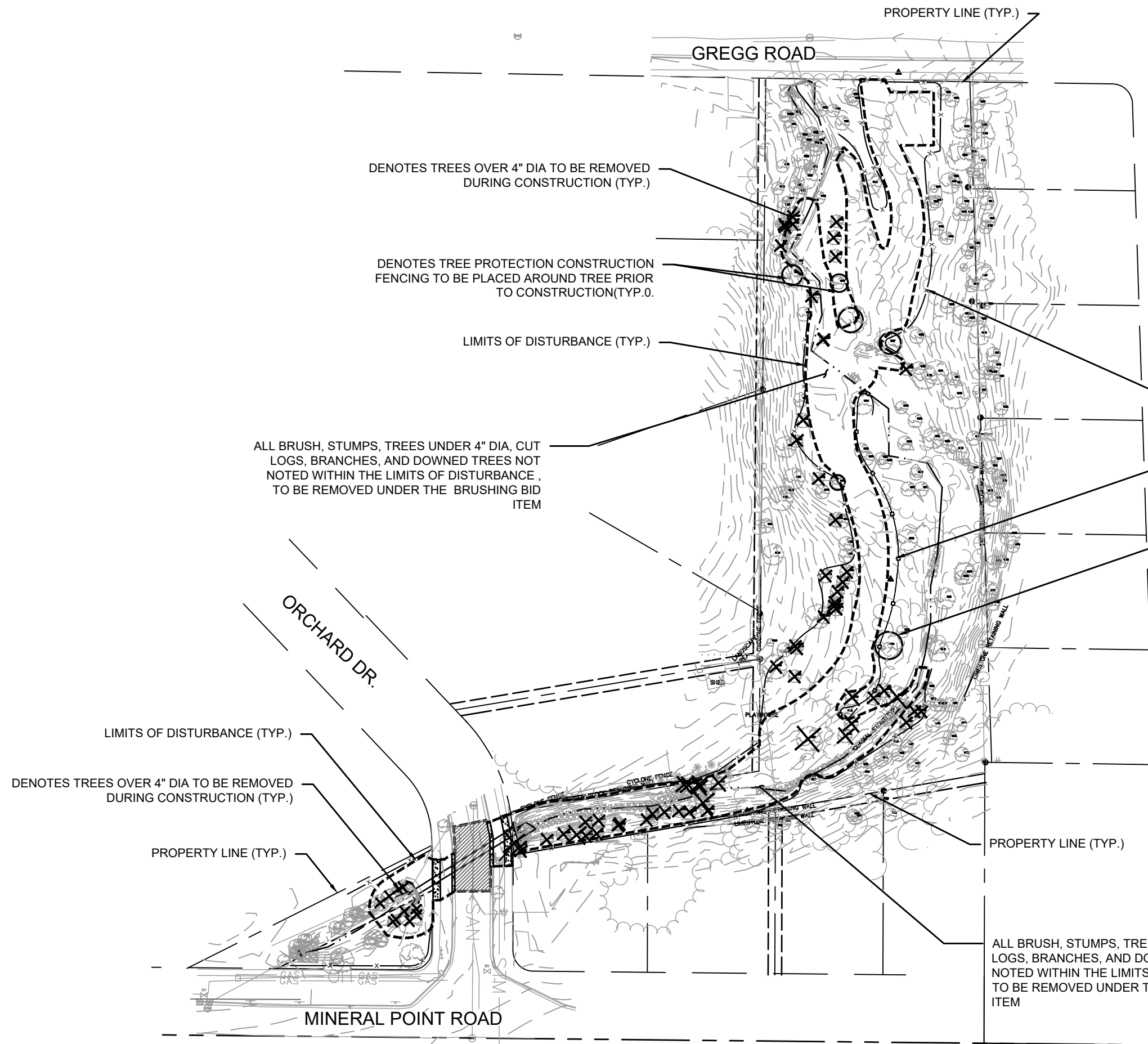
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ORIGINATOR: CITY\_OF\_MADISON



	14412		ORCHARD DRIVE		9333		EX 1		
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14412		ORCHARD DRIVE		9333		EX 1		EX 1	
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ROBIN GREENWAY IMPROVEMENTS		14412		14412		14412		14412	
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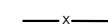
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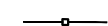
DENOTES TREES OVER 6" DIAMETER TO BE REMOVED FOR GREENWAY IMPROVEMENTS. ALL OTHER TREES UNDER 6" DIAMETER, BRUSH, STUMPS, CUT LOGS, BRANCHES AND DOWNED TREES SHALL BE REMOVED BY THE CONTRACTOR WITHIN THE LIMITS OF DISTURBANCE UNDER THE BRUSHING BID ITEM. VERIFY TREES TO BE REMOVED DURING CONSTRUCTION WITH ENGINEER



DENOTES TREE PROTECTION FENCING. PLACE ORANGE CONSTRUCTION FENCE AROUND TREES DENOTED ADJACENT TO THE GRADING LIMITS TO PROTECT TREES DURING CONSTRUCTION



ORANGE CONSTRUCTION FENCE



SILT FENCE

ORANGE CONSTRUCTION FENCE (TYP.)

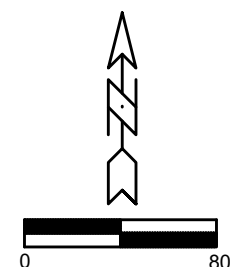
SILT FENCE (TYP.)

DENOTES TREE PROTECTION CONSTRUCTION FENCING TO BE PLACED AROUND TREE PRIOR TO CONSTRUCTION.

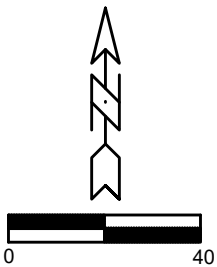
### GENERAL NOTES

1. TREES CALLED OUT FOR REMOVAL ARE TREES THAT ARE TO BE REMOVED AS PART OF THIS CONSTRUCTION PROJECT. CARE SHALL BE TAKEN TO LIMIT DISTURBANCE WHEN REMOVING TREES THAT FALL OUTSIDE THE GRADING LIMITS
2. THE CONTRACTOR SHALL CONSULT THE ENGINEER PRIOR TO LIMBING ANY TREES THAT ARE TO REMAIN
3. BRANCHES BROKEN ON SAVED TREES, DURING THE FELLING OF ADJACENT TREES, SHALL BE CUT OR LIMBED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
4. STUMPS WITHIN THE GRADING LIMITS SHALL BE GRUBBED OR PULLED TO MEET FINAL GRADE.
5. ALL OTHER TREES THAT ARE NOT NOTED ON THIS PLAN SHALL REMAIN.

