



Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

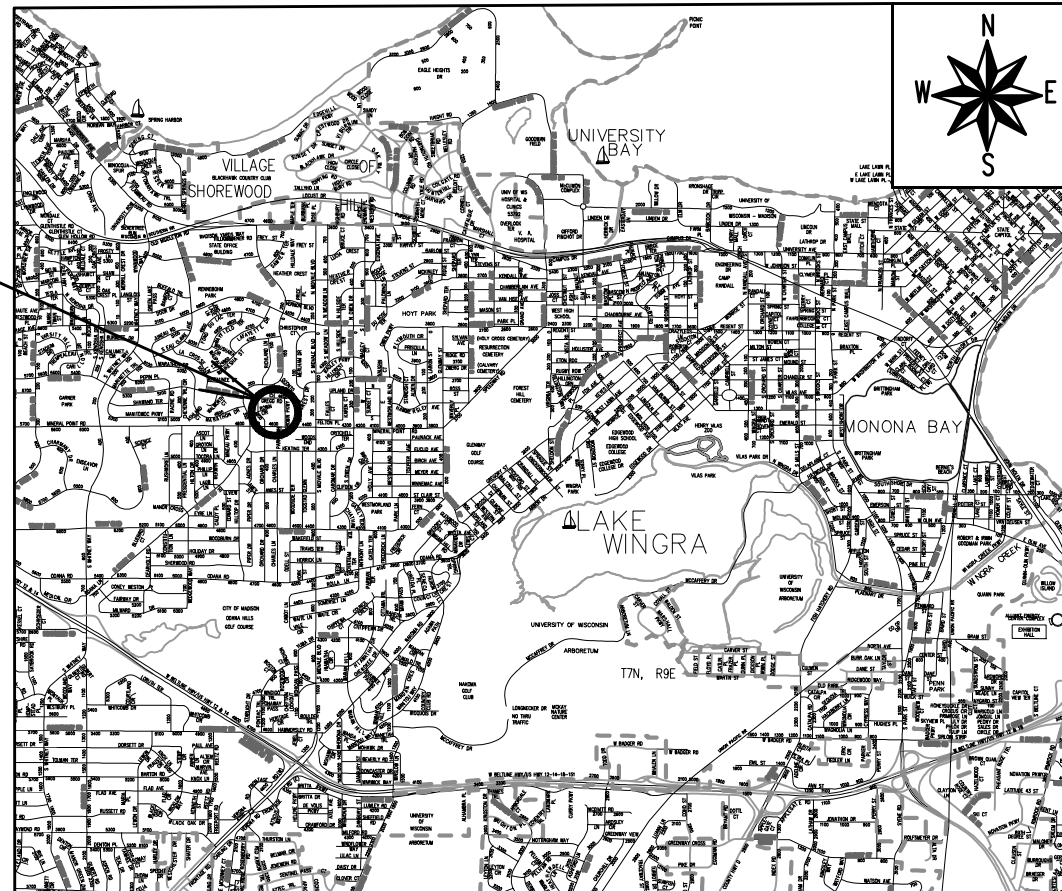
ROBIN GREENWAY STORM & GRADING

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CITY PROJECT NO. 14412
CONTRACT NO. 9333

PROJECT
LOCATION



PUBLIC IMPROVEMENT PROJECT
APPROVED

APPROVED DATE
JUNE 20, 2023

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

Jun 29, 2023

City Engineer

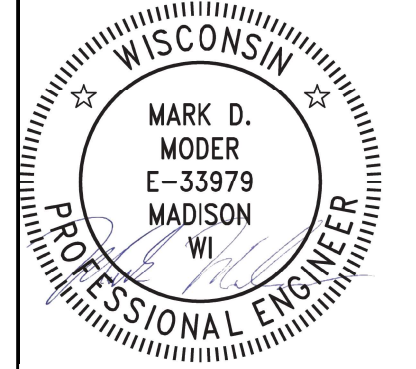
Date

STORM SEWER/SITE
DESIGNED BY:



Jun 29, 2023

SANITARY SEWER
DESIGNED BY:



Jun 29, 2023

UTILITY CONTACTS

MG&E (Gas): Roger Ahles 608-252-5682

MG&E (Elec): Keo Chansavath 608-252-4577

AT&T: Matthew Vachalik 262-707-6216

Revision #1
Revised 08/16/23 - Updated Sheet U1

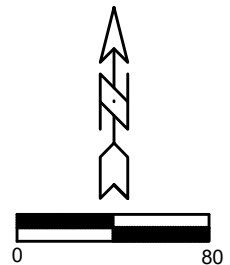
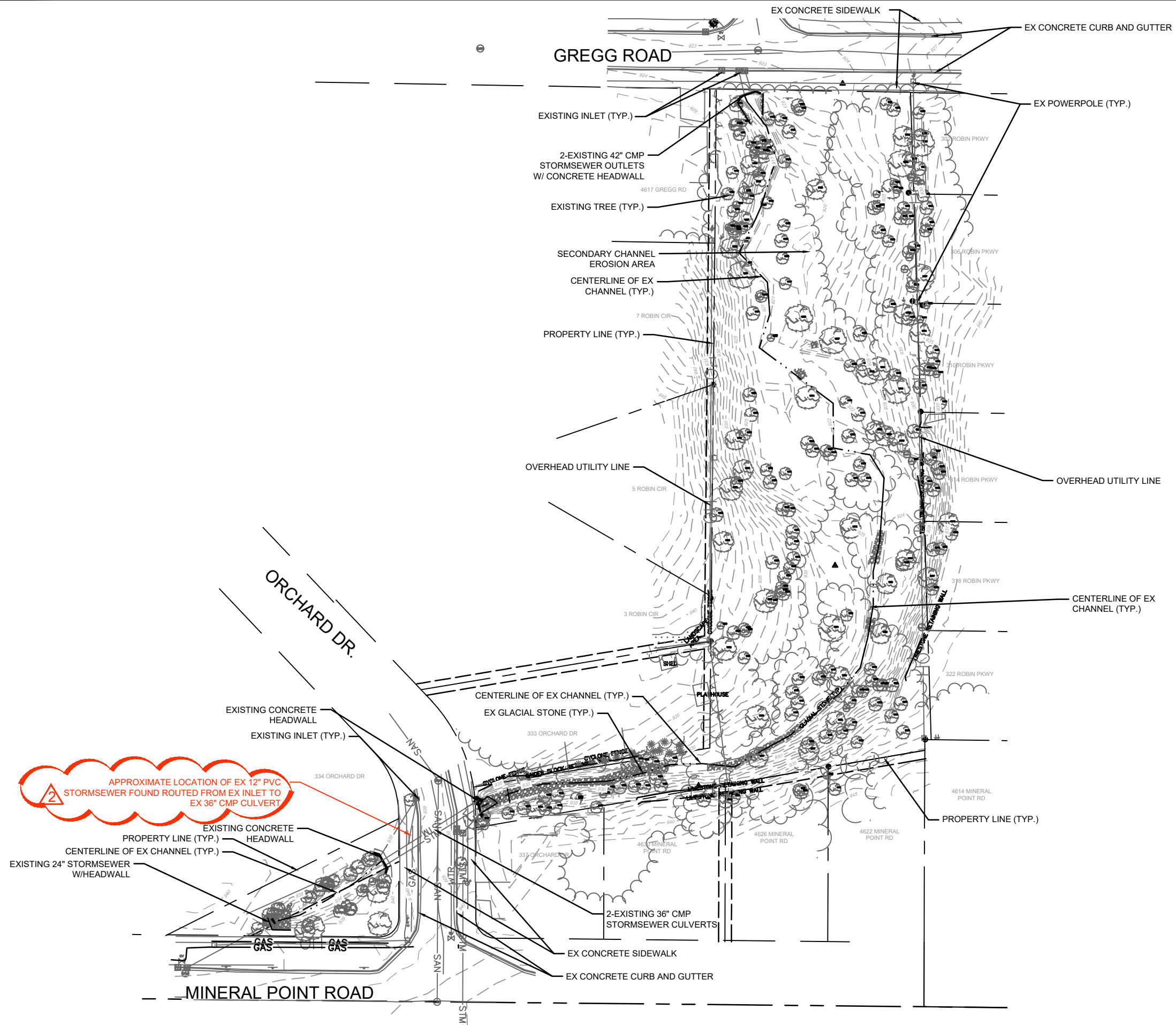
Revision #2
Revised 09/26/23 - Updated sheets EX1,
U1 & U2

PLOT SCALE: 1:1_XREF

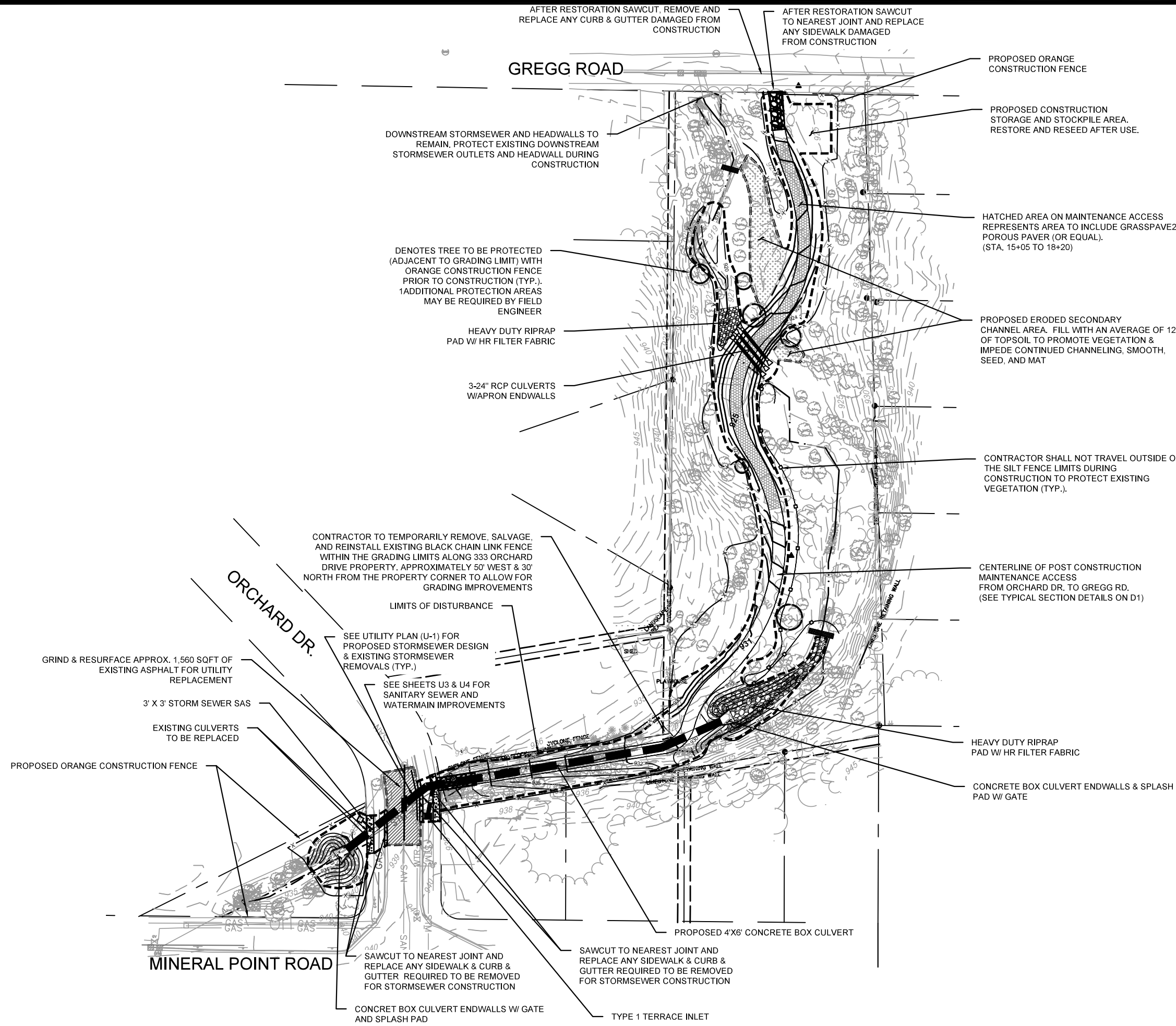
PLOT NAME: ---

REV. DATE: 6/28/2023 4:08 PM

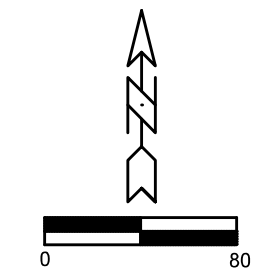
ORIGINATOR: CITY_OF_MADISON



14412	14412	14412	14412	14412
EXISTING CONDITIONS	ROBIN GREENWAY STORM & GRADING	ORCHARD DRIVE	CONTRACT NO:	9333
M:\DESIGN\Projects\14412\CAD\Sewers\14412 Robin Ex Conditions.dwg				
14412				
EX 1				
09/25/23	GVP	DATE	BY	EX 1
12" PVC STORMSEWER FOUND		REVISION	DATE	
MARK		REVISION	DATE	
14412	GVP	14412	9/26/2023 12:20 PM	Scale: -



