

CITY OF SHOREWOOD, MN

CONSTRUCTION PLANS FOR STRAWBERRY LANE RECONSTRUCTION

GRADING, AGGREGATE BASE, PLANT MIXED BITUMINOUS PAVEMENT, CURB & GUTTER,
ADA IMPROVEMENTS, WATERMAIN, STORM SEWER, RECLAMATION

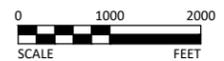
AUGUST 2022



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MAP OF THE
CITY OF SHOREWOOD
HENNEPIN COUNTY, MN



NOTE: EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOPHER STATE ONE CALL, 1-800-252-1166 OR 651-454-0002.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D UNLESS OTHERWISE NOTED. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

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CITY OF SHOREWOOD
STRAWBERRY LANE RECONSTRUCTION
TITLE SHEET

SHEET
G0.01

EXISTING TOPOGRAPHIC SYMBOLS

	ACCESS GRATE		REGULATION STATION GAS
	AIR CONDITION UNIT		SATELLITE DISH
	ANTENNA		SIGN NON TRAFFIC
	AUTO SPRINKLER CONNECTION		SIGN TRAFFIC
	BARRICADE PERMANENT		SIGNAL CONTROL CABINET
	BASKETBALL POST		SOIL BORING
	BENCH		SIREN
	BIRD FEEDER		TELEPHONE BOOTH
	BOLLARD		TILE INLET
	BUSH		TILE OUTLET
	CATCH BASIN RECTANGULAR CASTING		TILE RISER
	CATCH BASIN CIRCULAR CASTING		TRANSFORMER-ELECTRIC
	CURB STOP		TREE-CONIFEROUS
	CLEAN OUT		TREE-DEAD
	CULVERT END		TREE-DECIDUOUS
	DRINKING FOUNTAIN		TREE STUMP
	DOWN SPOUT		TRAFFIC ARM BARRIER
	FILL PIPE		TRAFFIC SIGNAL
	FIRE HYDRANT		TRASH CAN
	FLAG POLE		UTILITY MARKER
	FLARED END / APRON		VALVE
	FUEL PUMP		VALVE POST INDICATOR
	GRILL		VALVE VAULT
	GUY WIRE ANCHOR		VAULT
	HANDHOLE		VENT PIPE
	HANDICAP SPACE		WATER SPIGOT
	IRRIGATION SPRINKLER HEAD		WELL
	IRRIGATION VALVE BOX		WETLAND DELINEATED MARKER
	LIFT STATION CONTROL PANEL		WETLAND
	LIFT STATION		WET WELL
	LIGHT ON POLE		YARD HYDRANT
	LIGHT-GROUND		
	MAILBOX		

PROPOSED TOPOGRAPHIC SYMBOLS

	CLEANOUT
	MANHOLE
	LIFT STATION
	STORM SEWER CIRCULAR CASTING
	STORM SEWER RECTANGULAR CASTING
	STORM SEWER FLARED END / APRON
	STORM SEWER OUTLET STRUCTURE
	STORM SEWER OVERFLOW STRUCTURE
	CURB BOX
	FIRE HYDRANT
	WATER VALVE
	WATER REDUCER
	WATER BEND
	WATER TEE
	WATER CROSS
	WATER SLEEVE
	WATER CAP / PLUG
	RIP RAP
	DRAINAGE FLOW
	TRAFFIC SIGNS

SURVEY SYMBOLS

	BENCHMARK LOCATION
	CONTROL POINT
	MONUMENT FOUND
	CAST IRON MONUMENT
	STONE MONUMENT

EXISTING TOPOGRAPHIC LINES

	RETAINING WALL
	FENCE
	FENCE-DECORATIVE
	GUARD RAIL
	TREE LINE
	BUSH LINE

SURVEY LINES

	CONTROLLED ACCESS BOUNDARY
	CENTERLINE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	EXISTING LOT LINE
	PROPOSED LOT LINE
	EXISTING RIGHT-OF-WAY
	PROPOSED RIGHT-OF-WAY
	SETBACK LINE
	SECTION LINE
	QUARTER LINE
	SIXTEENTH LINE
	TEMPORARY EASEMENT

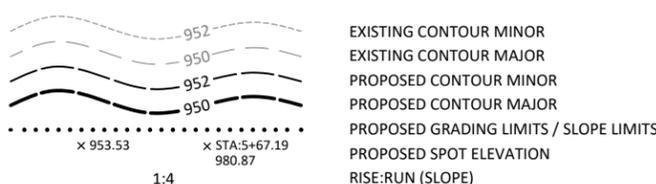
EXISTING UTILITY LINES

	FORCEMAIN
	SANITARY SEWER
	SANITARY SERVICE
	STORM SEWER
	STORM SEWER DRAIN TILE
	WATERMAIN
	WATER SERVICE

PROPOSED UTILITY LINES

	FORCEMAIN
	SANITARY SEWER
	SANITARY SERVICE
	STORM SEWER
	STORM SEWER DRAIN TILE
	WATERMAIN
	WATER SERVICE
	PIPE CASING

GRADING INFORMATION



HATCH PATTERNS

	BITUMINOUS		GRAVEL
	CONCRETE		

EXISTING PRIVATE UTILITY LINES

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	UNDERGROUND FIBER OPTIC
	UNDERGROUND ELECTRIC
	UNDERGROUND GAS
	UNDERGROUND COMMUNICATION
	OVERHEAD ELECTRIC
	OVERHEAD COMMUNICATION
	OVERHEAD UTILITY

UTILITIES IDENTIFIED WITH A QUALITY LEVEL:

LINE TYPES FOLLOW THE FORMAT: UTILITY TYPE - QUALITY LEVEL
EXAMPLE: G-A UNDERGROUND GAS, QUALITY LEVEL A
UTILITY QUALITY LEVEL (A,B,C,D) DEFINITIONS CAN BE FOUND IN CI/ASCE 38-02.

UTILITY QUALITY LEVELS:

QUALITY LEVEL D: PROVIDES THE MOST BASIC LEVEL OF INFORMATION. IT INVOLVES COLLECTING DATA FROM EXISTING UTILITY RECORDS. RECORDS MAY INCLUDE AS-BUILT DRAWINGS, DISTRIBUTION AND SERVICES MAPS, EXISTING GEOGRAPHIC INFORMATION SYSTEM DATABASES, CONSTRUCTION PLANS, ETC.

QUALITY LEVEL C: INVOLVES SURVEYING VISIBLE SUBSURFACE UTILITY STRUCTURES SUCH AS MANHOLES, HAND-HOLES, UTILITY VALVES AND METERS, FIRE HYDRANTS, PEDESTALS AND UTILITY MARKERS, AND THEN CORRELATING THE INFORMATION WITH EXISTING UTILITY RECORDS TO CREATE COMPOSITE DRAWINGS. INCLUDES QUALITY LEVEL D ACTIVITIES.

QUALITY LEVEL B: INVOLVES DESIGNATING THE HORIZONTAL POSITION OF SUBSURFACE UTILITIES THROUGH SURFACE DETECTION METHODS AND COLLECTING THE INFORMATION THROUGH A SURVEY METHOD. INCLUDES QUALITY LEVEL C AND D TASKS.

QUALITY LEVEL A: PROVIDES THE HIGHEST LEVEL OF ACCURACY. IT INVOLVES LOCATING OR POTHOLING UTILITIES AS WELL AS ACTIVITIES IN QUALITY LEVELS B, C, AND D. THE LOCATED FACILITY INFORMATION IS SURVEYED AND MAPPED AND THE DATA PROVIDES PRECISE PLAN AND PROFILE INFORMATION.

ABBREVIATIONS

A	ALGEBRAIC DIFFERENCE	GRAV	GRAVEL	RSC	RIGID STEEL CONDUIT
ADJ	ADJUST	GU	GUTTER	RT	RIGHT
ALT	ALTERNATE	GV	GATE VALVE	SAN	SANITARY SEWER
B-B	BACK TO BACK	HDPE	HIGH DENSITY POLYETHYLENE	SCH	SCHEDULE
BIT	BITUMINOUS	HH	HANDHOLE	SERV	SERVICE
BLDG	BUILDING	HP	HIGH POINT	SHLD	SHOULDER
BMP	BEST MANAGEMENT PRACTICE	HWL	HIGH WATER LEVEL	STA	STATION
BR	BEGIN RADIUS	HYD	HYDRANT	STD	STANDARD
BV	BUTTERFLY VALVE	I	INVERT	STM	STORM SEWER
CB	CATCH BASIN	K	CURVE COEFFICIENT	TC	TOP OF CURB
C&G	CURB AND GUTTER	L	LENGTH	TE	TEMPORARY EASEMENT
CIP	CAST IRON PIPE	LO	LOWEST OPENING	TEMP	TEMPORARY
CIPP	CURED-IN-PLACE PIPE	LP	LOW POINT	TNH	TOP NUT HYDRANT
CL	CENTER LINE	LT	LEFT	TP	TOP OF PIPE
CL	CLASS	MAX	MAXIMUM	TYP	TYPICAL
CLVT	CULVERT	MH	MANHOLE	VCP	VITRIFIED CLAY PIPE
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM	VERT	VERTICAL
C.O.	CHANGE ORDER	MR	MID RADIUS	VPC	VERTICAL POINT OF CURVE
COMM	COMMUNICATION	NIC	NOT IN CONTRACT	VPI	VERTICAL POINT OF INTERSECTION
CON	CONCRETE	NMC	NON-METALLIC CONDUIT	VPT	VERTICAL POINT OF TANGENT
CSP	CORRUGATED STEEL PIPE	NTS	NOT TO SCALE	WM	WATERMAIN
DIA	DIAMETER	NWL	NORMAL WATER LEVEL		
DIP	DUCTILE IRON PIPE	OHW	ORDINARY HIGH WATER LEVEL		
DWY	DRIVEWAY	PC	POINT OF CURVE	AC	ACRES
E	EXTERNAL CURVE DISTANCE	PCC	POINT OF COMPOUND CURVE	CF	CUBIC FEET
ELEC	ELECTRIC	PE	PERMANENT EASEMENT	CV	COMPACTED VOLUME
ELEV	ELEVATION	PED	PEDESTRIAN, PEDESTAL	CY	CUBIC YARD
EOF	EMERGENCY OVERFLOW	PERF	PERFORATED PIPE	EA	EACH
ER	END RADIUS	PERM	PERMANENT	EV	EXCAVATED VOLUME
ESMT	EASEMENT	PI	POINT OF INTERSECTION	LB	POUND
EX	EXISTING	PL	PROPERTY LINE	LF	LINEAR FEET
FES	FLARED END SECTION	PRC	POINT OF REVERSE CURVE	LS	LUMP SUM
F-F	FACE TO FACE	PT	POINT OF TANGENT	LV	LOOSE VOLUME
FF	FINISHED FLOOR	PVC	POLYVINYL CHLORIDE PIPE	SF	SQUARE FEET
F&I	FURNISH AND INSTALL	PVMT	PAVEMENT	SV	STOCKPILE VOLUME
FM	FORCEMAIN	R	RADIUS	SY	SQUARE YARD
FO	FIBER OPTIC	R/W	RIGHT-OF-WAY		
F.O.	FIELD ORDER	RCP	REINFORCED CONCRETE PIPE		
GRAN	GRANULAR	RET	RETAINING		

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CONSTRUCTION / SOILS NOTES

GRADING, BASE AND SURFACE:

1. TOP OF THE SUBGRADE IS DEFINED AS THE BOTTOM OF THE SELECT GRANULAR MATERIAL. TOP OF THE GRADING GRADE IS DEFINED AS THE BOTTOM OF THE CLASS 5 AGGREGATE BASE.
2. SUITABLE GRADING MATERIAL ON THIS PROJECT SHALL CONSIST OF ALL SOILS ENCOUNTERED WITH THE EXCEPTION OF TOPSOIL, DEBRIS, ORGANIC MATERIAL, AND OTHER UNSTABLE MATERIAL. NO ORGANIC SOIL SHALL BE ALLOWED IN THE TOP 5 FEET BELOW THE GRADING GRADE. FOR FIELD PURPOSES, ORGANIC SOIL WILL BE IDENTIFIED AS BEING BLACK IN COLOR AND CONTAINING VISIBLE ORGANIC MATTER.
3. STRIP ALL INPLACE TOPSOIL IN AREAS TO BE DISTURBED BY CONSTRUCTION AND REUSE AS SLOPE DRESSING. ALL TOPSOIL STRIPPING WILL BE CONSIDERED COMMON EXCAVATION.
4. UNLESS OTHERWISE NOTED, IN ANY EMBANKMENT CONSTRUCTION, PROVIDE FOR SUBCUTS TO THE DEPTHS AND LOCATIONS SHOWN ON THE TYPICAL SECTIONS. SLOPES FOR THIS CONTRACT WILL BE REPRESENTED WITH VERTICAL:HORIZONTAL NOTATION, Y(V):X(H).
5. TOPSOIL SHALL BE USED THROUGHOUT THE PROJECT AND AS DIRECTED BY THE ENGINEER. NO TOPSOIL SHALL BE ALLOWED TO BE REMOVED FROM THE SITE UNLESS APPROVED BY THE ENGINEER.
6. IN FILL SECTIONS, TOPSOIL AND OTHER UNSUITABLE MATERIALS SHALL BE ELIMINATED FROM THE UPPER 5 FEET OF THE "SUBGRADE" BENEATH THE ROADWAY, WITHIN THE LIMITS SHOWN ON THE TYPICAL SECTIONS.
7. TEST ROLLING WILL BE REQUIRED ON ALL PREPARED SUBGRADE PRIOR TO PLACEMENT OF GRANULAR MATERIAL AND AT ANY LOCATIONS DIRECTED BY THE ENGINEER, WITH A LOADED TANDEM AXLE TRUCK. THIS WORK WILL BE CONSIDERED INCIDENTAL.
8. IN THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHOULD STRIVE TO SUBSTANTIALLY MATCH THE SOILS AND LAYERS INPLACE IN THE UPPER 4 FEET OF THE ROADWAYS. GRANULAR BACKFILL SHALL NOT BE PERMITTED ADJACENT TO IN PLACE NON-GRANULAR SOILS IN ORDER TO PREVENT AN ABRUPT SOILS DIFFERENTIAL.
9. IN ANY CASE WHERE GRANULAR EMBANKMENTS OR BACKFILL JOIN NON-GRANULAR SOIL EMBANKMENTS OR BACKFILL, PROVIDE A 1(V):20(H) TRANSITION TAPER BETWEEN THE CHANGES IN MATERIAL TO PREVENT AN ABRUPT SOILS DIFFERENTIAL. THE 1(V):20(H) TAPER SHALL BE CONSTRUCTED SO THAT THE GRANULAR BACKFILL MATERIAL OVERLAYS THE ADJACENT NON-GRANULAR SOIL BACKFILL.
10. WHERE SUBCUTS RUN INTO DRIVEWAYS OR LOCAL ROADS, CUT VERTICALLY TO THE BOTTOM OF THE INPLACE SURFACING OR TO THE BOTTOM OF THE NEW SURFACING DESIGN, WHICHEVER IS DEEPER, THEN AT A 1(V):4(H) TAPER TO THE BOTTOM OF THE RECOMMENDED SUBGRADE EXCAVATION.
11. PROVIDE 1(V):20(H) TAPERS WHEN CHANGING SUBCUT DEPTHS OR WHEN GOING FROM GRANULAR MATERIAL TO SUITABLE GRADING MATERIAL.
12. DITCH BOTTOMS, TOE OR FILL, CUT RUNOUTS AND THE TOP EDGE OF THE BACKSLOPES SHALL BE ROUNDED REGARDLESS OF THE SECTION USED ON THE CROSS SECTION SHEETS.
13. STABILIZING AGGREGATE SHALL BE INCORPORATED INTO THE SUBGRADE TO ACHIEVE SATISFACTORY SURFACE STABILITY AT LOCATIONS DEEMED NECESSARY BY THE ENGINEER.
14. ALL SALVAGED ROADWAY MATERIALS SUCH AS CONCRETE, BITUMINOUS AND AGGREGATES MAY BE UTILIZED ACCORDING TO MN/DOT SPECIFICATIONS AND PROJECT SPECIAL PROVISIONS. MATERIALS NOT UTILIZED ON THIS PROJECT WILL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFF THE RIGHT OF WAY IN ACCORDANCE WITH MN/DOT SPECIFICATION 2104.3C3 AND AS AGREED UPON BY THE ENGINEER.

REMOVALS:

16. PROVIDE A SAWCUT WHERE PLACING NEW PAVEMENT ADJACENT TO INPLACE PAVEMENT TO ENSURE A UNIFORM JOINT. LOCATE ALL SAWCUTS ALONG LANE LINES OR PERPENDICULAR TO LANE LINES. ALL SAWING SHALL BE WET SAWN AND ALL DUST/SLURRY SHALL BE COLLECTED TO THE EXTENT PRACTICABLE BY SWEEPING OR VACUUM AND DISPOSED OF ACCORDING TO THE SPECIFICATIONS. THIS WORK IS INCIDENTAL.
17. PROVIDE FOR THE REMOVAL AND DISPOSAL OF ANY INPLACE SURFACING, OTHER STRUCTURES OR DEBRIS THAT WOULD INTERFERE WITH CONSTRUCTION. ALL SUCH MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL EITHER BE RECYCLED TO THE EXTENT ALLOWED OR DISPOSED OF OFF THE RIGHT OF WAY IN ACCORDANCE WITH SPECIFICATION 2104.C3C. ALL BORINGS WITHIN THE EXISTING ROADWAYS ENCOUNTERED ABOUT 4" TO 6" OF BITUMINOUS PAVEMENT OVER APPROXIMATELY 6" TO 12" OF SILTY SAND BASE, SEE GEOTECHNICAL REPORT. NO COMPENSATION WILL BE MADE FOR VARIATIONS IN EXISTING BITUMINOUS PAVEMENT THICKNESSES OR EXISTING BASE THICKNESS.
18. CONTRACTOR SHALL PROTECT AND SUPPORT AS NECESSARY ALL TREES, BUILDINGS, LANDSCAPING, RETAINING WALLS, WALKWAYS, DRIVEWAYS, CURB & GUTTER, ETC. UNLESS NOTED OTHERWISE AND APPROVED FOR REMOVAL IN THE FIELD BY THE ENGINEER.
19. CONTRACTOR SHALL SALVAGE AND INSTALL OR PROTECT ALL LANDSCAPING INCLUDING BOULDERS, EDGING, LANDSCAPE ROCK, MULCH, BUSHES, PLANTS, LAWN ORNAMENTS, ETC. THAT ARE DISTURBED BY CONSTRUCTION.

TURF ESTABLISHMENT:

20. CONTRACTOR SHALL STRIP ALL INPLACE TOPSOIL IN AREAS TO BE DISTURBED BY CONSTRUCTION AND REUSE AS SLOPE DRESSING.
21. PLACE A MINIMUM OF 6 INCHES OF TOPSOIL ON ALL AREAS SCHEDULED FOR PERMANENT TURF ESTABLISHMENT.
22. IMPACTED TRESS SHALL BE REMOVED OR TREATED PRIOR TO CONSTRUCTION. IF ADDITIONAL TREES NEED TO BE REMOVED THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY.
23. PROVIDE FERTILIZER TYPE 2, PHOSPHOROUS FREE, 20-0-10, OR EQUIVALENT ON ALL AREAS TO BE SEEDED AT AN APPLICATION RATE OF 200 LBS/ACRE. THIS WORK IS INCIDENTAL.
24. PRIOR TO IMPORTING TOPSOIL THE CONTRACTOR SHALL REUSE AND SPREAD SALVAGED TOPSOIL. MATERIAL IMPORTED AND NOT NEEDED WILL NOT BE PAID FOR.

MISCELLANEOUS:

25. WHERE SEDIMENT DEPOSITS IN WATERS OF THE STATE THE MATERIAL MUST BE REMOVED IN 7 DAYS.
26. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST CURRENT MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.
27. THE CONTRACTOR IS HEREBY REMINDED OF HIS/HER RESPONSIBILITY UNDER STATE LAW TO CONTACT ALL UTILITIES THAT MAY HAVE FACILITIES IN THE AREA. CONTACT MUST BE MADE THROUGH GOPHER STATE ONE-CALL.
28. WHENEVER THE WORD "INCIDENTAL" IS USES IN THIS PLAN, IT SHALL MEAN THIS WORK WILL BE INCIDENTAL FOR WHICH NO DIRECT COMPENSATION WILL BE MADE.
29. CONTRACTOR SHALL PROTECT ALL STORM SEWER PIPE. SEGMENTS OF THE PROPOSED STORM SEWER EXTEND ABOVE THE SUBGRADE.
30. TWO TREES WILL BE OFFERED TO EACH PROPERTY OWNER. THE LOCATIONS AND SPECIES OF EACH TREE WILL BE DETERMINED IN THE FIELD BY THE HOME OWNER.

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CITY OF SHOREWOOD
STRAWBERRY LANE RECONSTRUCTION
GENERAL NOTES

SHEET
G0.03

WEST 62ND ST

MAPLE AVE

STRAWBERRY LANE

STRAWBERRY LANE

SEE SHEET G1.02

C0.01 C2.01 C6.01

C0.01 C2.01 C6.02

C6.03

SHOREWOOD OAKS DRIVE

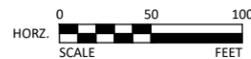
ALEXANDER LANE

HCRA-LAKE MINNETONKA REGIONAL TRAIL

GENERAL PLAN LAYOUT LEGEND



-  PROPOSED CONSTRUCTION
-  C3.00 POND GRADING PLAN
-  C0.00 EXISTING CONDITIONS & REMOVALS PLAN
-  C4.00 WATERMAIN PLAN & PROFILE
-  C1.00 STAGING PLAN
-  C5.00 STORM SEWER PLAN & PROFILE
-  C2.00 EROSION CONTROL & TURF ESTABLISHMENT PLAN
-  C6.00 STREET CONSTRUCTION PLAN & PROFILE, SIGNING & STRIPING PLAN



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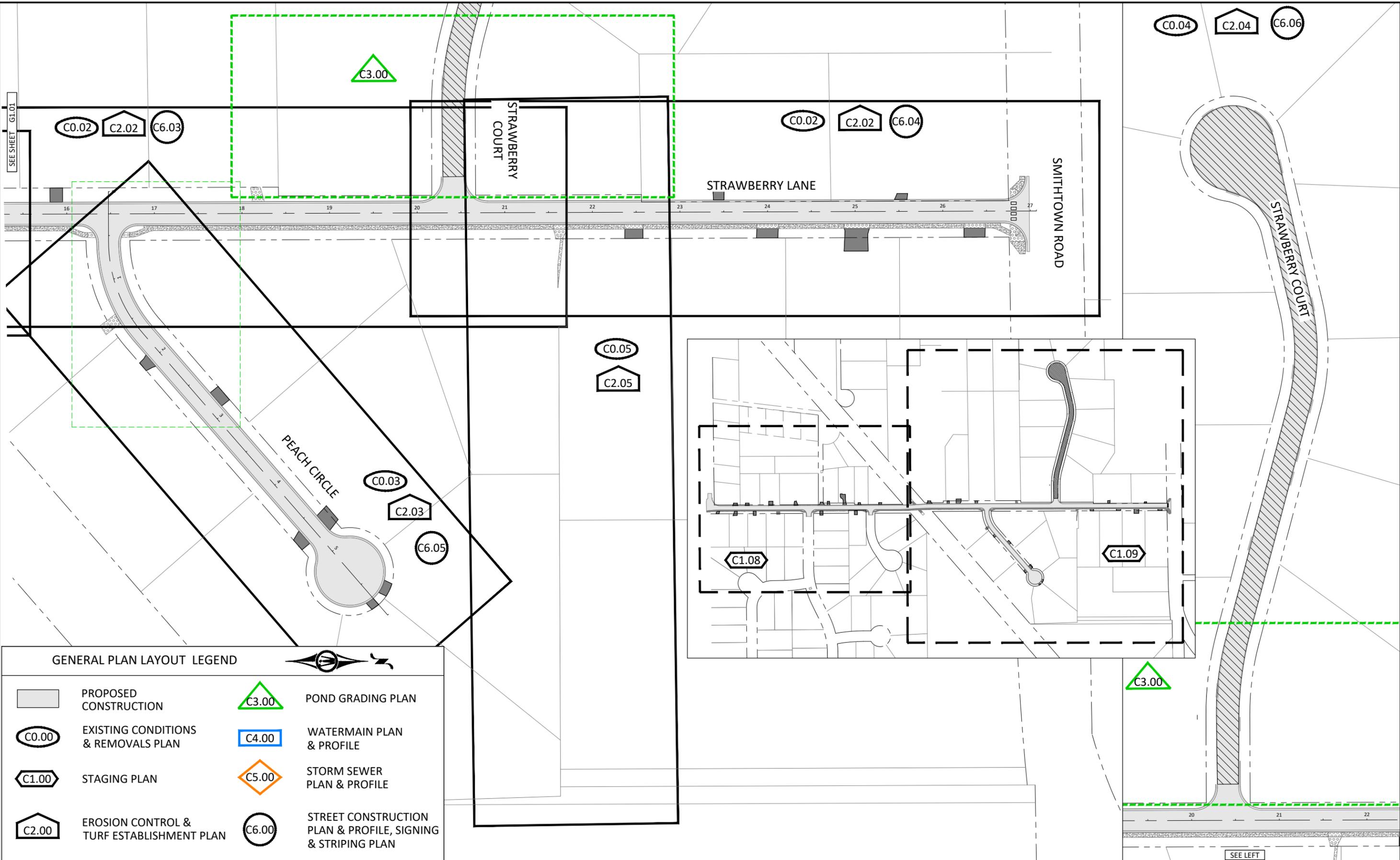


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CITY OF SHOREWOOD
 STRAWBERRY LANE RECONSTRUCTION
 GENERAL PLAN LAYOUT-STREETS

SHEET
G1.01



GENERAL PLAN LAYOUT LEGEND

- | | | | |
|---|---|---|---|
|  | PROPOSED CONSTRUCTION |  | POND GRADING PLAN |
|  | EXISTING CONDITIONS & REMOVALS PLAN |  | WATERMAIN PLAN & PROFILE |
|  | STAGING PLAN |  | STORM SEWER PLAN & PROFILE |
|  | EROSION CONTROL & TURF ESTABLISHMENT PLAN |  | STREET CONSTRUCTION PLAN & PROFILE, SIGNING & STRIPING PLAN |



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WEST 62ND ST

MAPLE AVE

SHOREWOOD OAKS DRIVE

ALEXANDER LANE

STRAWBERRY LANE

STRAWBERRY LANE

HCRA-LAKE MINNETONKA REGIONAL TRAIL

GENERAL PLAN LAYOUT LEGEND

	PROPOSED CONSTRUCTION		POND GRADING PLAN
	EXISTING CONDITIONS & REMOVALS PLAN		WATERMAIN PLAN & PROFILE
	STAGING PLAN		STORM SEWER PLAN & PROFILE
	EROSION CONTROL & TURF ESTABLISHMENT PLAN		STREET CONSTRUCTION PLAN & PROFILE, SIGNING & STRIPING PLAN



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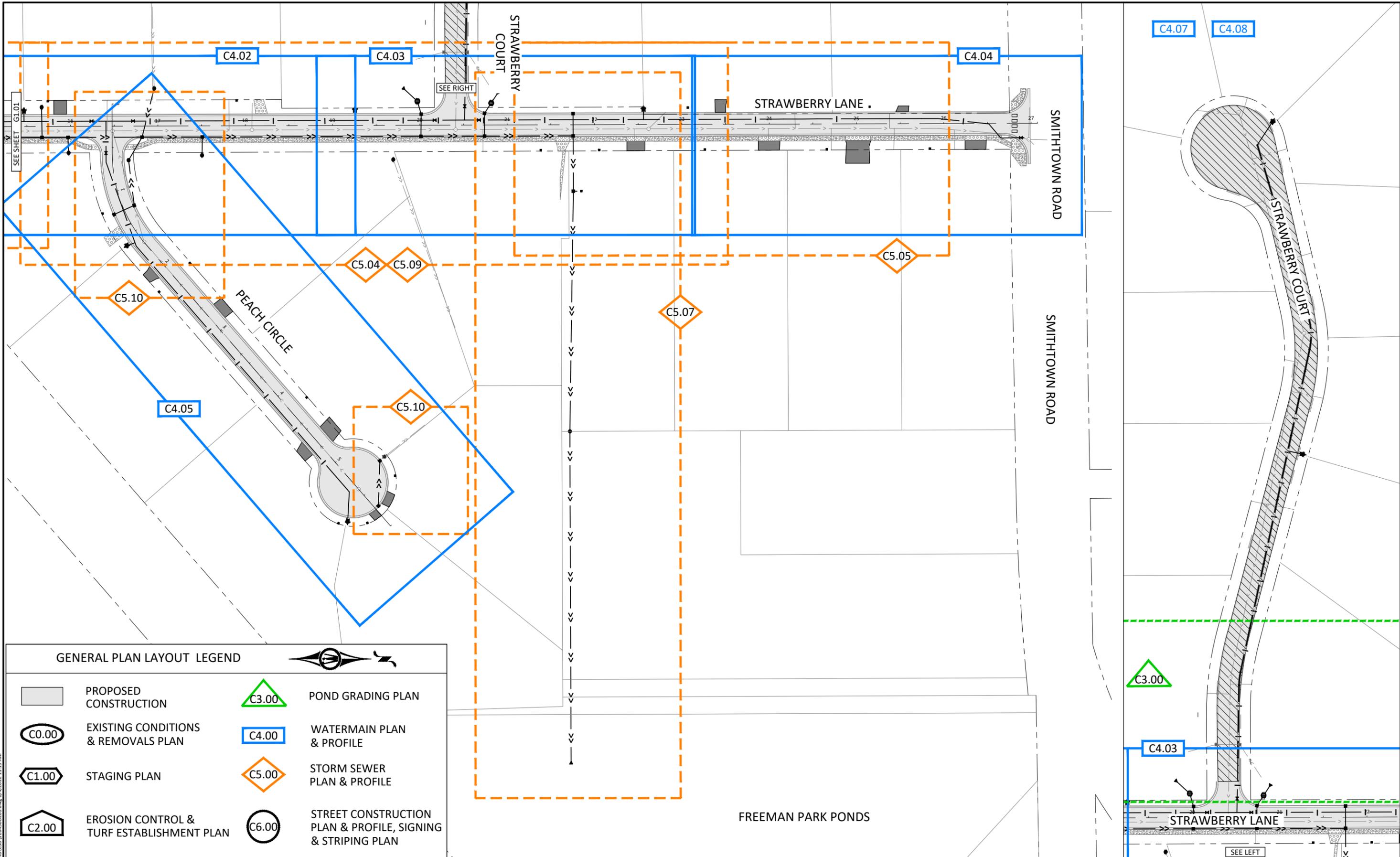


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CITY OF SHOREWOOD
 STRAWBERRY LANE RECONSTRUCTION
 GENERAL PLAN LAYOUT-UTILITIES

SHEET
G1.03



GENERAL PLAN LAYOUT LEGEND

- | | | | |
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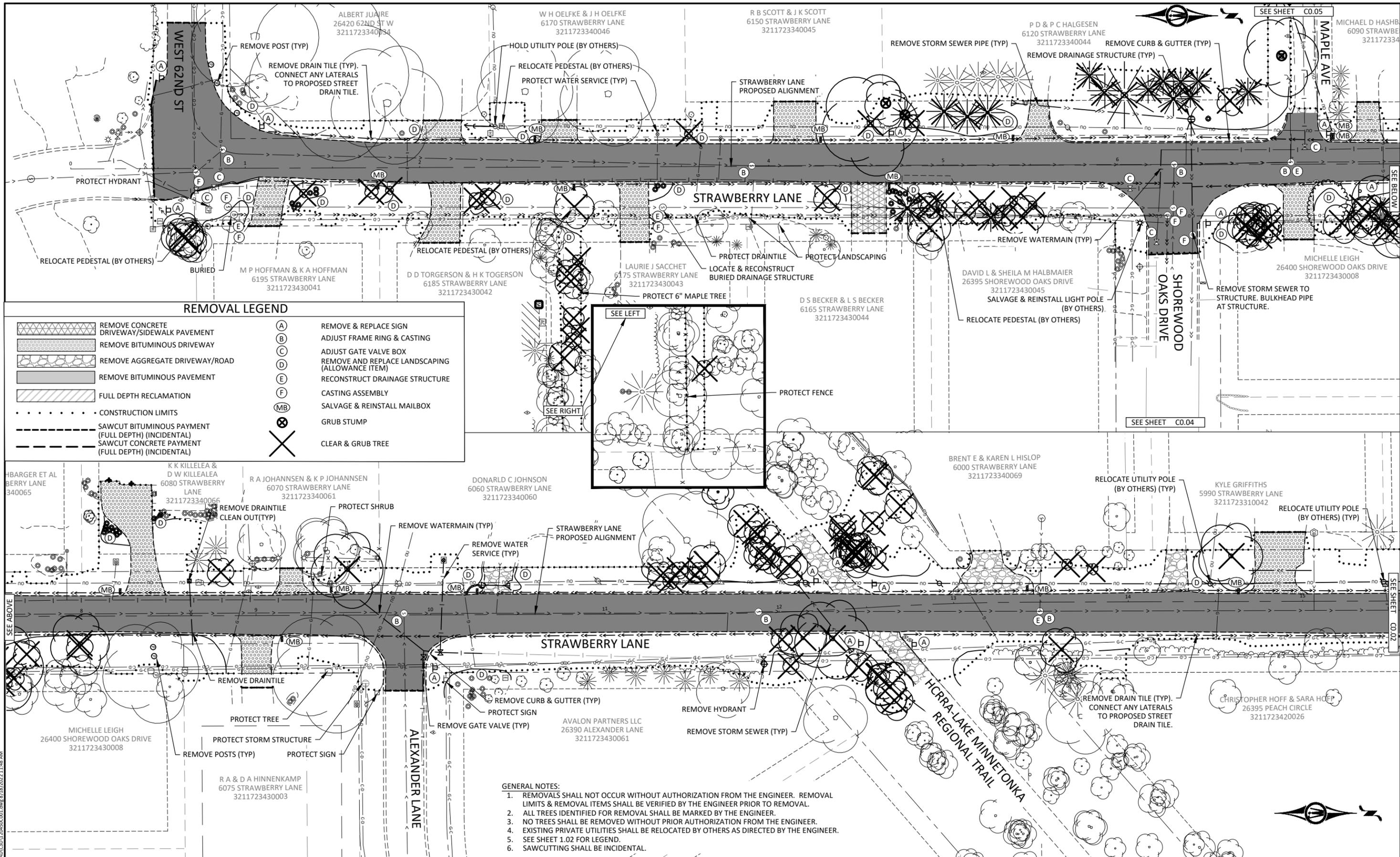
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 GENERAL PLAN LAYOUT-UTILITIES

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REMOVAL LEGEND

	REMOVE CONCRETE DRIVEWAY/SIDEWALK PAVEMENT	(A)	REMOVE & REPLACE SIGN
	REMOVE BITUMINOUS DRIVEWAY	(B)	ADJUST FRAME RING & CASTING
	REMOVE AGGREGATE DRIVEWAY/ROAD	(C)	ADJUST GATE VALVE BOX
	REMOVE BITUMINOUS PAVEMENT	(D)	REMOVE AND REPLACE LANDSCAPING (ALLOWANCE ITEM)
	FULL DEPTH RECLAMATION	(E)	RECONSTRUCT DRAINAGE STRUCTURE
	CONSTRUCTION LIMITS	(F)	CASTING ASSEMBLY
	SAWCUT BITUMINOUS PAYMENT (FULL DEPTH) (INCIDENTAL)	(MB)	SALVAGE & REINSTALL MAILBOX
	SAWCUT CONCRETE PAYMENT (FULL DEPTH) (INCIDENTAL)		GRUB STUMP
			CLEAR & GRUB TREE

- GENERAL NOTES:**
1. REMOVALS SHALL NOT OCCUR WITHOUT AUTHORIZATION FROM THE ENGINEER. REMOVAL LIMITS & REMOVAL ITEMS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO REMOVAL.
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 5. SEE SHEET 1.02 FOR LEGEND.
 6. SAWCUTTING SHALL BE INCIDENTAL.