ALL BRUSH, STUMPS, TREES UNDER 4" DIA, CUT LOGS, BRANCHES, AND DOWNED TREES NOT NOTED WITHIN THE LIMITS OF DISTURBANCE, TO BE REMOVED UNDER THE BRUSHING BID ITEM



14412	ORCHARD DRIVE	9333	CONTRACT NO:	GP1
CLEARING PLAN				
ROBIN GREENWAY IMPROVEMENTS				
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14412				
CP1				



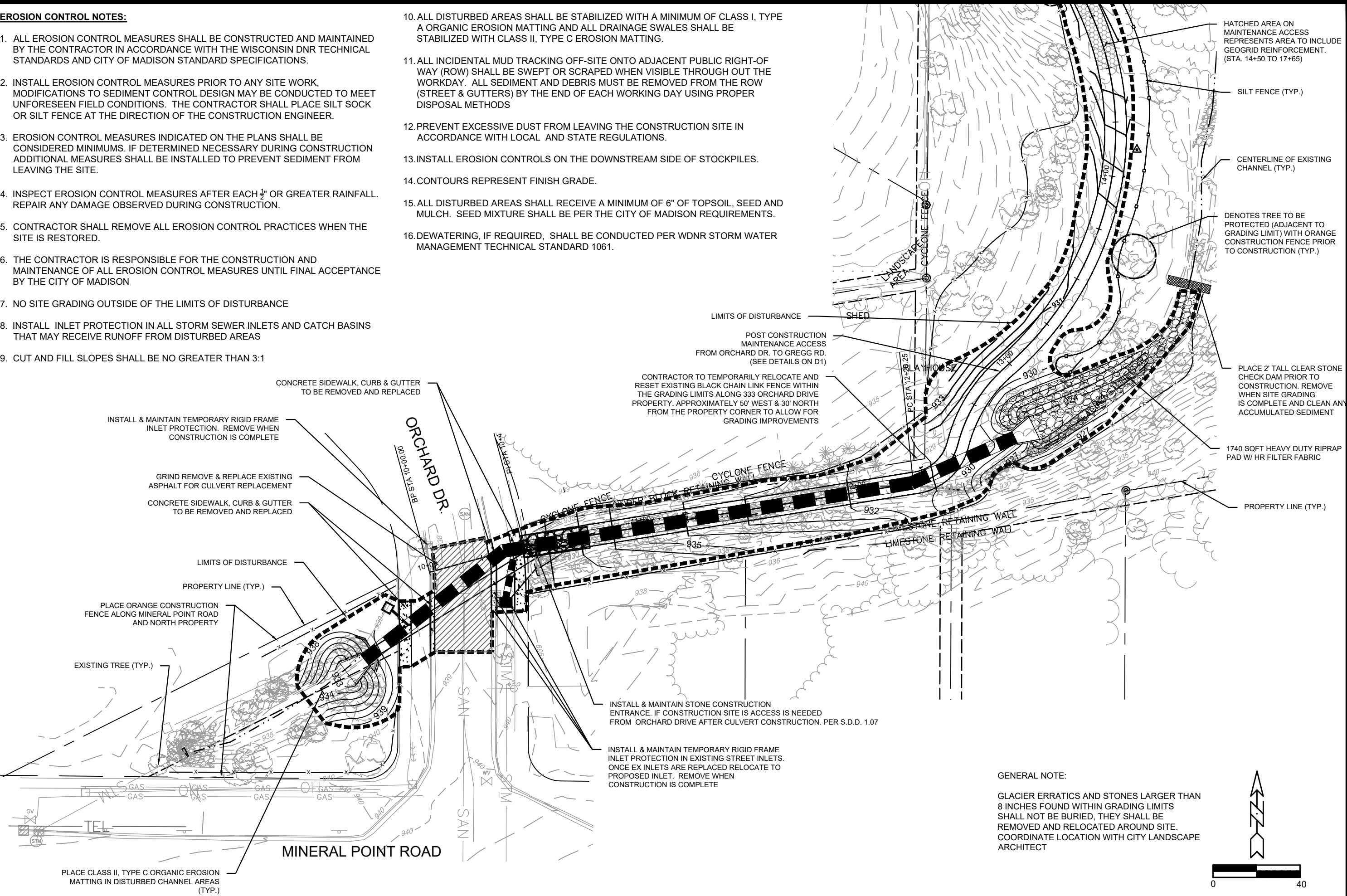
	14412	GRADING AND EROSION CONTROL PLAN - NORTH AREA				14412				-	-	-	-	-	-
	GP2		ROBIN GREENWAY IMPROVEMENTS	ORCHARD DRIVE				-	-	-	-	-	-	-	
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				9333				-	-	-	-	-	-	-	
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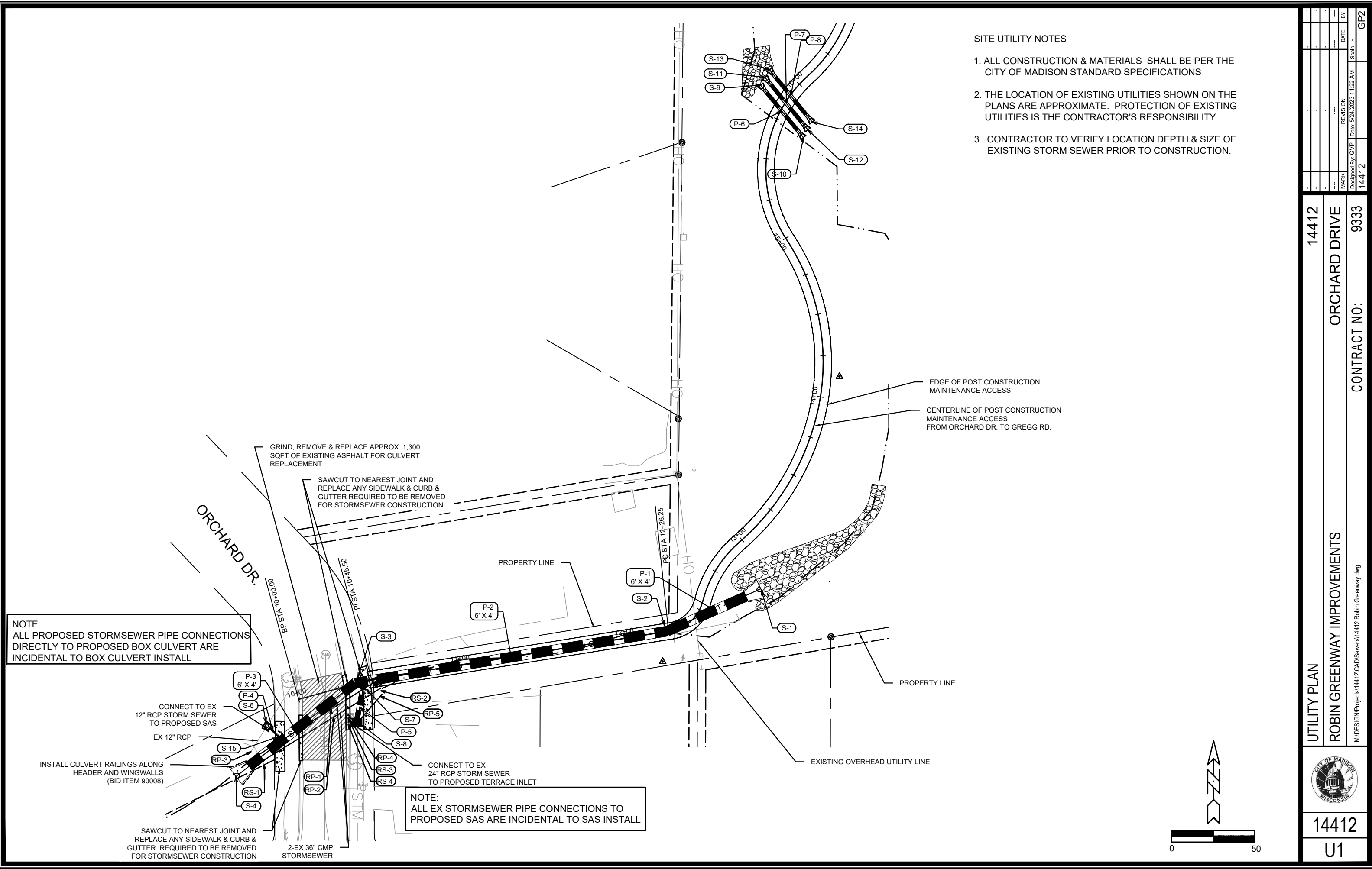
EROSION CONTROL NOTES:

1. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE WISCONSIN DNR TECHNICAL STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.
2. INSTALL EROSION CONTROL MEASURES PRIOR TO ANY SITE WORK, MODIFICATIONS TO SEDIMENT CONTROL DESIGN MAY BE CONDUCTED TO MEET UNFORESEEN FIELD CONDITIONS. THE CONTRACTOR SHALL PLACE SILT SOCK OR SILT FENCE AT THE DIRECTION OF THE CONSTRUCTION ENGINEER.
3. EROSION CONTROL MEASURES INDICATED ON THE PLANS SHALL BE CONSIDERED MINIMUMS. IF DETERMINED NECESSARY DURING CONSTRUCTION ADDITIONAL MEASURES SHALL BE INSTALLED TO PREVENT SEDIMENT FROM LEAVING THE SITE.
4. INSPECT EROSION CONTROL MEASURES AFTER EACH 1/2" OR GREATER RAINFALL. REPAIR ANY DAMAGE OBSERVED DURING CONSTRUCTION.
5. CONTRACTOR SHALL REMOVE ALL EROSION CONTROL PRACTICES WHEN THE SITE IS RESTORED.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON
7. NO SITE GRADING OUTSIDE OF THE LIMITS OF DISTURBANCE
8. INSTALL INLET PROTECTION IN ALL STORM SEWER INLETS AND CATCH BASINS THAT MAY RECEIVE RUNOFF FROM DISTURBED AREAS
9. CUT AND FILL SLOPES SHALL BE NO GREATER THAN 3:1

10. ALL DISTURBED AREAS SHALL BE STABILIZED WITH A MINIMUM OF CLASS I, TYPE A ORGANIC EROSION MATTING AND ALL DRAINAGE SWALES SHALL BE STABILIZED WITH CLASS II, TYPE C EROSION MATTING.
11. ALL INCIDENTAL MUD TRACKING OFF-SITE ONTO ADJACENT PUBLIC RIGHT-OF-WAY (ROW) SHALL BE SWEEPED OR SCRAPED WHEN VISIBLE THROUGH OUT THE WORKDAY. ALL SEDIMENT AND DEBRIS MUST BE REMOVED FROM THE ROW (STREET & GUTTERS) BY THE END OF EACH WORKING DAY USING PROPER DISPOSAL METHODS
12. PREVENT EXCESSIVE DUST FROM LEAVING THE CONSTRUCTION SITE IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.
13. INSTALL EROSION CONTROLS ON THE DOWNSTREAM SIDE OF STOCKPILES.
14. CONTOURS REPRESENT FINISH GRADE.
15. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 6" OF TOPSOIL, SEED AND MULCH. SEED MIXTURE SHALL BE PER THE CITY OF MADISON REQUIREMENTS.
16. DEWATERING, IF REQUIRED, SHALL BE CONDUCTED PER WDNR STORM WATER MANAGEMENT TECHNICAL STANDARD 1061.



14412	ORCHARD DRIVE	9333	CONTRACT NO:	GP2
14412	ROBIN GREENWAY IMPROVEMENTS			
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CITY OF MADISON WISCONSIN				
14412	GP2			



- SITE UTILITY NOTES
1. ALL CONSTRUCTION & MATERIALS SHALL BE PER THE CITY OF MADISON STANDARD SPECIFICATIONS
  2. THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. PROTECTION OF EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY.
  3. CONTRACTOR TO VERIFY LOCATION DEPTH & SIZE OF EXISTING STORM SEWER PRIOR TO CONSTRUCTION.