- GENERAL NOTES:**
1. ALL SITE WORK AND MATERIALS SHALL BE PER THE CITY OF MADISON STANDARD SPECIFICATIONS
 2. EROSION CONTROL MEASURES SHALL BE PLACED PER THE APPROVED EROSION CONTROL PLAN
 3. LENGTHS OF STORM SEWER INCLUDE ENDWALLS
 4. STORM SEWER LENGTHS SHALL BE FIELD VERIFIED DURING CONSTRUCTION TO ENSURE THAT THEY ARE LONG ENOUGH TO CONFORM TO THE TYPICAL SECTION
 5. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 4" OF TOPSOIL, SEED AND MULCH. SEED MIXTURE SHALL BE PER THE CITY OF MADISON REQUIREMENTS.
 6. ANY ERRORS, DISCREPANCIES OR DIMENSIONS WITH THE PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
 7. CONTRACTOR SHALL REPLACE ALL SIDEWALK AND CURB & GUTTER WHICH ABUTS THE PROPERTY AND IS DAMAGED BY CONSTRUCTION. ANY ADDITIONAL AREAS NOT CALLED OUT ON PLAN INCIDENTAL TO BID ITEM 20101
 8. ALL DAMAGE TO PAVEMENT OF ADJACENT PUBLIC STREETS SHALL BE RESTORED IN ACCORDANCE WITH THE CITY OF MADISON'S PAVEMENT PATCHING CRITERIA. INCIDENTAL TO BID ITEM 20101
 9. GLACIER ERRATICS AND STONES LARGER THAN 12 INCHES FOUND WITHIN GRADING LIMITS SHALL NOT BE BURIED, THEY SHALL BE REMOVED AND RELOCATED AROUND SITE. COORDINATE LOCATIONS WITH CITY LANDSCAPE ARCHITECT
 10. PREDOMINANTLY WITHIN EXISTING CHANNEL BOTTOM AND BANKS THROUGH THE GREENWAY

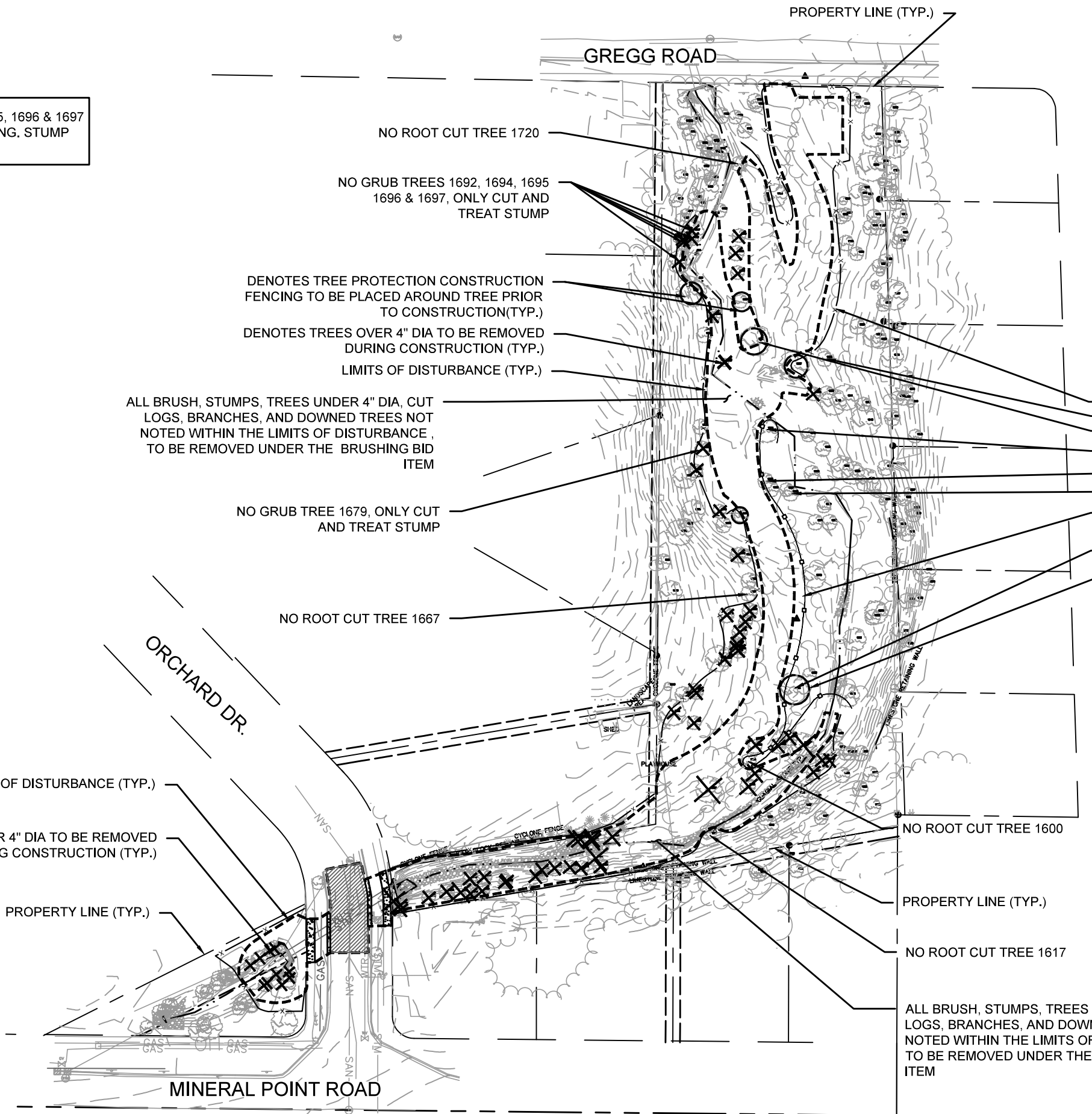


14412	ORCHARD DRIVE	9333	CONTRACT NO.:	GPI
OVERALL SITE LAYOUT ROBIN GREENWAY STORM & GRADING <small>M:\DESIGN\Projects\14412\CAD\Sewers\14412 Robin Greenway.dwg</small>				
14412				
S1				

NOTE: TREES 1679, 1692, 1694, 1695, 1696 & 1697 SHALL BE CUT WITH NO GRUBBING. STUMP SHALL BE TREATED

LEGEND

- X** 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
- x-** ORANGE CONSTRUCTION FENCE
- o-** SILT FENCE



NO ROOT CUT TREE 1720

NO GRUB TREES 1692, 1694, 1695, 1696 & 1697, ONLY CUT AND TREAT STUMP

DENOTES TREE PROTECTION CONSTRUCTION FENCING TO BE PLACED AROUND TREE PRIOR TO CONSTRUCTION(TYP.)

DENOTES TREES OVER 4" DIA TO BE REMOVED DURING CONSTRUCTION (TYP.)

LIMITS OF DISTURBANCE (TYP.)

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

NO GRUB TREE 1679, ONLY CUT AND TREAT STUMP

NO ROOT CUT TREE 1667

ORANGE CONSTRUCTION FENCE (TYP.)

NO ROOT CUT TREE 1536

NO ROOT CUT TREE 1537

NO ROOT CUT TREE 1564

NO ROOT CUT TREE 1564

NO ROOT CUT TREE 1568

SILT FENCE (TYP.)

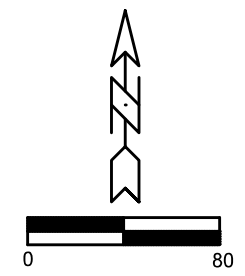
NO ROOT CUT TREE 1584

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.:
14412 CP1			

CLEARING & NRC PLAN

ROBIN GREENWAY STORM & GRADING

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MARK

REVISION

DATE

BY

Scale: 1" = 40'

14412

GPI

INSTALL & MAINTAIN TEMPORARY RIGID FRAME INLET PROTECTION IN STREET INLET. REMOVE WHEN CONSTRUCTION IS COMPLETE

INSTALL & MAINTAIN STONE CONSTRUCTION ENTRANCE PER S.D.D. 1.07

PLACE 2' TALL CLEAR STONE CHECK DAM PRIOR TO CONSTRUCTION. REMOVE WHEN SITE GRADING IS COMPLETE AND CLEAN ANY ACCUMULATED SEDIMENT

SILT FENCE (TYP.)

PLACE CLASS II, TYPE C ORGANIC EROSION MATTING IN DISTURBED CHANNEL AREAS (TYP.)

STRAIGHTEN EXISTING CHANNEL FLOW PATH IN THIS AREA

DENOTES TREE TO BE PROTECTED (ADJACENT TO GRADING LIMIT) WITH ORANGE CONSTRUCTION FENCE PRIOR TO CONSTRUCTION (TYP.)

410 SQFT HEAVY DUTY RIPRAP PAD W/ HR FILTER FABRIC

GENERAL NOTE:
GLACIER ERRATICS AND STONES LARGER THAN 12 INCHES FOUND WITHIN GRADING LIMITS SHALL NOT BE BURIED, THEY SHALL BE REMOVED, STOCKPILED AND RELOCATED AROUND SITE. COORDINATE LOCATION WITH CITY LANDSCAPE ARCHITECT

GRADE TO DRAIN RUNOFF FROM THIS AREA TO THE EXISTING CHANNEL TO THE NORTH

LIMITS OF DISTURBANCE

GREGG ROAD

PLACE ORANGE CONSTRUCTION FENCE ALONG GREGG ROAD

PROPOSED CONSTRUCTION STORAGE AND STOCKPILE AREA. RESTORE AND RESEED AFTER USE.

HATCHED AREA ON MAINTENANCE ACCESS REPRESENTS AREA TO INCLUDE TRUEGRID PRO PLUS PERMEABLE PAVERS (OR EQUAL). (STA. 15+05 TO 18+20)

PROPOSED EXISTING ERODED SECONDARY CHANNEL AREA (HATCHED AREA). FILL WITH AN AVERAGE OF 12" OF TOPSOIL TO PROMOTE VEGETATION & IMPEDE CONTINUED CHANNELING, SMOOTH, SEED, AND MAT

PROPERTY LINE (TYP.)

EXISTING TREE (TYP.)

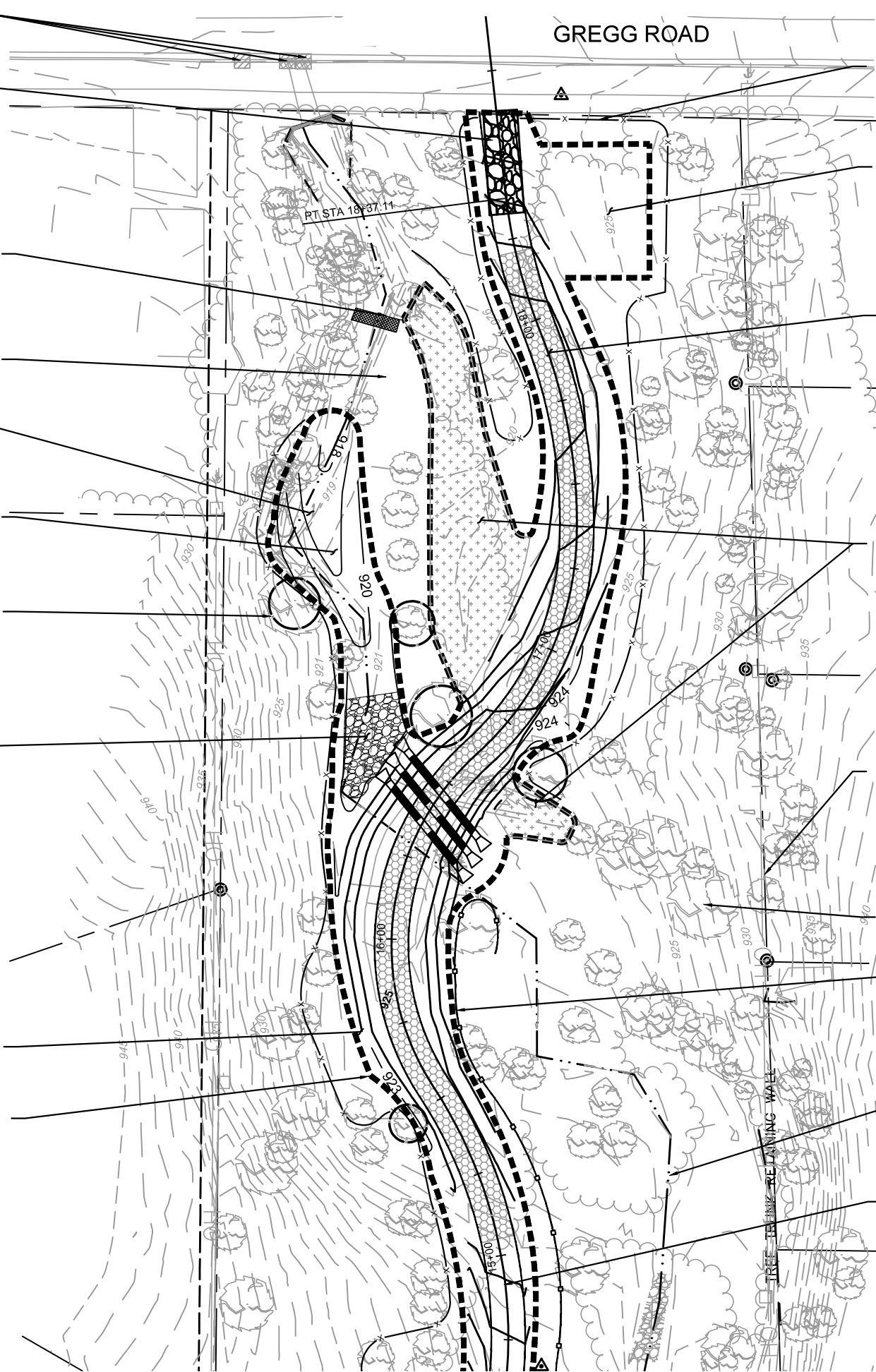
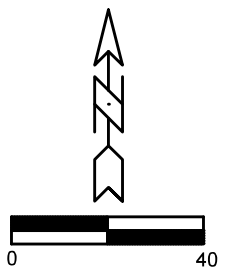
SILT FENCE (TYP.)