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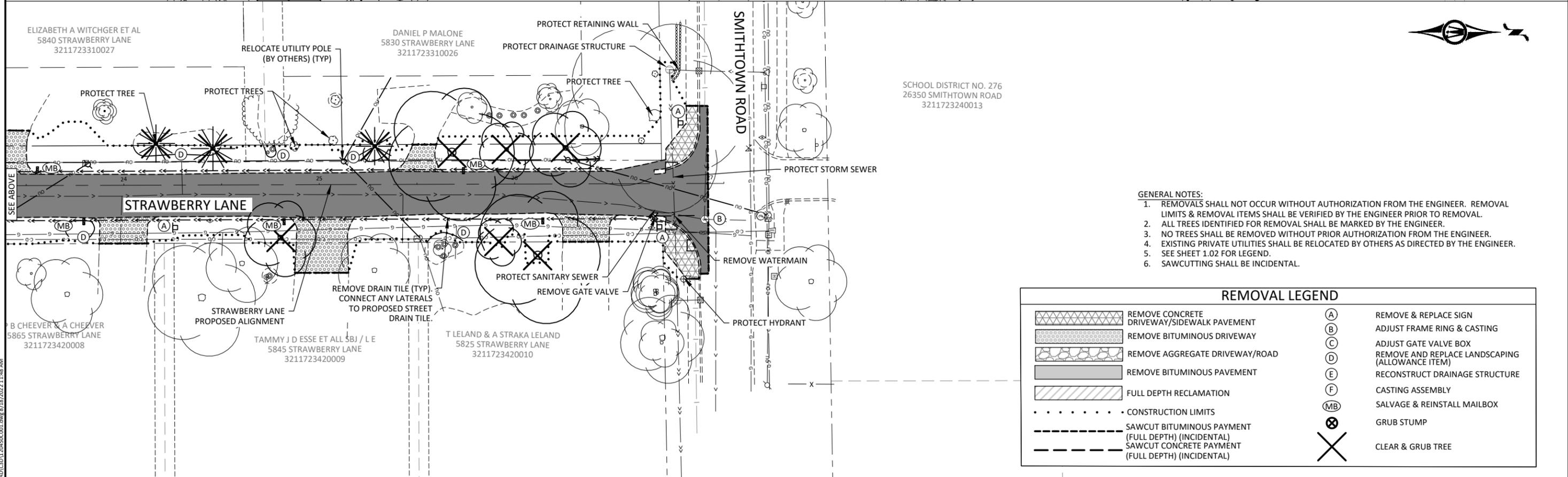
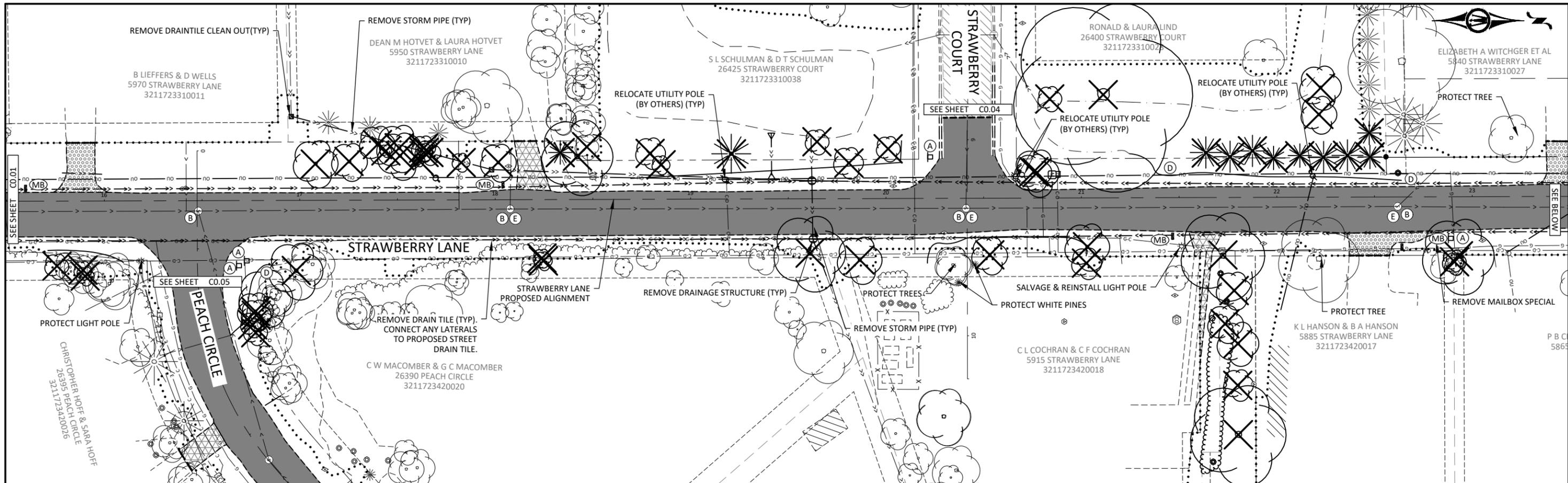
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CITY OF SHOREWOOD
 STRAWBERRY LANE RECONSTRUCTION
 EXISTING CONDITIONS & REMOVAL PLAN

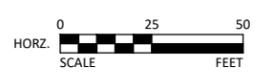
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	SAWCUT CONCRETE PAYMENT (FULL DEPTH) (INCIDENTAL)		GRUB STUMP
			CLEAR & GRUB TREE



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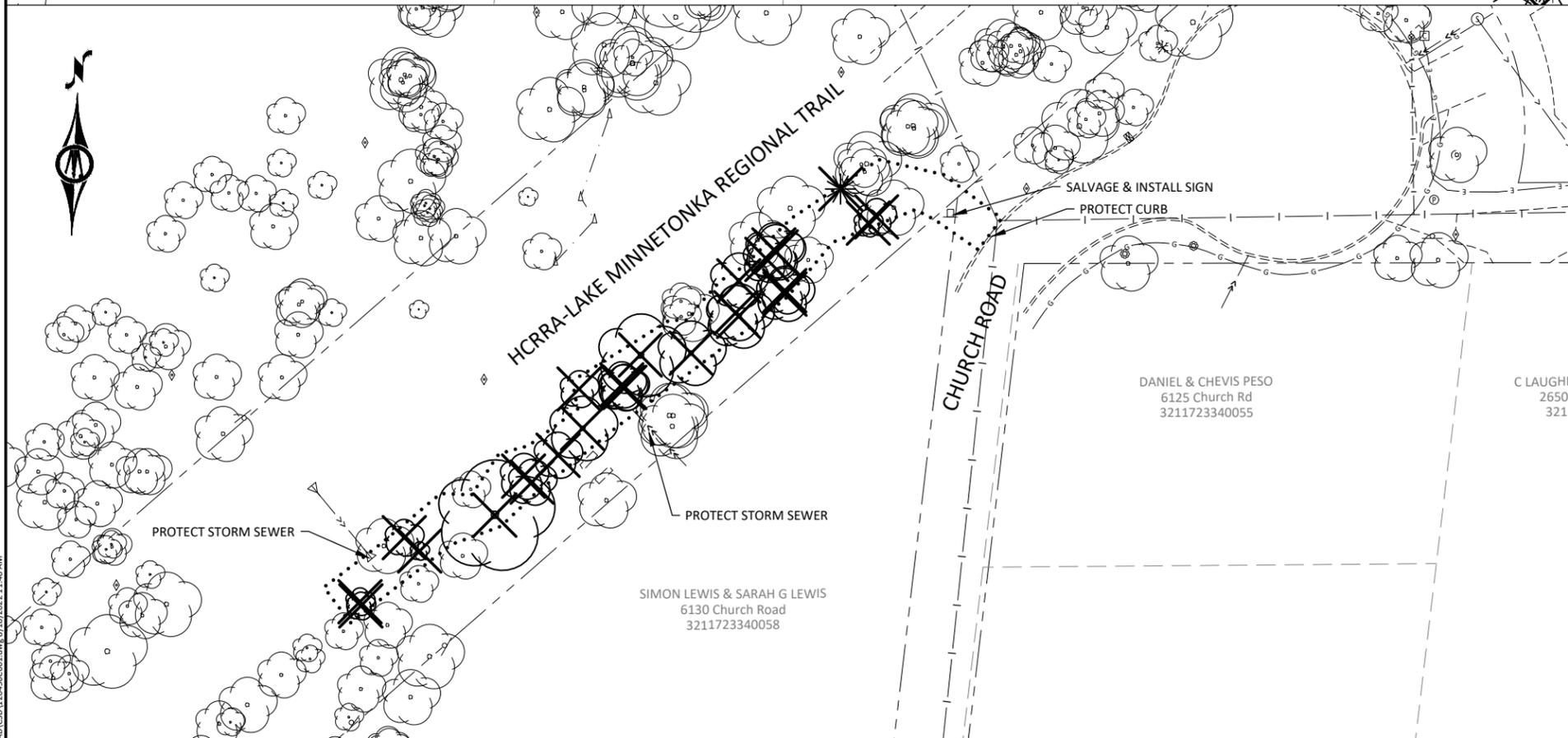
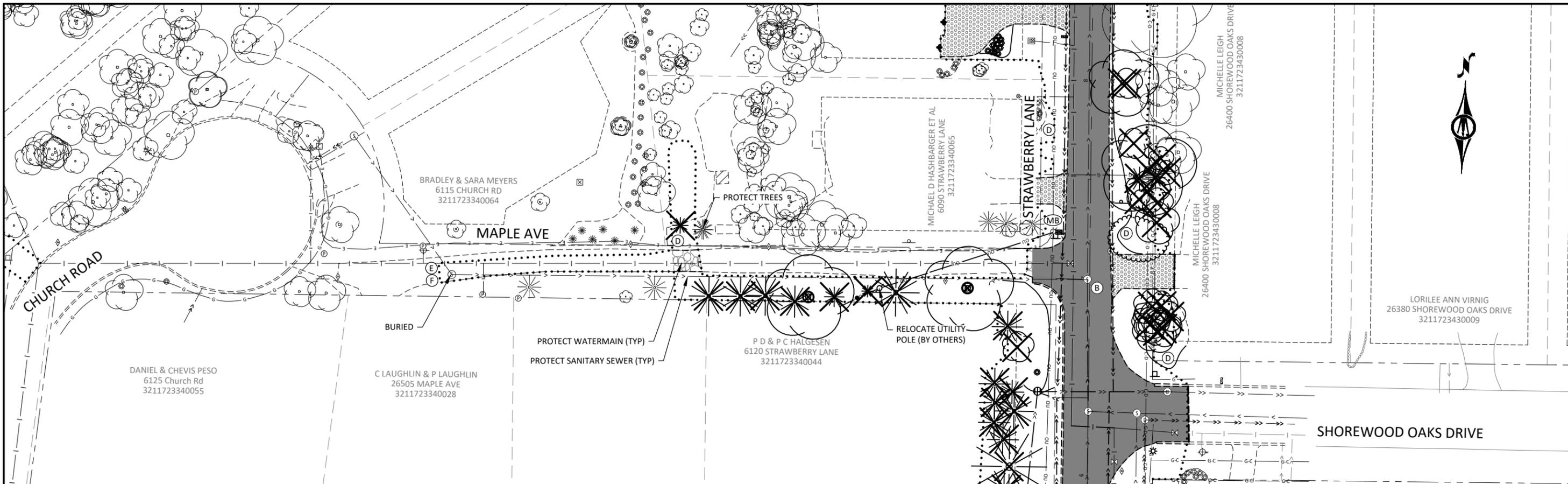
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CITY OF SHOREWOOD
 STRAWBERRY LANE RECONSTRUCTION
 EXISTING CONDITIONS & REMOVAL PLAN

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	CONSTRUCTION LIMITS	(F)	CASTING ASSEMBLY
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	SAWCUT CONCRETE PAYMENT (FULL DEPTH) (INCIDENTAL)		GRUB STUMP
			CLEAR & GRUB TREE

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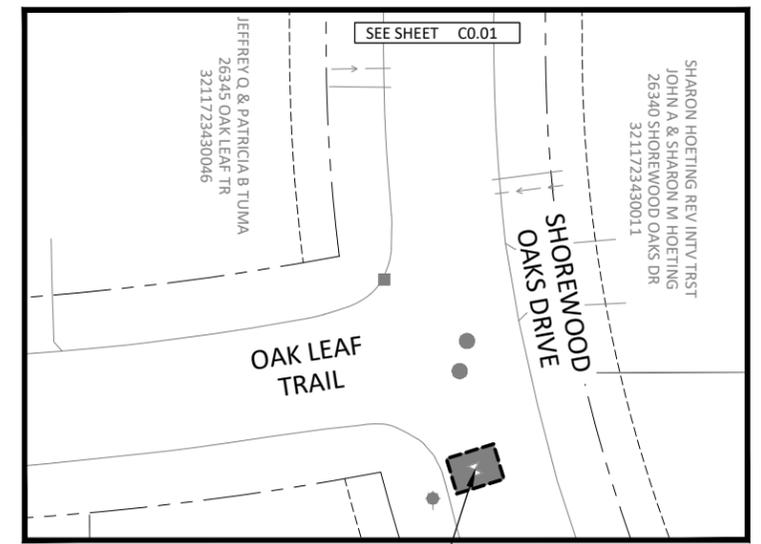
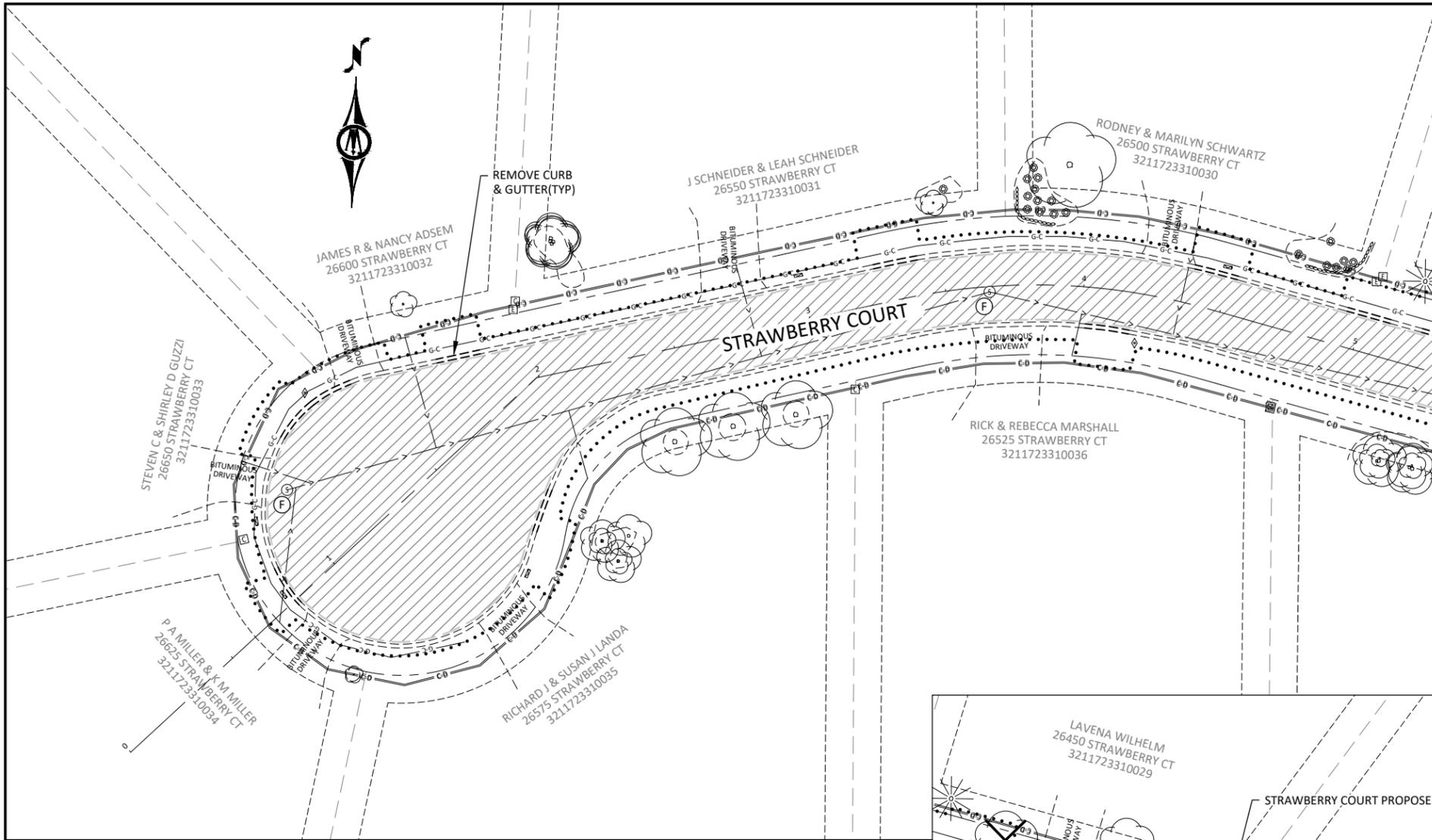


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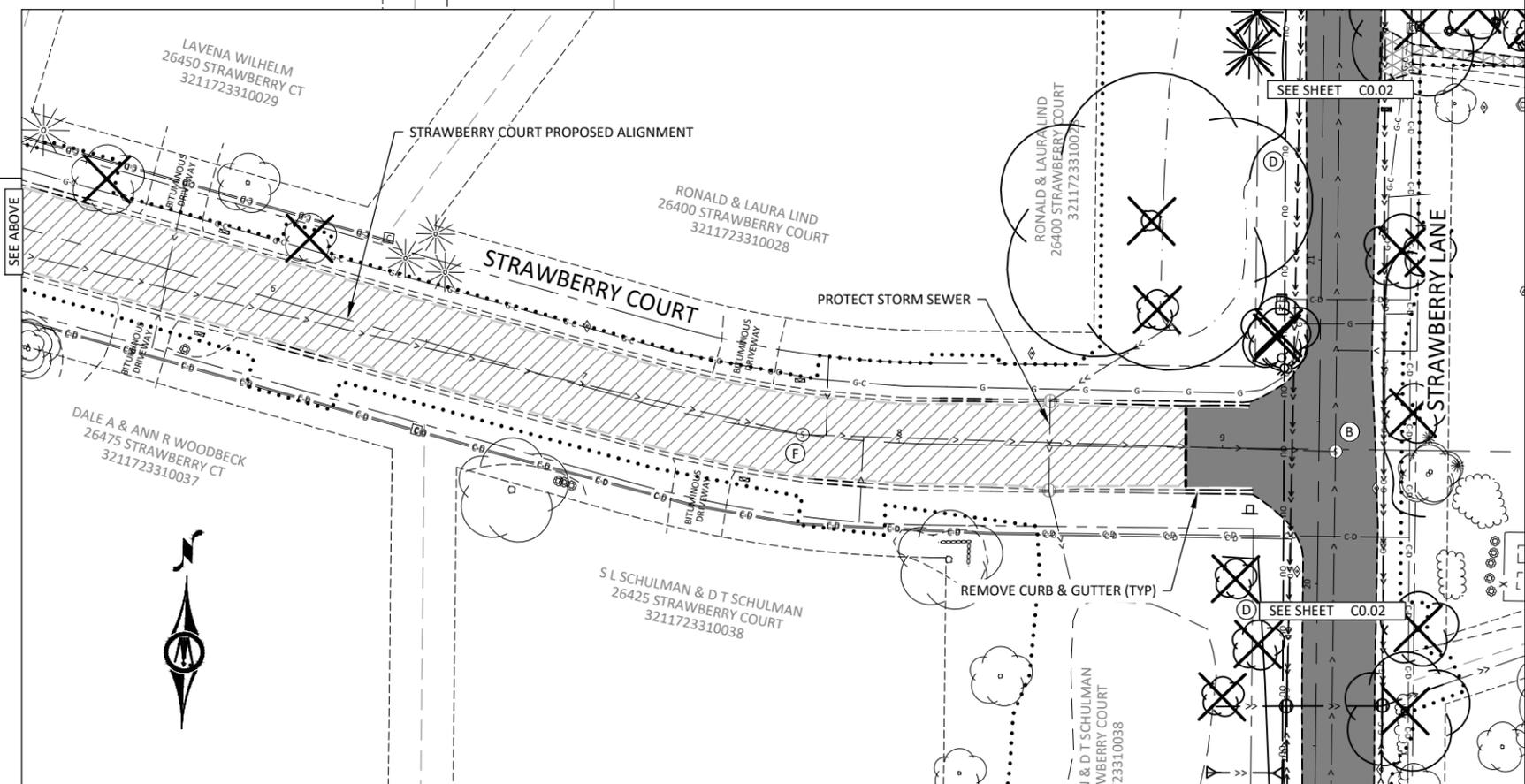
CITY OF SHOREWOOD
STRAWBERRY LANE RECONSTRUCTION
EXISTING CONDITIONS & REMOVAL PLAN

SHEET
C0.03



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	REMOVE BITUMINOUS DRIVEWAY
	REMOVE AGGREGATE DRIVEWAY/ROAD
	REMOVE BITUMINOUS PAVEMENT
	FULL DEPTH RECLAMATION
	CONSTRUCTION LIMITS
	SAWCUT BITUMINOUS PAYMENT (FULL DEPTH) (INCIDENTAL)
	SAWCUT CONCRETE PAYMENT (FULL DEPTH) (INCIDENTAL)
	REMOVE & REPLACE SIGN
	ADJUST FRAME RING & CASTING
	ADJUST GATE VALVE BOX
	REMOVE AND REPLACE LANDSCAPING (ALLOWANCE ITEM)
	RECONSTRUCT DRAINAGE STRUCTURE
	CASTING ASSEMBLY
	SALVAGE & REINSTALL MAILBOX
	GRUB STUMP
	CLEAR & GRUB TREE



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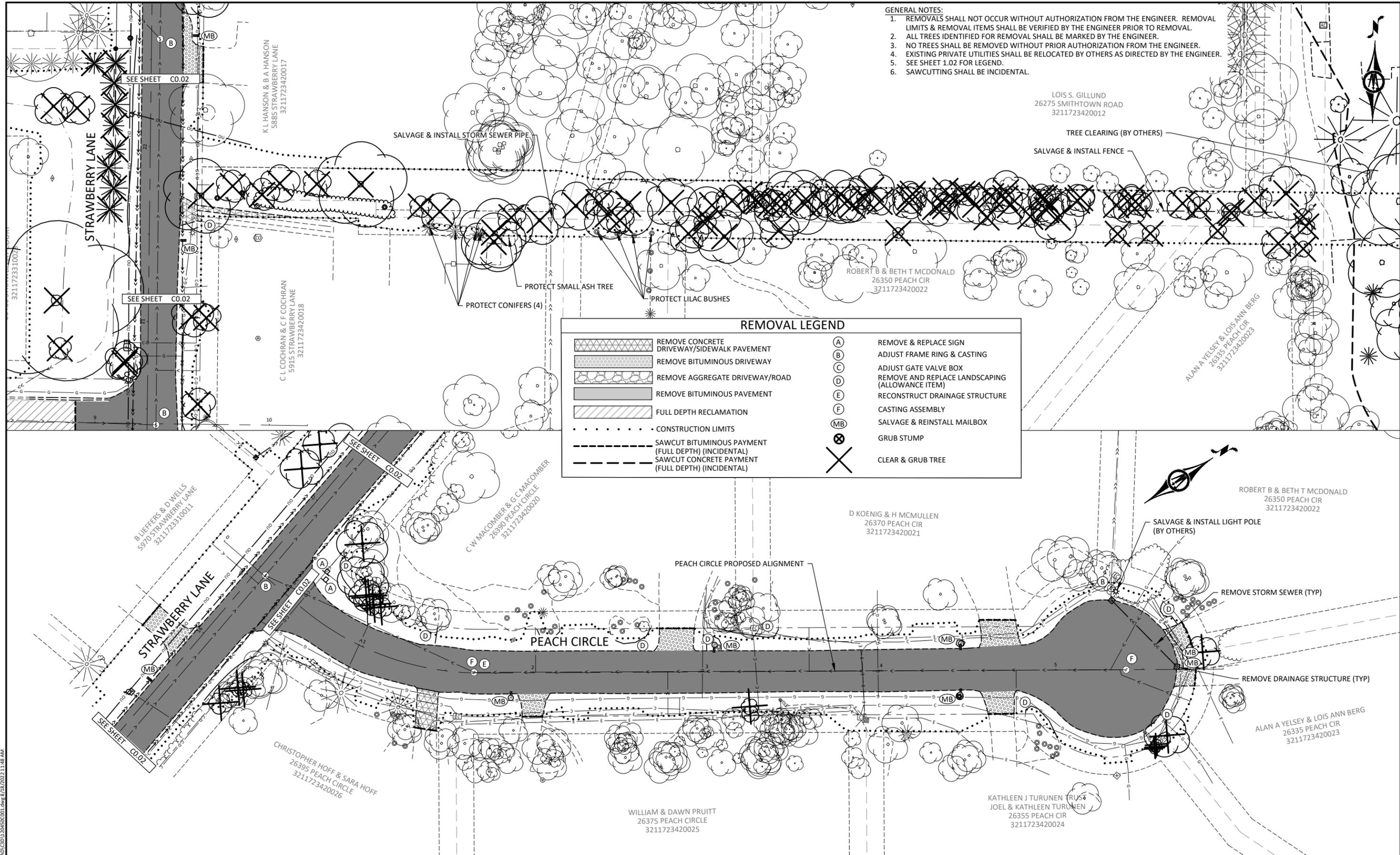
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 STRAWBERRY LANE RECONSTRUCTION
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	SAWCUT CONCRETE PAYMENT (FULL DEPTH) (INCIDENTAL)	(X)	GRUB STUMP
		(X)	CLEAR & GRUB TREE



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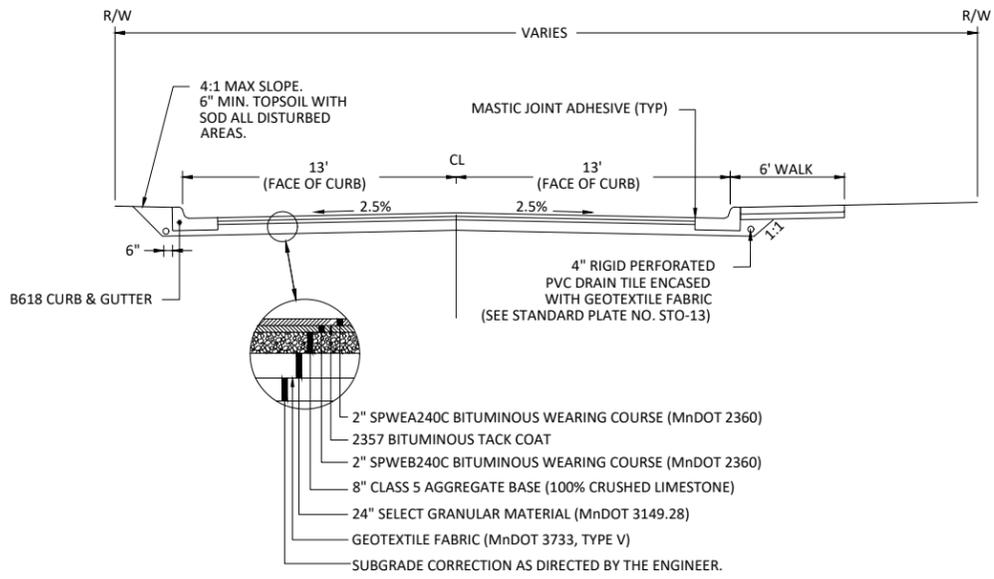
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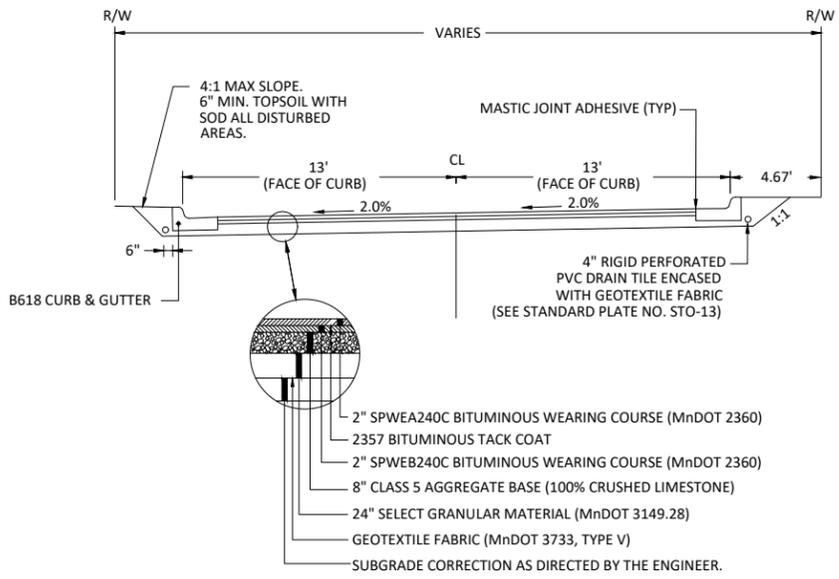
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EXISTING CONDITIONS & REMOVAL PLAN