UTILITY PLAN	14412	ORCHARD DRIVE	CONTRACT NO: 9333	GP2
ROBIN GREENWAY IMPROVEMENTS				
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	14412	U1		

STORM SEWER SCHEDULE

ROBIN GREENWAY IMPROVEMENTS		SHEET NO.
PROJECT NO. 14412		1 of 1
STORM SEWER SCHEDULE		CITY OF MADISON

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	LOCATION (NORTHING)	LOCATION (EASTING)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-1	12+83.22	28.72'	478005.30	802203.96	4'x6' BOX WINGWALL, 15 DEG ANGLE	-	924.00		W/Gate & Concrete Splash Pad(1)(2)
S-2	12+25.51	-0.21'	477979.84	802147.75	Bend In Box	-	925.4		Incidental to P-1
S-3	10+35.32	-0.40'	477948.60	801960.16	Bend In Box	-	929.71		Incidental to P-2
S-4	NA	NA	477892.42	801888.54	4'x6' BOX WINGWALL, 15 DEG ANGLE	-	931.77		W/Gate & Concrete Splash Pad(1)(3)
S-6	NA	NA	477923.00	801907.29	3'x3' STORM SAS	938.76	933	5.76	W/R-1878-A10G (4)
S-7	10+39.58	3.06'	477946.39	801965.19	36" RCP CONNECTION TO 4'X6" BOX	-	930.1		Incidental to P-2
S-8	10+30.22	22.61'	477925.06	801961.36	TERRACE INLET TYPE 1	938.15 (TC)	931.64	6.51	2' Curb Radius (5)(6)(7)
S-9	15+86.86	-18.25'	478308.29	802203.84	24" RCP APRON ENDWALL	923.42			
S-10	15+69.95	19.12'	478276.74	802229.62	24" RCP APRON ENDWALL	923.72			
S-11	15+91.15	-18.68'	478312.93	802206.50	24" RCP APRON ENDWALL	923.42			
S-12	15+77.09	19.77'	478281.38	802232.28	24" RCP APRON ENDWALL	923.72			
S-13	15+95.40	-19.41'	478317.58	802209.16	24" RCP APRON ENDWALL	923.42			
S-14	15+84.33	19.92'	478286.03	802234.94	24" RCP APRON ENDWALL	923.72			
S-15	NA	NA	477916.47	801914.33	12" CONNECTION TO 4'X6" BOX	933.68			

SPECIFIC NOTES:

- (1) SEE S.D.D. 5.5.1, 5.5.1A & B
- (2) SEE S.D.D. 5.6.3
- (3) SEE S.D.D. 5.6.2
- (4) CONNECT TO EX 12" RCP, CONNECTION PAID AS INCIDENTAL TO S-6
- (5) CONNECT TO EX 24" RCP, CONNECTION PAID AS INCIDENTAL TO S-8
- (6) SEE S.D.D. 5.7.12
- (7) CASTING SHALL BE SET 0.2' BELOW TOP OF CURB

STANDARD NOTES:

-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.

- 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.

PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) PIPE LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-1	S-1	S-2	924.00	925.40	62	62	2.27%	6'X4'	RCP BOX	-
P-2	S-2	S-3	925.40	929.71	190	190	2.27%	6'X4'	RCP BOX	-
P-3	S-3	S-4	929.71	931.77	91	91	2.26%	6'X4'	RCP BOX	-
P-4	S-15	S-6	931.95	933.00	13	8	10.94%	12" RCP	TYPE 1	-
P-5	S-7	S-8	930.10	931.64	25	20	7.11%	36" RCP	TYPE 1	-
P-6	S-9	S-10	921.00	921.30	41	41	0.74%	24" RCP	TYPE 1	-
P-7	S-11	S-12	921.00	921.30	41	41	0.74%	24" RCP	TYPE 1	-
P-8	S-13	S-14	921.00	921.30	41	41	0.74%	24" RCP	TYPE 1	-

EXISTING STORM STRUCTURE REMOVALS

STRUC. NO.	LOCATION (NORTHING)	LOCATION (EASTING)	TYPE	LENGTH (FT)	NOTES
RS-1	477902.13	801900.18	CONCRETE HEADWALL	NA	REMOVAL PAID UNDER BID ITEM 90009
RS-2	477946.00	801974.40	CONCRETE HEADWALL	NA	REMOVAL PAID UNDER BID ITEM 90009
RS-3	477928.99	801956.57	STREET INLET	NA	REMOVAL PAID FOR UNDER PIPE REMOVAL
RS-4	477925.28	801956.58	STREET INLET	NA	REMOVAL PAID FOR UNDER PIPE REMOVAL

STORM PIPE REMOVALS

PIPE REMOV.	REMOVE FRC LENGTH (FT)	SIZE	TYPE
RP-1	END OF PIPE	89 36"	CMP
RP-2	END OF PIPE	88 36"	CMP
RP-3	END OF PIPE	20 12"	RCP
RP-4	END OF PIPE	6 15"	RCP

- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.

- SURVEY OR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.

- 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.

- 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 GRANT

POKOS OF CITY ENGINEERING AT GPOKOS@CITYOFMADISON.COM FOR PRECAST APPROVALS AND TO SEND SHOP DRAWINGS

14412


ORCHARD DRIVE

9333

CONTRACT NO:

STORM SEWER SCHEDULE

ROBIN GREENWAY IMPROVEMENTS



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U2

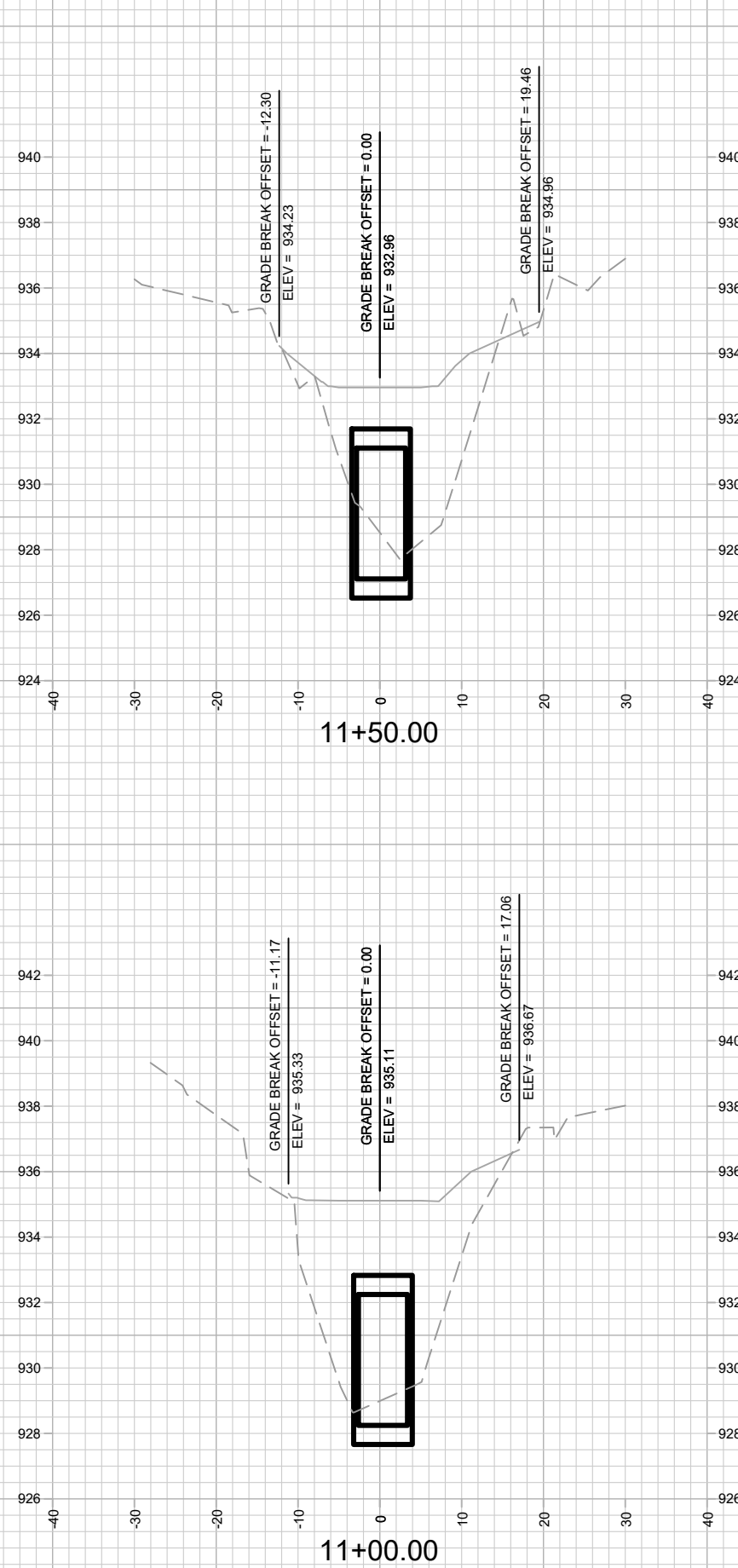