CENTERLINE OF EXISTING CHANNEL (TYP.)

POST CONSTRUCTION MAINTENANCE ACCESS FROM ORCHARD DR. TO GREGG RD. (SEE TYPICAL SECTION DETAILS ON D1)

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 4" 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.

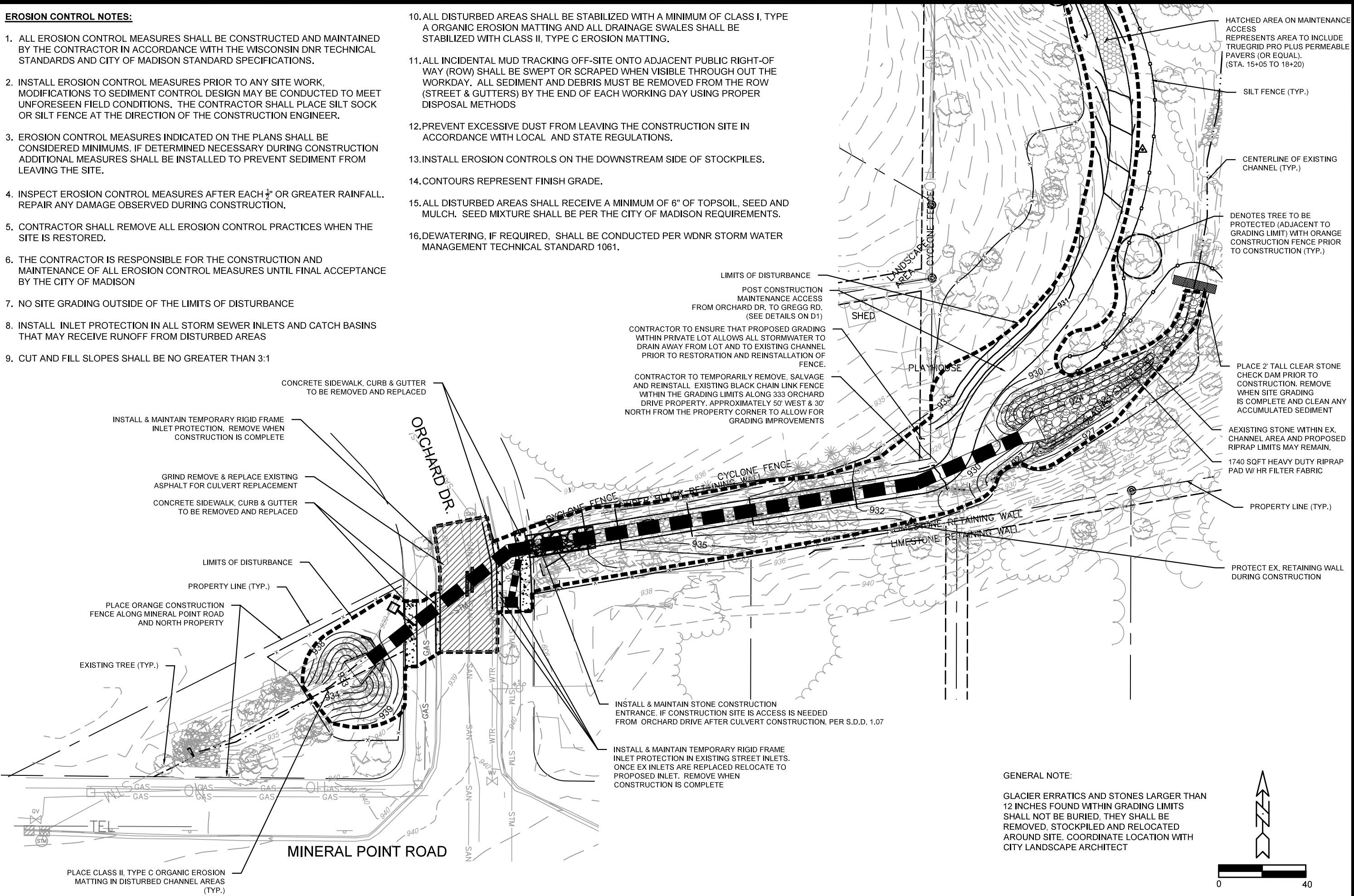


DATE	BY
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Scale: 1" = 40'	GP1
MARK	14412
Designed By: GVP	
Date: 6/28/2023 4:09 PM	
14412	
ORCHARD DRIVE	9333
CONTRACT NO.:	
GRADING AND EROSION CONTROL PLAN - NORTH AREA	
ROBIN GREENWAY STORM & GRADING	
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CITY OF MADISON WISCONSIN	
14412	
GP1	

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 THROUGHOUT 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.



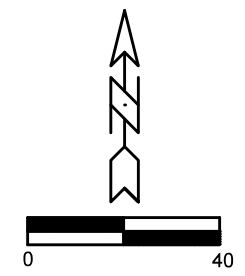
LIMITS OF DISTURBANCE
 POST CONSTRUCTION MAINTENANCE ACCESS FROM ORCHARD DR. TO GREGG RD. (SEE DETAILS ON D1)
 SHED
 PLAYHOUSE
 LANDSCAPE AREA
 CYCLONE FENCE
 CONTRACTOR TO ENSURE THAT PROPOSED GRADING WITHIN PRIVATE LOT ALLOWS ALL STORMWATER TO DRAIN AWAY FROM LOT AND TO EXISTING CHANNEL PRIOR TO RESTORATION AND REINSTALLATION OF FENCE.
 CONTRACTOR TO TEMPORARILY REMOVE, SALVAGE AND REINSTALL EXISTING BLACK CHAIN LINK FENCE WITHIN THE GRADING LIMITS ALONG 333 ORCHARD DRIVE PROPERTY. APPROXIMATELY 50' WEST & 30' NORTH FROM THE PROPERTY CORNER TO ALLOW FOR GRADING IMPROVEMENTS

HATCHED AREA ON MAINTENANCE ACCESS REPRESENTS AREA TO INCLUDE TRUEGRID PRO PLUS PERMEABLE PAVERS (OR EQUAL). (STA. 15+05 TO 18+20)
 SILT FENCE (TYP.)
 CENTERLINE OF EXISTING CHANNEL (TYP.)
 DENOTES TREE TO BE PROTECTED (ADJACENT TO GRADING LIMIT) WITH ORANGE CONSTRUCTION FENCE PRIOR TO CONSTRUCTION (TYP.)

PLACE 2' TALL CLEAR STONE CHECK DAM PRIOR TO CONSTRUCTION. REMOVE WHEN SITE GRADING IS COMPLETE AND CLEAN ANY ACCUMULATED SEDIMENT
 AEXISTING STONE WITHIN EX. CHANNEL AREA AND PROPOSED RIPRAP LIMITS MAY REMAIN.
 1740 SQFT HEAVY DUTY RIPRAP PAD W/ HR FILTER FABRIC
 PROPERTY LINE (TYP.)
 PROTECT EX. RETAINING WALL DURING CONSTRUCTION

INSTALL & MAINTAIN STONE CONSTRUCTION ENTRANCE. IF CONSTRUCTION SITE IS ACCESS IS NEEDED FROM ORCHARD DRIVE AFTER CULVERT CONSTRUCTION. PER S.D.D. 1.07
 INSTALL & MAINTAIN TEMPORARY RIGID FRAME INLET PROTECTION IN EXISTING STREET INLETS. ONCE EX INLETS ARE REPLACED RELOCATE TO PROPOSED INLET. REMOVE WHEN CONSTRUCTION IS COMPLETE

GENERAL NOTE:
 GLACIER ERRATICS AND STONES LARGER THAN 12 INCHES FOUND WITHIN GRADING LIMITS SHALL NOT BE BURIED, THEY SHALL BE REMOVED, STOCKPILED AND RELOCATED AROUND SITE. COORDINATE LOCATION WITH CITY LANDSCAPE ARCHITECT

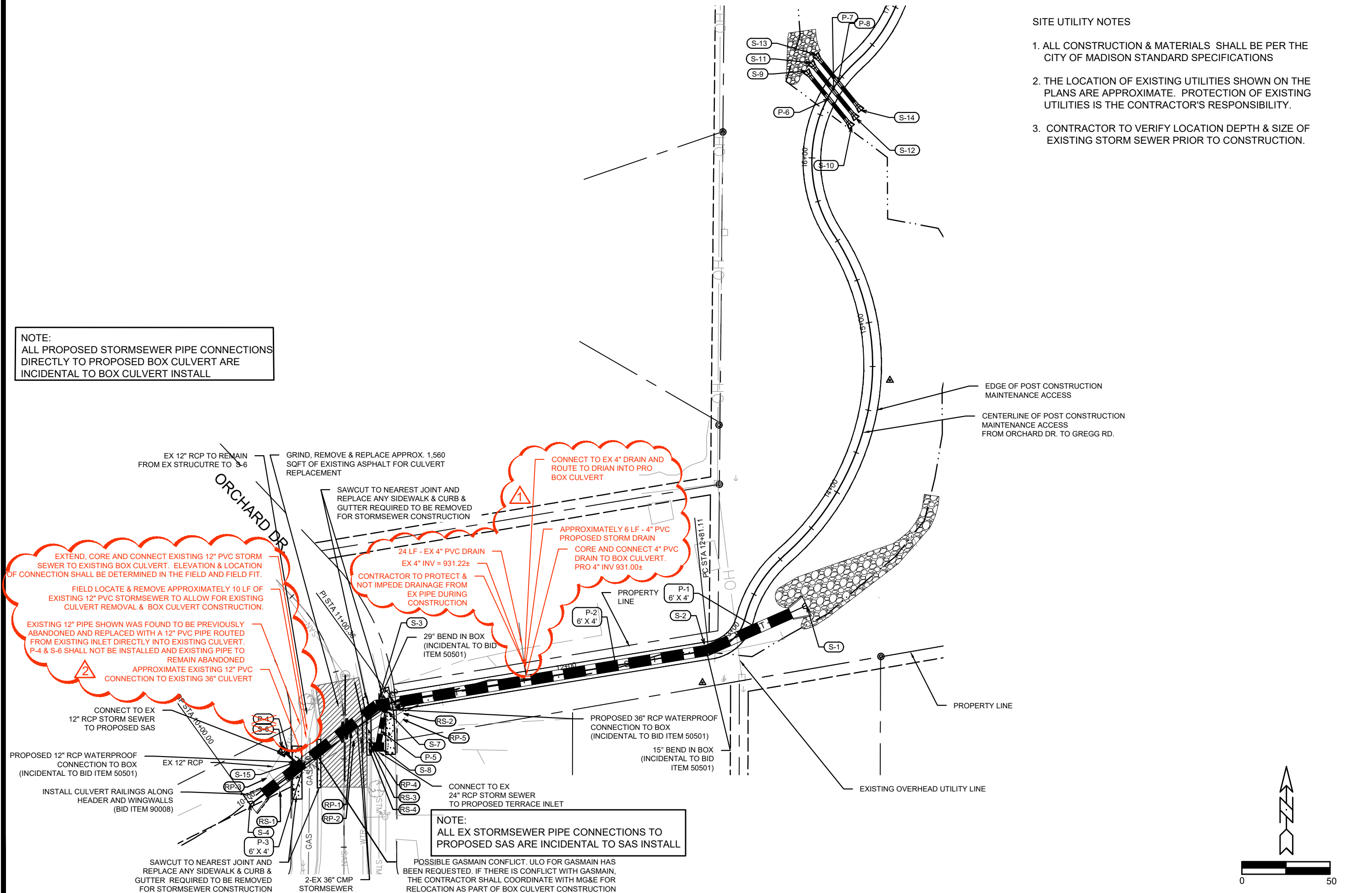


14412	ORCHARD DRIVE	9333	GP2
GRADING AND EROSION CONTROL PLAN - SOUTH AREA			
ROBIN GREENWAY STORM & GRADING			
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14412	CONTRACT NO.:	9333	GP2
14412			GP2

NOTE:
ALL PROPOSED STORMSEWER PIPE CONNECTIONS DIRECTLY TO PROPOSED BOX CULVERT ARE INCIDENTAL TO BOX CULVERT INSTALL

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.



NOTE:
ALL PROPOSED STORMSEWER PIPE CONNECTIONS DIRECTLY TO PROPOSED BOX CULVERT ARE INCIDENTAL TO BOX CULVERT INSTALL

EXTEND, CORE AND CONNECT EXISTING 12" PVC STORM SEWER TO EXISTING BOX CULVERT. ELEVATION & LOCATION OF CONNECTION SHALL BE DETERMINED IN THE FIELD AND FIELD FIT.