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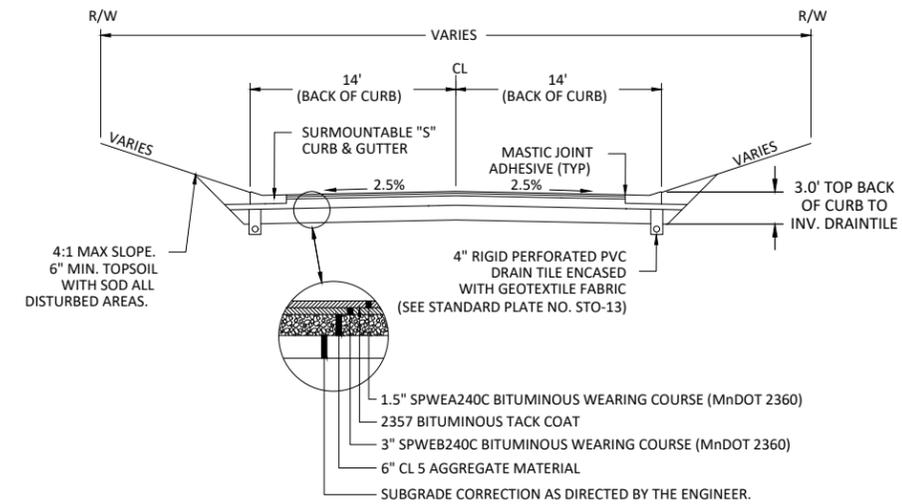
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RECONSTRUCTION TYPICAL SECTION-STRAWBERRY LANE
 TYPICAL 26' F-F WITH NORMAL CROWN URBAN RESIDENTIAL BARRIER CURB STREET DETAIL

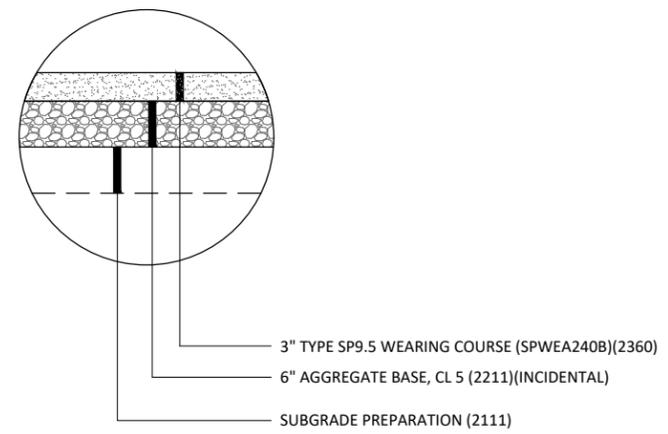


RECONSTRUCTION TYPICAL SECTION-PEACH CIRCLE
 TYPICAL 26' F-F URBAN RESIDENTIAL BARRIER CURB STREET DETAIL

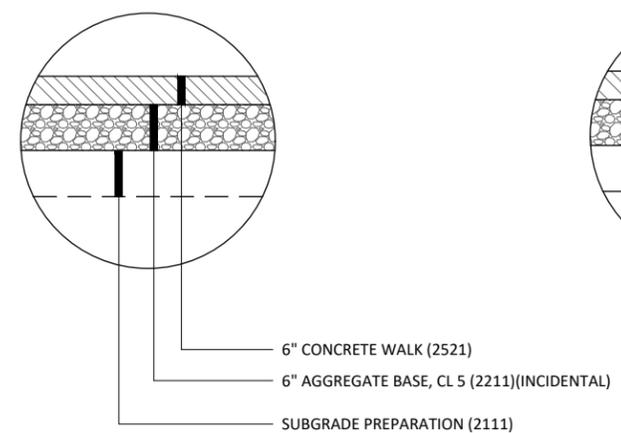


RECLAMATION TYPICAL SECTION-STRAWBERRY COURT
 TYPICAL 28' B-B WITH NORMAL CROWN URBAN RESIDENTIAL SURMOUNTABLE CURB STREET DETAIL

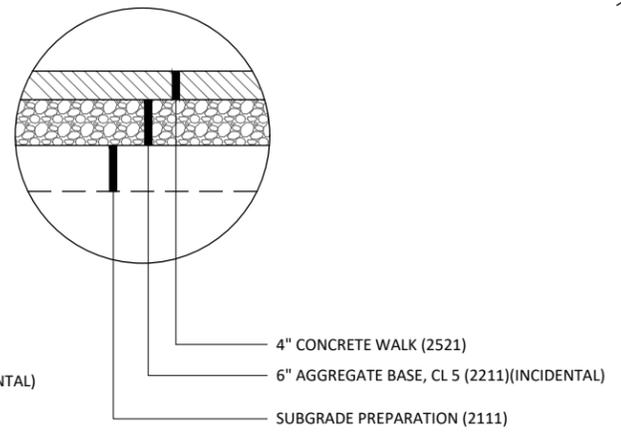
3" BITUMINOUS DRIVEWAY
 NOT TO SCALE



6" CONCRETE WALK/DRIVEWAY
 NOT TO SCALE



4" CONCRETE WALK
 NOT TO SCALE

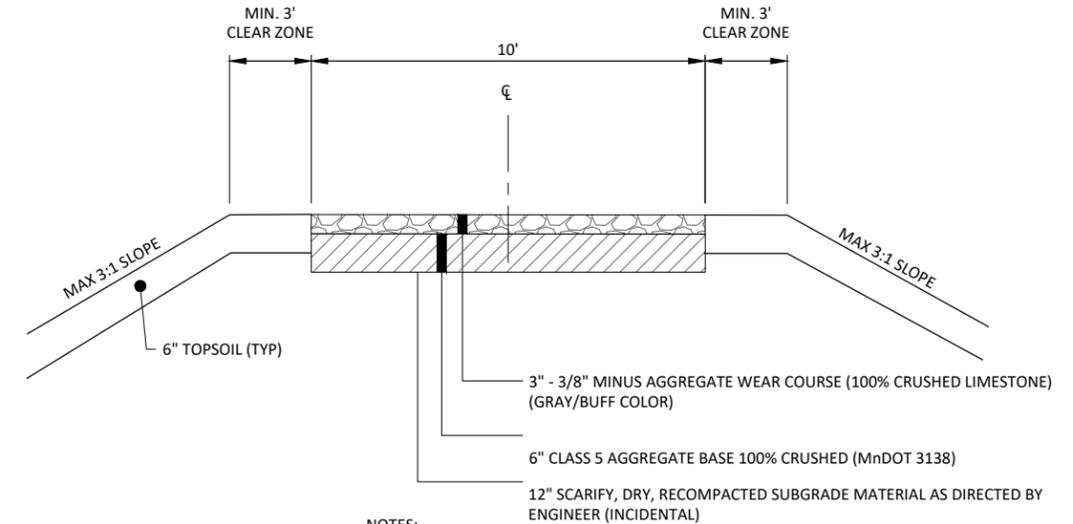


GENERAL NOTES:

- UNLESS OTHERWISE SPECIFIED, THE CROSS SLOPE OF THE GRADING GRADE MATCHES THE CROSS SLOPE OF THE DRIVING LANES.
- PLACE BITUMINOUS TACK COAT BETWEEN ALL BITUMINOUS LIFTS AND ON EXISTING BITUMINOUS PRIOR TO PAVING WEAR COURSE. PLACE TACK COAT ON ALL VERTICAL FACES OF SAWCUT BITUMINOUS SURFACES (INCIDENTAL).
- INSLOPES SHOWN ARE NORMAL. SEE CROSS SECTIONS FOR VARIATIONS.
- ANY VARIATIONS FROM THE TYPICAL SECTION DIMENSIONS ARE SHOWN ON THE PLAN DRAWINGS.
- PAVEMENT CROSS SLOPES VARY. SEE CONSTRUCTION PLANS FOR PAVEMENT SLOPES.
- PAVEMENT SLOPES AT INTERSECTION LOCATIONS MAY VARY FROM THOSE SHOWN ON THE TYPICAL SECTION.
- BOULEVARD SLOPES VARY. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE.
- PAVEMENT CROSS-SLOPES TRANSITIONS 1.0% EVERY 25 FEET. SEE CONSTRUCTION PLANS.
- DRAINTILE SHALL BE INSTALLED BEHIND CURB DRAINTILE TO BE INSTALLED AS REQUIRED TO DRAIN ALL SELECT GRANULAR FILL AREAS. (SEE STANDARD PLATE NO. STO-13).
- THE CITY RESERVES THE RIGHT TO INCREASE THE STREET SECTION BASED ON SOIL CONDITIONS.
- CONSTRUCT FINAL LIFT OF BITUMINOUS WEAR COURSE ONE FREEZE/THAW CYCLE AFTER UTILITIES ARE INSTALLED.

SUBGRADE PREPARATION NOTES:

- SCARIFY, MIX & COMPACT THE TOP 12 INCHES OF THE SUBGRADE. REPEAT PROCESS UNTIL DESIRED MOISTURE CONTENT IS ACHIEVED. CONTRACTOR SHALL NOTIFY ENGINEER OF AREAS WHERE OPTIMUM MOISTURE LEVELS CANNOT BE OBTAINED DUE TO INSITU SOIL CONDITIONS. CONTRACTOR SHALL CORRECT AREAS REPRESENTED BY FAILING TESTS.
- CONTRACTOR SHALL MAINTAIN MOISTURE CONTENT DURING SUBGRADE CONPACTION BETWEEN -1.0 AND +3.0 OF OPTIMUM MOISTURE CONTENT, IN PERCENTAGE POINTS.
- COMPACT SUBGRADE IN ACCORDANCE WITH THE QUALITY COMPACTION METHOD.
- IF SUBGRADE TEST ROLL FAILS AND SUBGRADE MATERIAL MEETS MOISTURE REQUIREMENTS AND IS PROPERLY COMPACTIONED, ENGINEER MAY AUTHORIZE THE REMOVAL OF UNDESIRABLE MATERIAL AS SUBGRADE EXCAVATION.



- NOTES:
- 2' MAX SHOULDER WIDTH. 2% SLOPE ON SHOULDER.
 - 3:1 MAX OUTSIDE OF SHOULDER
 - MAINTAIN 10' CLEAR ZONE ABOVE TRAIL. TRIM TREE BRANCHES ACCORDINGLY.
 - SUBGRADE SHALL BE TEST ROLLED PRIOR TO AGGREGATE BASE INSTALLATION AND CONFORM TO MnDOT SPEC 2111.
 - LIMESTONE SHALL BE OBTAINED FROM KRAEMER MINING & MATERIALS.

3/8" MINUS GRADATION	
SIEVE SIZE	PERCENT PASING
3/8"	100
#4	70-100
#40	20-50
#200	10-30

LRT GRAVEL TRAIL SECTION
 NOT TO SCALE

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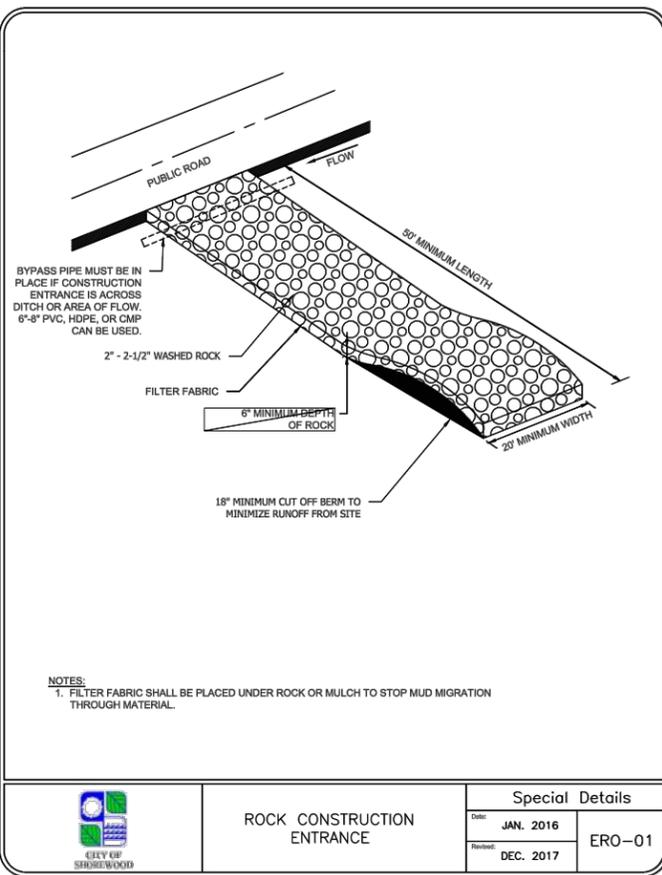


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CITY OF SHOREWOOD
 STRAWBERRY LANE RECONSTRUCTION
 TYPICAL SECTIONS

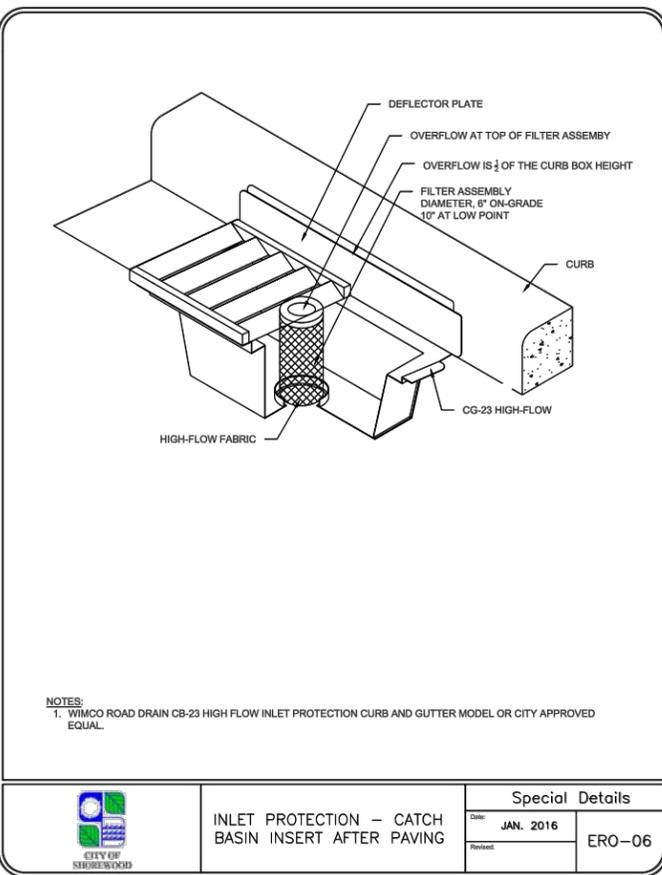
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ROCK CONSTRUCTION ENTRANCE

Special Details

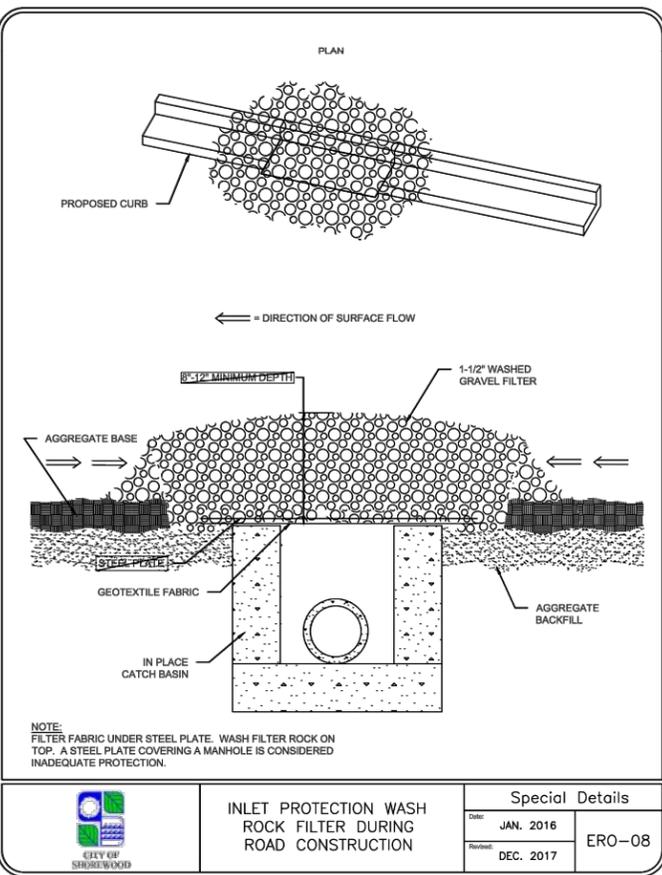
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Revised: DEC. 2017
ERO-01



INLET PROTECTION - CATCH BASIN INSERT AFTER PAVING

Special Details

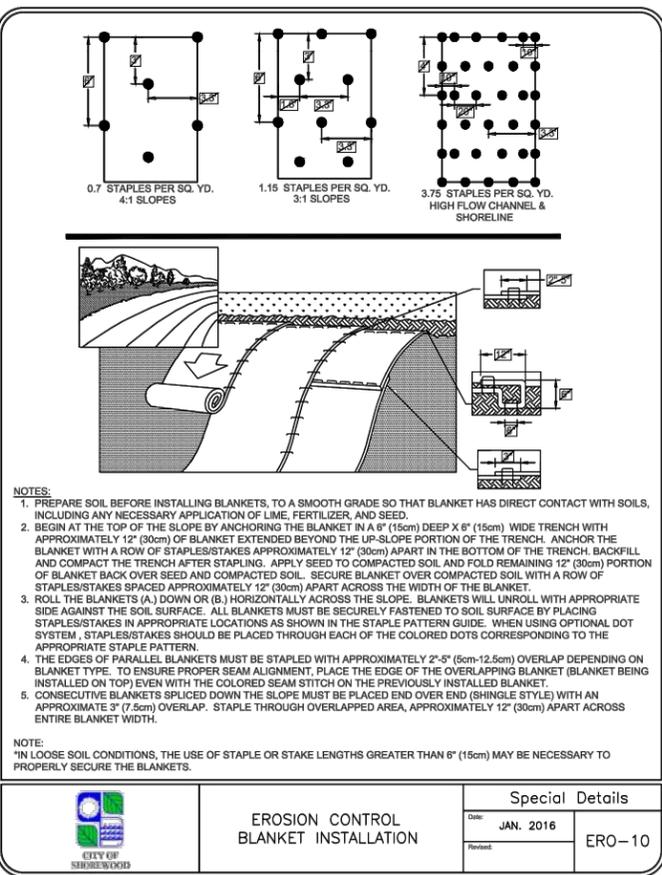
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Revised: DEC. 2017
ERO-06



INLET PROTECTION WASH ROCK FILTER DURING ROAD CONSTRUCTION

Special Details

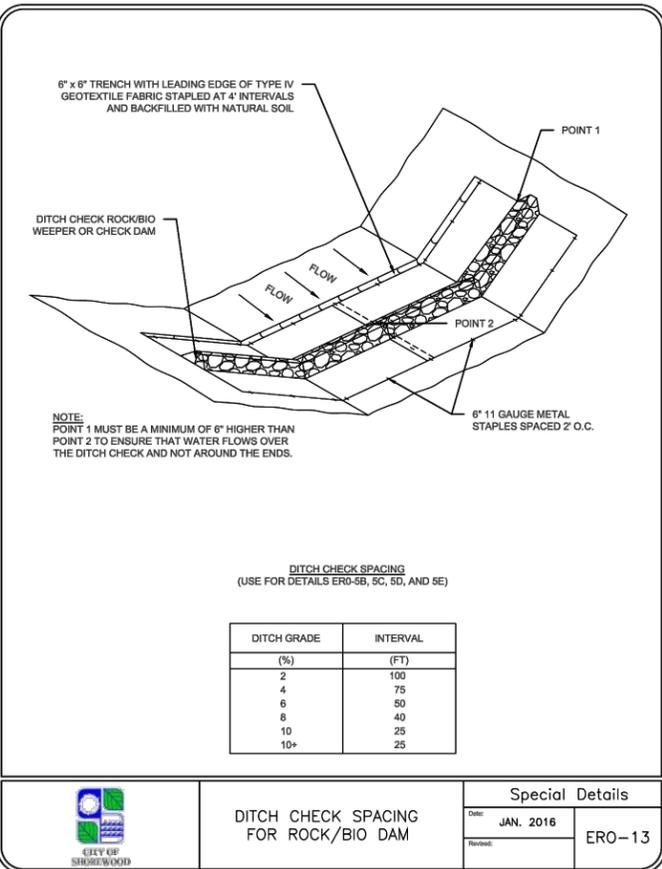
Date: JAN. 2016
Revised: DEC. 2017
ERO-08



EROSION CONTROL BLANKET INSTALLATION

Special Details

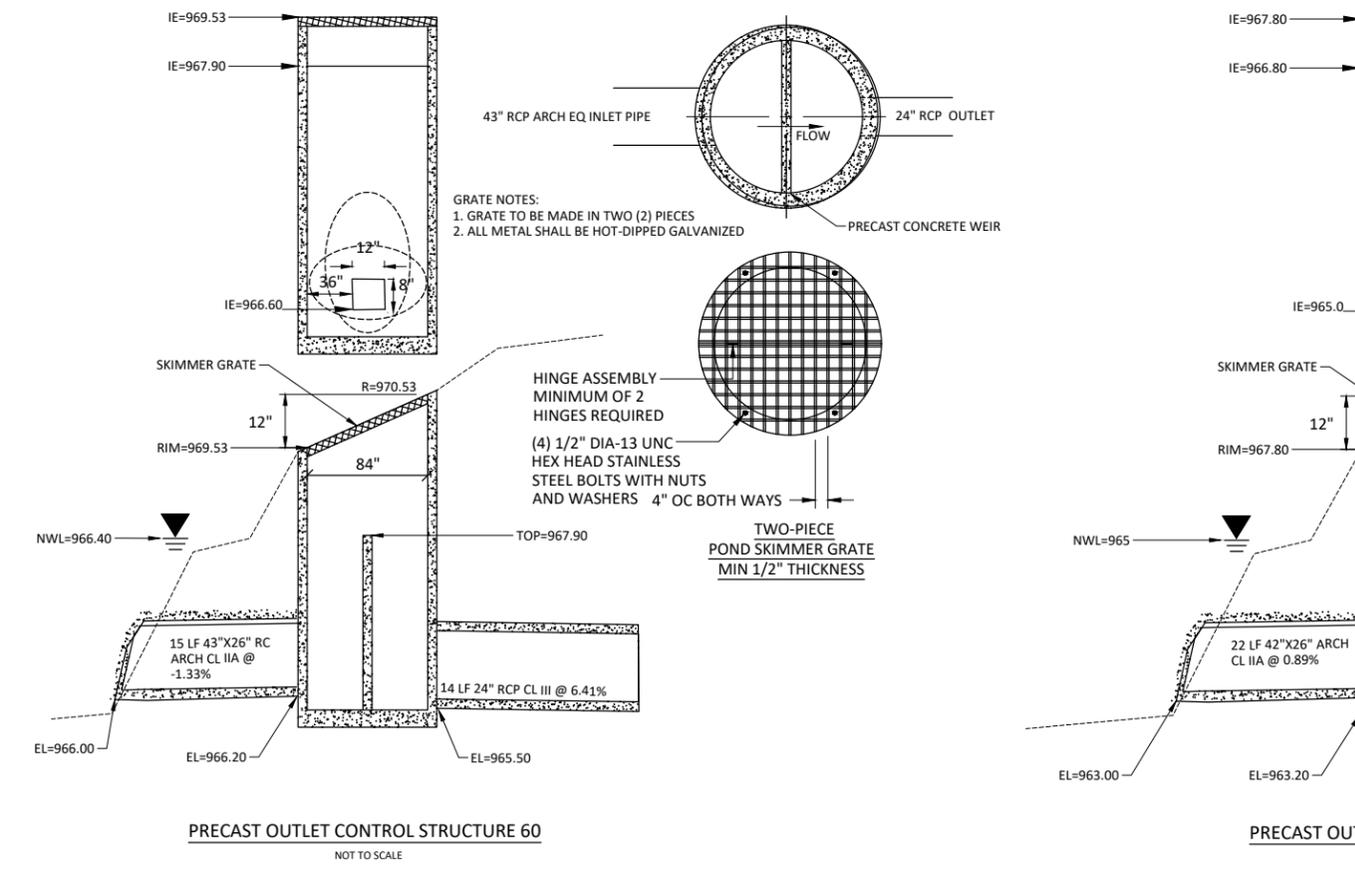
Date: JAN. 2016
Revised: DEC. 2017
ERO-10



DITCH CHECK SPACING FOR ROCK/BIO DAM

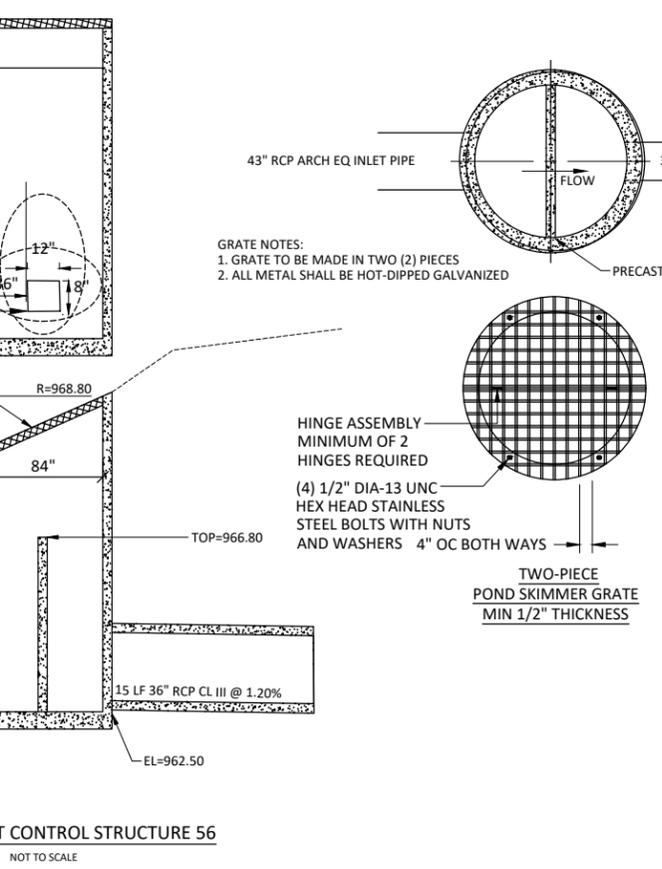
Special Details

Date: JAN. 2016
Revised: DEC. 2017
ERO-13



PRECAST OUTLET CONTROL STRUCTURE 60

NOT TO SCALE

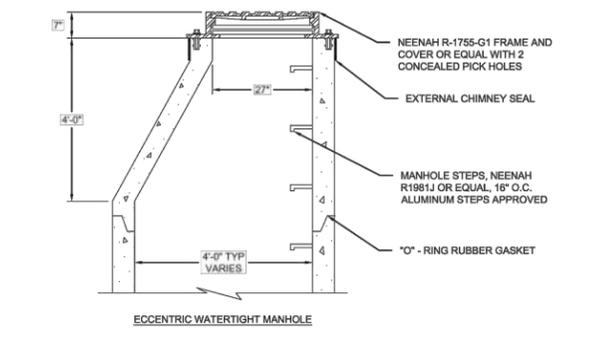
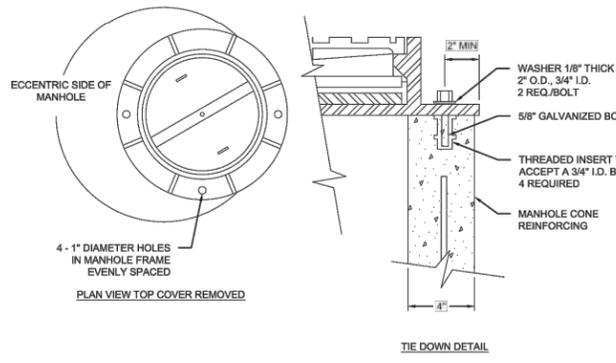


PRECAST OUTLET CONTROL STRUCTURE 56

NOT TO SCALE

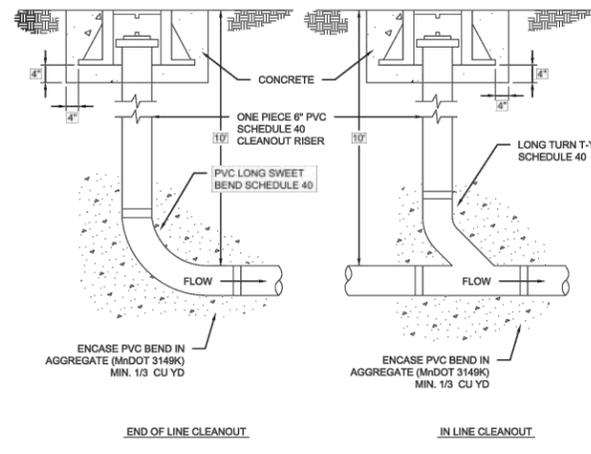
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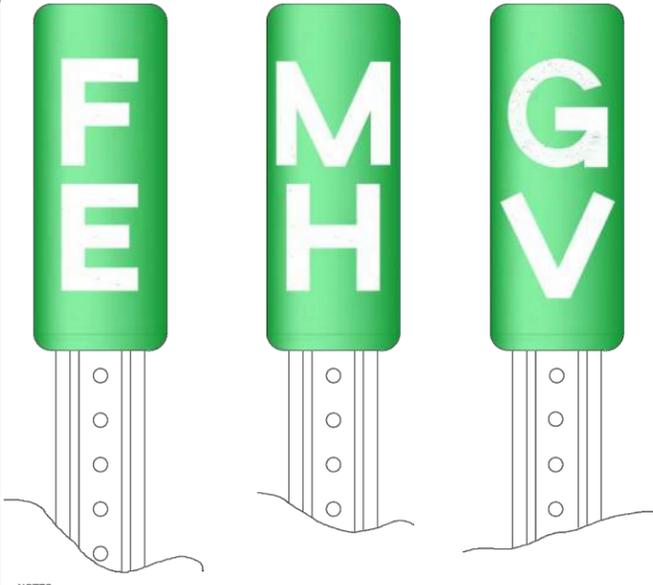


CITY OF SHOREWOOD	WATERTIGHT CASTING FOR SANITARY SEWER MANHOLE	Special Details	
		Date: JAN. 2016	SAN-05
		Revised:	

- NOTES:
- 6 HUB WITH THREADED PVC PLUG.
 - ENCLOSE LONG SWEEP BEND OR COMBINATION WYE IN CONCRETE AS SHOWN.
 - FORD A1 LOCKING EQUAL ENCASED IN CONCRETE AS SHOWN WITH #4 REBAR EACH SQUARE EMBEDDED INTO CONCRETE (INCIDENTAL TO CLEANOUT).
 - CLEAN-OUTS ARE REQUIRED EVERY 100' ON SANITARY SEWER SERVICES.
 - CLEAN-OUTS SHALL BE LOCATED OUTSIDE OF THE ROADWAY.

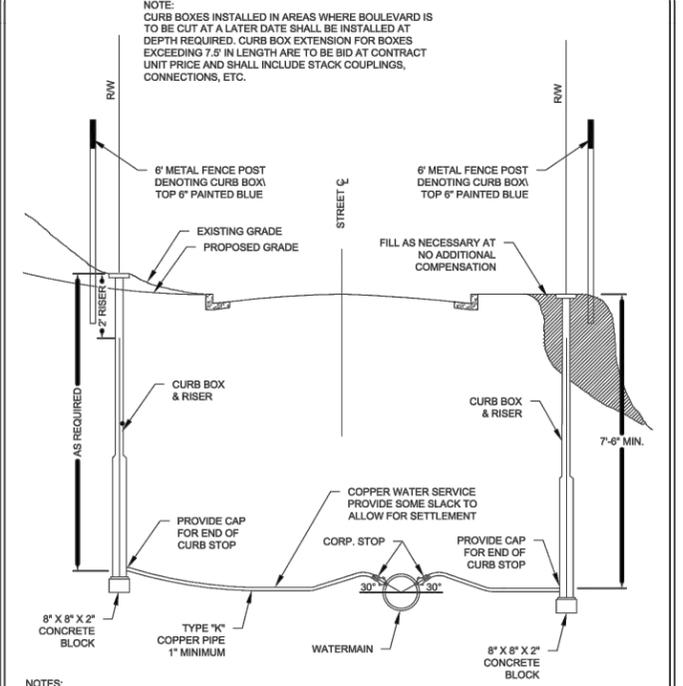


CITY OF SHOREWOOD	PVC SERVICE LINE CLEANOUTS	Special Details	
		Date: JAN. 2016	SAN-10
		Revised: DEC. 2017	



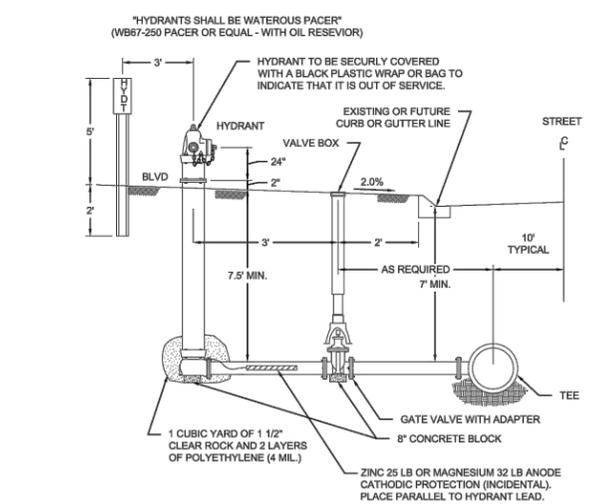
- NOTES:
- 0.063\"/>
 1. WATER GV - BLUE
 2. SEWER GV - GREEN
 3. MH - SEWER - GREEN
 4. MH - STORM - BLACK
 5. FE - BLACK
 - U-CHANNEL POST, MINIMUM 3LB./FT. 6'-6\"/>
 - STRUCTURE MARKER SIGNS SHALL BE FURNISHED AND CONSTRUCTED FOR ALL STRUCTURES LOCATED OUTSIDE OF THE STREET RIGHT OF WAY.
 - SIGNS ARE NOT REQUIRED IF STRUCTURE IS LOCATED IN A MAINTAINED LAWN.