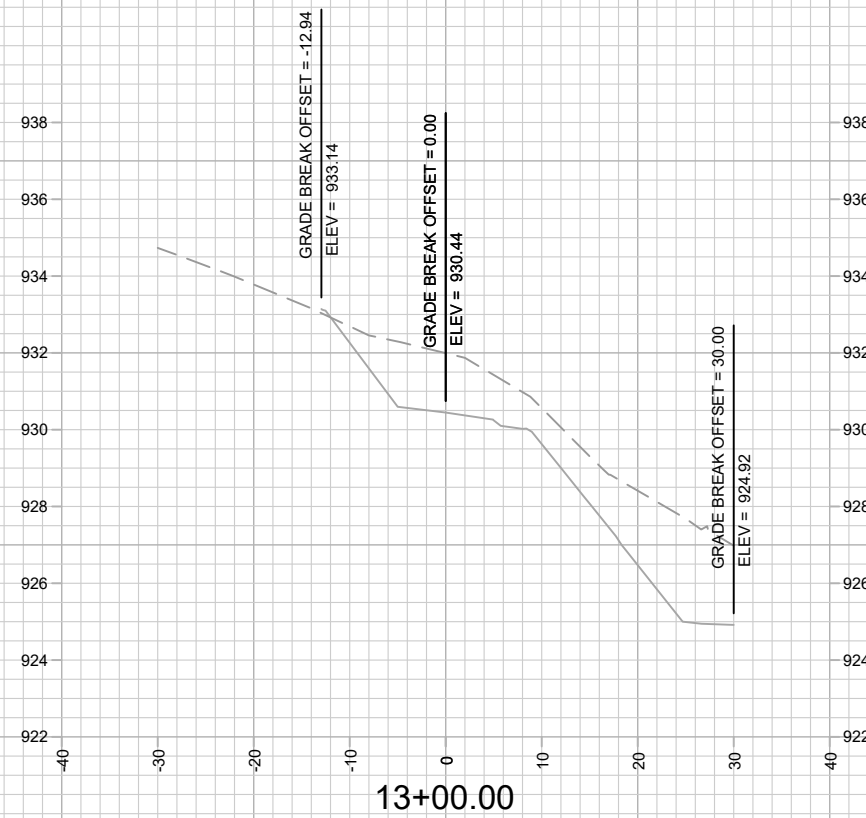
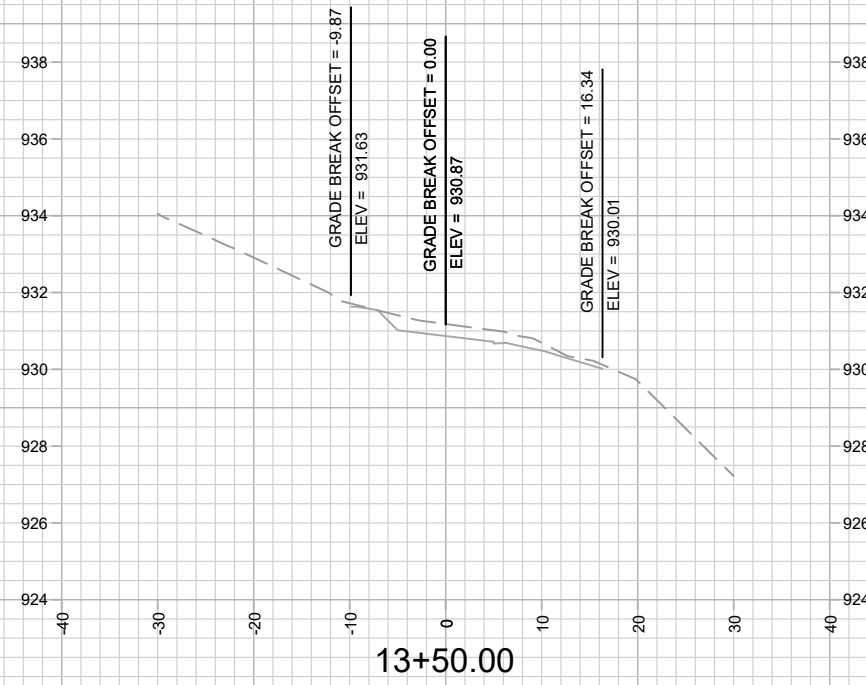
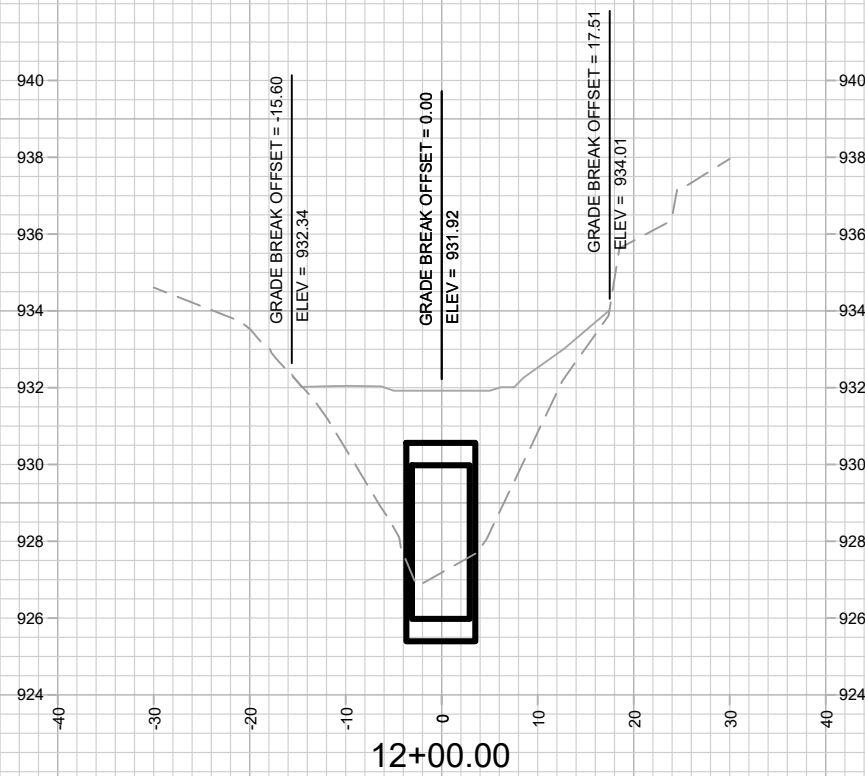
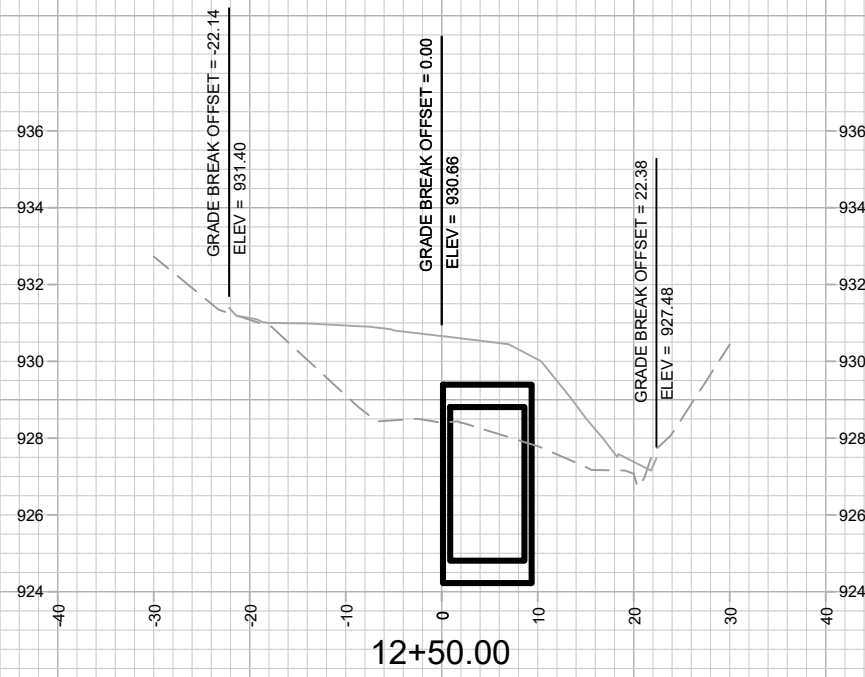