FIELD LOCATE & REMOVE APPROXIMATELY 10 LF OF EXISTING 12" PVC STORMSEWER TO ALLOW FOR EXISTING CULVERT REMOVAL & BOX CULVERT CONSTRUCTION.

EXISTING 12" PIPE SHOWN WAS FOUND TO BE PREVIOUSLY ABANDONED AND REPLACED WITH A 12" PVC PIPE ROUTED FROM EXISTING INLET DIRECTLY INTO EXISTING CULVERT. P-4 & S-6 SHALL NOT BE INSTALLED AND EXISTING PIPE TO REMAIN ABANDONED

APPROXIMATE EXISTING 12" PVC CONNECTION TO EXISTING 36" CULVERT

CONNECT TO EX 12" RCP STORM SEWER TO PROPOSED SAS

PROPOSED 12" RCP WATERPROOF CONNECTION TO BOX (INCIDENTAL TO BID ITEM 50501)

INSTALL CULVERT RAILINGS ALONG HEADER AND WINGWALLS (BID ITEM 90008)

SAWCUT TO NEAREST JOINT AND REPLACE ANY SIDEWALK & CURB & GUTTER REQUIRED TO BE REMOVED FOR STORMSEWER CONSTRUCTION

GRIND, REMOVE & REPLACE APPROX. 1,560 SQFT OF EXISTING ASPHALT FOR CULVERT REPLACEMENT

SAWCUT TO NEAREST JOINT AND REPLACE ANY SIDEWALK & CURB & GUTTER REQUIRED TO BE REMOVED FOR STORMSEWER CONSTRUCTION

24 LF - EX 4" PVC DRAIN EX 4" INV = 931.22±

CONTRACTOR TO PROTECT & NOT IMPEDE DRAINAGE FROM EX PIPE DURING CONSTRUCTION

CONNECT TO EX 4" DRAIN AND ROUTE TO DRAIN INTO PRO BOX CULVERT

APPROXIMATELY 6 LF - 4" PVC PROPOSED STORM DRAIN

CORE AND CONNECT 4" PVC DRAIN TO BOX CULVERT. PRO 4" INV 931.00±

29" BEND IN BOX (INCIDENTAL TO BID ITEM 50501)

PROPOSED 36" RCP WATERPROOF CONNECTION TO BOX (INCIDENTAL TO BID ITEM 50501)

15" BEND IN BOX (INCIDENTAL TO BID ITEM 50501)

CONNECT TO EX 24" RCP STORM SEWER TO PROPOSED TERRACE INLET

NOTE:
ALL EX STORMSEWER PIPE CONNECTIONS TO PROPOSED SAS ARE INCIDENTAL TO SAS INSTALL

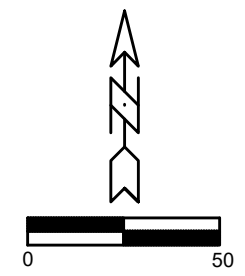
POSSIBLE GASMAIN CONFLICT. ULO FOR GASMAIN HAS BEEN REQUESTED. IF THERE IS CONFLICT WITH GASMAIN, THE CONTRACTOR SHALL COORDINATE WITH MG&E FOR RELOCATION AS PART OF BOX CULVERT CONSTRUCTION

EDGE OF POST CONSTRUCTION MAINTENANCE ACCESS

CENTERLINE OF POST CONSTRUCTION MAINTENANCE ACCESS FROM ORCHARD DR. TO GREGG RD.

PROPERTY LINE

EXISTING OVERHEAD UTILITY LINE



08/16/23	GVP	4" DRAIN EXTENSION
09/25/23	GVP	12" PVC STORMSEWER CONNECTION
		REVISION
		DATE
		BY
		Scale: 1/4" = 1'
		14412
		GP2

14412
ORCHARD DRIVE
9333
CONTRACT NO:

UTILITY PLAN - STORMSEWER
ROBIN GREENWAY STORM & GRADING
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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)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-1	13+38.08	RT-28.72	4'x6' BOX WINGWALL, 15 DEG ANGLE	-	924.22	-	W/Gate & Concrete Splash Pad(1)(2)(8)
S-2	12+80.36	LT-0.21	15 Degree Bend In Box	-	925.4	-	Incidental to P-1
S-3	10+90.94	LT-3.90	29 Degree Bend In Box	-	929.71	-	Incidental to P-2
S-4	10+00.00	CL	4'x6' BOX WINGWALL, 15 DEG ANGLE	-	931.54	-	W/Gate & Concrete Splash Pad(1)(3)(8)
S-5	10+33.06	LT-13.92	3'x3' STORM SAS	938.76	933	5.76	W/R-1878-A10G (4)
S-7	10+93.74	RT-0.83	36" RCP CONNECTION TO 4'X6' BOX	-	930.1	-	Incidental to P-2
S-8	10+78.20	RT-15.93	TERRACE INLET TYPE 1	938.15	931.64	6.51	2' Curb Radius (5)(6)(7)
S-9	16+41.71	LT-18.25	24" RCP APRON ENDWALL	923.42	-	-	-
S-10	16+24.81	RT-19.12	24" RCP APRON ENDWALL	923.72	-	-	-
S-11	16+46.01	LT-18.68	24" RCP APRON ENDWALL	923.42	-	-	-
S-12	16+31.95	RT-19.77	24" RCP APRON ENDWALL	923.72	-	-	-
S-13	16+50.25	LT-19.41	24" RCP APRON ENDWALL	923.42	-	-	-
S-14	16+39.19	RT-19.92	24" RCP APRON ENDWALL	923.72	-	-	-
S-15	10+34.98	LT-4.51	12" CONNECTION TO 4'X6' BOX	933.68	-	-	Incidental to P-1

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	924.22	925.40	52	52	2.27%	6'X4'	RCBC	(9)
P-2	S-2	S-3	925.40	929.71	190	190	2.27%	6'X4'	RCBC	-
P-3	S-3	S-4	929.71	931.54	81	81	2.26%	6'X4'	RCBC	(9)
P-4	S-15	S-6	931.95	933.00	13	8	12.92%	12"	RCP	-
P-5	S-7	S-8	930.10	931.64	25	20	7.67%	36"	RCP	-
P-6	S-9	S-10	921.00	921.30	41	41	0.74%	24"	RCP	-
P-7	S-11	S-12	921.00	921.30	41	41	0.74%	24"	RCP	-
P-8	S-13	S-14	921.00	921.30	41	41	0.74%	24"	RCP	-

SPECIFIC NOTES:

- SEE S.D.D. 5.5.1A & B
- SEE S.D.D. 5.6.3
- SEE S.D.D. 5.6.2
- CONNECT TO EX 12" RCP, CONNECTION PAID AS INCIDENTAL TO S-6
- CONNECT TO EX 24" RCP, CONNECTION PAID AS INCIDENTAL TO S-8
- SEE S.D.D. 5.7.12
- CASTING SHALL BE SET 0.2' BELOW TOP OF CURB; TOC GIVEN IN CHART IS TOP OF CURB
- WINGWALLS MAY BE PRECAST IF THEY MEET THE CITY'S STANDARD SPECIFICATIONS AND DETAIL DRAWINGS
- LENGTH AND INVERT IS SHOWN TO BACK OF APRON HEADWALL

EXISTING STORM STRUCTURE REMOVALS

STRUC. NO.	LOCATION (NORTHING)	LOCATION (EASTING)	TYPE	APPROX. DEPTH (FT)	NOTES
RS-1	477902.13	801900.18	CONCRETE HEADWALL	8.00	REMOVAL PAID UNDER BID ITEM 90009, EX STRUC. #DT3655-035&DT3655-027
RS-2	477946.00	801974.40	CONCRETE HEADWALL	8.00	REMOVAL PAID UNDER BID ITEM 90009; EX STRUC. # DT3655-039& DT3655-028
RS-3	477928.99	801956.57	STREET INLET	2.70	REMOVAL PAID FOR UNDER PIPE REMOVAL; EX STRUC. # IN3655-031
RS-4	477925.28	801956.58	STREET INLET	2.70	REMOVAL PAID FOR UNDER PIPE REMOVAL; EX STRUC. # IN 3655-032

STORM PIPE REMOVALS

PIPE REMOVAL NO.	DS	US	LENGTH (FT)	SIZE	TYPE
RP-1	RS-2	RS-1	89	36"	CMP
RP-2	RS-2	RS-1	88	36"	CMP
RP-3	RS-1	S-6	20	12"	RCP
RP-4	S-8	RS-3	6	15"	RCP
RP-5	RS-2	S-8	23	24"	RCP

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.

- 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

REVISION FOR EX 12" PVC STORM SEWER 08/25/23 GVP
 MARK
 REVISION
 DATE
 14412
 U2

14412
 ORCHARD DRIVE
 9333
 CONTRACT NO.:

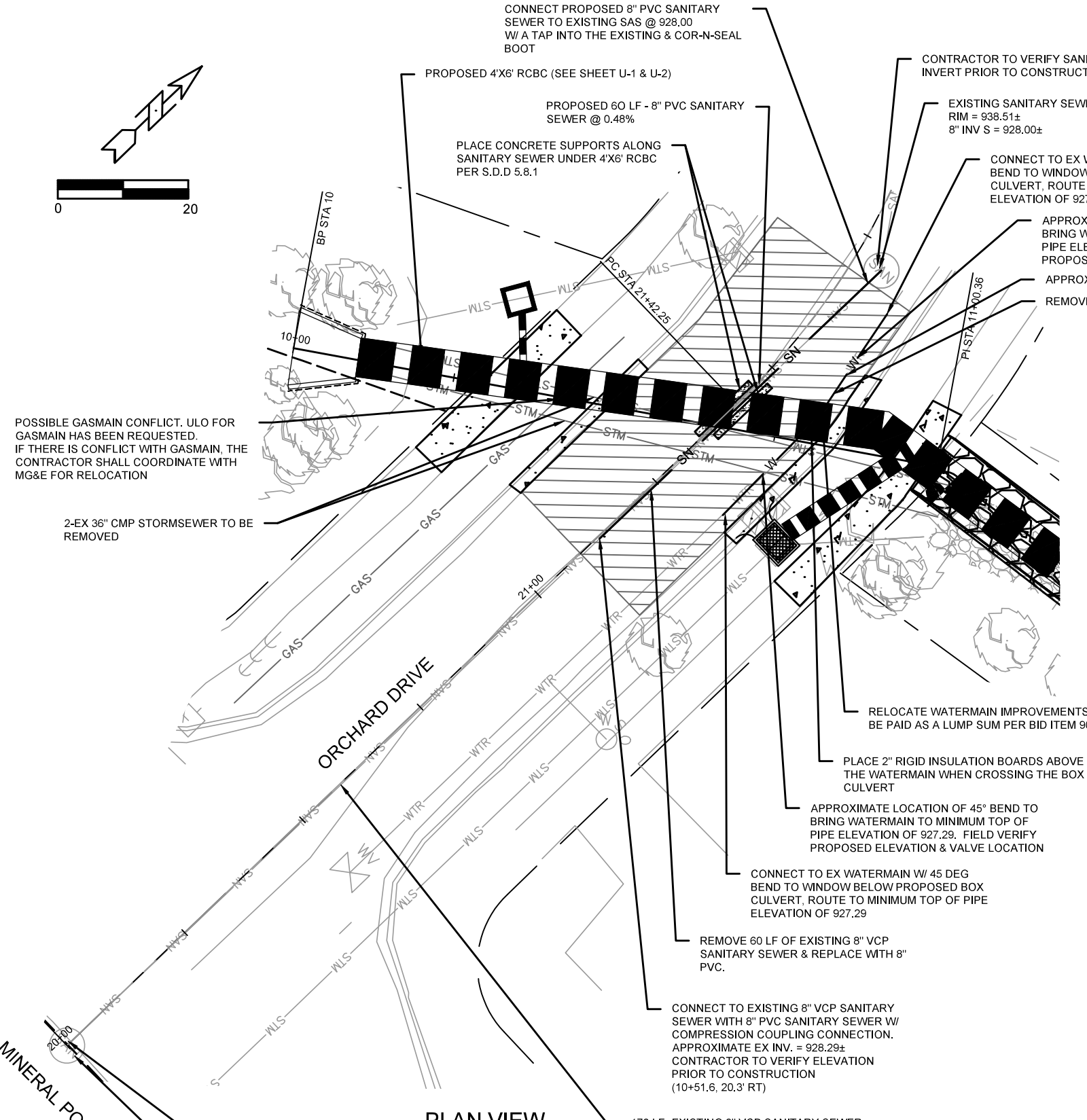
STORM SEWER SCHEDULE
 ROBIN GREENWAY STORM & GRADING
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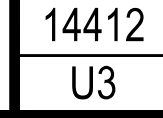
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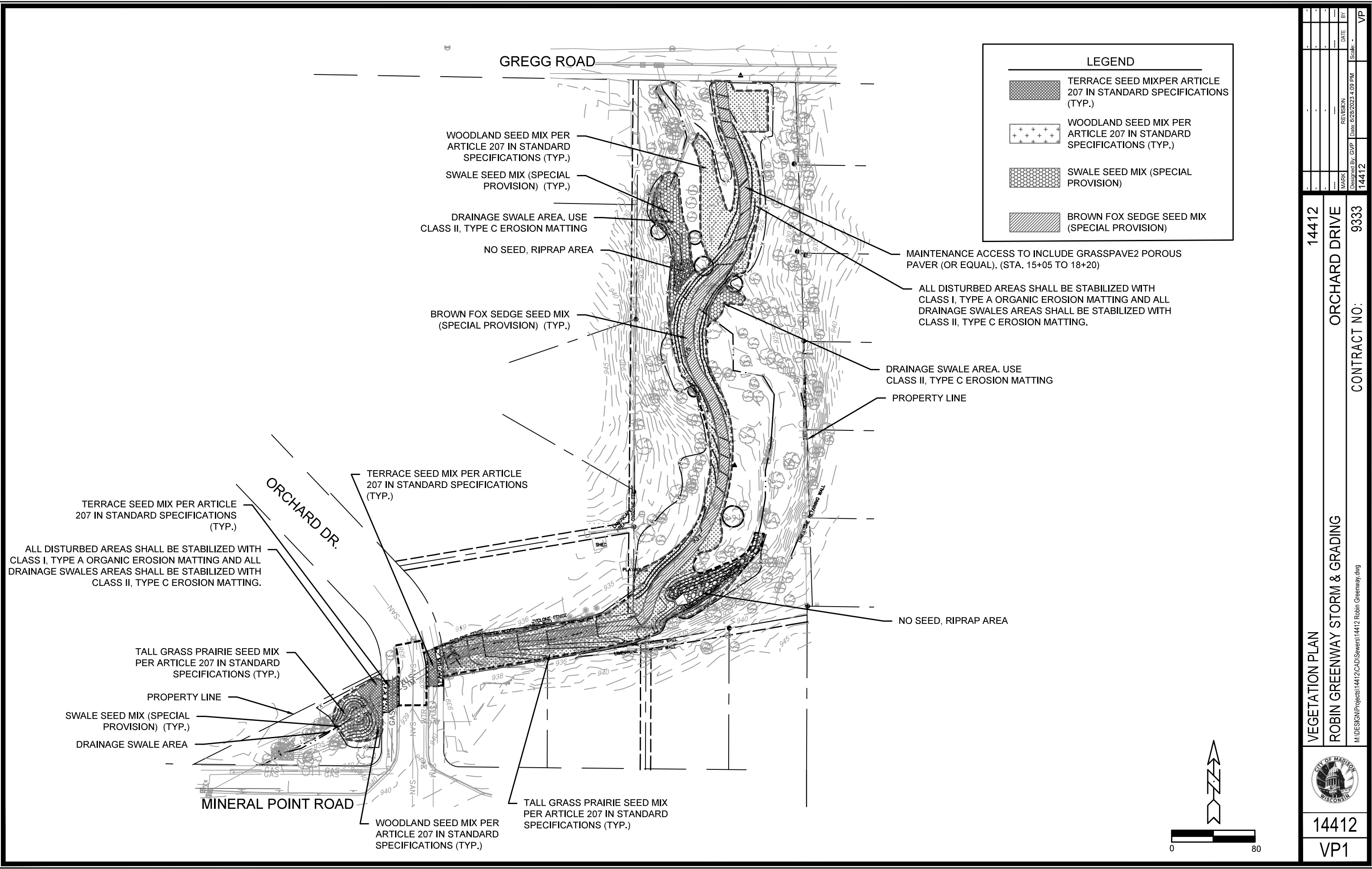
- PLACE INSULATION BOARD DIRECTLY AT THE STORM SEWER AND WATER MAIN CROSSING.