CITY OF SHOREWOOD	STRUCTURE MARKER SIGNS	Special Details	
		Date: JAN. 2016	SAN-12
		Revised:	



- NOTES:
- THE COPPER SERVICE LINE BETWEEN THE MAIN LINE AND CURB BOX SHALL BE ONE CONTINUOUS PIECE. SPLICES WILL NOT BE PERMITTED.
 - SADDLE REQUIRED ON 6\"/>
 - CURB BOXES LOCATED WITHIN PAVED SURFACE SHALL RECEIVE A FORD A1 METER BOX COVER (INCIDENTAL).

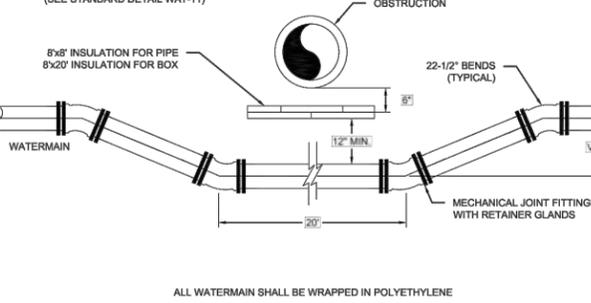
CITY OF SHOREWOOD	WATER SERVICE CONNECTION	Special Details	
		Date: JAN. 2016	WAT-02
		Revised: DEC. 2017	



- NOTES:
- ALL HYDRANTS SHALL HAVE WEEP HOLES.
 - MINIMUM 8.5' COVER OVER MAIN.
 - ALL THREE NOZZLE CAPS SHALL BE PAINTED PRIOR TO DELIVERY WITH SIERRA BRAND REFLECTIVE PAINT CODE M0525 SIERRA SILVER. THE PAINT SHALL BE APPLIED PER MANUFACTURER'S SPECS.
 - HYDRANT INSTALLATION SHALL INCLUDE A WITNESS POST. THE TOP 12\"/>
 - ALL JOINTS SHALL BE RESTRAINED VIA MEGA-LUGS MECHANICAL JOINT RESTRAINT.
 - ALL HYDRANTS TO BE PLUMB TO VERTICAL AXIS, MAXIMUM ALLOWABLE DEVIATION TO BE 1/2\"/>

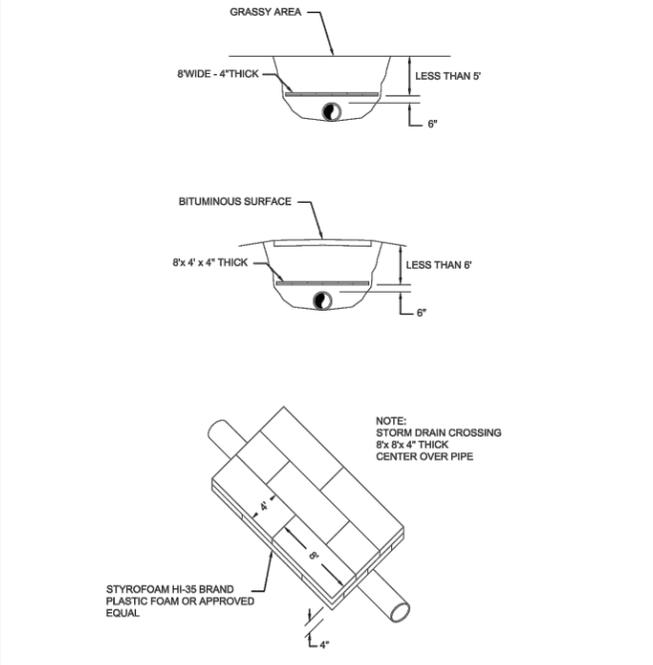
CITY OF SHOREWOOD	TYPICAL HYDRANT INSTALLATION	Special Details	
		Date: JAN. 2016	WAT-09
		Revised: JAN. 2017	

- NOTE: INSULATE AS PER INSULATION DETAIL (SEE STANDARD DETAIL WAT-11)

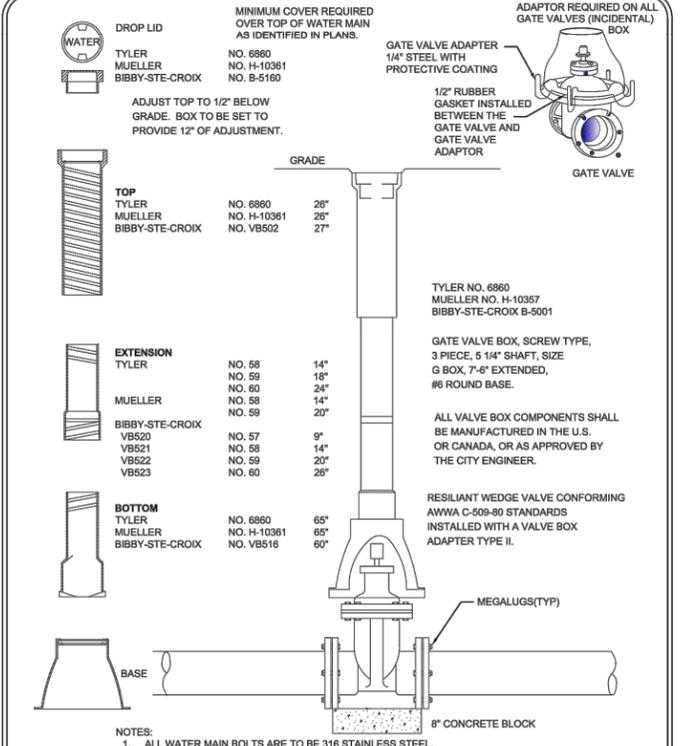


ALL WATERMAIN SHALL BE WRAPPED IN POLYETHYLENE

CITY OF SHOREWOOD	WATERMAIN INSULATION & LOWERING	Special Details	
		Date: JAN. 2016	WAT-10
		Revised: JAN. 2017	



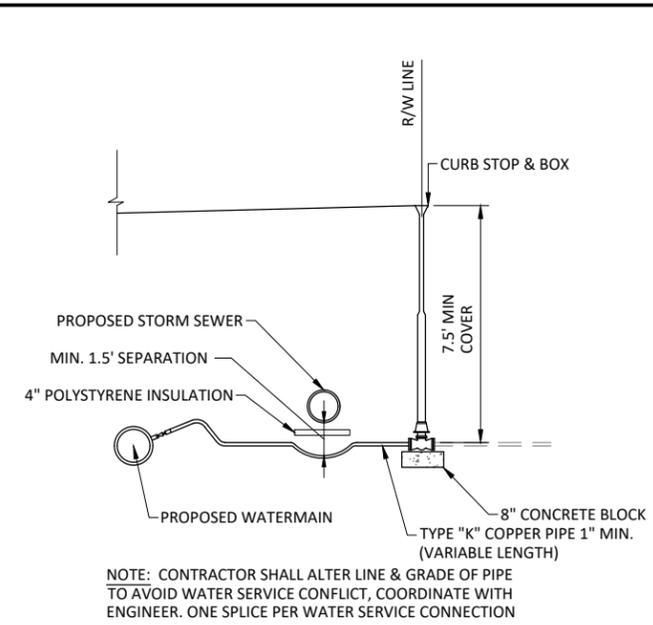
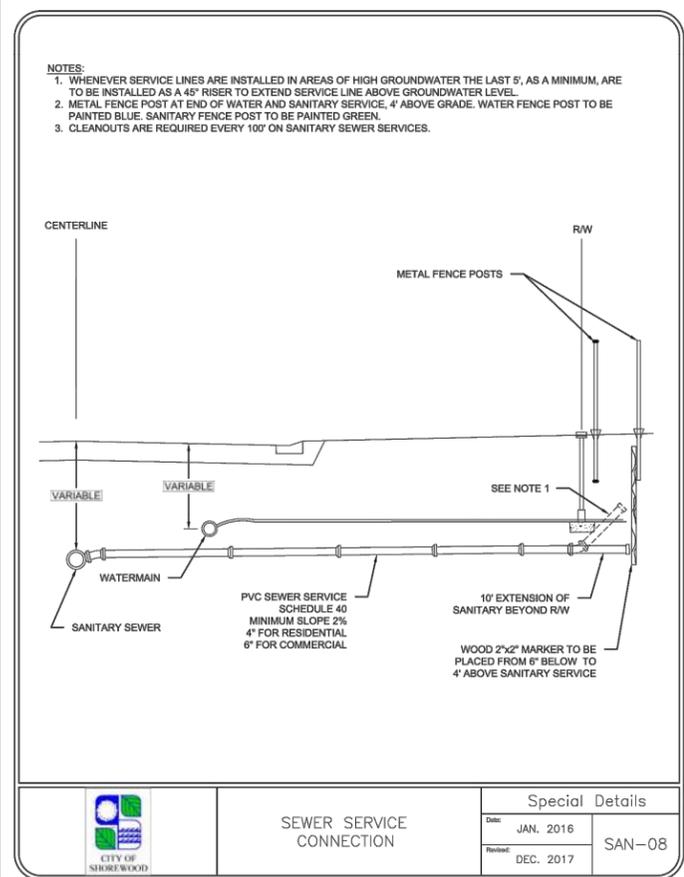
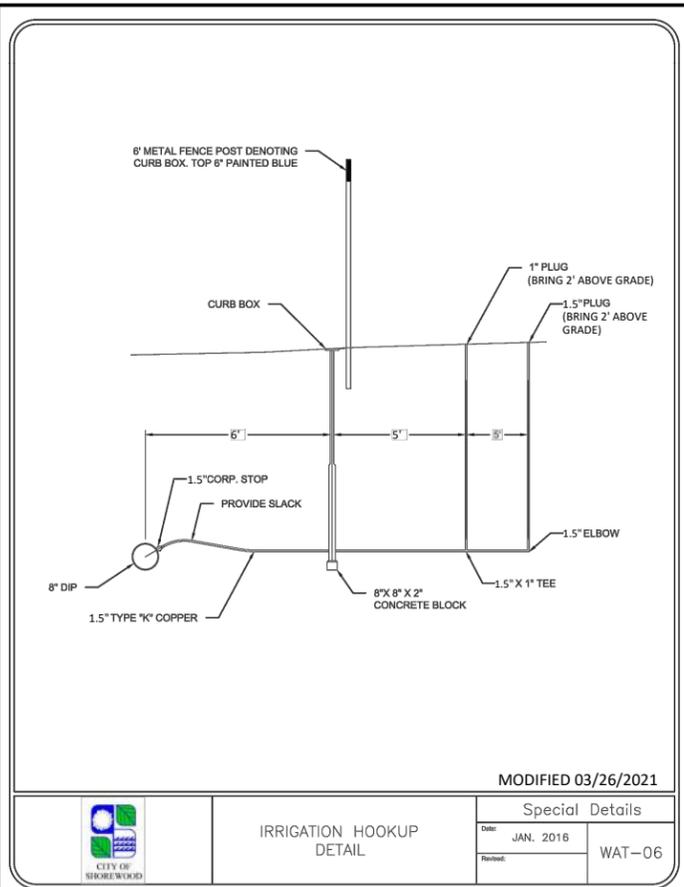
CITY OF SHOREWOOD	INSULATION DETAIL	Special Details	
		Date: JAN. 2016	WAT-11
		Revised:	



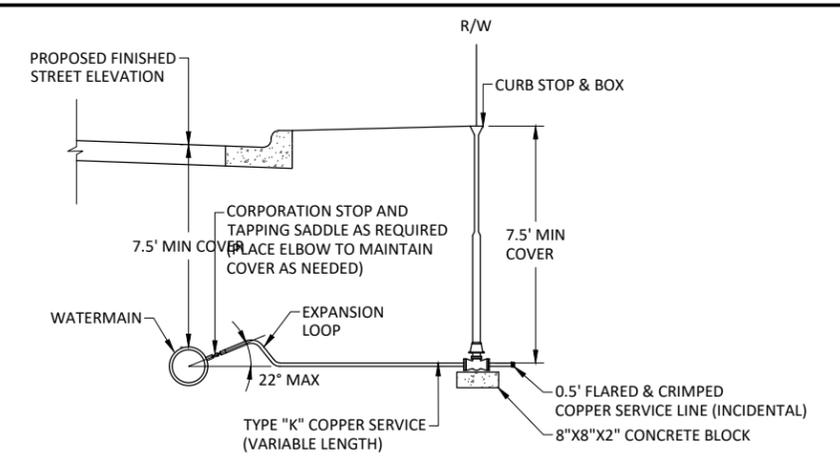
CITY OF SHOREWOOD	GATE VALVE AND BOX INSTALLATION	Special Details	
		Date: JAN. 2016	WAT-12
		Revised:	

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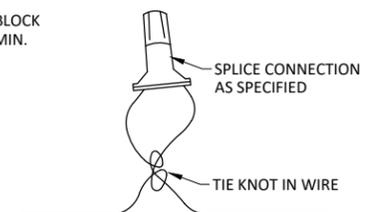
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CLIENT PROJ. NO.	C16.120450			



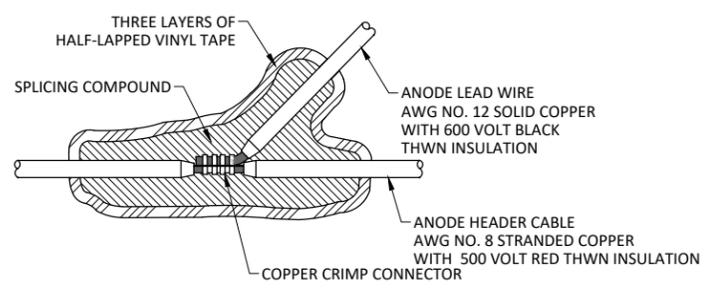
WATER SERVICE LINE CONFLICT
NOT TO SCALE



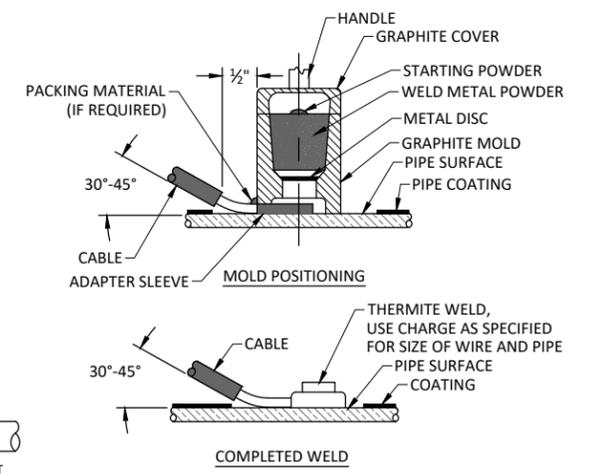
WATER SERVICE INSTALLATION
NOT TO SCALE



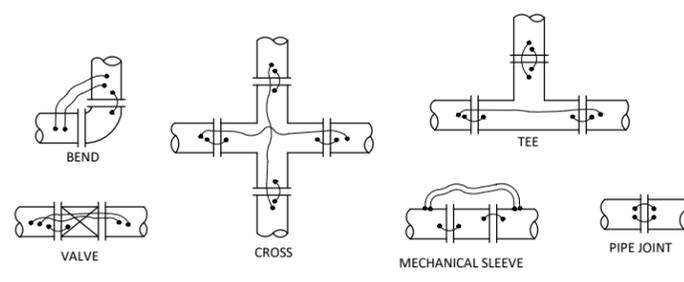
IN-LINE TRACER WIRE SPLICE
NOT TO SCALE



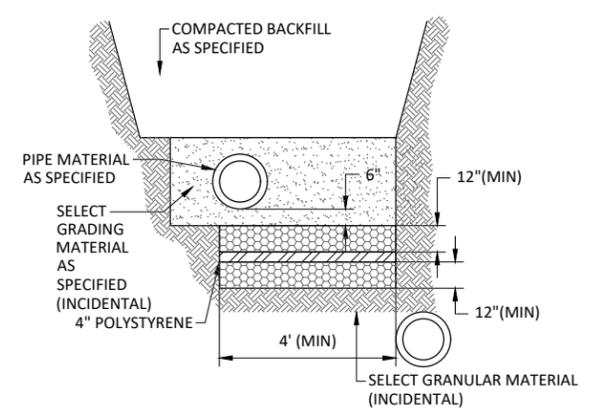
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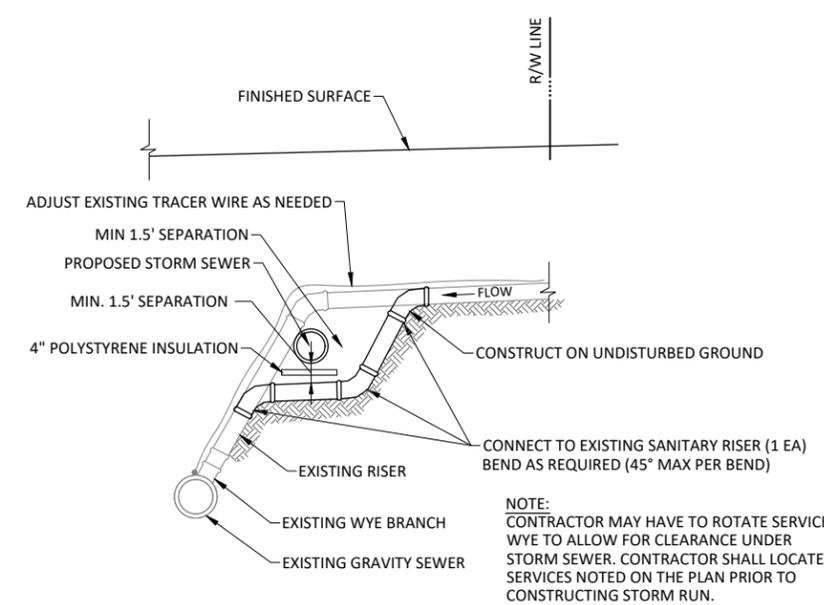
THERMITE WELDING DETAIL
NOT TO SCALE



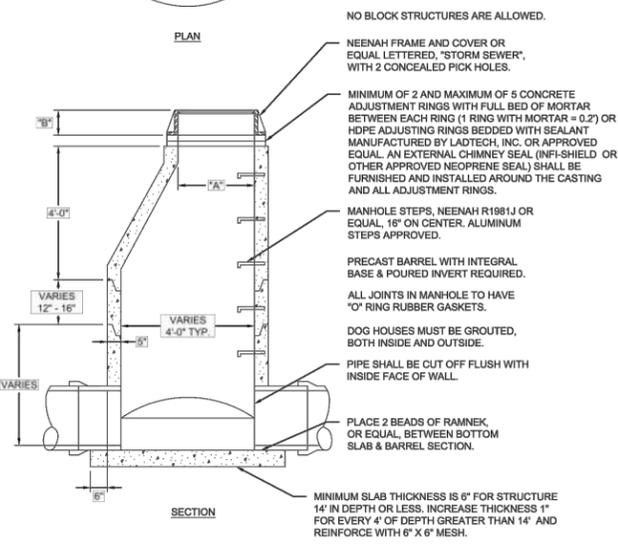
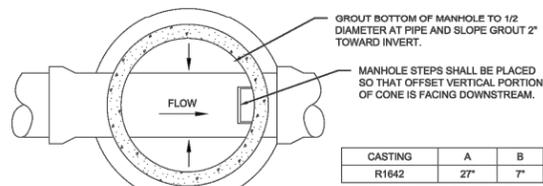
PIPE JOINT BONDING DETAIL
NOT TO SCALE



STORM SEWER INSULATION PARALLEL TO SANITARY SEWER
NOT TO SCALE



REMOVE & REPLACE SANITARY SEWER LINE
NOT TO SCALE



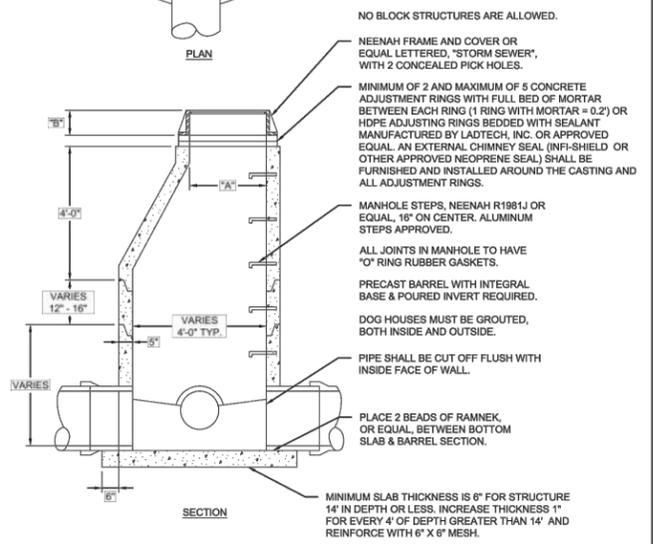
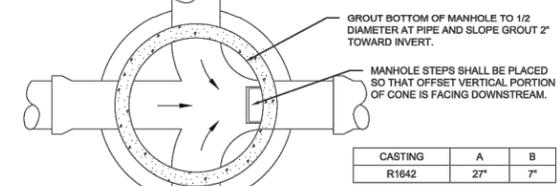
STORM SEWER MANHOLE

Special Details

Date: JAN. 2016

Revised: DEC. 2017

STO-01



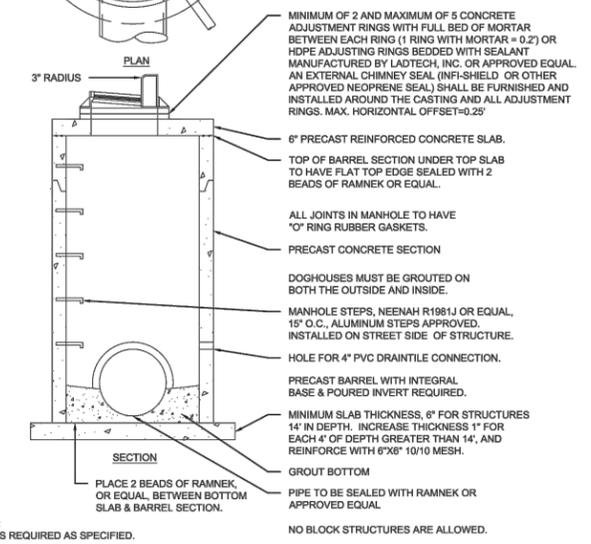
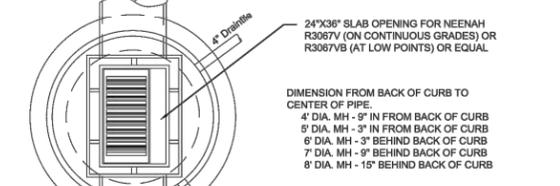
STORM SEWER JUNCTION MANHOLE

Special Details

Date: JAN. 2016

Revised: DEC. 2017

STO-02



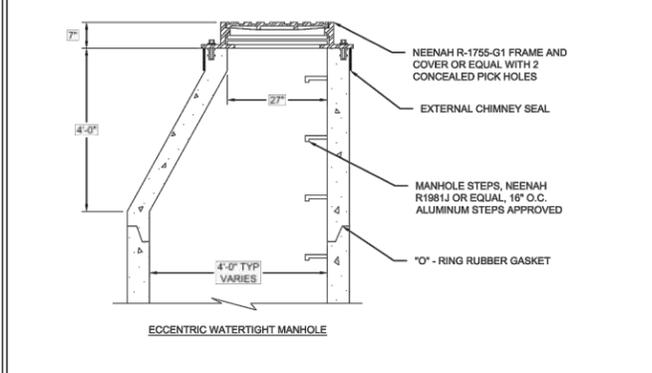
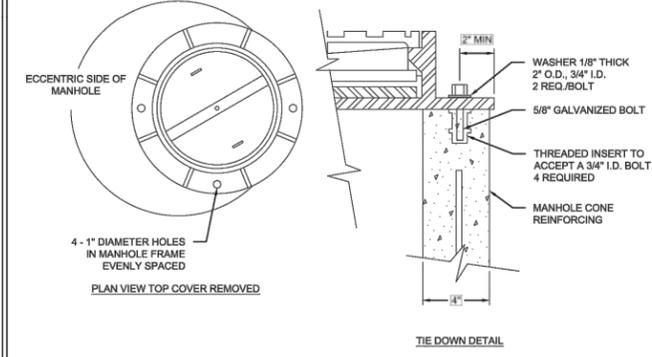
CATCH BASIN MANHOLE

Special Details

Date: JAN. 2016

Revised: JAN. 2017

STO-04



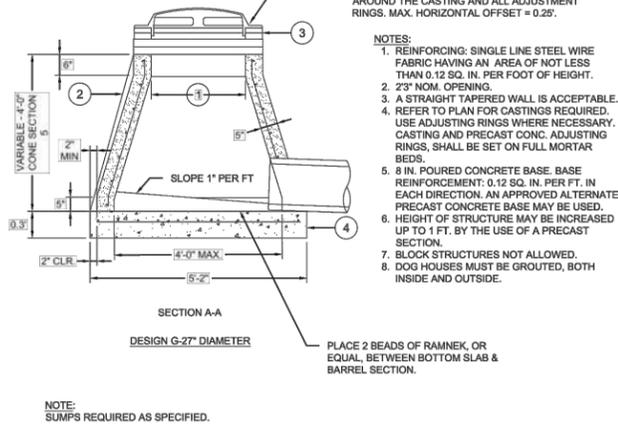
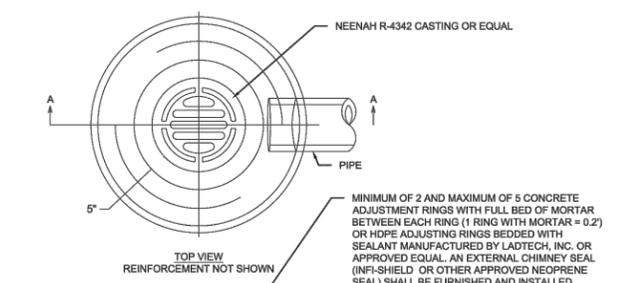
WATERTIGHT CASTING FOR SANITARY SEWER MANHOLE

Special Details

Date: JAN. 2016

Revised:

SAN-05



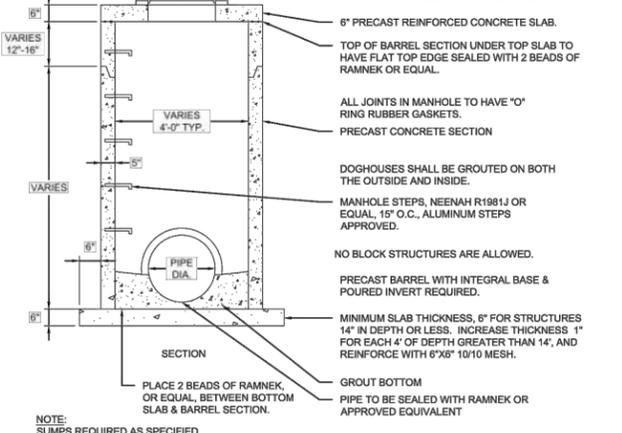
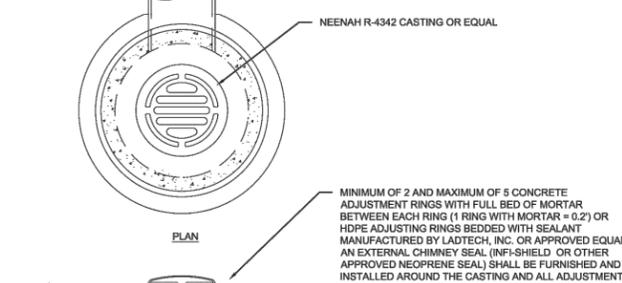
CATCH BASIN MANHOLE TYPE G

Special Details

Date: JAN. 2016

Revised: DEC. 2017

STO-06



CATCH BASIN MANHOLE TURF AREAS

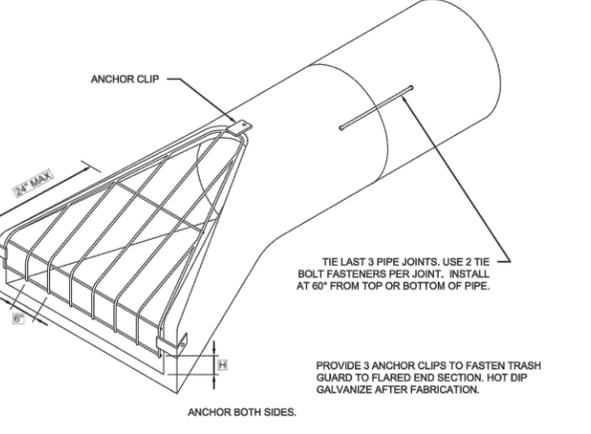
Special Details

Date: JAN. 2016

Revised: DEC. 2017

STO-07

SEE STANDARD PLATE NO. STO-12 FOR RIPRAP PLACEMENT.