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## MAINTENANCE ACCESS CROSS SECTIONS

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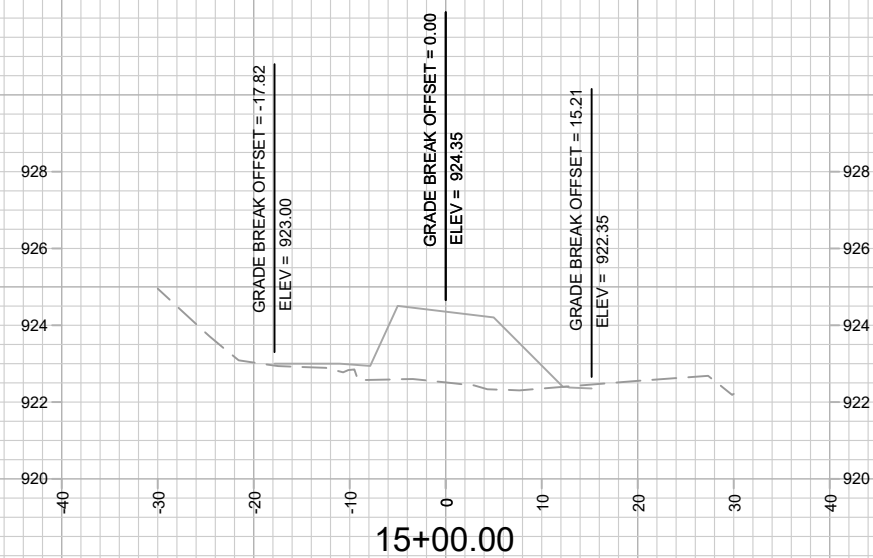
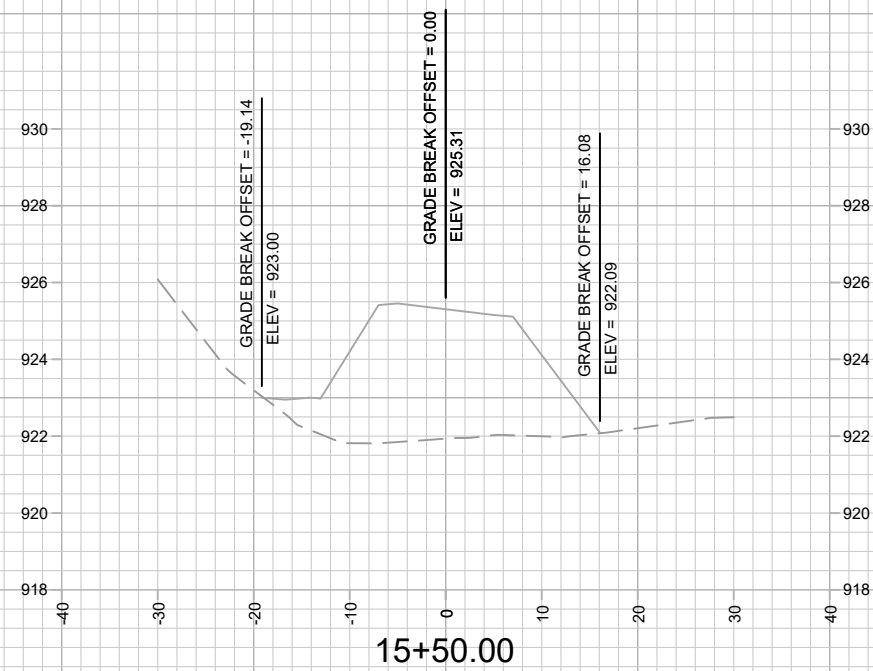
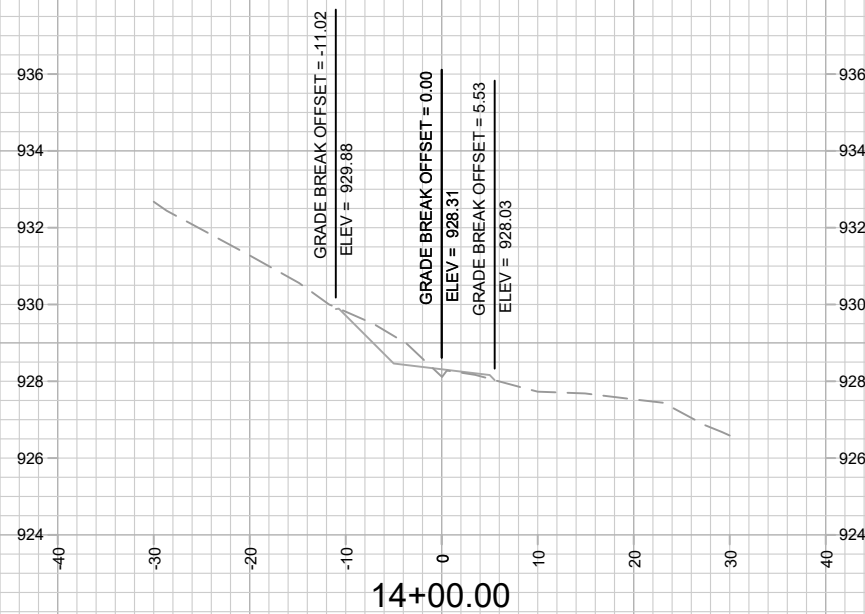
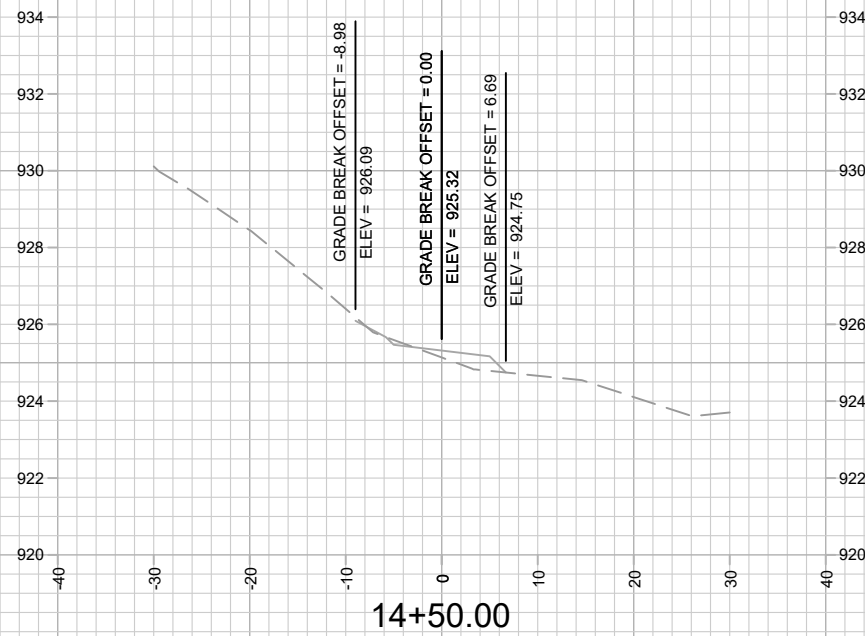
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ORCHARD DRIVE