**PROFILE
BOX CROSSING VIEW**

14412	ORCHARD DRIVE	9333	14412	P1
UTILITY PLAN - WATER & SANITARY REPLACEMENT	ROBIN GREENWAY STORM & GRADING	M:\DESIGN\Projects\14412\CAD\Drawings\14412 Robin Greenway.dwg	Scale: 1" = 20'	DATE: ##-##-##
BY: ##-##-##	REVISION: ##-##-##	MARK: ##-##-##	DESIGNED BY: ##-##-##	CONTRACT NO: 14412
14412	U3			

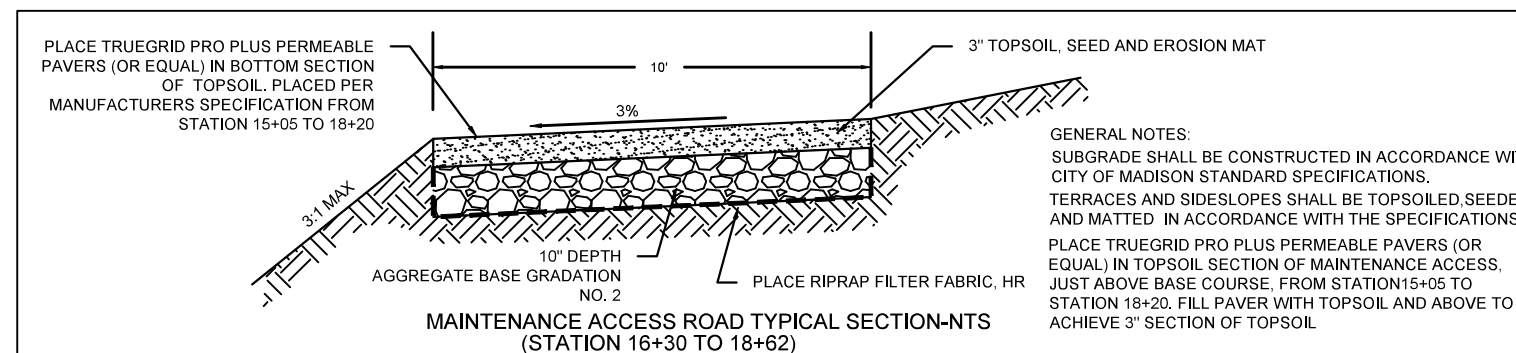
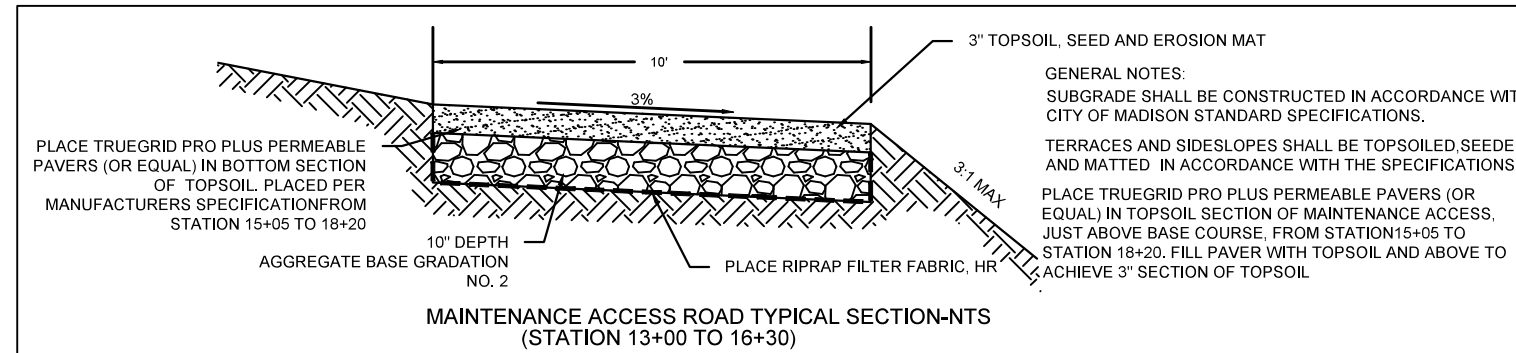
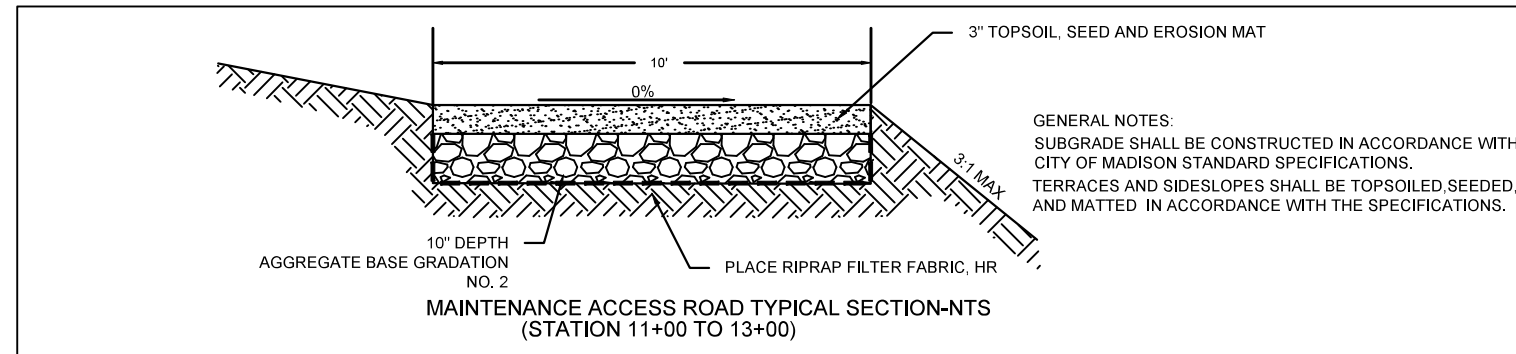




LEGEND

- TERRACE SEED MIX PER ARTICLE 207 IN STANDARD SPECIFICATIONS (TYP.)
- WOODLAND SEED MIX PER ARTICLE 207 IN STANDARD SPECIFICATIONS (TYP.)
- SWALE SEED MIX (SPECIAL PROVISION)
- BROWN FOX SEDGE SEED MIX (SPECIAL PROVISION)