TRASH GUARD SIZING

PIPE SIZE	BAR	#	BOLTS
12" - 18"	1"	6	3/4"
21" - 42"	1 1/2"	6	3/4"
48" - 72"	1-1/4" O.D.	12	1"

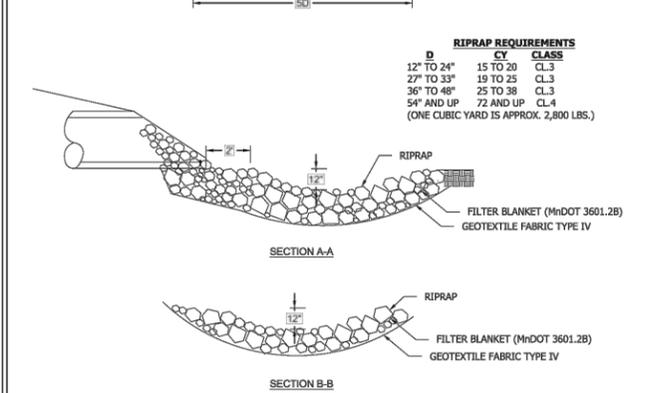
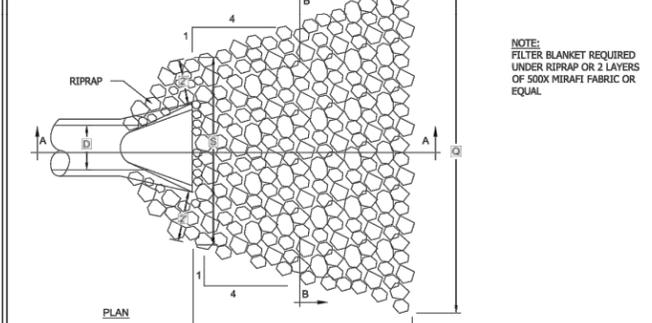
FLARED END SECTION AND TRASH GUARD

Special Details

Date: JAN. 2016

Revised:

STO-08



RIPRAP AT OUTLETS

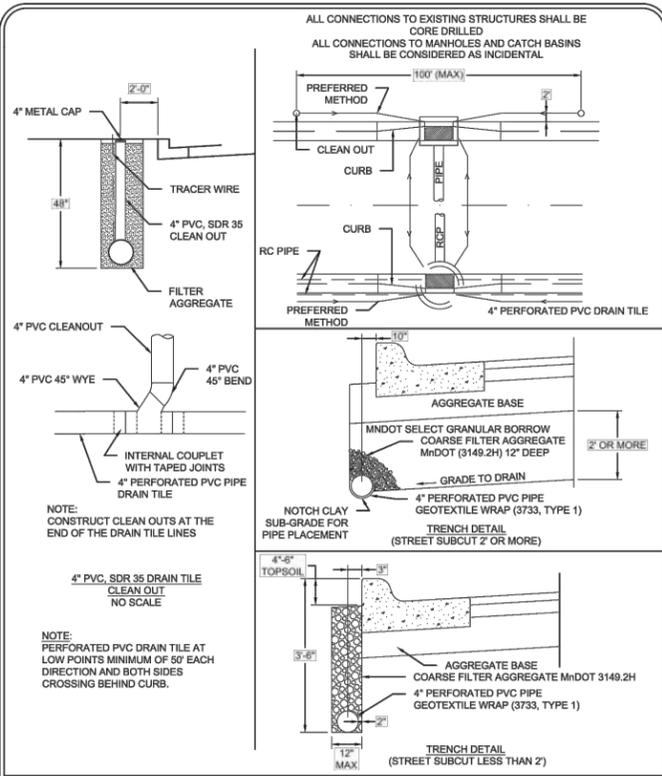
Special Details

Date: JAN. 2016

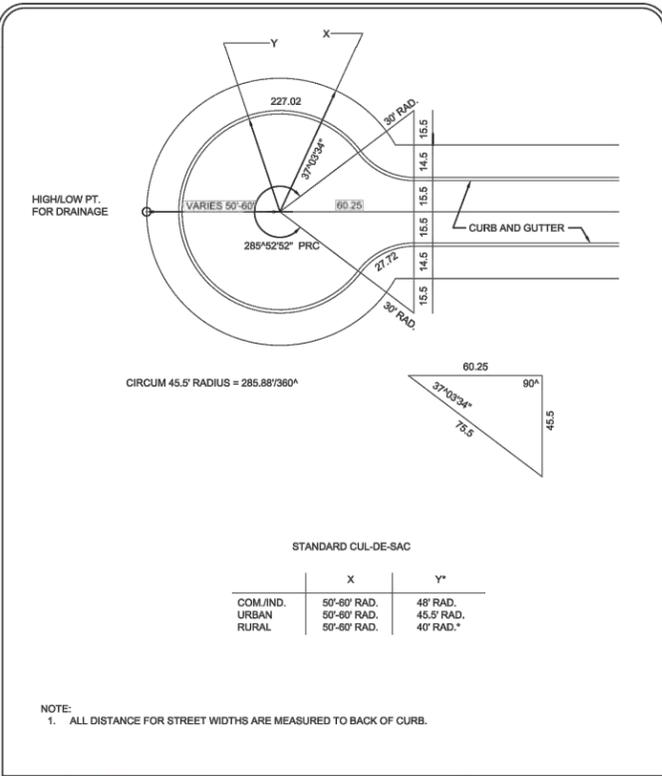
Revised:

STO-12

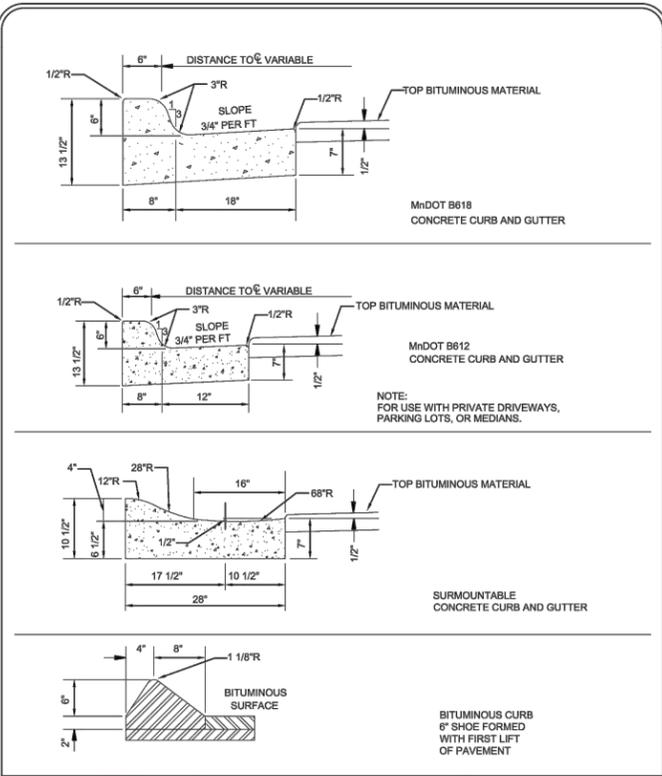
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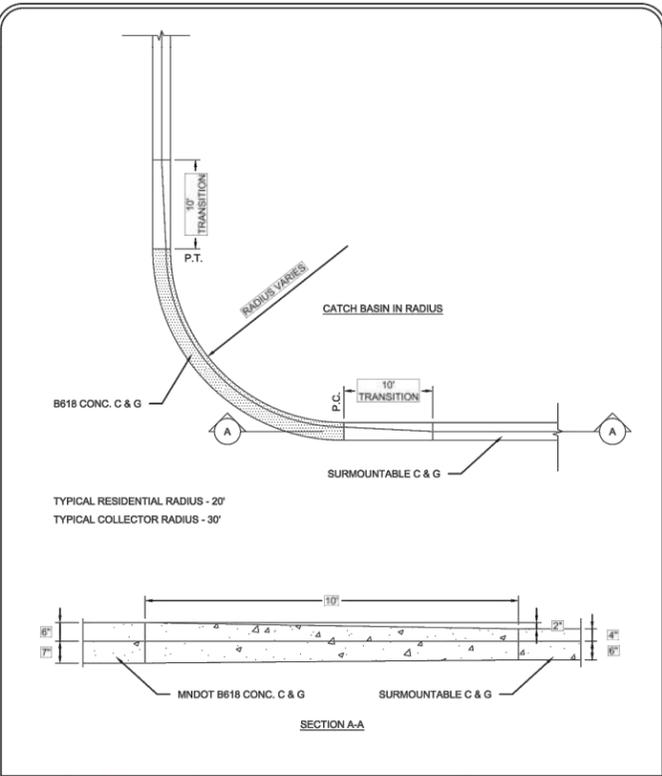
Special Details
PVC PERFORATED PIPE INSTALLATION
Date: JAN. 2016
Revised: JAN. 2017
STO-13



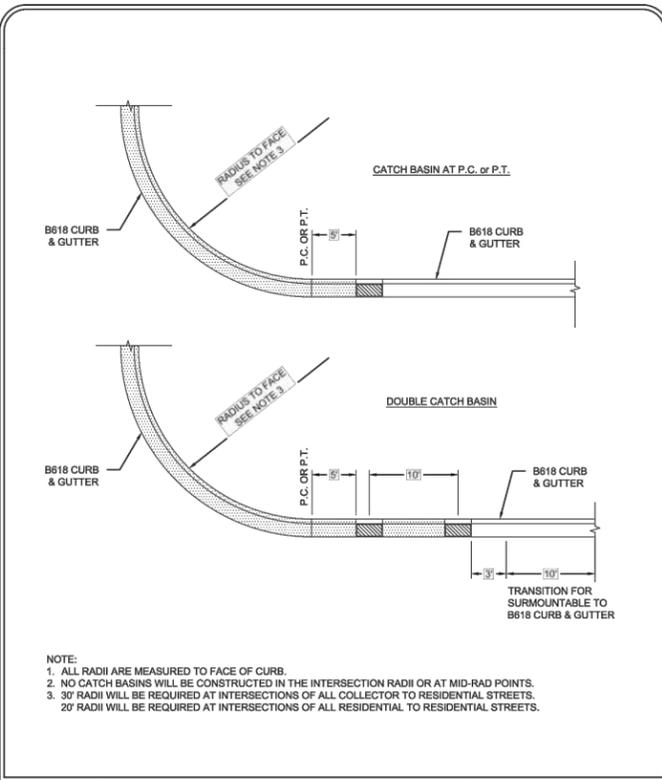
Special Details
TYPICAL CUL-DE-SAC LAYOUT
Date: JAN. 2016
Revised: RDW-03



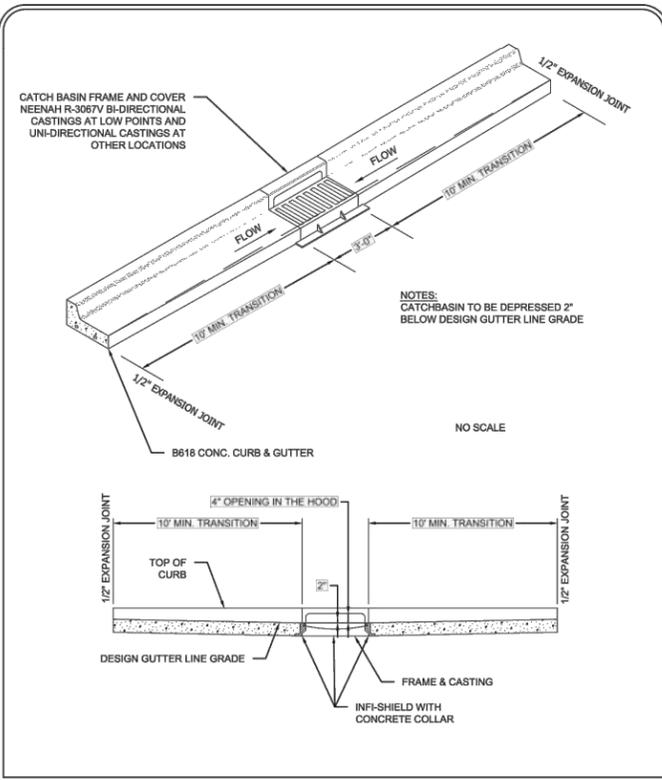
Special Details
TYPICAL CONCRETE CURB & GUTTER
Date: JAN. 2016
Revised: RDW-04



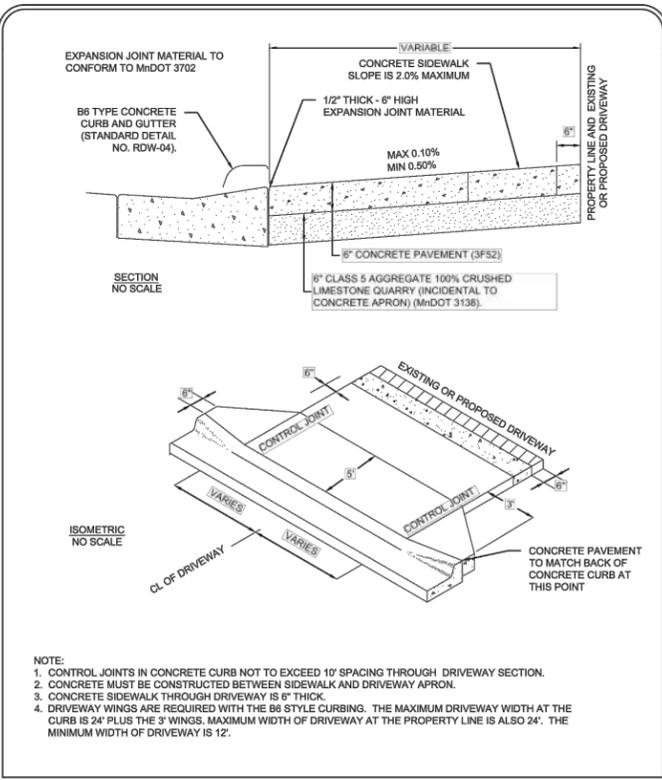
Special Details
CONCRETE CURB & GUTTER RADIUS
Date: JAN. 2016
Revised: RDW-05



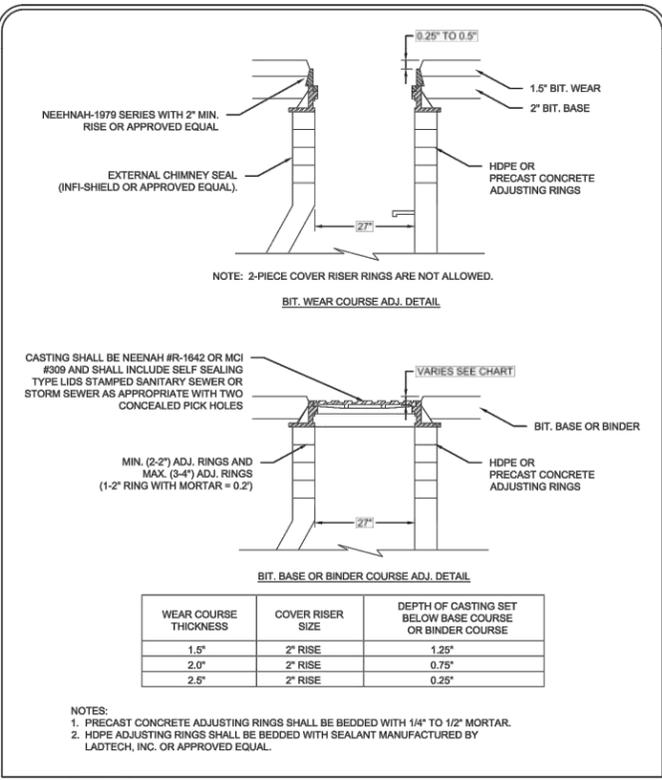
Special Details
CONCRETE CURB & GUTTER RADIUS WITH CATCH BASIN
Date: JAN. 2016
Revised: RDW-06



Special Details
B618 CURB & GUTTER CONSTRUCTION AT CATCH BASIN
Date: JAN. 2016
Revised: RDW-07



Special Details
RESIDENTIAL CONCRETE DRIVEWAY APRON WITH SIDEWALK (B6 TYPE CURB)
Date: JAN. 2016
Revised: DEC. 2017
RDW-11

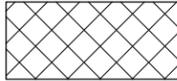
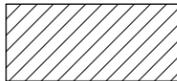


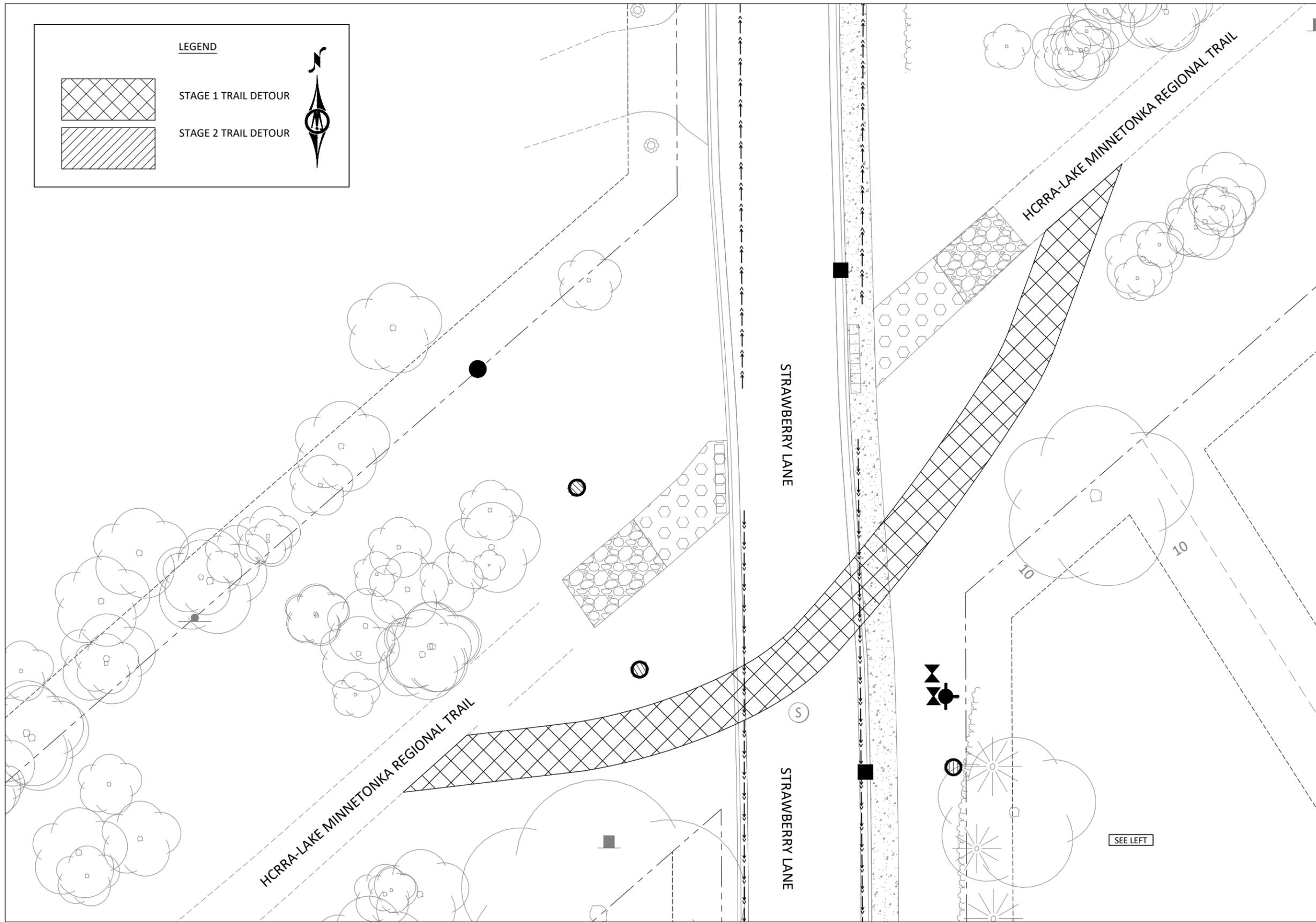
Special Details
TYPICAL MANHOLE CASTING ADJUSTMENT
Date: JAN. 2016
Revised: RDW-18

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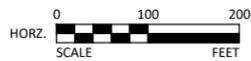
SEE RIGHT

LEGEND

 STAGE 1 TRAIL DETOUR
 STAGE 2 TRAIL DETOUR

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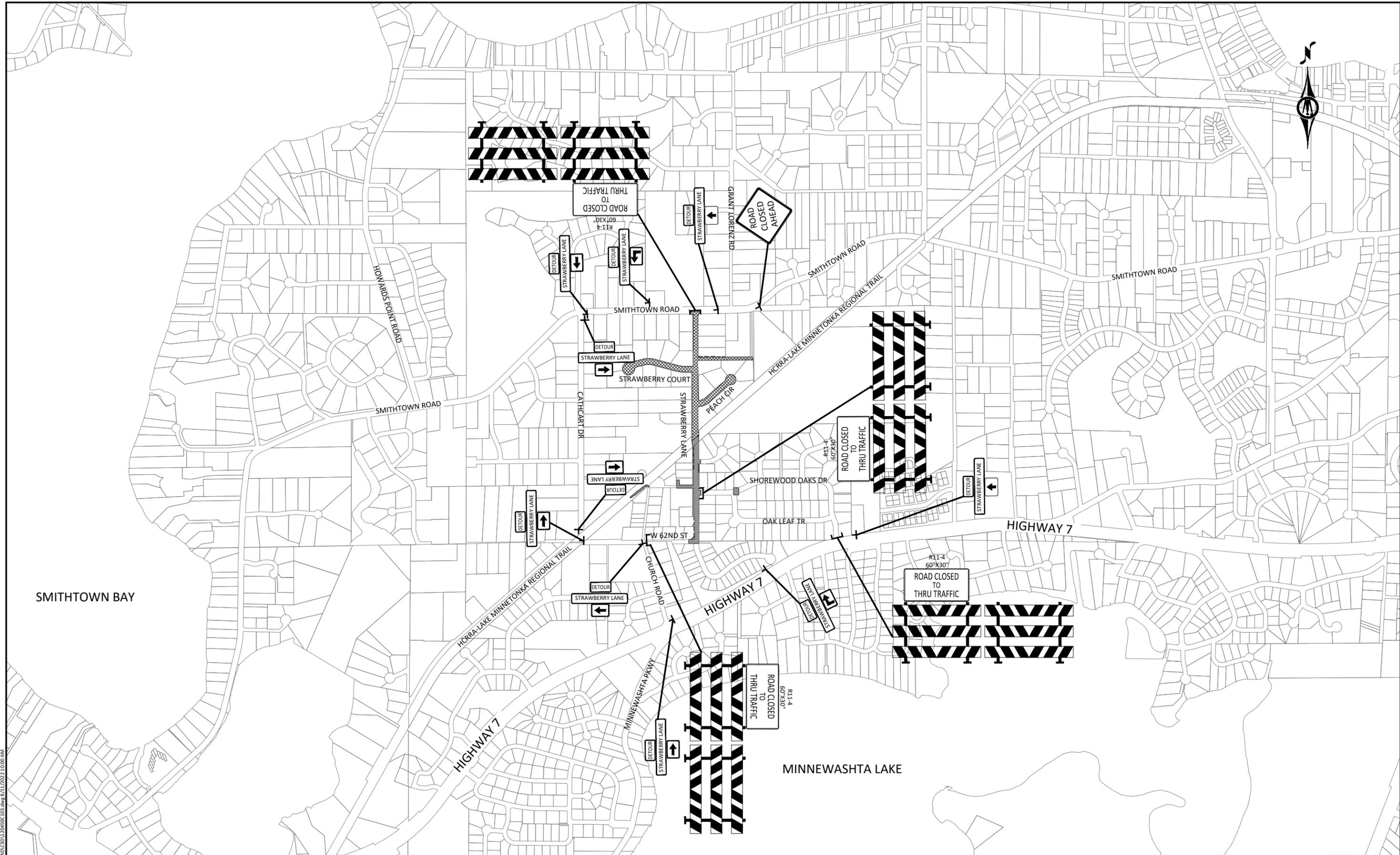


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CITY OF SHOREWOOD
 STRAWBERRY LANE RECONSTRUCTION
 TRAIL DETOUR

SHEET
C1.10



SMIHTOWN BAY

MINNEWASHTA LAKE



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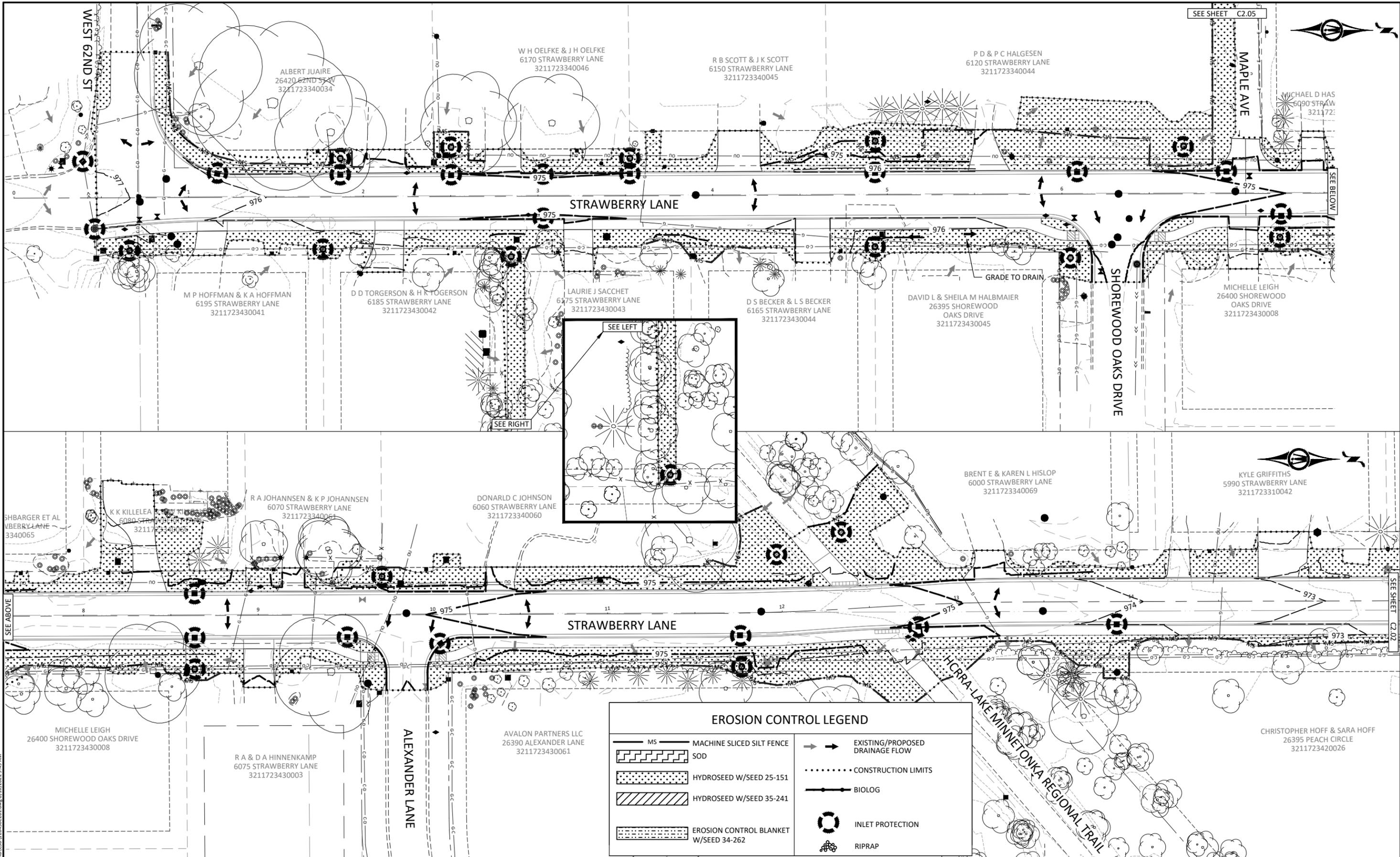
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CITY OF SHOREWOOD
STRAWBERRY LANE RECONSTRUCTION
TRAFFIC CONTROL

SHEET
C1.11

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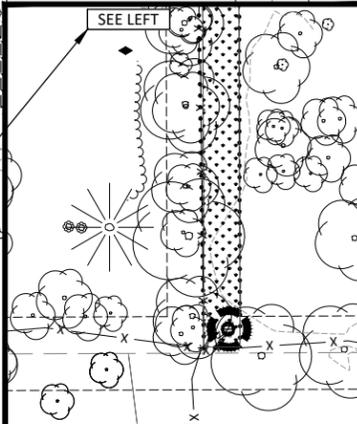


SEE SHEET C2.05



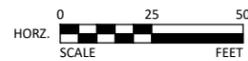
SEE ABOVE

SEE BELOW



SEE SHEET C2.02

EROSION CONTROL LEGEND			
	MS MACHINE SLICED SILT FENCE		EXISTING/PROPOSED DRAINAGE FLOW
	SOD		CONSTRUCTION LIMITS
	HYDROSEED W/SEED 25-151		BIOLOG
	HYDROSEED W/SEED 35-241		INLET PROTECTION
	EROSION CONTROL BLANKET W/SEED 34-262		RIPRAP



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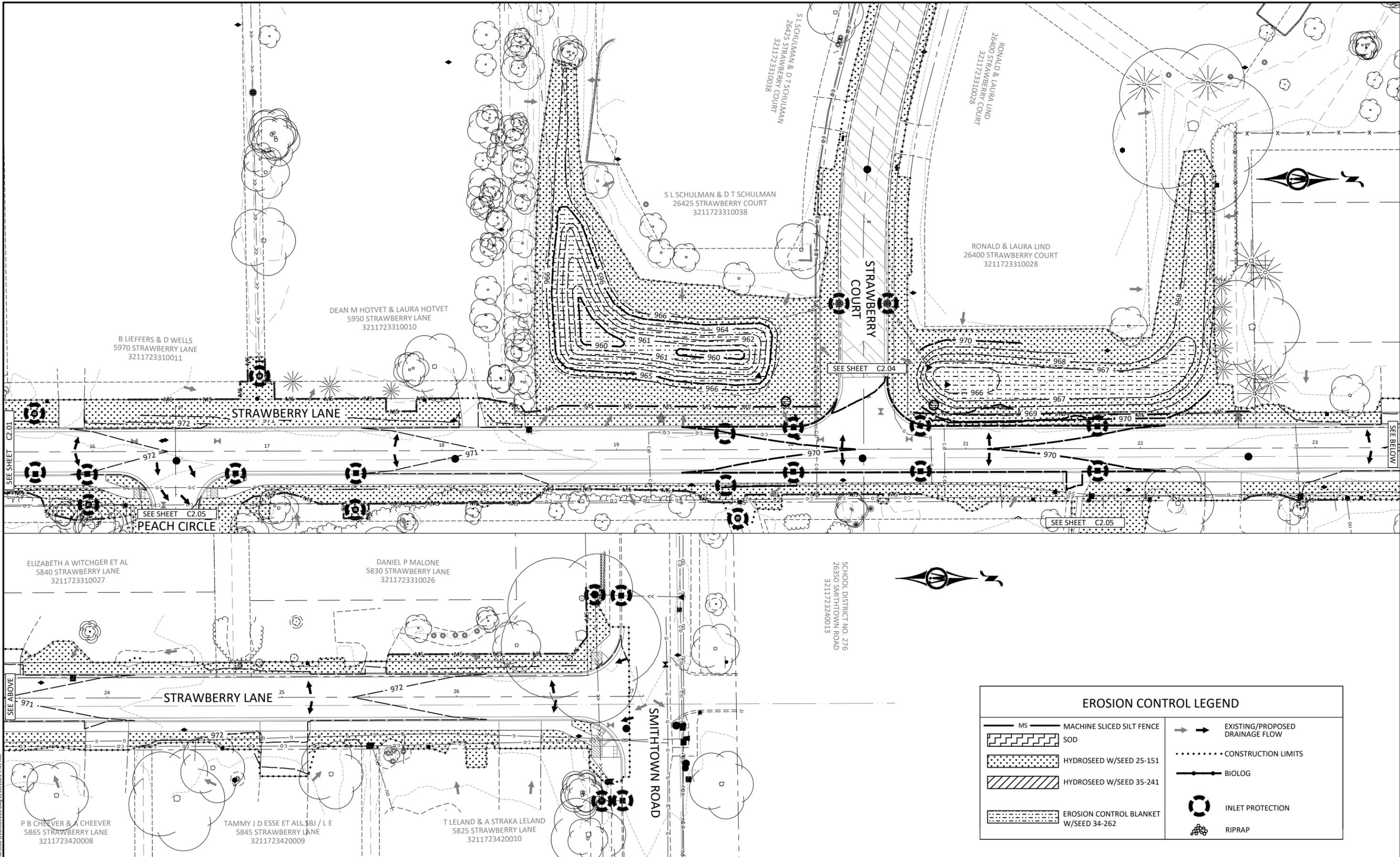
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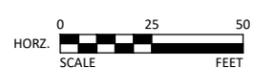
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STRAWBERRY LANE RECONSTRUCTION
EROSION CONTROL & TURF ESTABLISHMENT

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C2.01

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EROSION CONTROL LEGEND			
MS	MACHINE SLICED SILT FENCE	→ →	EXISTING/PROPOSED DRAINAGE FLOW
[Symbol]	SOD	CONSTRUCTION LIMITS
[Symbol]	HYDROSEED W/SEED 25-151	—●—	BIOLOG
[Symbol]	HYDROSEED W/SEED 35-241	⊙	INLET PROTECTION
[Symbol]	EROSION CONTROL BLANKET W/SEED 34-262	⊙	RIPRAP