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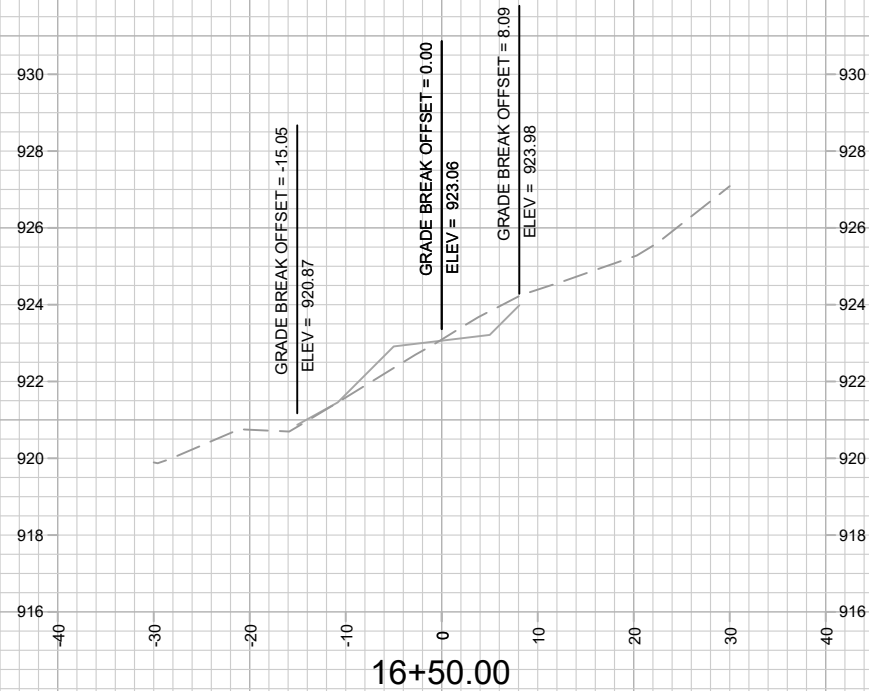
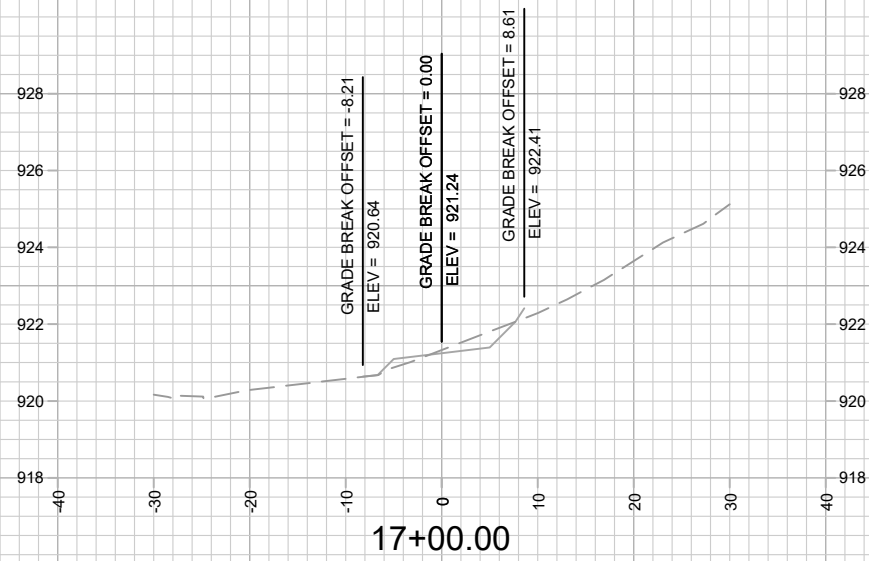
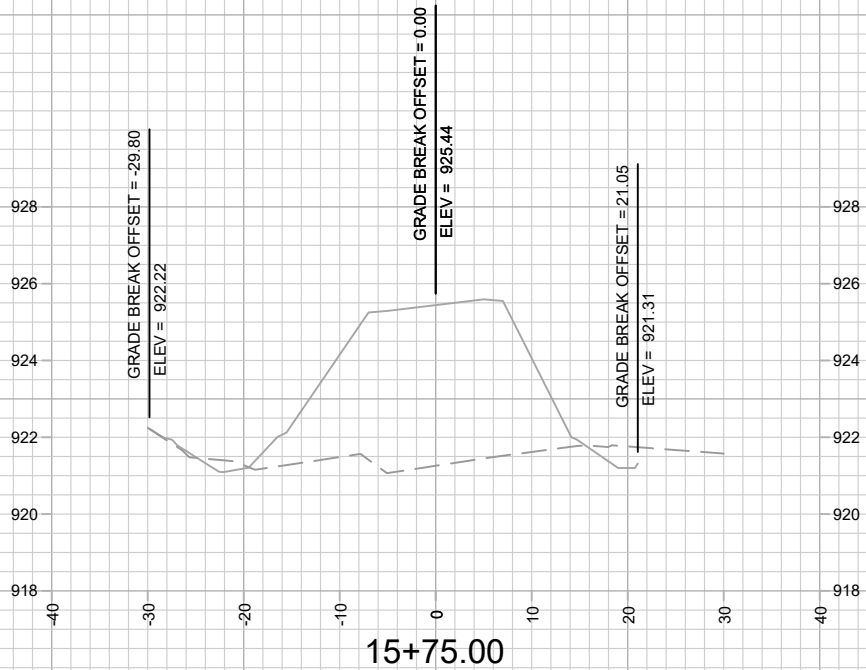
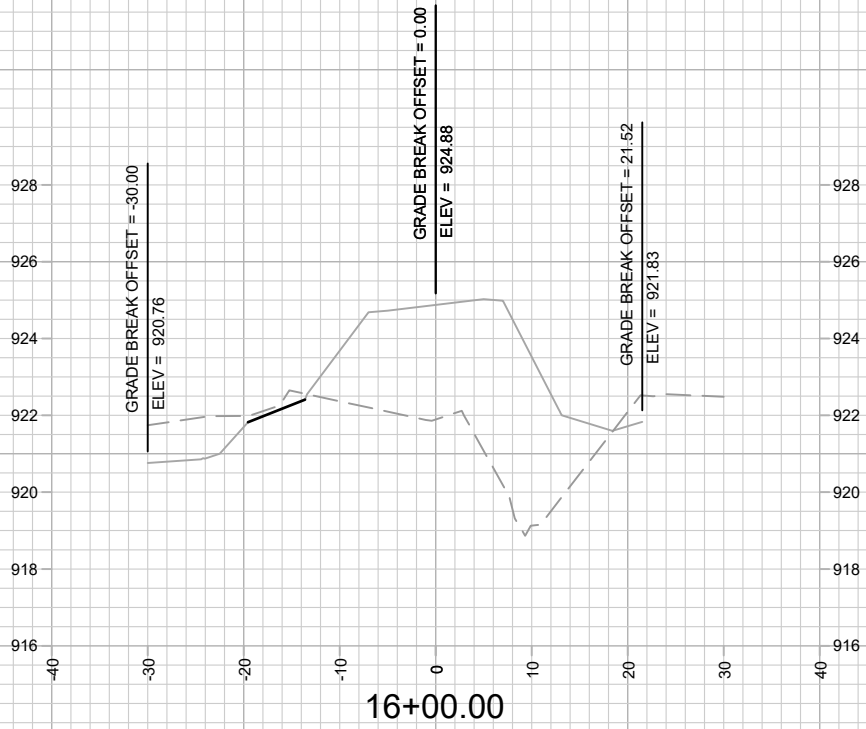
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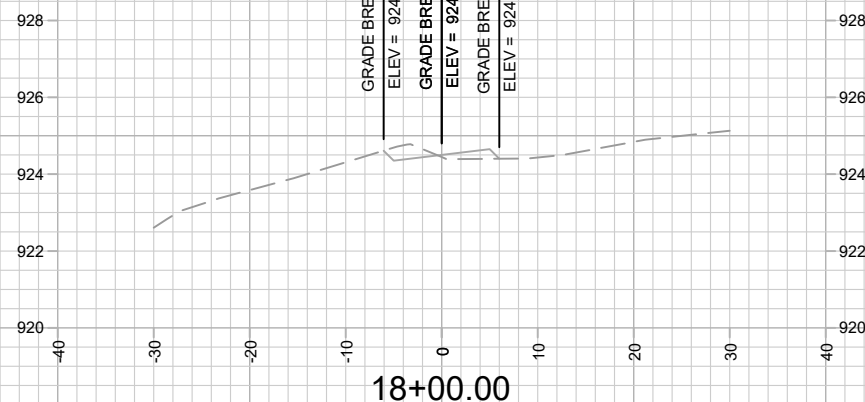
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CONTRACT NO: 9333

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## MAINTENANCE ACCESS CROSS SECTIONS

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### ROBIN GREENWAY IMPROVEMENTS

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ORCHARD DRIVE
CONTRACT NO: 9333

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