14412	ORCHARD DRIVE	9333	CONTRACT NO:	VP
VEGETATION PLAN				
ROBIN GREENWAY STORM & GRADING				
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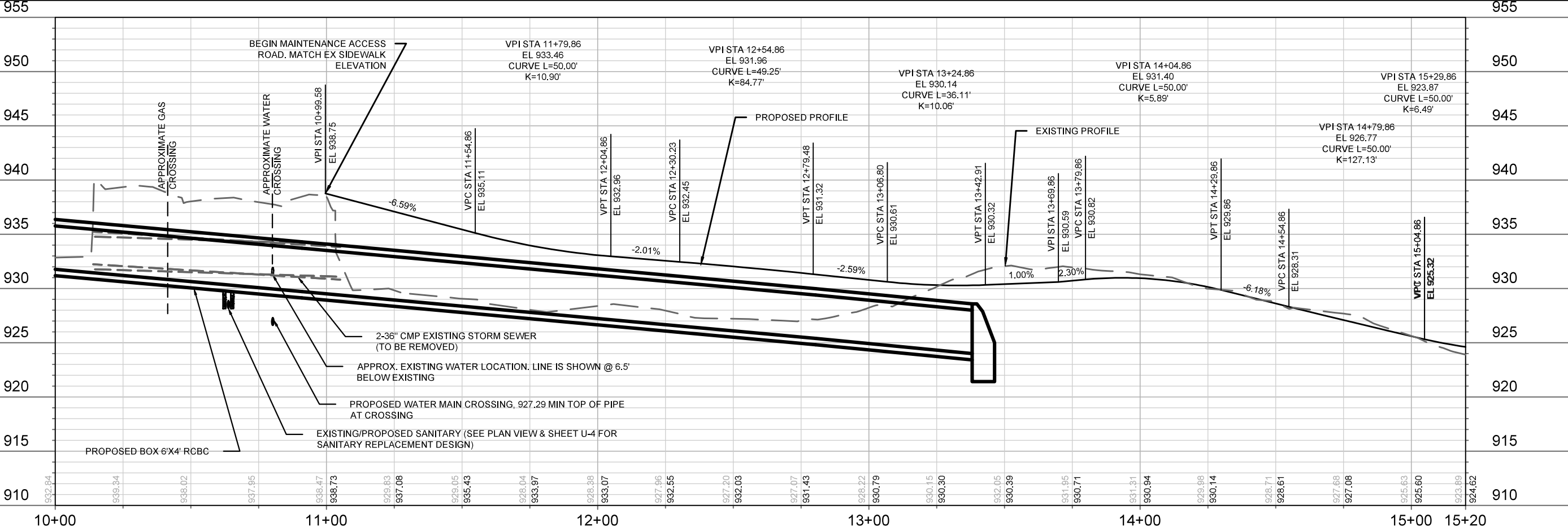
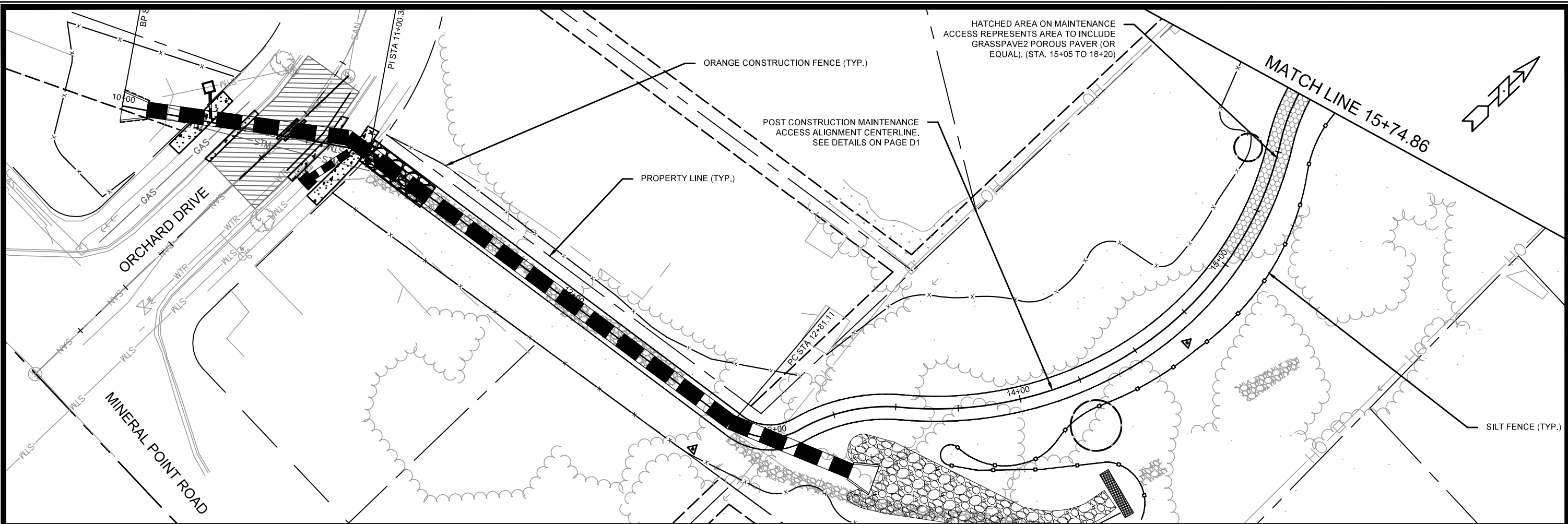
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ORCHARD DRIVE
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DETAIL SHEET
ROBIN GREENWAY STORM & GRADING
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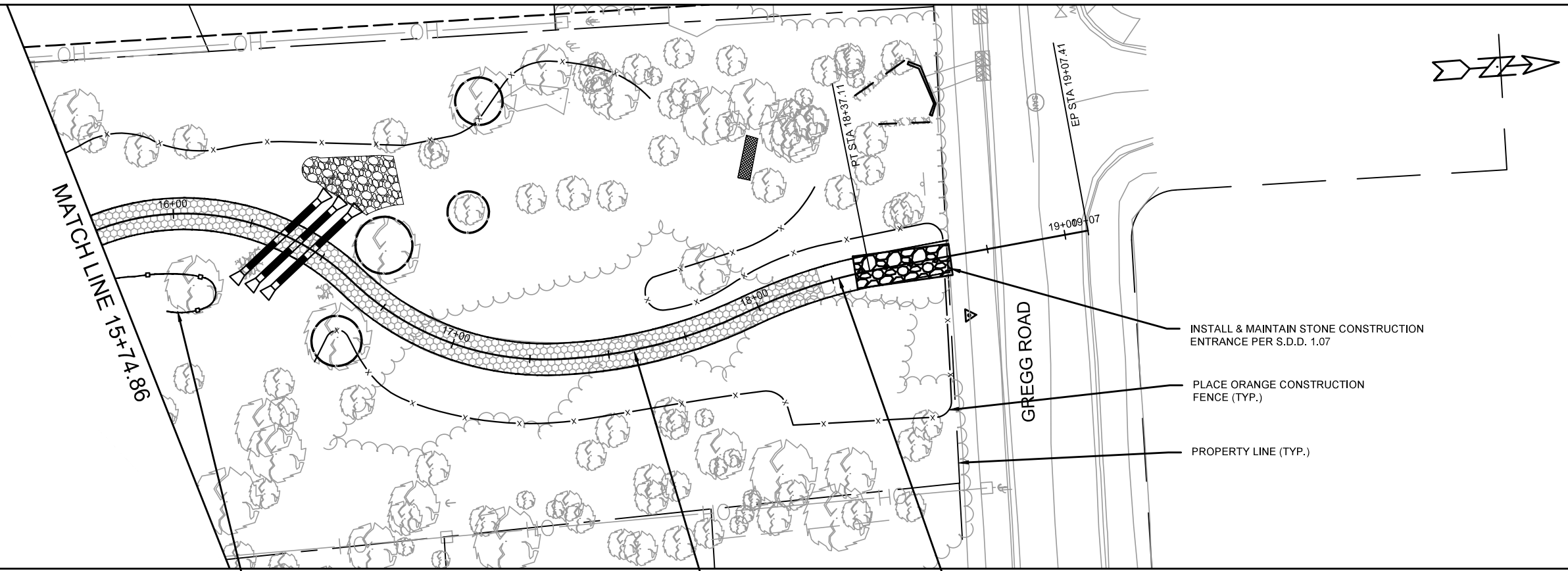


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INSTALL & MAINTAIN STONE CONSTRUCTION ENTRANCE PER S.D.D. 1.07

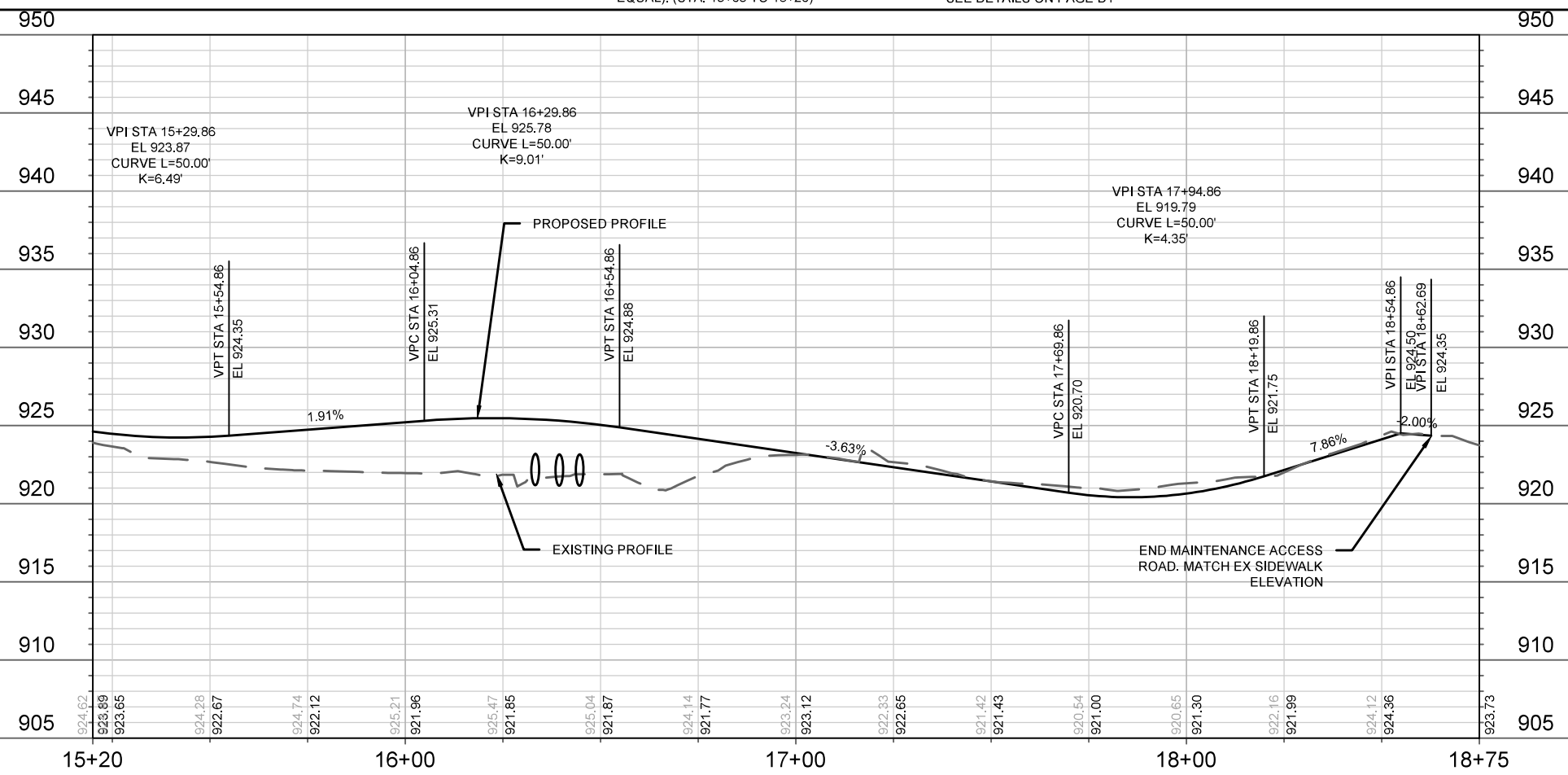
PLACE ORANGE CONSTRUCTION FENCE (TYP.)

PROPERTY LINE (TYP.)

SILT FENCE (TYP.)

HATCHED AREA ON MAINTENANCE ACCESS REPRESENTS AREA TO INCLUDE GRASSPAVE2 POROUS PAVER (OR EQUAL). (STA. 15+05 TO 18+20)