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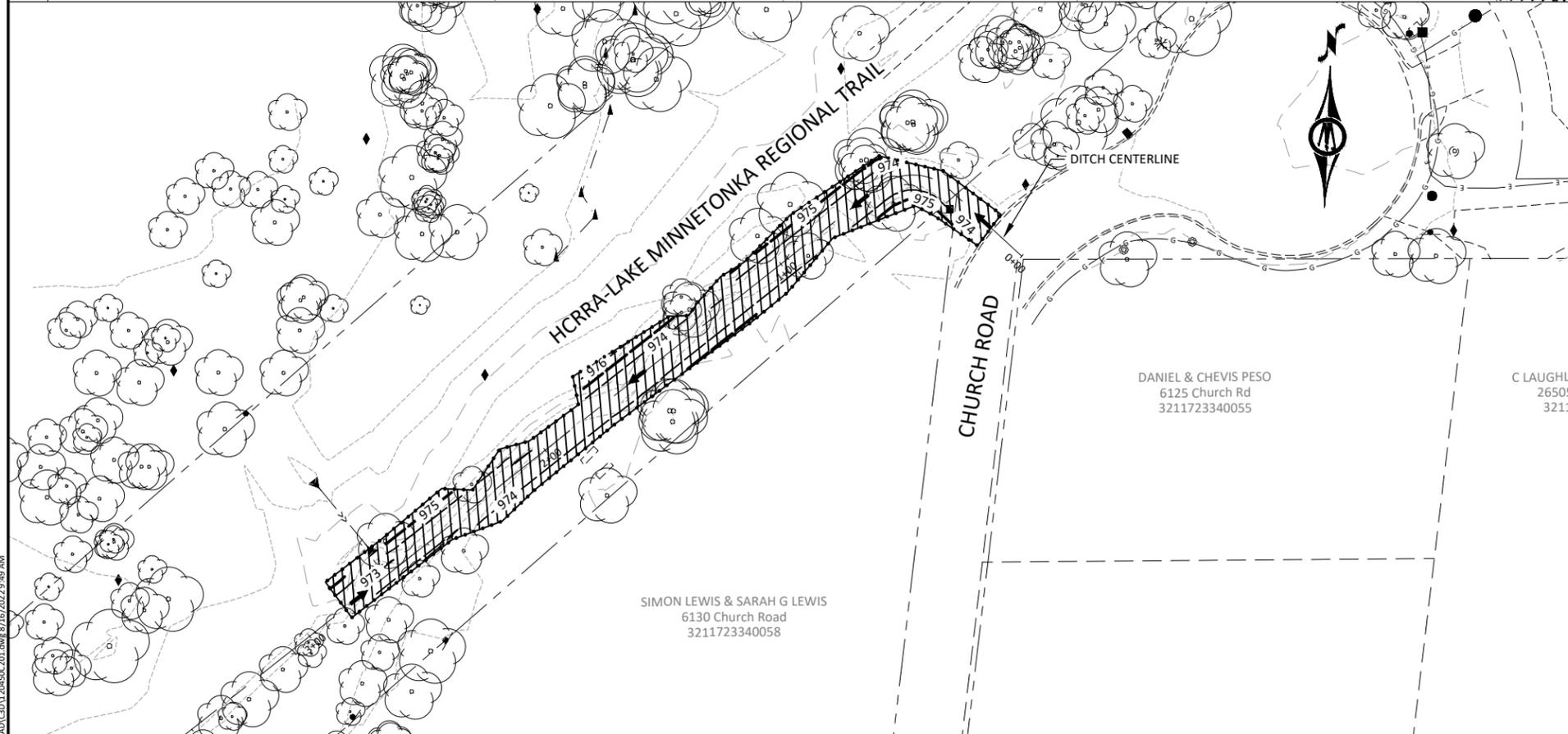
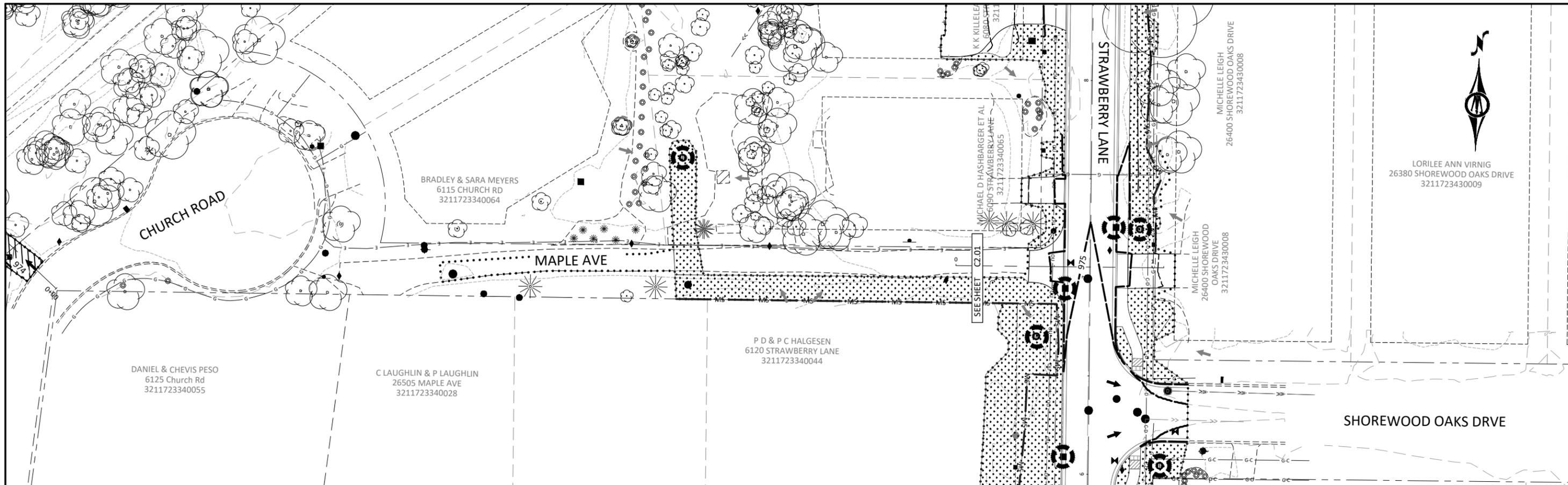
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EROSION CONTROL & TURF ESTABLISHMENT

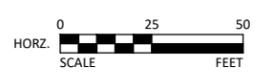
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SHOREWOOD OAKS DRIVE

EROSION CONTROL LEGEND	
	MACHINE SLICED SILT FENCE
	SOD
	HYDROSEED W/SEED 25-151
	HYDROSEED W/SEED 35-241
	EROSION CONTROL BLANKET W/SEED 34-262
	EXISTING/PROPOSED DRAINAGE FLOW
	CONSTRUCTION LIMITS
	BIOLOG
	INLET PROTECTION
	RIPRAP



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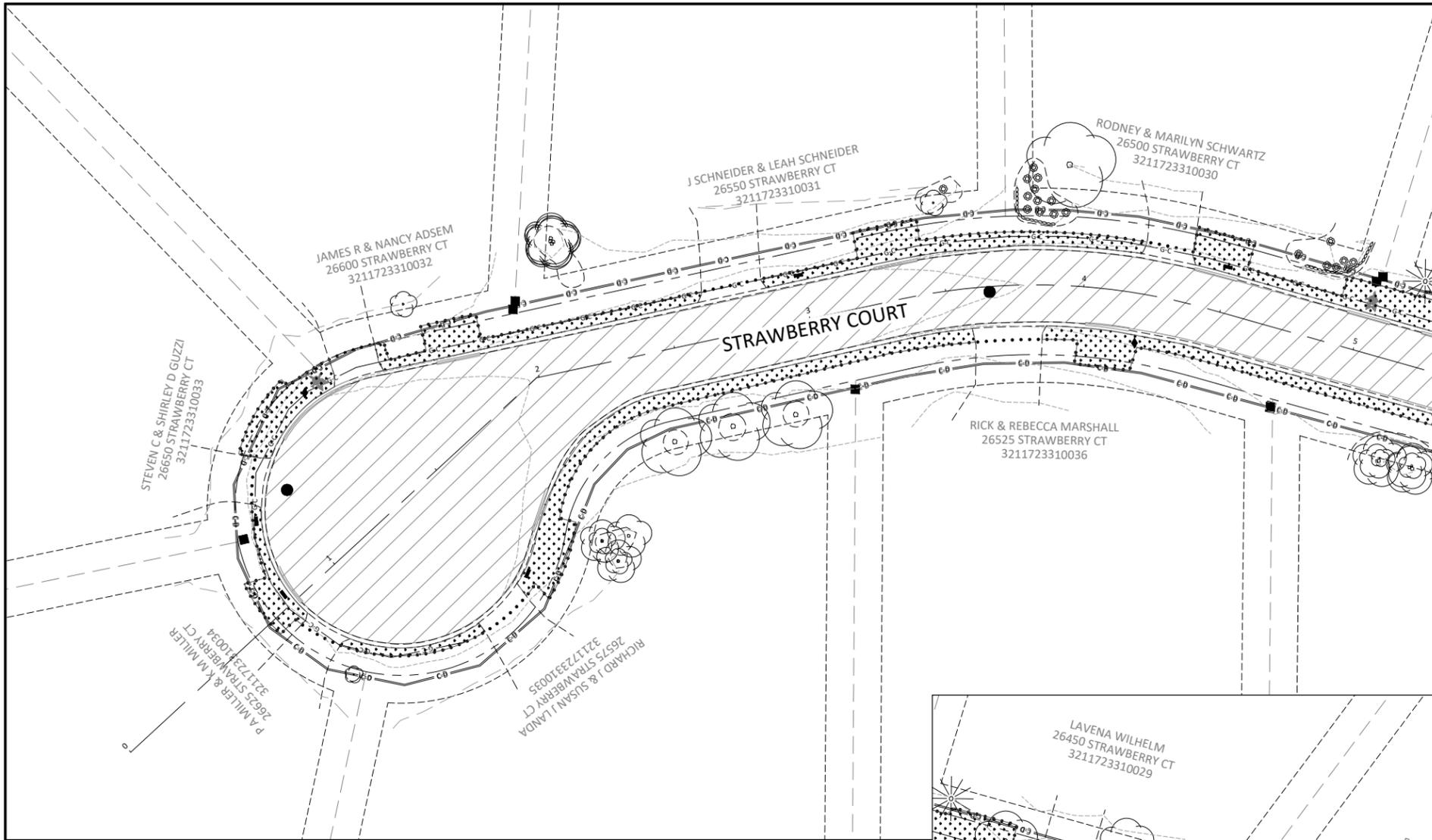
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CITY OF SHOREWOOD
STRAWBERRY LANE RECONSTRUCTION
EROSION CONTROL & TURF ESTABLISHMENT

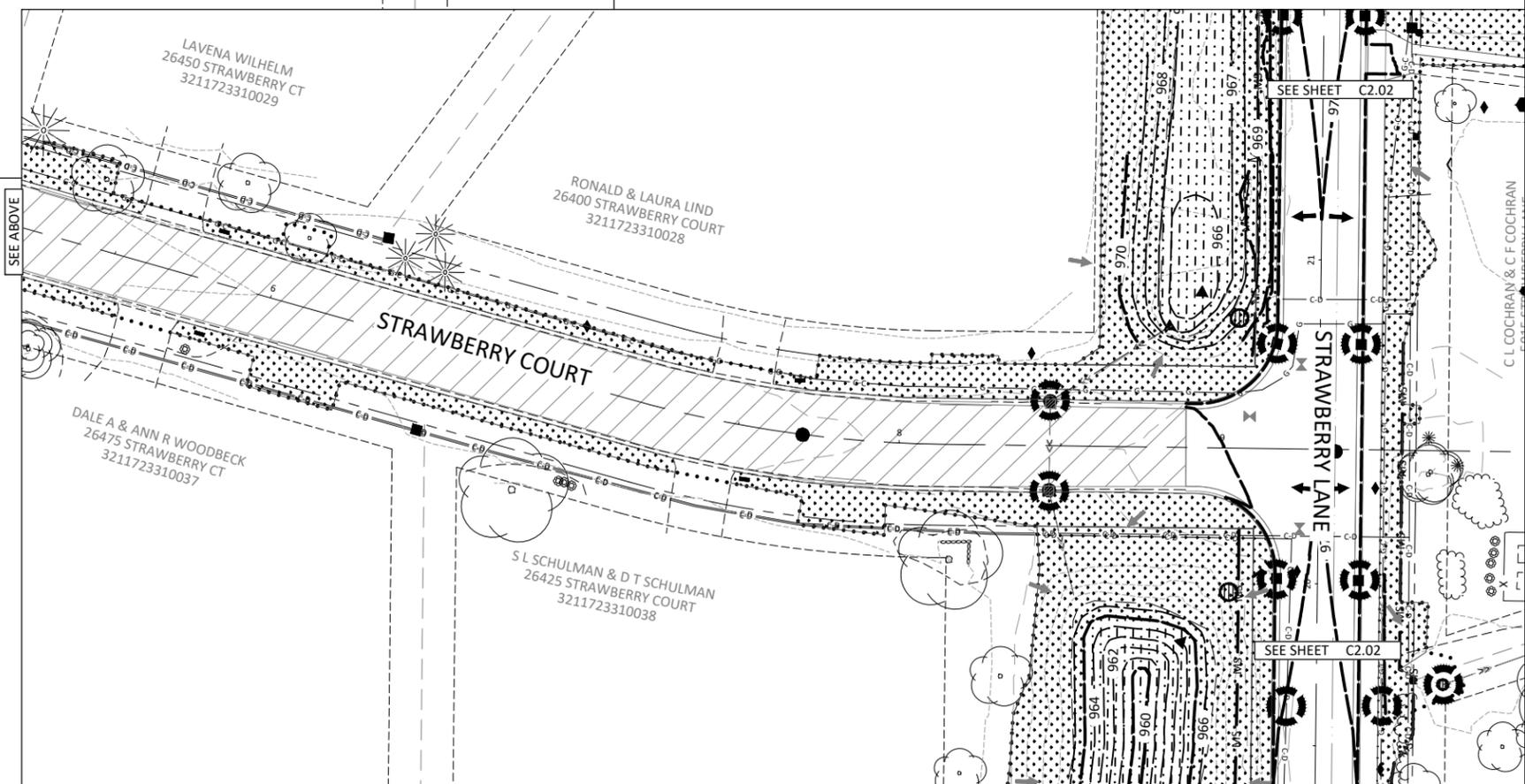
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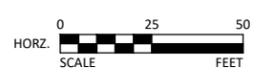


EROSION CONTROL LEGEND

	MACHINE SLICED SILT FENCE		EXISTING/PROPOSED DRAINAGE FLOW
	SOD		CONSTRUCTION LIMITS
	HYDROSEED W/SEED 25-151		BIOLOG
	HYDROSEED W/SEED 35-241		INLET PROTECTION
	EROSION CONTROL BLANKET W/SEED 34-262		RIPRAP



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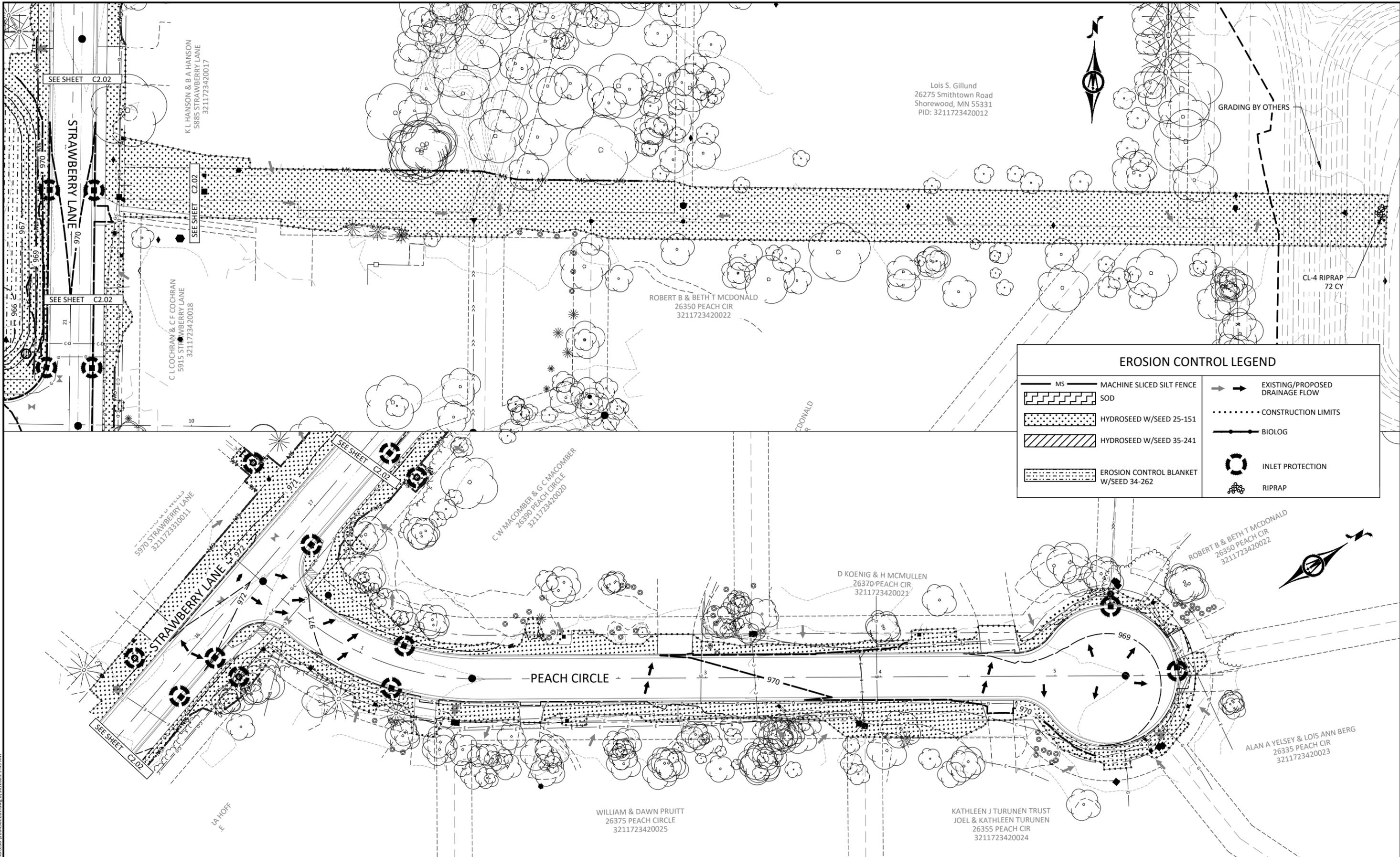


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CITY OF SHOREWOOD
STRAWBERRY LANE RECONSTRUCTION
EROSION CONTROL & TURF ESTABLISHMENT

SHEET
C2.04



Lois S. Gillund
26275 Smithtown Road
Shorewood, MN 55331
PID: 3211723420012

K L HANSON & B A HANSON
5885 STRAWBERRY LANE
3211723420017

C L COCHRAN & C F COCHRAN
5915 STRAWBERRY LANE
3211723420018

ROBERT B & BETH T MCDONALD
26350 PEACH CIR
3211723420022

C W MACOMBER & G C MACOMBER
26390 PEACH CIRCLE
3211723420020

D KOENIG & H MCMULLEN
26370 PEACH CIR
3211723420021

ROBERT B & BETH T MCDONALD
26350 PEACH CIR
3211723420022

ALAN A YELSEY & LOIS ANN BERG
26335 PEACH CIR
3211723420023

WILLIAM & DAWN PRUITT
26375 PEACH CIRCLE
3211723420025

KATHLEEN J TURUNEN TRUST
JOEL & KATHLEEN TURUNEN
26355 PEACH CIR
3211723420024

EROSION CONTROL LEGEND			
	MS MACHINE SLICED SILT FENCE		EXISTING/PROPOSED DRAINAGE FLOW
	SOD		CONSTRUCTION LIMITS
	HYDROSEED W/SEED 25-151		BIOLOG
	HYDROSEED W/SEED 35-241		INLET PROTECTION
	EROSION CONTROL BLANKET W/SEED 34-262		RIPRAP



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CLIENT PROJ. NO.	C16.120450		

CITY OF SHOREWOOD
STRAWBERRY LANE RECONSTRUCTION
EROSION CONTROL & TURF ESTABLISHMENT

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Information contained in this SWPPP narrative sheet summarizes requirements of the GENERAL PERMIT AUTHORIZATION TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM PROGRAM - Permit No: MN RI00001 (Permit) as they apply to this project. All provisions of the Permit including those not specifically cited herein shall apply to this project. The Contractor is responsible to be familiar with and comply with all conditions of the permit. The full text of the Permit is available at: <https://www.pca.state.mn.us/sites/default/files/wq-strm2-80a.pdf>

SWPPP AMENDMENTS AND SUBMITTALS

Contractor must prepare and submit to the Engineer a SWPPP amendment as necessary to include additional Best Management Practices (BMPs) to correct problems identified or address the following situations.

1. Contact information and training documentation for Construction SWPPP Manager and BMP Installer,
2. There is a change in construction method of phasing, operation, maintenance, weather or seasonal conditions not anticipated during the design of the SWPPP including but not limited to:
 - a. Types and/or Locations of BMPs
 - b. Material Storage and Spill Response
 - c. Fueling Plans
 - d. Locations for Stockpiles, Concrete Washout, and Sanitation Facilities and
 - e. Project Phasing
3. It is determined that the SWPPP is not achieving objectives of minimizing pollutants in stormwater discharges associated with construction activity, or
4. The SWPPP is not consistent with the terms and conditions of the permit.

The Contractor may implement SWPPP amendments immediately and is not required to wait for Engineer review of the submittal. The responsibility for completeness of SWPPP amendments and compliance with the Permit lies with the Contractor. Review, comment, or lack of comment by the Engineer on a SWPPP amendment shall not absolve the responsibilities of the Contractor in any way.

If a change order is issued for a design change the SWPPP amendment will be prepared by the Engineer and included in the change order.

In addition to SWPPP amendments, the Contractor shall submit to the Engineer Weekly Erosion and Sediment Control Schedule meeting the requirements of MnDOT 1717.

The Contractor shall keep copies of all SWPPP amendments, Weekly Erosion and Sediment Control Schedules, inspection logs, and maintenance logs with the field copy of the SWPPP. A PDF copy of these documents will be provided along with a copy of the final Field Copy of the SWPPP to the Engineer along with the signed Notice of Termination when final stabilization is complete.

EROSION PREVENTION PRACTICES

Stormwater conveyance channels shall be routed around unstabilized areas. Erosion controls and velocity dissipation devices shall be used at outlets within and along the length of any constructed conveyance channel.

The normal wetted perimeter of all ditches or swales, including storm water management pond slopes, that drain waters from the site must be stabilized within 200' of any property edge or discharge point, including storm sewer inlets, within 24 hours of connection.

Temporary or permanent ditches or swales used as sediment containment during construction do not need to be stabilized during temporary period of use and shall be stabilized within 24 hours after no longer used as sediment containment.

Mulch, hydromulch, tackifier, or similar practice shall not be used in any portion of the wetted perimeter of a temporary or permanent drainage ditch or swale section with a continuous slope of greater than 2 percent.

Energy dissipation shall be installed at all temporary or permanent pipe outlets within 24 hours of connection to a surface water or permanent stormwater treatment system.

The Contractor shall phase construction and use construction methods to the extent practical to minimize exposed soils. The project phasing shall be documented in the Weekly Erosion and Sediment Control Schedule.

SEDIMENT CONTROL PRACTICES

Down gradient BMPs including perimeter BMPs must be in place before up gradient land- disturbing activities begin and shall remain in place until final stabilization.

All BMPs that have been adjusted or removed to accommodate short-term activities shall be re-installed or replaced the earlier of the end of the work day or before the next precipitation event even if the activity is not complete.

Inlet BMPs may be removed for specific safety concerns. The BMPs shall be replaced as soon as the safety concern is resolved. The removal shall be documented in the SWPPP as a SWPPP amendment.

Temporary stockpiles must have sediment control BMPs. The Contractor shall prepare and submit to the Engineer a SWPPP amendment showing the location of temporary stockpiles and the BMPs for each stockpile. The SWPPP amendment must meet the minimum requirements of Section 9 of the Permit.

Soil compaction shall be minimized and topsoil shall be preserved, unless infeasible or if construction activities dictate soil compaction or topsoil stripping.

The use of polymers, flocculants, or other sedimentation treatment chemicals are not proposed as part of this SWPPP as designed by the Engineer. If methods or phasing of construction require the use of any of these chemicals, the Contractor shall prepare and submit to the Engineer a SWPPP amendment that meets the minimum requirements of Section 9 of the Permit.

TEMPORARY SEDIMENTATION BASINS

A temporary sedimentation basin has not been included in this SWPPP as designed by the Engineer. If a basin is later determined to be desirable or necessary the Contractor shall prepare and submit to the Engineer a SWPPP amendment. Temporary sedimentation basins shall meet or exceed the minimum requirements of Section 14 of the Permit and shall include a basin draining plan meeting or exceeding the minimum requirements of Section 10 of the Permit. Where the site discharges to Special and/or Impaired Waters the SWPPP amendment shall also meet or exceed the minimum requirements of Section 23 of the permit.

DEWATERING

A dewatering plan has not been included in this SWPPP as designed by the Engineer. If dewatering is required for this project, the Contractor shall prepare and submit to the Engineer a SWPPP amendment. All dewatering shall meet or exceed the minimum requirements of Section 10 of the Permit.

POLLUTION PREVENTION

Products and materials that have the potential to leach pollutants that are stored on the site must be stored in a manner designed to minimize contact with stormwater. Materials that are not a source of potential contamination to stormwater or that are designed for exposure to stormwater are not required to be covered.

Hazardous materials including but not limited to pesticides, fertilizer, petroleum products, curing compounds and toxic waste must be properly stored and protected from stormwater exposure as recommended by the manufacturer in an access restricted area.

Solid waste must be stored, collected and disposed of in compliance with Minnesota Administrative Rules Chapter 7035.

Portable toilets must be positioned so that they are secure and will not be tipped or knocked over. Sanitary waste must be disposed of properly in accordance with Minn. R. CH 7041.

Exterior vehicle or equipment washing on the project site shall be limited to a defined area of the site. No engine degreasing is allowed on site. A sign must be installed adjacent to each washout facility that requires site personnel to utilize the proper facilities for disposal of concrete and other washout wastes.

The Contractor shall prepare and submit a SWPPP amendment detailing the location and BMPs proposed for storage of materials, solid waste, portable toilets, and exterior vehicle or equipment washing on the site. The SWPPP amendment shall include a spill prevention and response plan that is appropriate for the materials proposed to be on the site. The SWPPP amendment shall meet or exceed the minimum requirements of Section 12 of the Permit.

INSPECTION & MAINTENANCE

A trained person shall routinely inspect the entire construction site at the time interval indicated on this sheet of the SWPPP during active construction and within 24-hours after a rainfall event greater than 0.5 inches in 24 hours. Following an inspection that occurs within 24-hours after a rainfall event, the next inspection must be conducted at the time interval indicated in the Receiving Waters Table found on the SITE PLAN AND INFORMATION SHEET of the SWPPP.

All inspections and maintenance conducted during construction must be recorded on the day it is completed and must be retained with the SWPPP. Inspection report forms are available in the Project Specifications. Inspection report forms other than those provided shall be approved by the engineer.

The Contractor may request a change in inspection schedule for the following conditions:

- a. Inspections of areas with permanent cover to be reduced to once per month,
- b. Inspections of areas that have permanent cover and have had no construction activity for 12 months to be suspended until construction resumes,
- c. Inspections of areas where construction is suspended due to frozen ground conditions, inspections to be suspended until the earlier of within 24 hours of runoff occurring, or upon resuming construction.

No change in inspection schedule shall occur until authorized by the Engineer.

Inspections must include:

1. All erosion prevention and sediment control BMPs and Pollution Prevention Management Measures to ensure integrity and effectiveness.
2. Surface waters, including drainage ditches and conveyance systems for evidence of erosion and sediment deposition.
3. Construction site vehicle exit locations, streets and curb and gutter systems within and adjacent to the project for sedimentation from erosion or tracked sediment from vehicles.
4. Infiltration areas to ensure that no sediment from ongoing construction activity is reaching the infiltration area and that equipment is not being driven across the infiltration area.

All non-functioning BMPs and those BMPs where sediment reaches one-half (1/2) of the depth of the BMP, or in the case of sediment basins one-half (1/2) of the storage volume, must be repaired, replaced, or supplemented by the end of the next business day after discovery, or as soon as field conditions allow.

Permittees must repair, replace or supplement all nonfunctional BMPs with functional BMPs by the end of the next business day after discovery, or as soon as field conditions allow.

Any sediment that escapes the site must be removed and the area stabilized within 7 calendar days of discovery unless precluded by legal, regulatory, or physical access in which case the work shall be completed within 7 calendar days of authorization. Paved surfaces such as streets shall have any escaped or tracked sediment removed by the end of the day that it is discovered. Sediment release, other than paved surfaces that can be cleaned up with street sweeping shall be reported immediately upon discovery to the Engineer.

PUBLIC WATER RESTRICTIONS:

For public waters that have been promulgated "work in water restrictions" during fish spawning time frames, all exposed soil areas that are within 200 feet of the water's edge, and drain to these waters must complete stabilization within 24-hours during the time period. MN DNR permits are not valid for work in waters that are designated as infested waters unless accompanied by an Infested Waters Permit or written notification has been obtained from MN DNR stating that such permit is not required. There is no exception for pre-existing permits. If a MN DNR Permit has been issued for the project and the water is later designated as infested, the Contractor shall halt all work covered by the MN DNR Permit until an Infested Waters Permit is obtained or that written notification is obtained stating that such permit is not required.

FINAL STABILIZATION

Final Stabilization is not complete until all the following requirements have been met:

1. Substantial Completion has been reached and no ground disturbing activities are anticipated.
2. Permanent cover has been installed with an established minimum uniform perennial vegetation density of 70 percent of its expected final growth. Vegetation is not required in areas where no vegetation is proposed by this project such as impervious surfaces or the base of a sand filter.

3. Accumulated sediment has been removed from all permanent stormwater treatment systems as necessary to ensure the system is operating as designed.
4. All sediment has been removed from conveyance systems
5. All temporary synthetic erosion prevention and sediment control BMPs have been removed. BMPs designated on the SWPPP to remain to decompose on-site may remain.
6. For residential construction only, permit coverage terminates on individual lots if the structures are finished and temporary erosion prevention and downgradient perimeter control is complete, the residence sells to the homeowner, and the permittee distributes the MPCA's "Homeowner Fact Sheet" to the homeowner.
7. For agricultural land only (e.g., pipelines across cropland), the disturbed land must be returned to its preconstruction agricultural use prior to submitting the NOT.

SITE STABILIZATION COMPLETION:

Stabilization of exposed soils shall begin immediately and shall be completed after the construction activity has temporarily or permanently ceased no later than:	14 calendar days
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SITE INSPECTION INTERVAL:

A trained person shall routinely inspect the entire construction site during active construction at an interval of no less than:	7 calendar days
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SPECIAL ENVIRONMENTAL CONSIDERATIONS AND PERMITS:

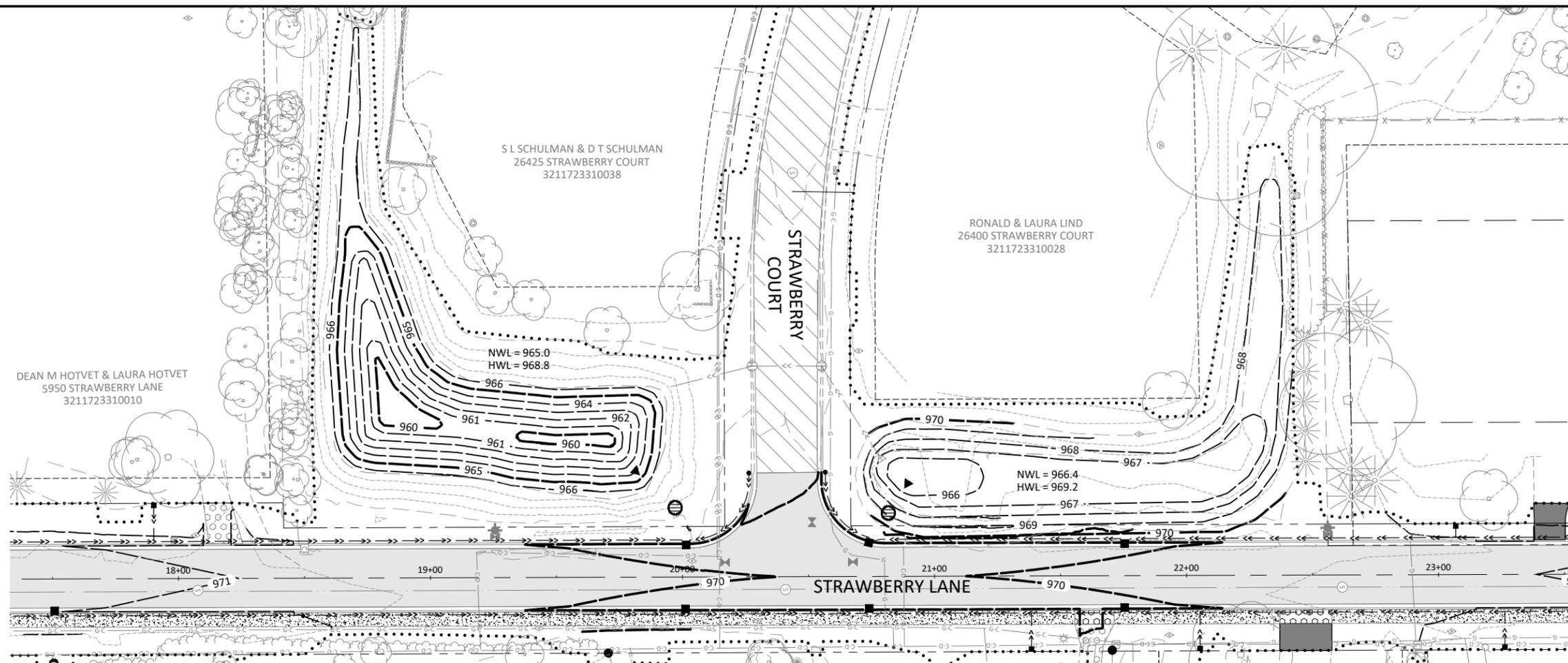
1)	Was an environmental review required for this project or any part of a common plan of development or sale that includes all or any portion of this project?	NO
2)	Does any portion of the site have the potential to affect threatened or endangered species or their critical habitat?	NO
3)	Does any portion of this site discharge to a Calcareous fen.	NO
4)	Will any portion of the site potentially affect properties listed on the National Register of Historic Places or a known or discovered archeological site?	NO
5)	Have any Karst features have been identified in the project vicinity?	NO
6)	Is compliance with temporary or permanent stormwater management design requirements infeasible for this project?	NO
7)	Has the MN DNR promulgated "work in water restrictions" for any Public Water this site discharges to during fish spawning?	NO

TYPE OF PERMIT	PERMITTING AGENCY	PERMIT STATUS AND CONDITIONS
Construction Stormwater NPDES	MPCA	

SWPPP DESIGNER TRAINING DOCUMENTATION:

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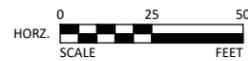
<h1 style="margin: 0;">DRAFT</h1>		2638 SHADOW LANE, SUITE 200 CHASKA, MINNESOTA 55318 Phone: (952) 448-8838 Email: Chaska@bolton-menk.com www.bolton-menk.com	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>DESIGNED</th> <th>NO.</th> <th>ISSUED FOR</th> <th>DATE</th> </tr> <tr> <td>RRJ</td> <td></td> <td></td> <td></td> </tr> <tr> <th>DRAWN</th> <th>NO.</th> <th>ISSUED FOR</th> <th>DATE</th> </tr> <tr> <td>SCD/CAL</td> <td></td> <td></td> <td></td> </tr> <tr> <th>CHECKED</th> <th>NO.</th> <th>ISSUED FOR</th> <th>DATE</th> </tr> <tr> <td>ALB</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CLIENT PROJ. NO.</td> <td colspan="3">C16.120450</td> </tr> </table>	DESIGNED	NO.	ISSUED FOR	DATE	RRJ				DRAWN	NO.	ISSUED FOR	DATE	SCD/CAL				CHECKED	NO.	ISSUED FOR	DATE	ALB				CLIENT PROJ. NO.	C16.120450			CITY OF SHOREWOOD STRAWBERRY LANE RECONSTRUCTION SWPPP NARRATIVE	SHEET <h2 style="margin: 0;">C2.06</h2>
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POND GRADING:

1. DEWATERING WILL BE REQUIRED TO ACCESS THE POND BOTTOM. DEWATERING SHALL BE PERFORMED IN ACCORDANCE WITH NPDES AND MINNEHAHA CREEK WATERSHED DISTRICT (MCWD) REQUIREMENTS. CONTRACTOR SHALL NOTIFY MCWD IN WRITING PRIOR TO ANY DEWATERING ACTIVITIES. ANY NECESSARY REMOVAL OF ICE OR SNOW SHALL BE CONSIDERED INCIDENTAL.
2. MUCK EXCAVATION FROM EXISTING POND BOTTOM - TO BE EXPORTED AND DISPOSED OF OFFSITE (WITH WATER TIGHT TRUCKS)
3. CONTRACTOR SHALL COORDINATE OFF-SITE LOCATION TO PLACE EXCESS MATERIAL AND SUBMIT ANY PLACEMENT PLANS AND/OR PERMITTING NECESSARY TO CITY/COUNTY PRIOR TO EXPORTING MATERIAL FROM SITE (INCIDENTAL).
4. IF TEMPORARY STOCKPILING OF EXCAVATED SEDIMENT IS DONE, PERIMETER EROSION CONTROL MUST BE INSTALLED AND SHALL BE CONSIDERED INCIDENTAL TO POND EXCAVATION.
5. ALL DISTURBED LAWN AREAS SHALL BE RESTORED WITH SEED MIX 25-151 WITH HYDROMULCH. ALL DISTURBED POND AREAS SHALL BE RESTORED WITH STATE SEED MIX 34-262. ALL AREAS REQUIRING RESTORATION MUST BE COVERED WITHIN 7 DAYS OF DISTURBANCE.
6. ALL DISTURBED AREAS ABOVE THE NORMAL WATER LEVEL SHALL BE RESTORED WITH 6" TOPSOIL. FROZEN MATERIAL SHALL NOT BE USED FOR TOPSOIL RESPREAD.
7. SUITABLE TOPSOIL SHALL BE SALVAGED AND REPLACED (INCIDENTAL). TOPSOIL WILL BE IMPORTED TO SUPPLEMENT SALVAGED TOPSOIL AS NEEDED TO ACHIEVE 6" OF TOPSOIL OVER DISTURBED AREAS.
8. CONSTRUCTION ACTIVITY SHALL BE CONTAINED TO EASEMENT AREAS AND CONSTRUCTION LIMITS AS SHOWN ON THE PLANS.
9. CONTRACTOR SHALL COORDINATE REMOVAL/CONSTRUCTION LIMITS, FINAL CONTOURS, AND EXTENTS OF RIPRAP AND HYDROSEED IN FIELD WITH ENGINEER.
10. FINAL GRADES SHALL CONFORM TO THE PROPOSED ELEVATIONS AT +/- 0.25- FEET. FINAL APPROVAL OF GRADING SHALL BE REQUIRED FROM THE ENGINEER PRIOR TO RESTORATION ACTIVITIES.