POST CONSTRUCTION MAINTENANCE ACCESS ALIGNMENT CENTERLINE. SEE DETAILS ON PAGE D1



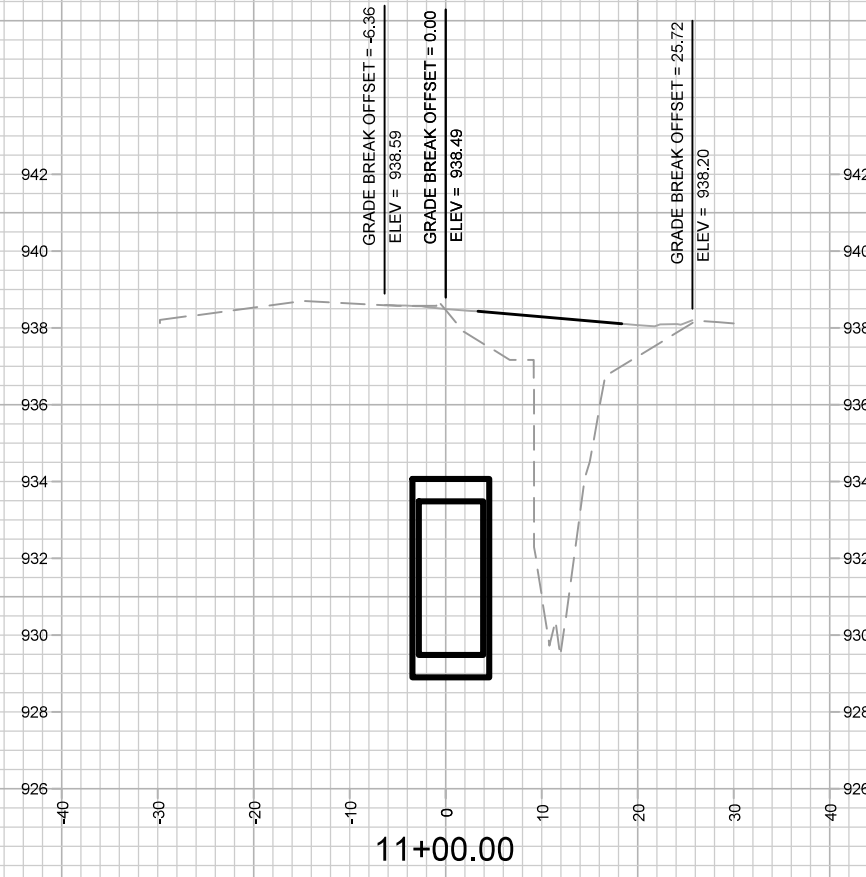
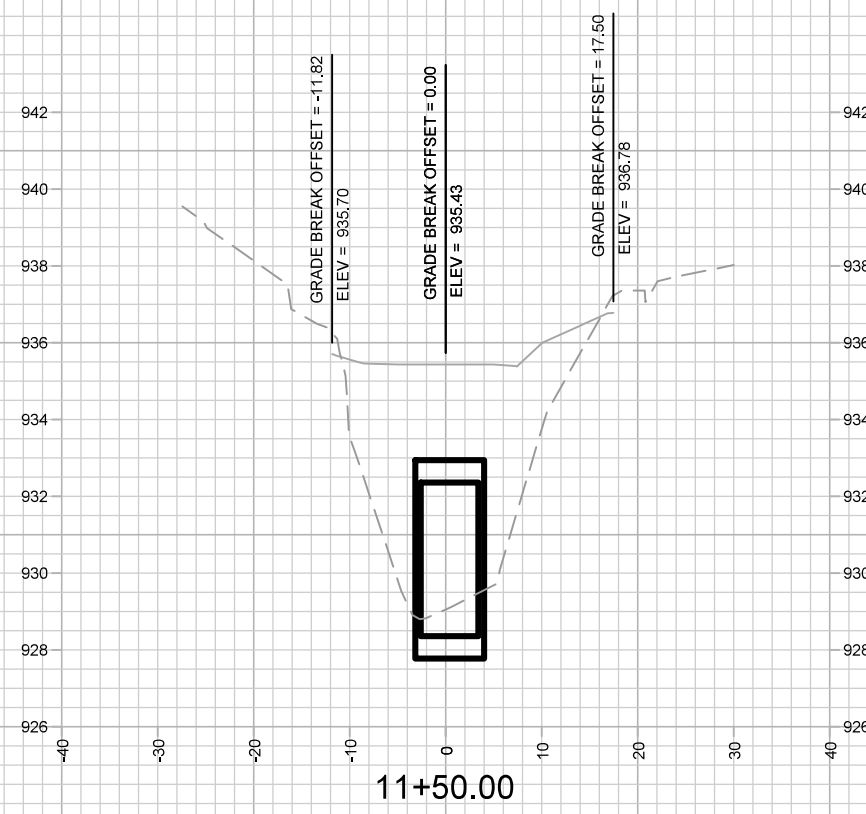
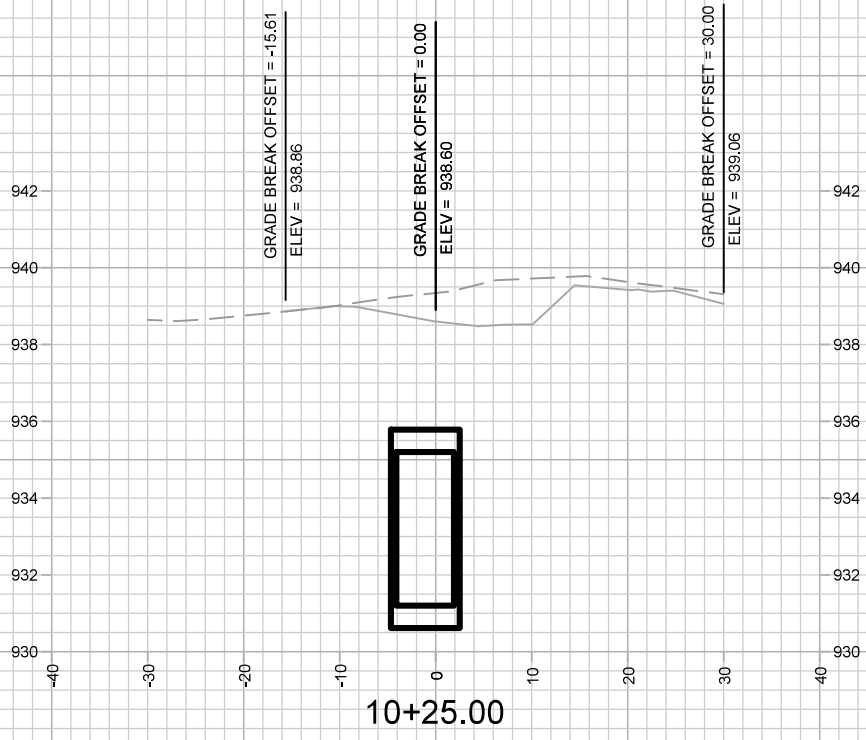
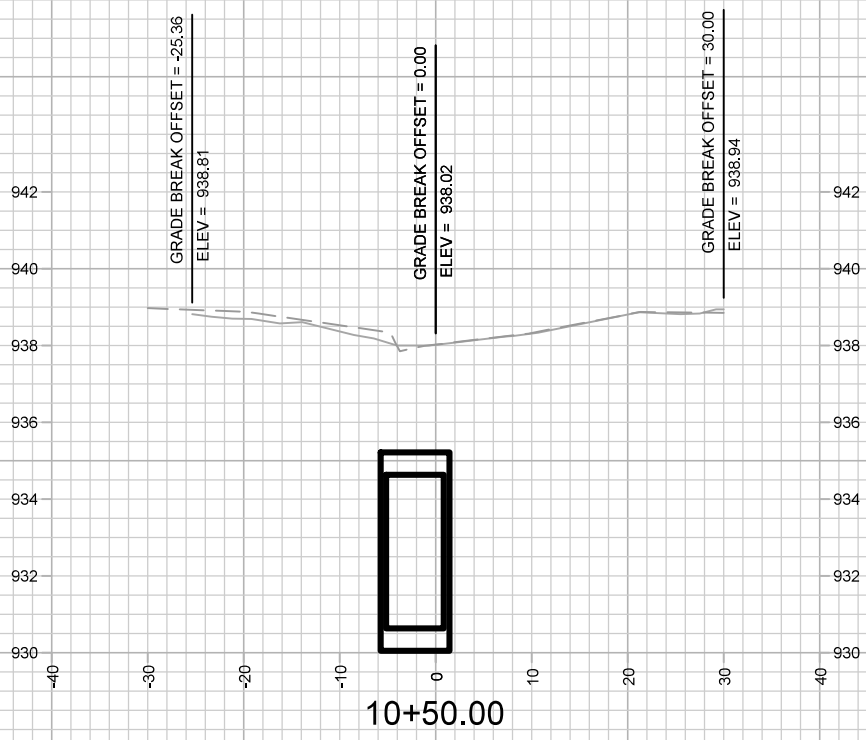
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ROBIN GREENWAY MAINTENANCE ACCESS PLAN & PROFILE
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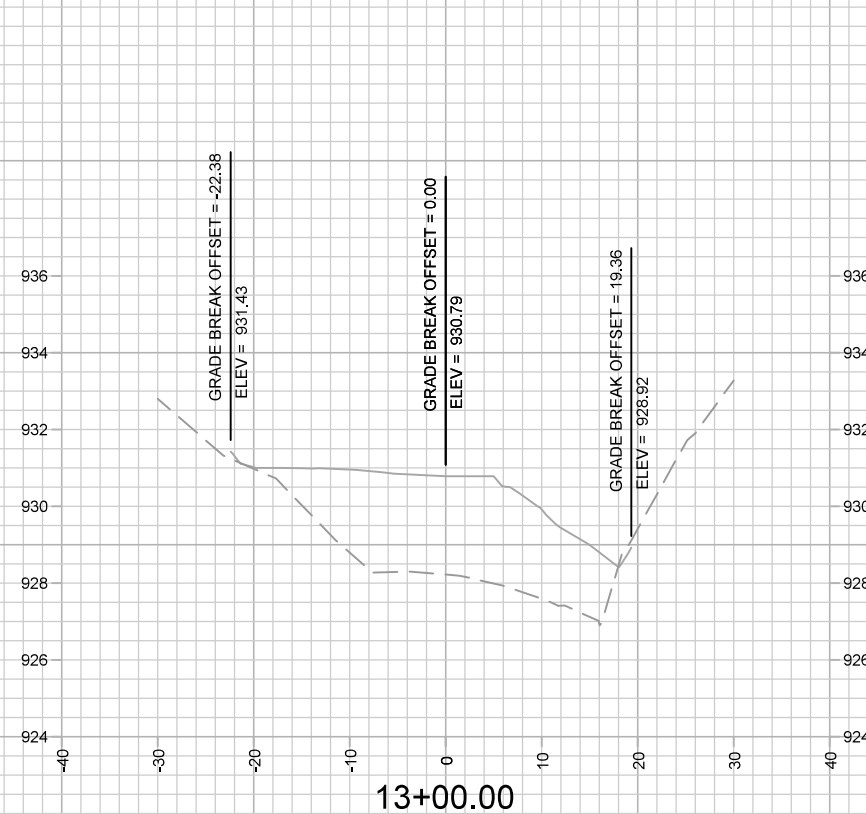
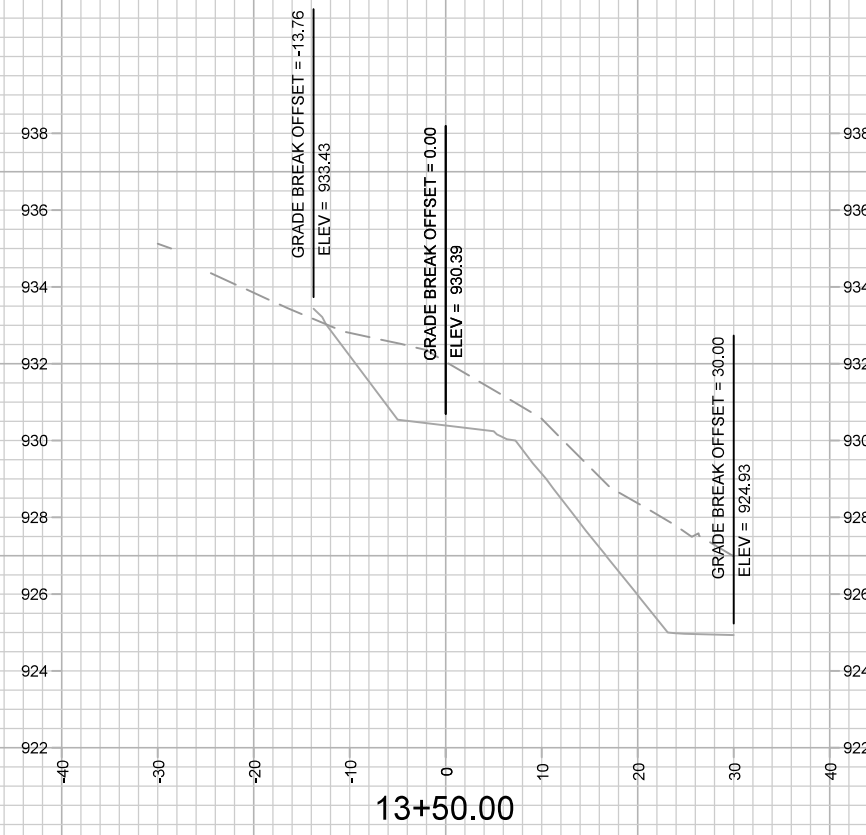
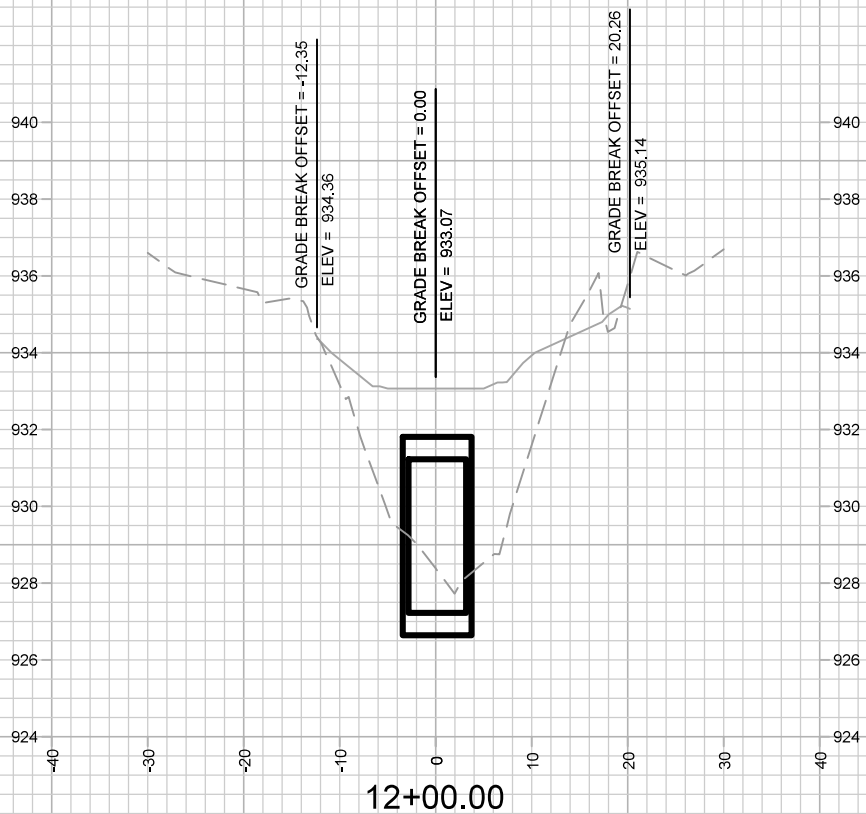
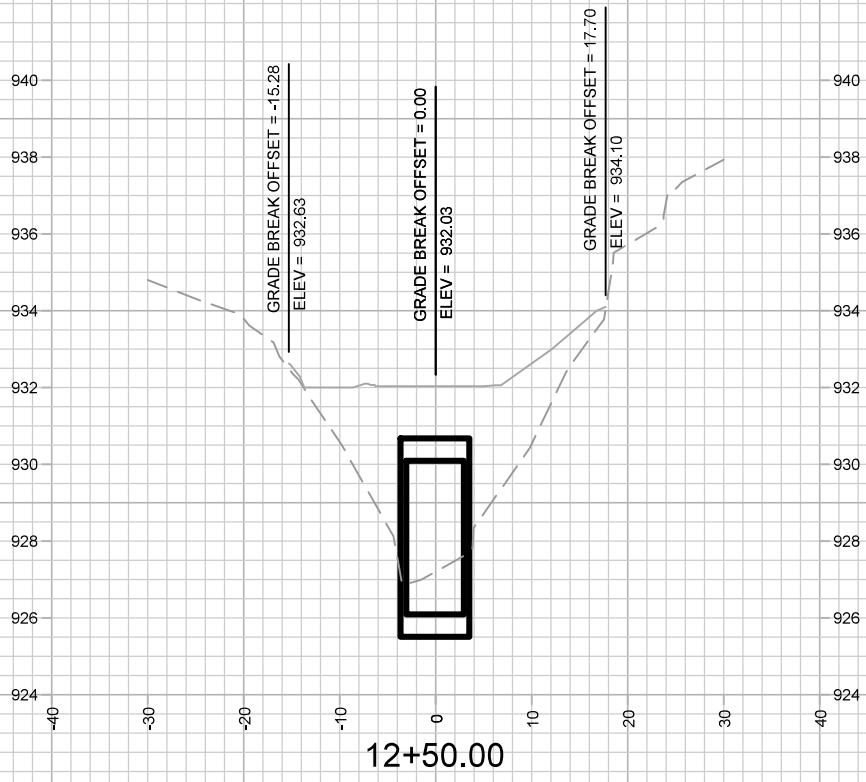
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MAINTENANCE ACCESS CROSS SECTIONS
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ORCHARD DRIVE
CONTRACT NO: 9333