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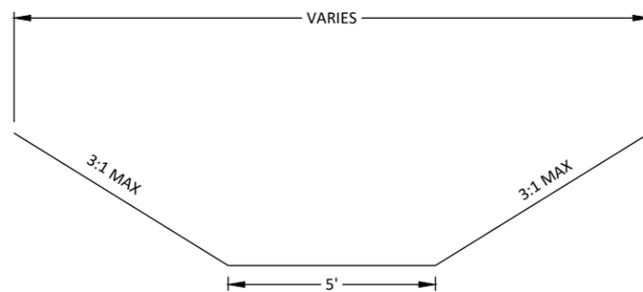
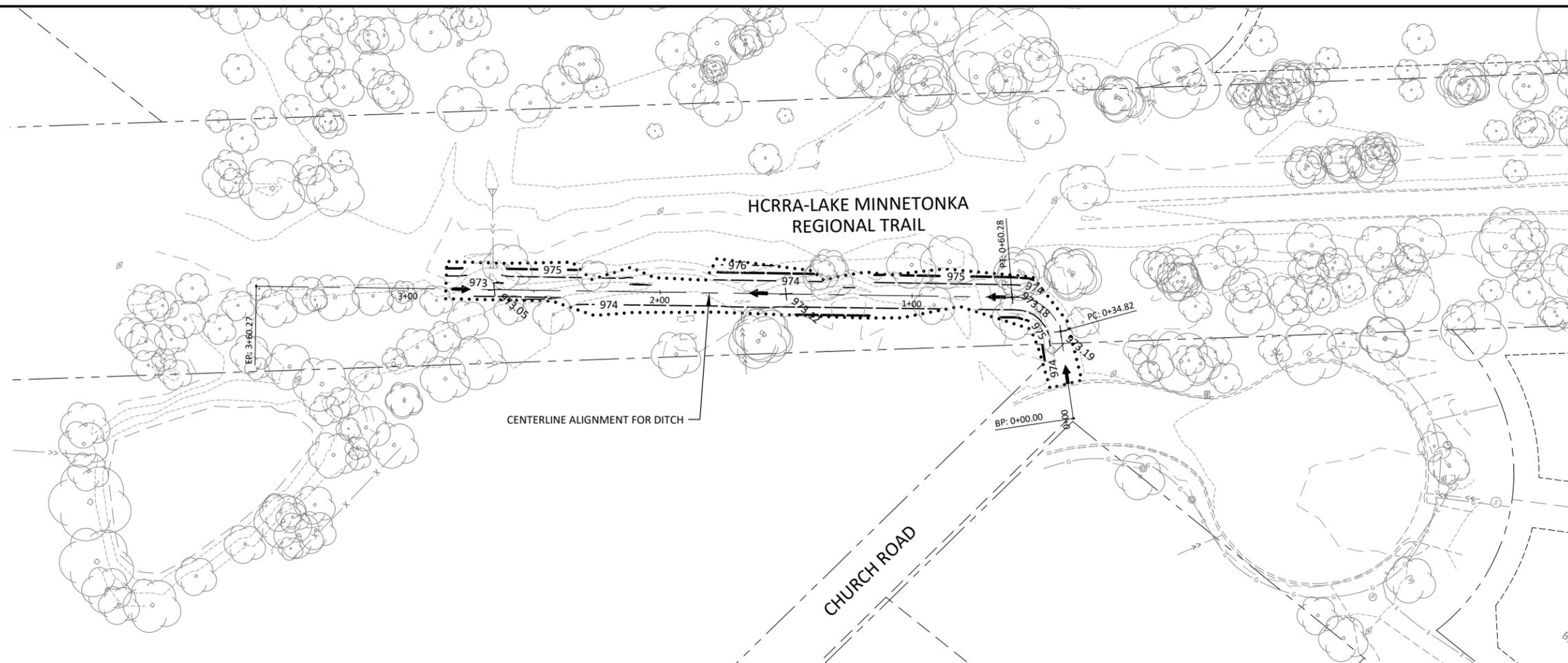


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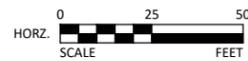
CITY OF SHOREWOOD
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DITCH GRADING

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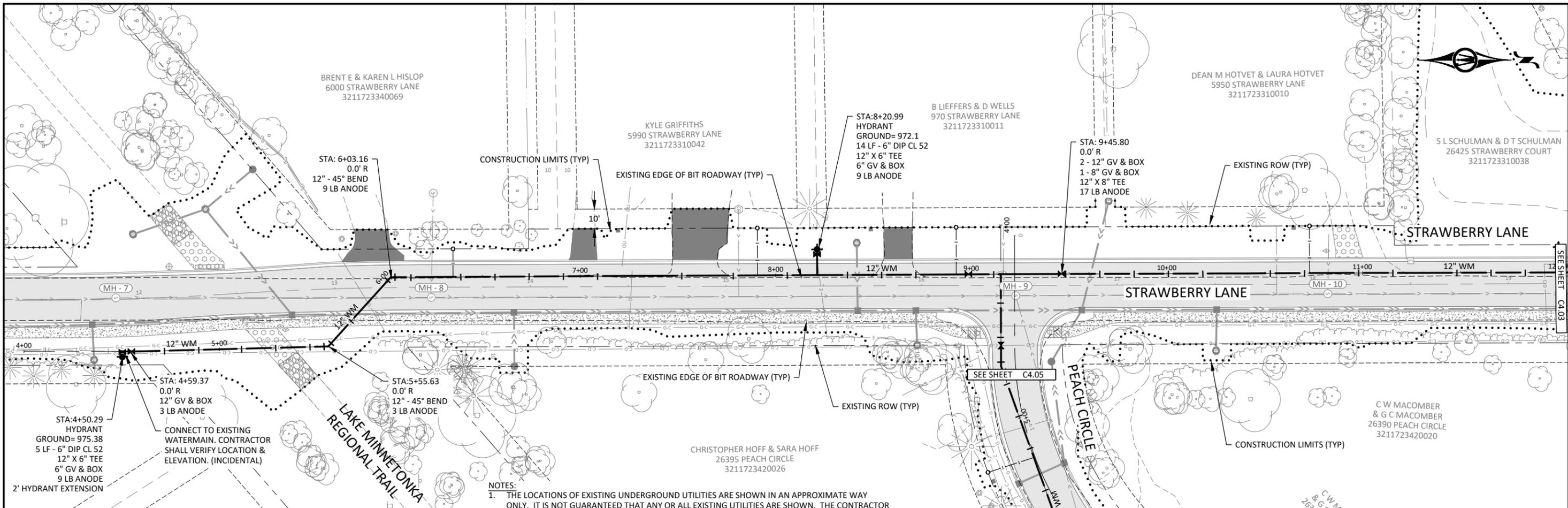


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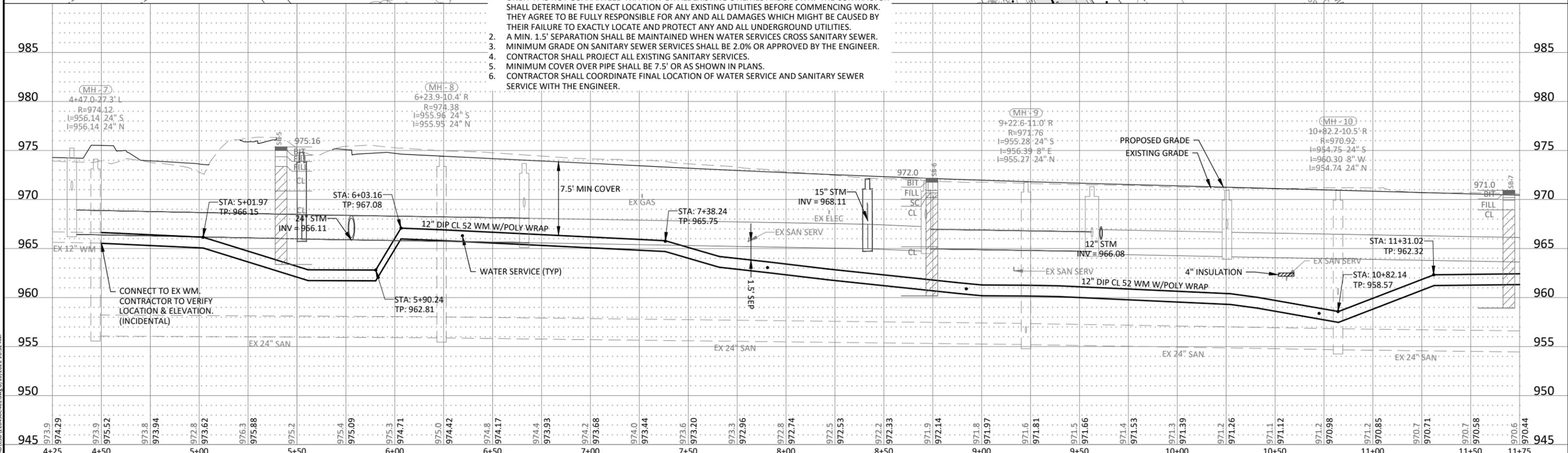
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CITY OF SHOREWOOD
 STRAWBERRY LANE RECONSTRUCTION
 POND GRADING PLAN

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- NOTES:**
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 2. A MIN. 1.5' SEPARATION SHALL BE MAINTAINED WHEN WATER SERVICES CROSS SANITARY SEWER.
 3. MINIMUM GRADE ON SANITARY SEWER SERVICES SHALL BE 2.0% OR APPROVED BY THE ENGINEER.
 4. CONTRACTOR SHALL PROJECT ALL EXISTING SANITARY SERVICES.
 5. MINIMUM COVER OVER PIPE SHALL BE 7.5' OR AS SHOWN IN PLANS.
 6. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF WATER SERVICE AND SANITARY SEWER SERVICE WITH THE ENGINEER.



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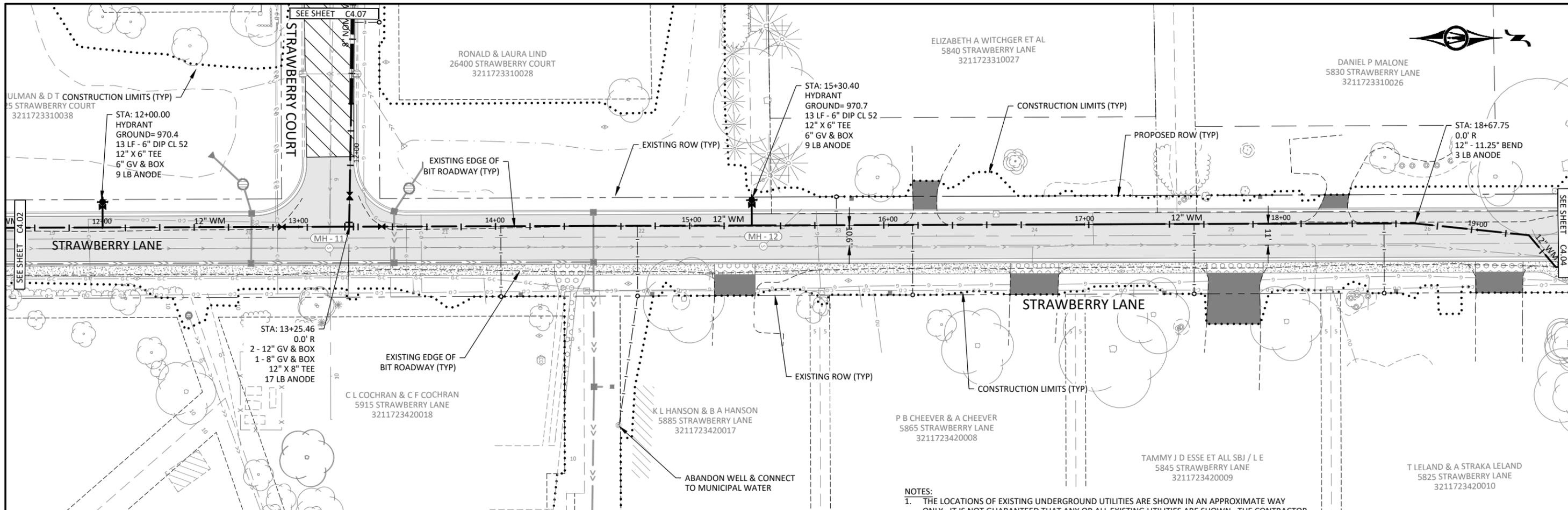
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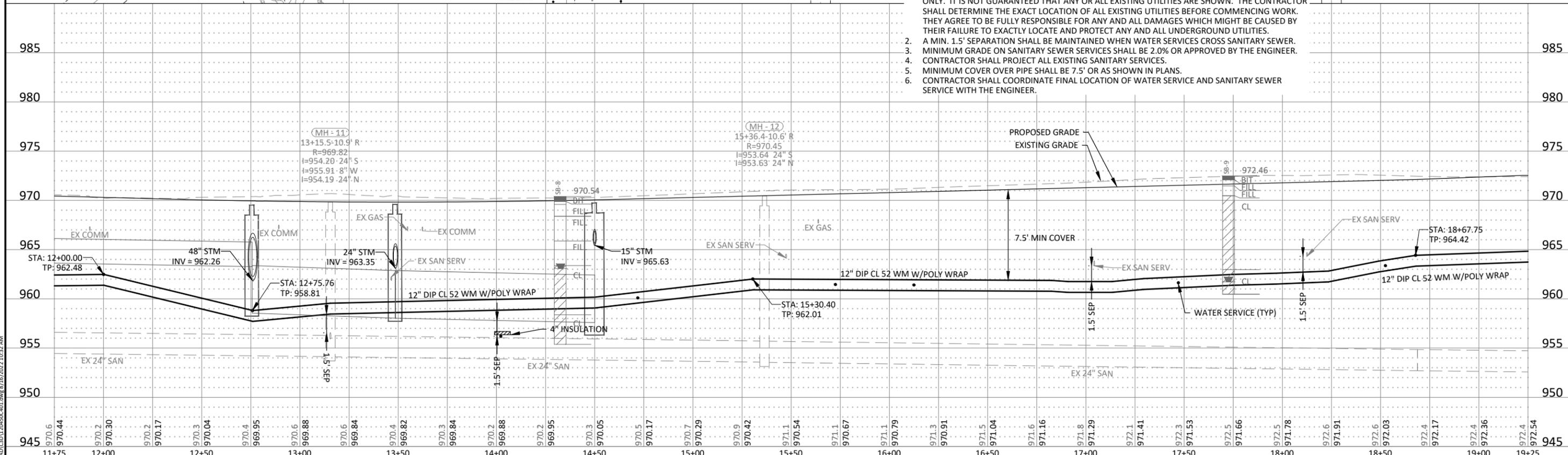
CITY OF SHOREWOOD
STRAWBERRY LANE RECONSTRUCTION
WATERMAIN PLAN & PROFILE-STRAWBERRY LANE

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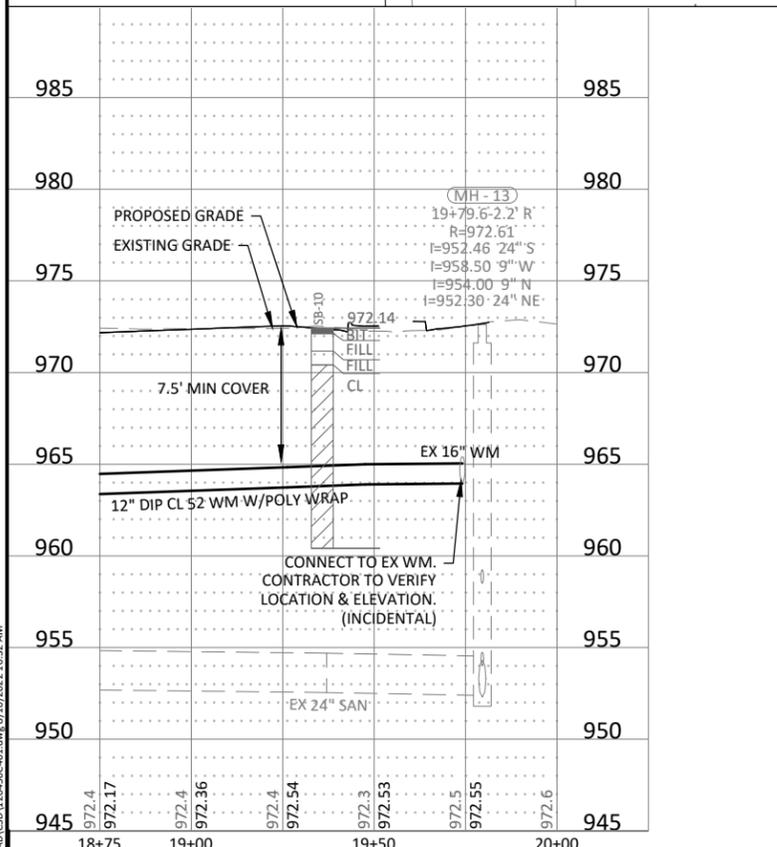
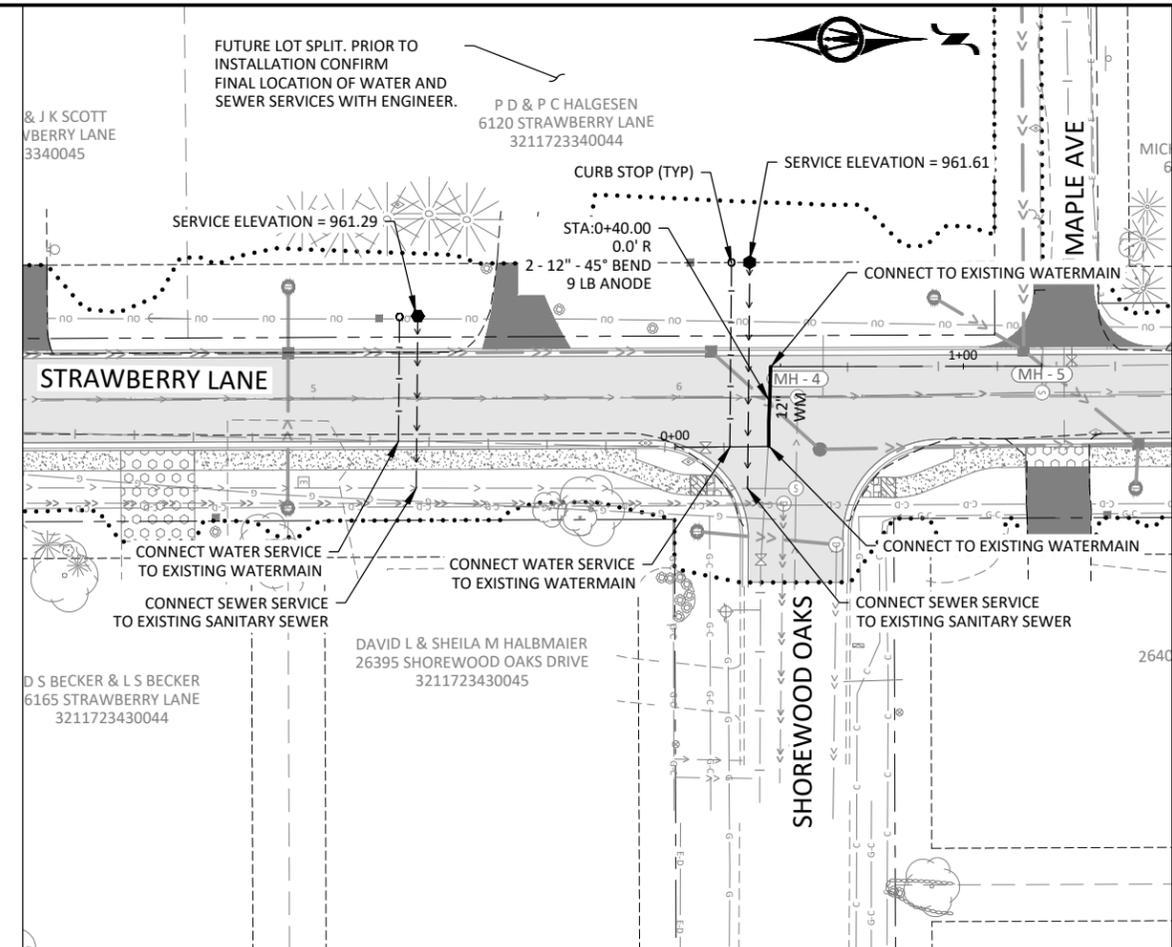
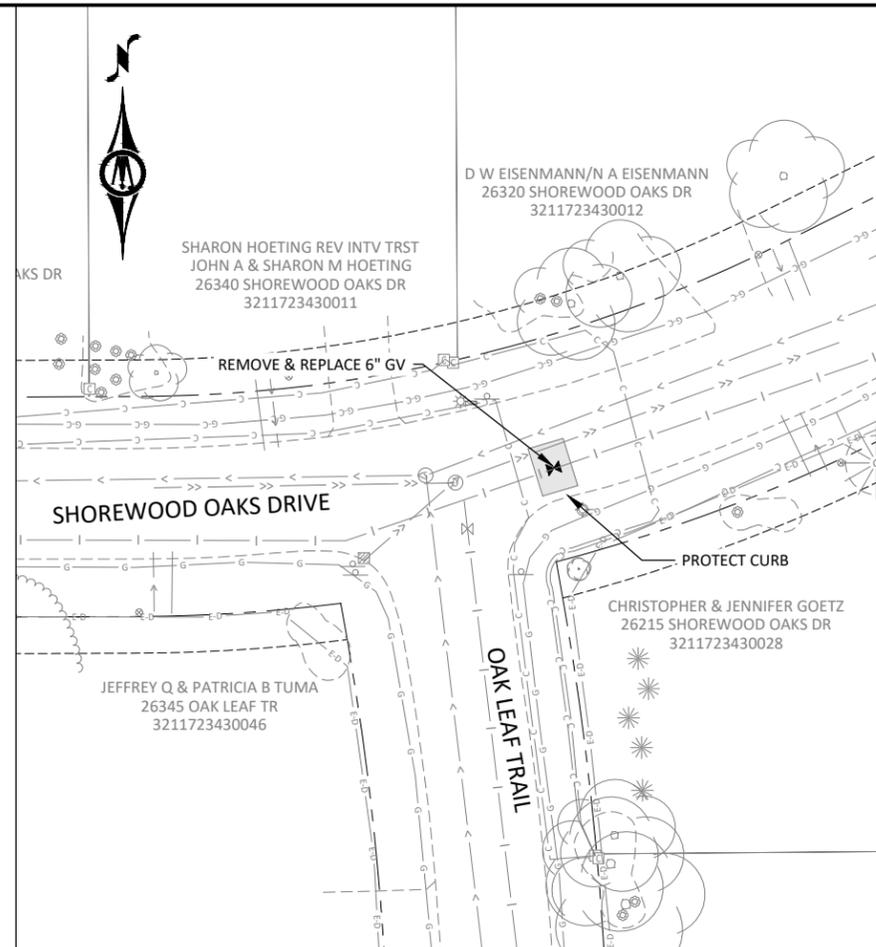
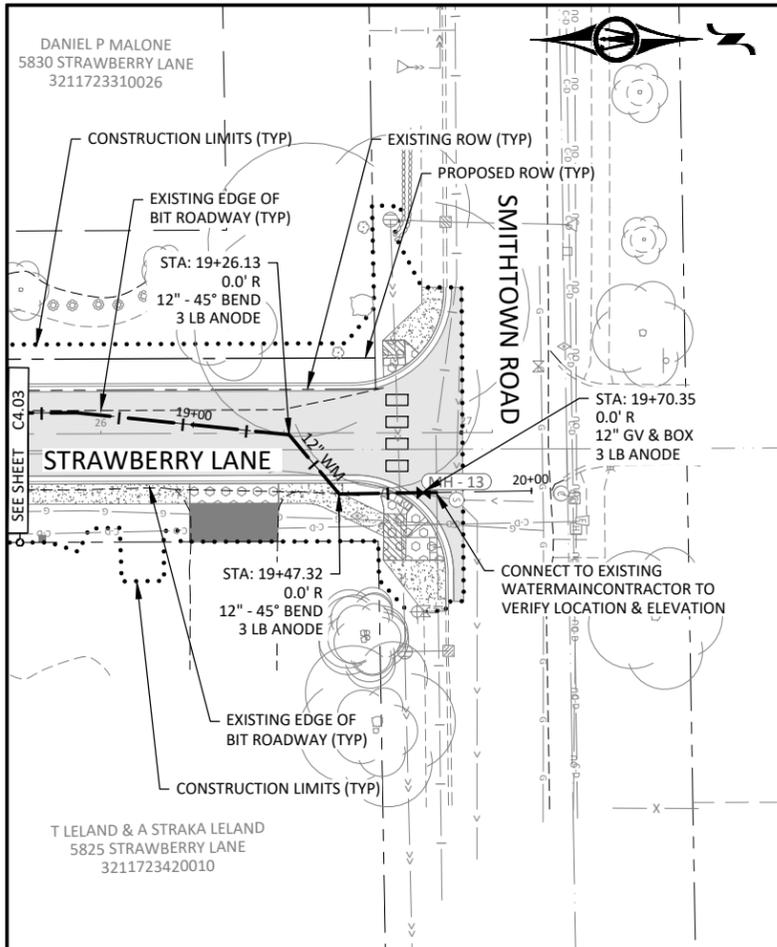
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CITY OF SHOREWOOD
 STRAWBERRY LANE RECONSTRUCTION
 WATERMAIN PLAN & PROFILE-STRAWBERRY LANE

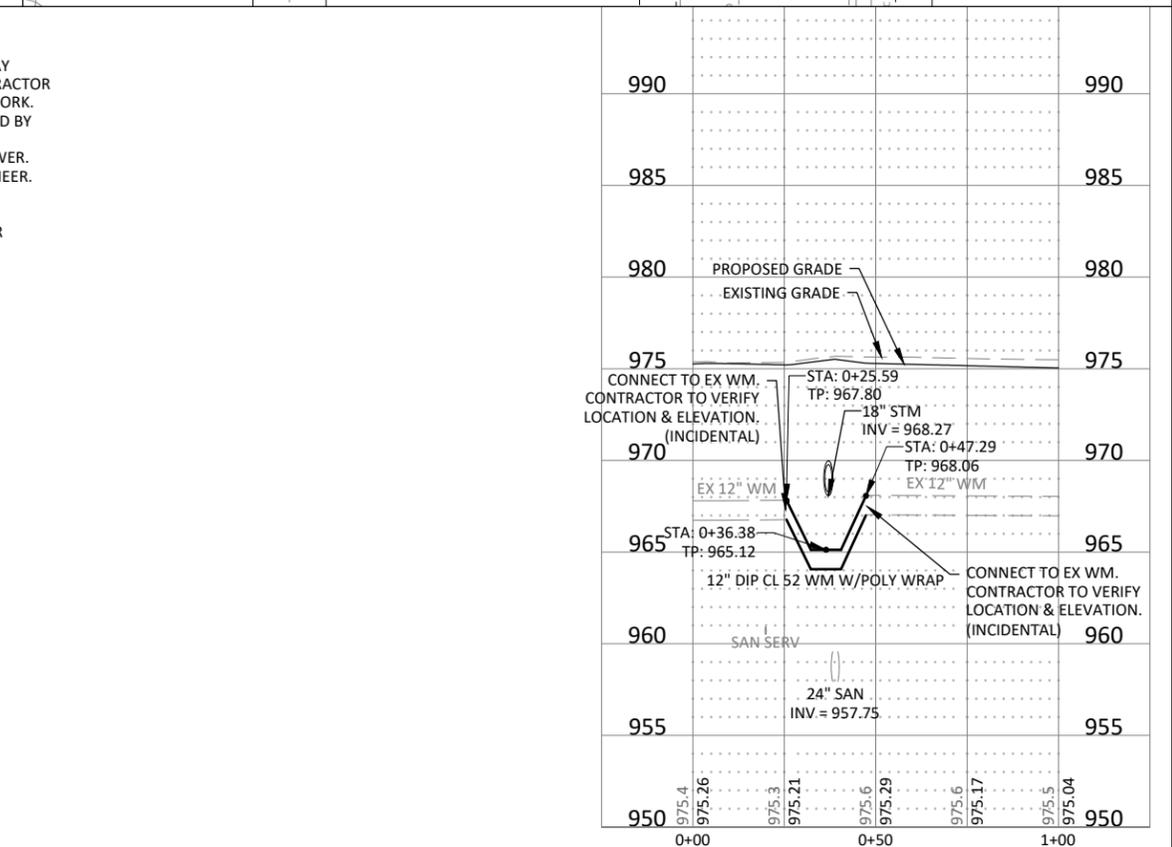
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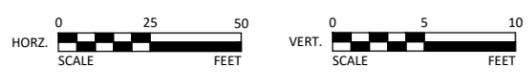