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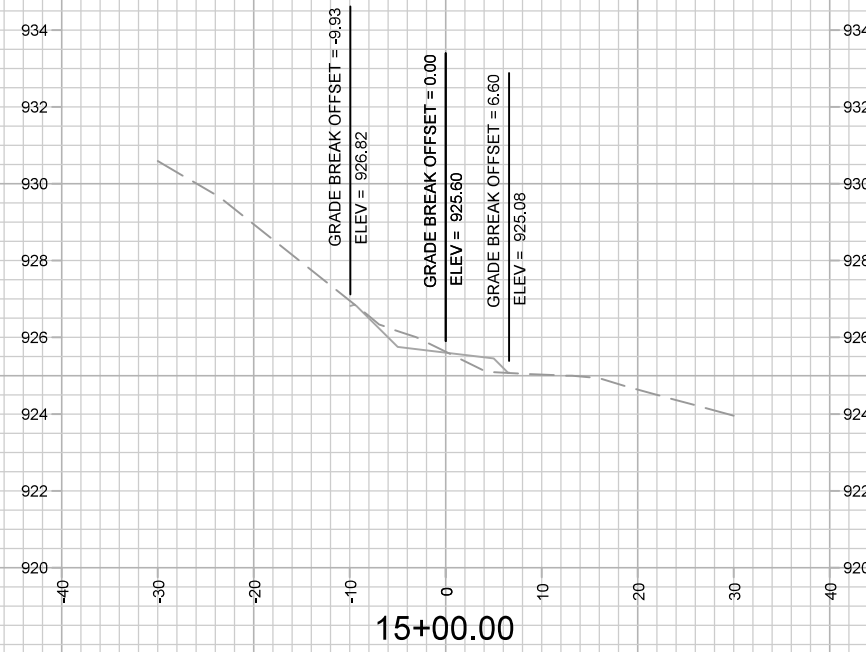
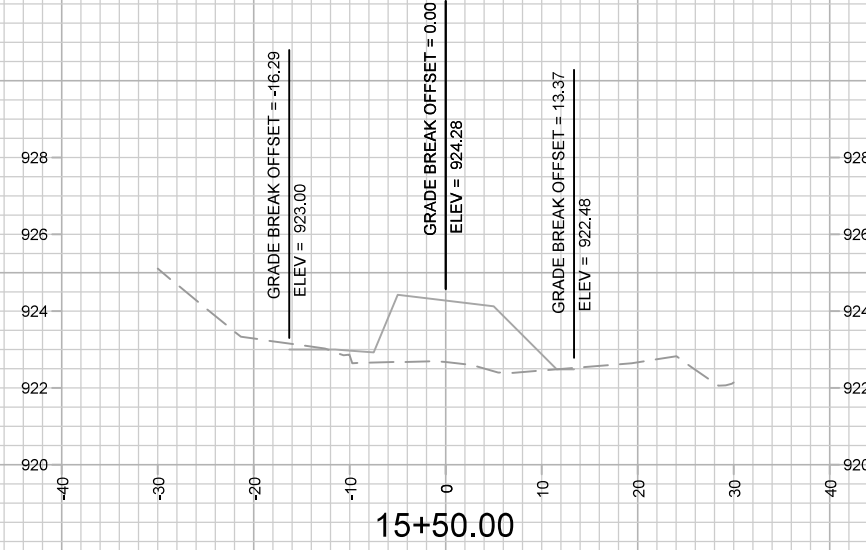
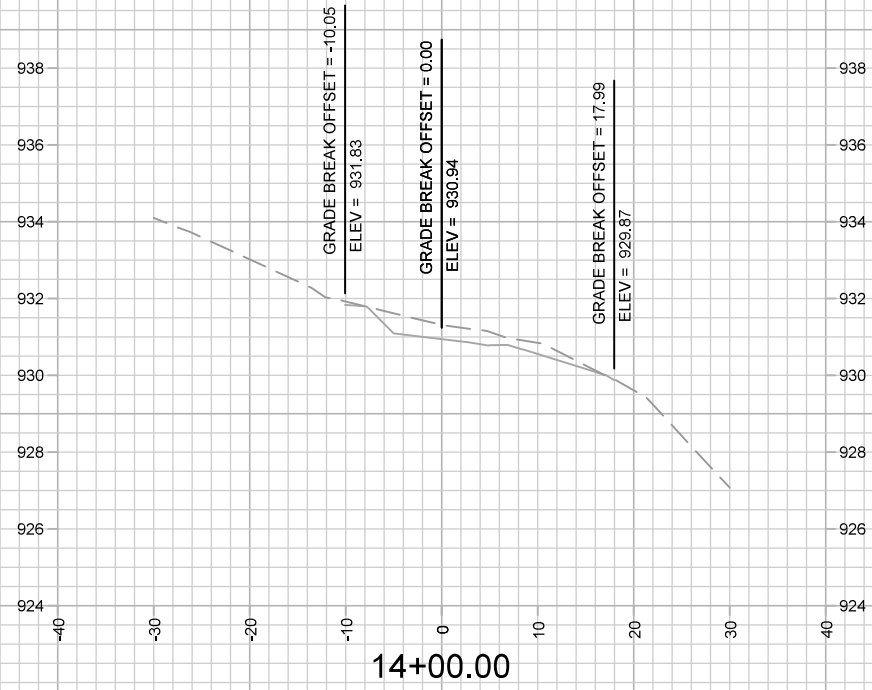
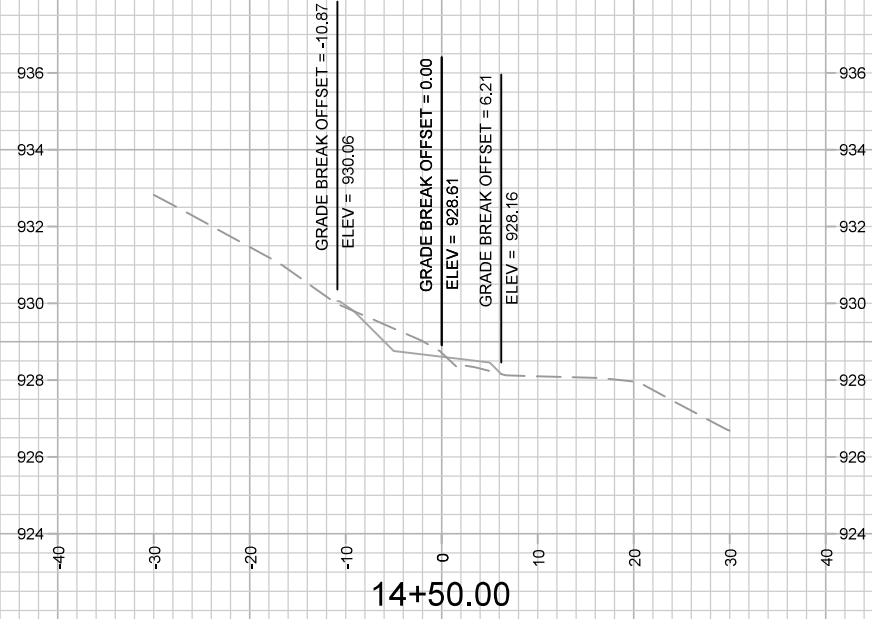
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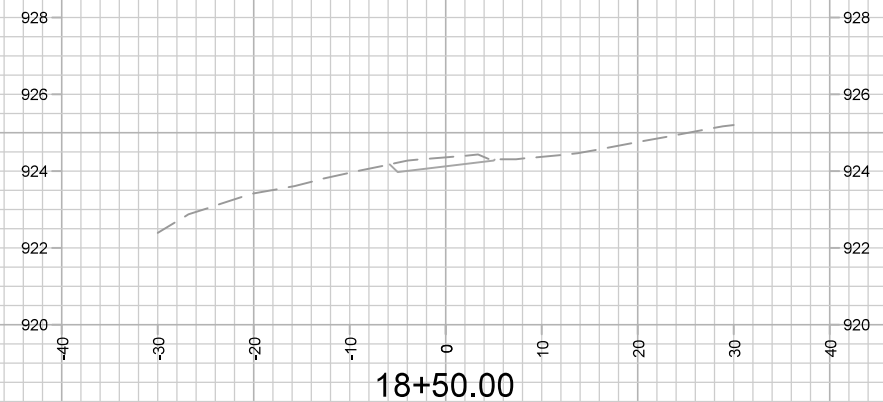
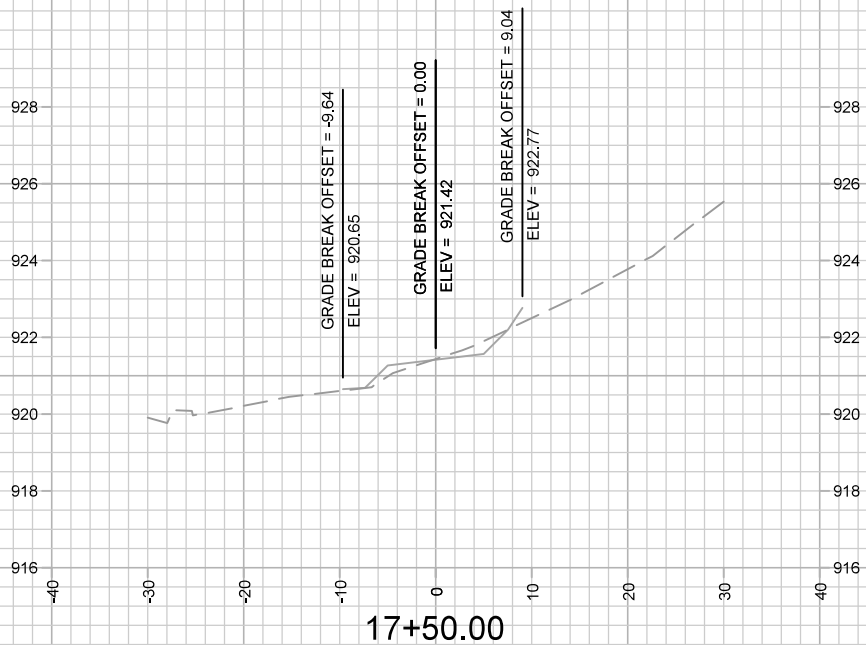
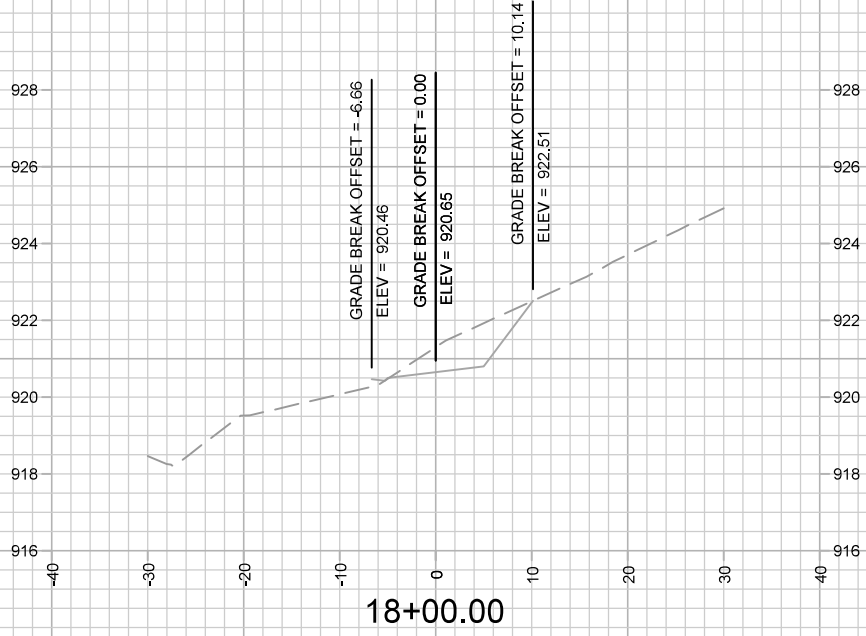
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14412 Robin Greenway Plans 2023.06.27

Final Audit Report

2023-06-29

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Status:	Signed
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2023-06-29 - 8:51:19 PM GMT
-  Document emailed to ENG- Grant Pokos (gpokos@cityofmadison.com) for signature
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