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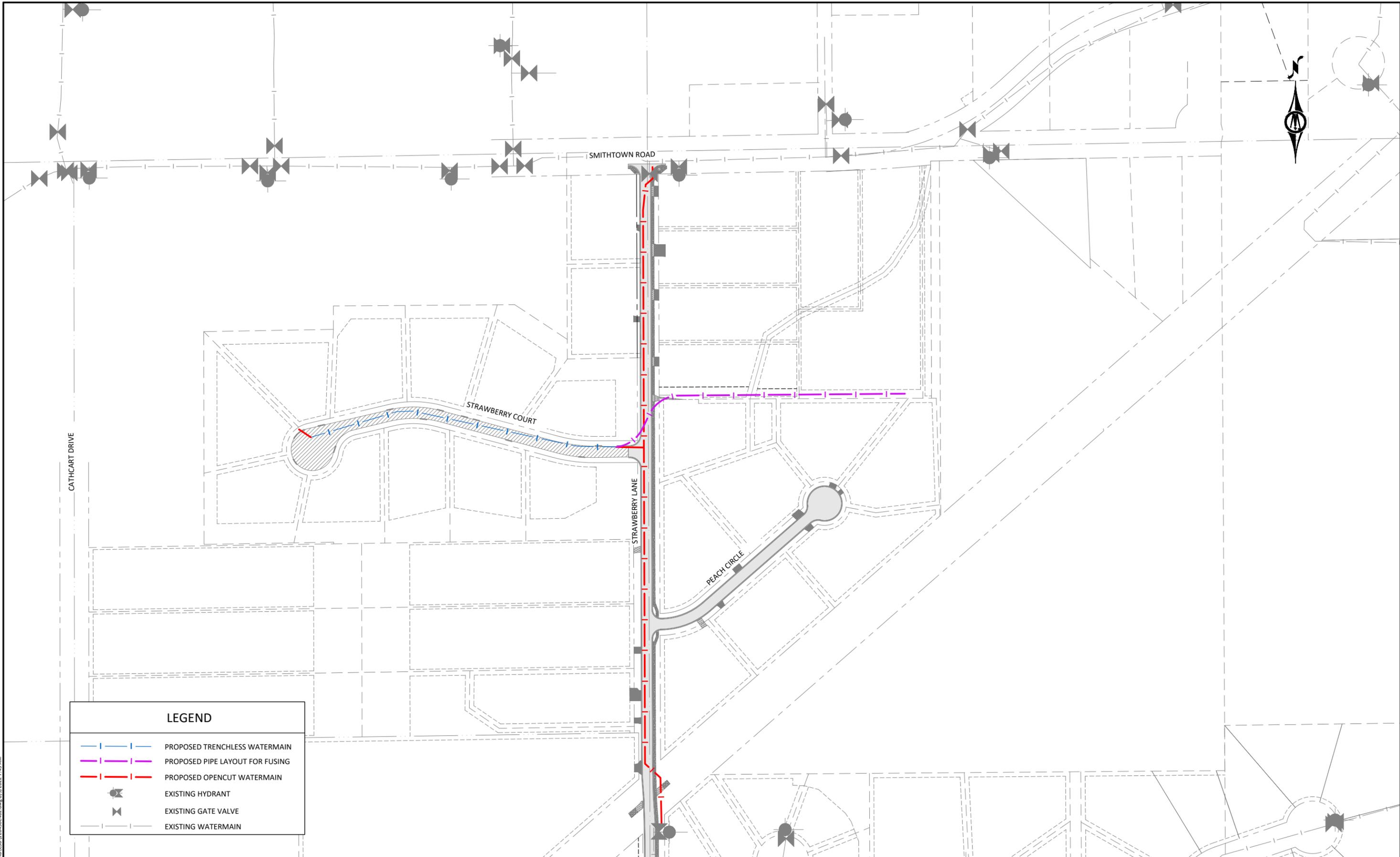
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 CHASKA, MINNESOTA 55318
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 Email: Chaska@bolton-menk.com
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CLIENT PROJ. NO.	C16.120450		

CITY OF SHOREWOOD
 STRAWBERRY LANE RECONSTRUCTION
 WATERMAIN PLAN & PROFILE-STRAWBERRY LANE

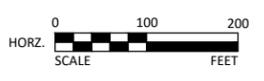
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LEGEND

- |—|—| PROPOSED TRENCHLESS WATERMAIN
- |—|—| PROPOSED PIPE LAYOUT FOR FUSING
- |—|—| PROPOSED OPENCUT WATERMAIN
- EXISTING HYDRANT
- EXISTING GATE VALVE
- EXISTING WATERMAIN

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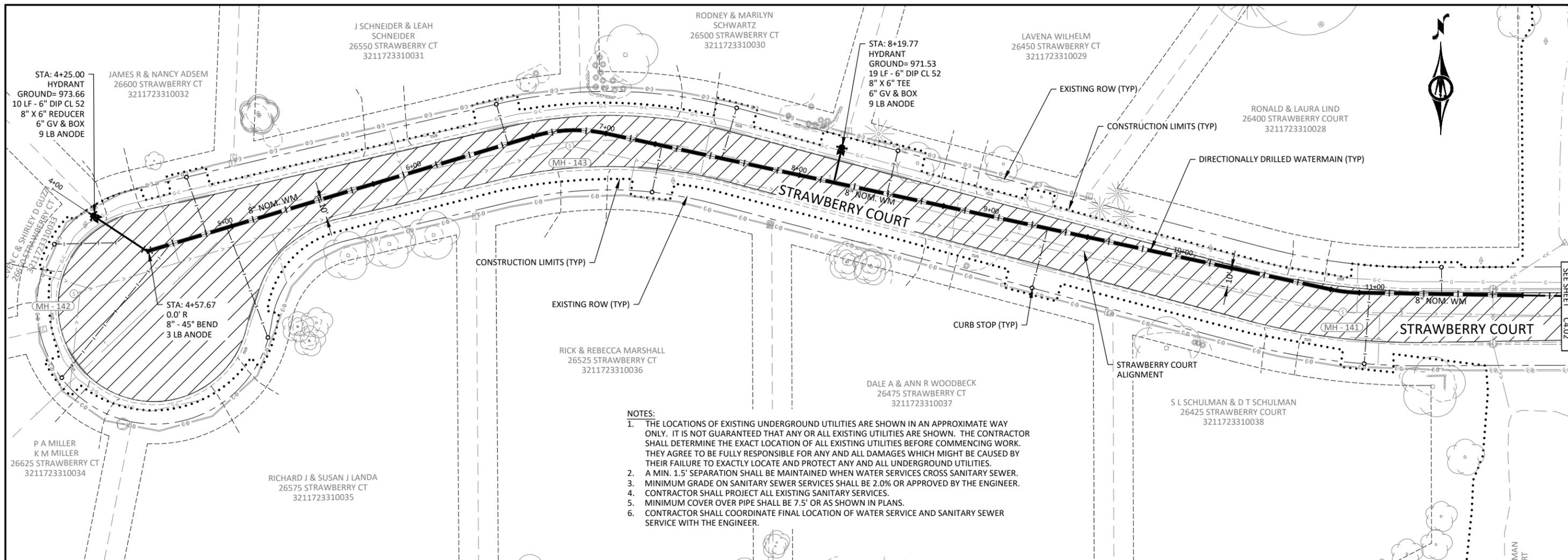


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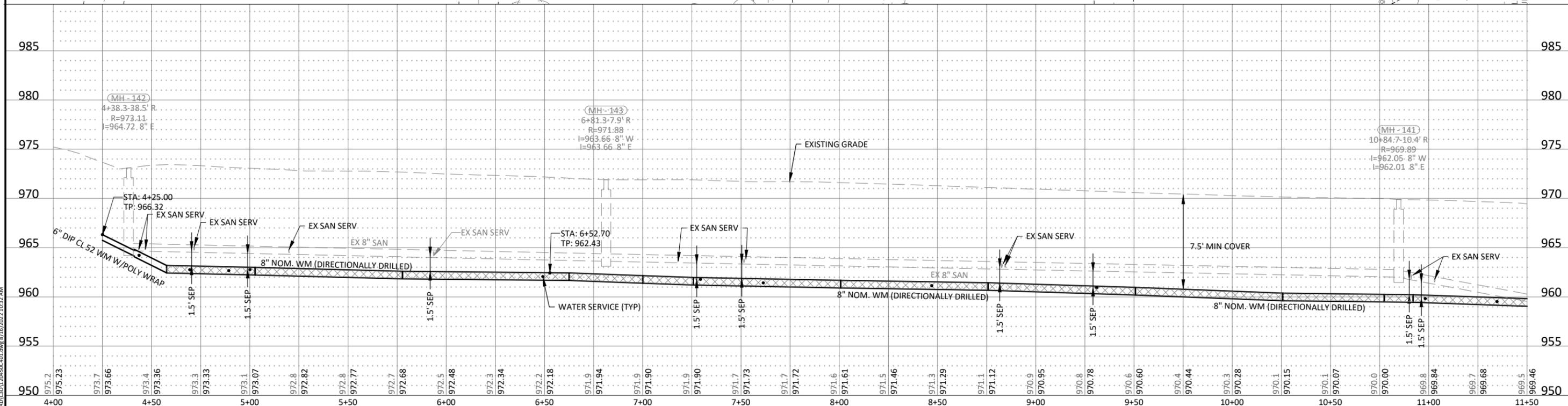
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CITY OF SHOREWOOD
 STRAWBERRY LANE RECONSTRUCTION
 TRENCHLESS WATERMAIN LAYOUT

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C4.06



- NOTES:**
1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. IT IS NOT GUARANTEED THAT ANY OR ALL EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THEY AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THEIR FAILURE TO EXACTLY LOCATE AND PROTECT ANY AND ALL UNDERGROUND UTILITIES.
 2. A MIN. 1.5' SEPARATION SHALL BE MAINTAINED WHEN WATER SERVICES CROSS SANITARY SEWER.
 3. MINIMUM GRADE ON SANITARY SEWER SERVICES SHALL BE 2.0% OR APPROVED BY THE ENGINEER.
 4. CONTRACTOR SHALL PROJECT ALL EXISTING SANITARY SERVICES.
 5. MINIMUM COVER OVER PIPE SHALL BE 7.5' OR AS SHOWN IN PLANS.
 6. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF WATER SERVICE AND SANITARY SEWER SERVICE WITH THE ENGINEER.



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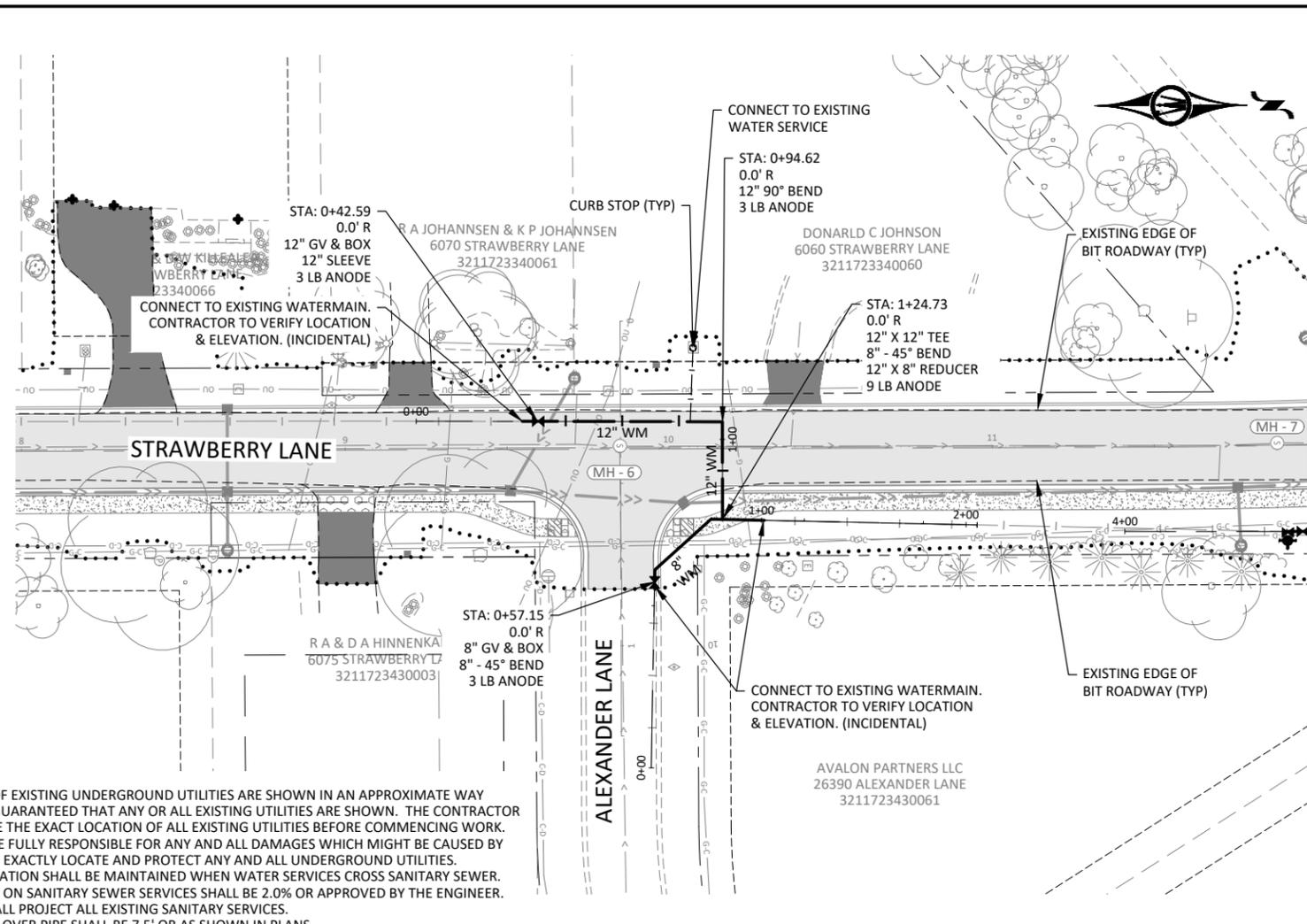
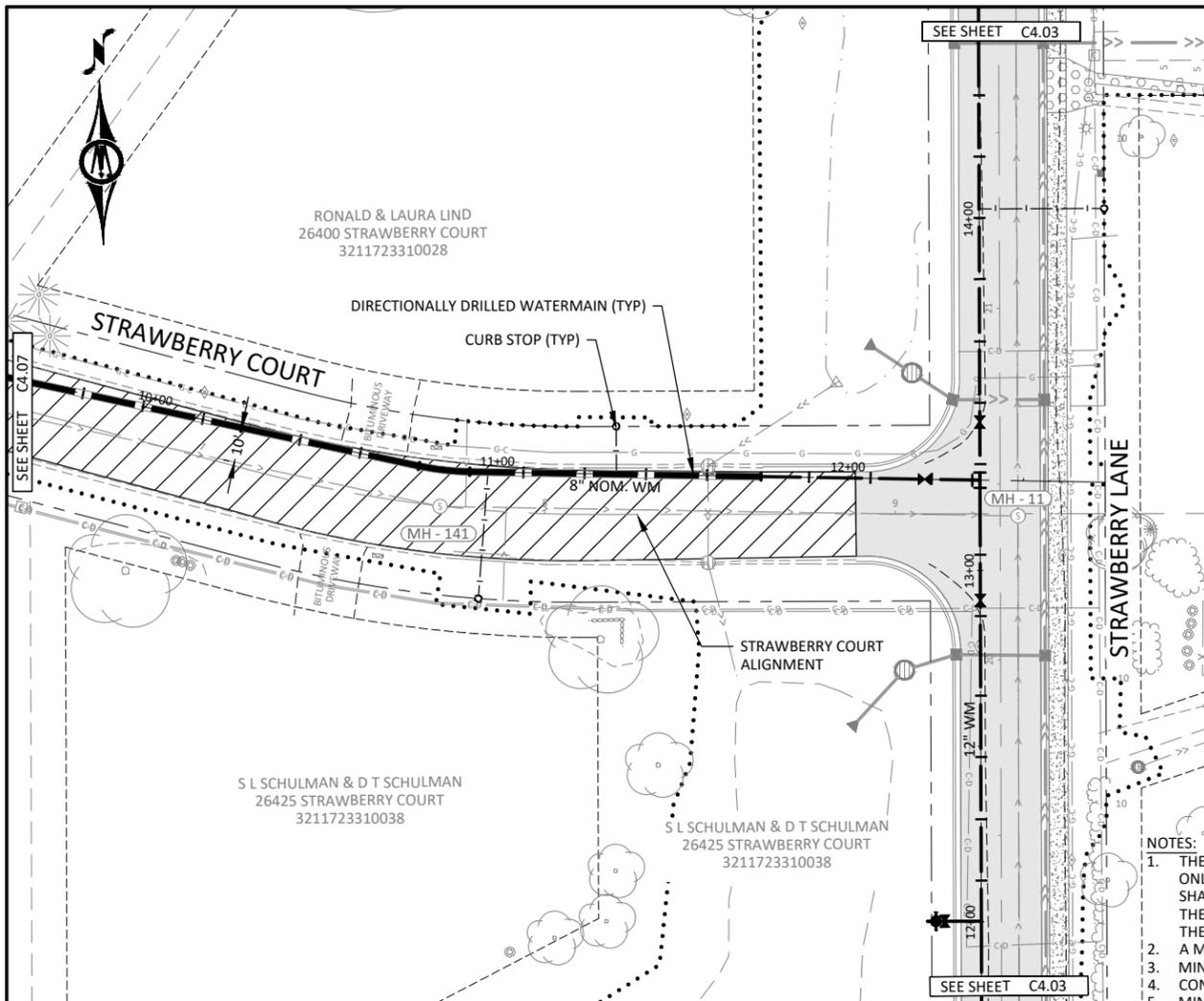
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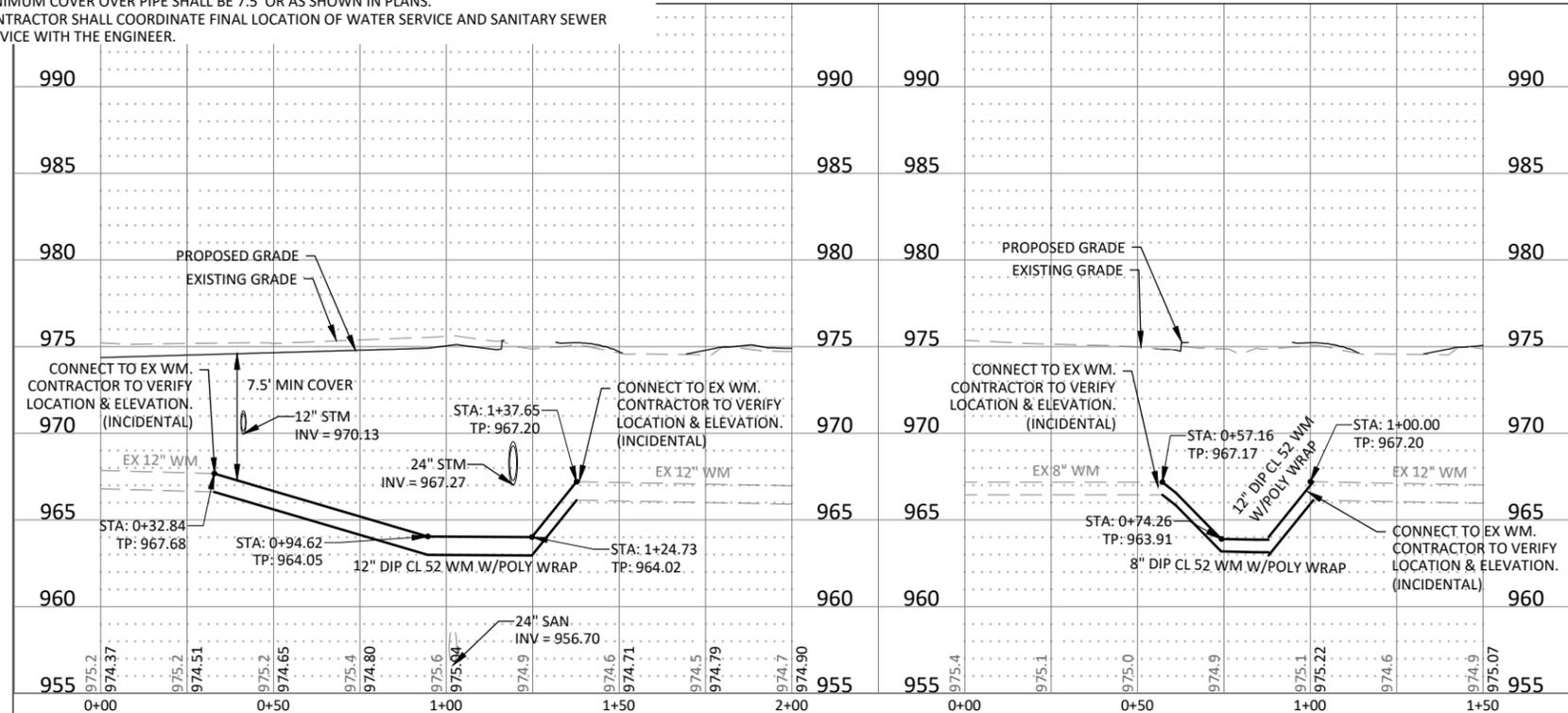
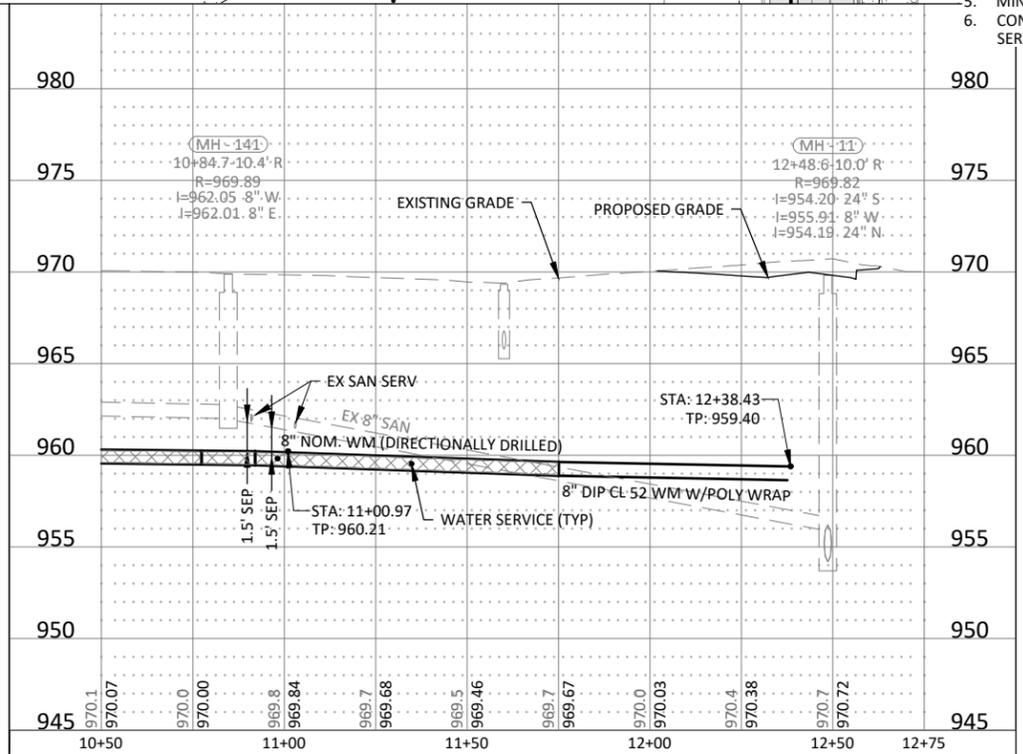
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 STRAWBERRY LANE RECONSTRUCTION
 WATERMAIN PLAN & PROFILE - STRAWBERRY COURT

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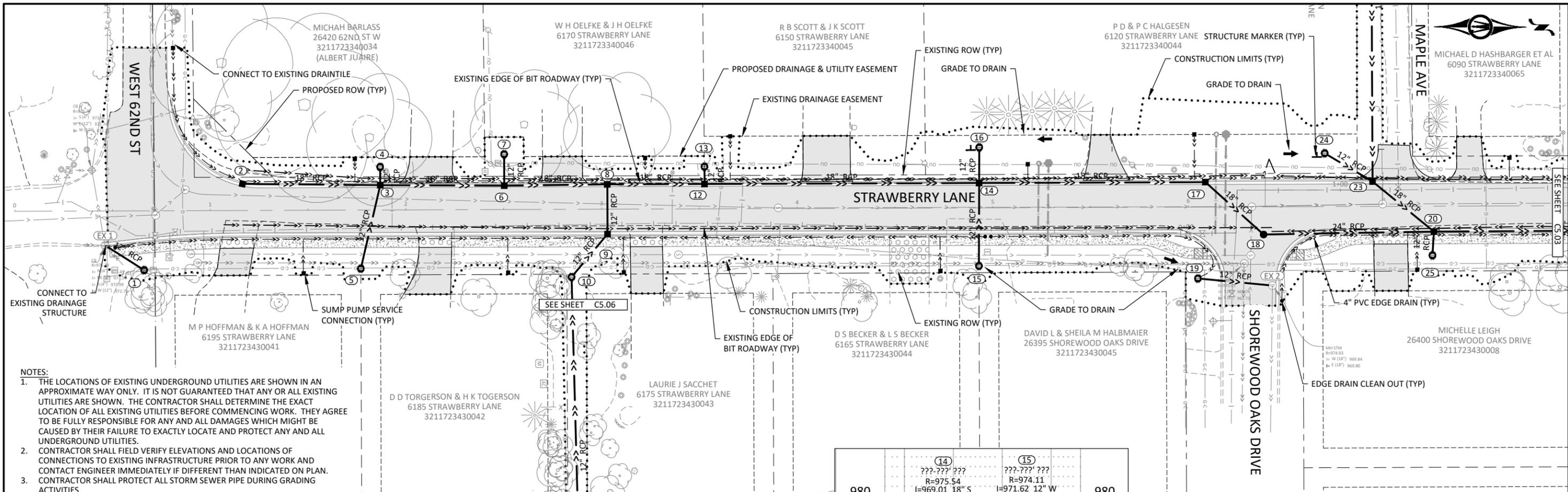
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CITY OF SHOREWOOD
STRAWBERRY LANE RECONSTRUCTION
WATERMAIN PLAN & PROFILE - STRAWBERRY COURT

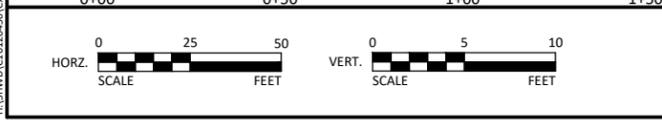
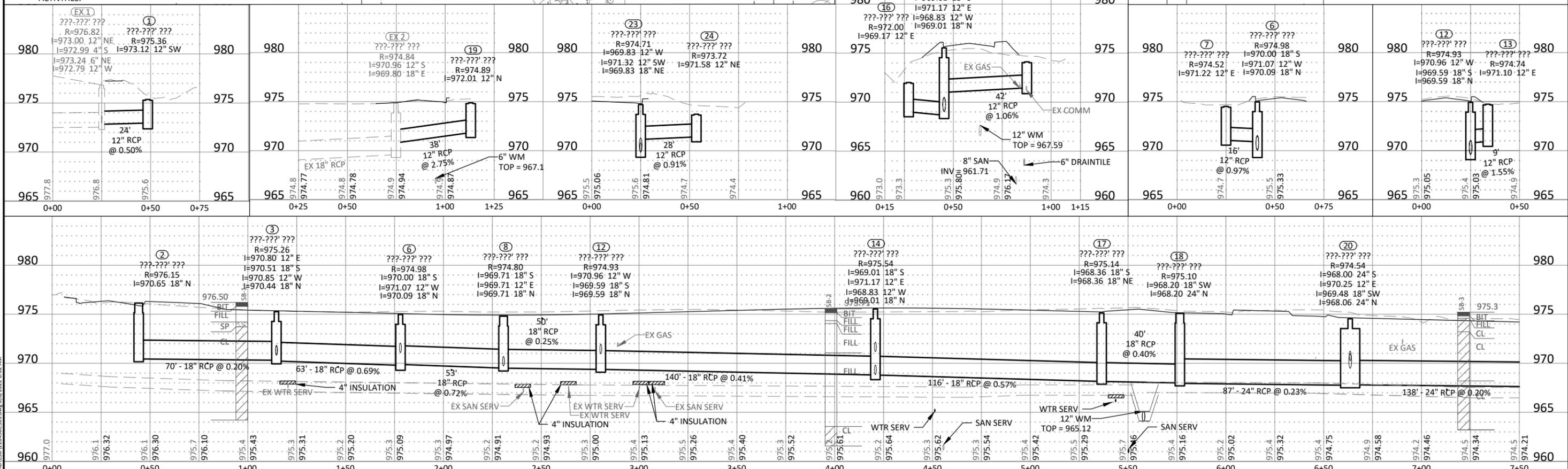
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STORM SEWER TABLE

STRUCTURE		LOCATION		DESIGN											RC PIPE SEWER														CONNECT TO		CONNECT TO		NOTES
FLOWS FROM	FLOWS TO	ALIGNMENT	STATION (1)	DESIGN 4006-G	DESIGN 4020 - 48"	DESIGN 4020- 72"	DESIGN 4022 - 48"	DESIGN 4022-60"	DESIGN 4022-72"	DESIGN 4022-84"	DESIGN 4022-108"	CASTING ASSEMBLY TYPE (4,5)	RIM ELEV. (10)	UP STREAM INVERT ELEV. FT.	DOWN STREAM INVERT ELEV. FT.	4" PERF PVC PIPE DRAIN	12" RC PIPE SEWER DES 3006 CL. V (3,8)	15" RC PIPE SEWER DES 3006 CL. V (3,8)	18" RC PIPE SEWER DES 3006 CL. III (3,8)	24" RC PIPE SEWER DES 3006 CL. III (3,8)	48" RC PIPE SEWER DES 3006 CL. III (3,8)	36" EQ RC PIPE-ARCH SEWER CL.IIA	48" RC PIPE APRON (4,7)	36" EQ RC PIPE-ARCH APRON (4,7)	84" OCS POND SKIMMER W/ WEIR WALL EACH	EXISTING STORM PIPE EACH	EXISTING STORM STRUCTURE EACH						
				LIN FT	LIN FT (2)	LIN FT (2)	LIN FT (2)	LIN FT (2)	LIN FT (2)	LIN FT (2)	LIN FT					LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	
STRAWBERRY LANE																																	
1	EX 1	0+66.08	30.21-R	2.2								R-4342	975.36	973.12	973.00		24												1				
2	3	1+16.50	13.58-L				5.5					R-3067-VB	976.15	970.65	970.51	86				70													
3	6	1+86.91	12.67-L					4.9				R-3067-V	975.35	970.44	970.00	84				63													
4	3	1+86.90	21.95-L	3.1								R-4342	974.12	971.00	970.85		9																
5	3	1+76.84	29.84-R	4.0								R-4342	975.22	971.23	970.80		44																
6	8	2+50.30	12.19-L				5.0					R-3067-V	975.08	970.09	969.71	65				53													
7	6	2+50.31	28.19-L	3.3								R-4342	974.52	971.22	971.07		16																
8	12	3+03.00	12.67-L				5.1					R-3067-VB	974.80	969.71	969.59	118				50													
9	8	3+03.01	12.67-R				5.0					R-3067-V	974.80	969.84	969.71	517	25																
10	9	2+85.54	34.50-R		4.1							R-4342	974.06	969.98	969.84		29																
11	10	2+88.78	216.41-R	2.9								R-4342	973.83	970.90	969.98		182																
12	14	3+52.71	12.67-L				5.4					R-3067-V	974.98	969.59	969.01	164				140													
13	12	3+52.70	21.48-L	3.6								R-4342	974.74	971.10	970.96		9																
14	17	4+93.09	12.67-L				6.5					R-3067-V	975.54	969.01	968.36					116													
15	14	4+92.83	29.62-R	2.5								R-4342	974.11	971.62	971.17		42																
16	14	4+93.20	30.78-L	2.8								R-4342	972.00	969.17	968.83		18																
17	18	6+08.77	12.67-L				6.8					R-3067-V	975.14	968.36	968.20	147				40									1				
18	20	6+38.40	14.11-R		6.9							R-1642	975.10	968.20	968.00					88													
19	EX 2	6+04.73	36.93-R	2.9								R-4342	974.89	972.01	970.96	131	38												1				
20	26	7+25.48	12.92-R				6.5					R-3067-V	974.54	968.06	967.78	119				138													
21	22	7+58.47	208.04-L	4.0								R-4342	974.95	970.93	970.60		65																
22	23	6+93.99	204.62-L		5.1							R-1642	975.71	970.60	969.83		192																
23	20	6+94.22	12.67-L					4.9				R-3067-V	974.71	969.83	969.48	87				40													
24	23	6+69.78	27.18-L	2.1								R-4342	973.72	971.58	971.32		28																
25	20	7+24.71	25.05-R	4.0								R-4342	974.35	970.34	970.25		12																
26	29	8+63.55	12.67-R				6.2					R-3067-VB	973.99	967.78	967.60	246				87													
27	26	8+63.55	12.67-L				4.4					R-3067-VB	974.15	969.75	969.55	512		25															
28	26	8+63.51	30.65-R	3.3								R-4342	973.26	969.97	969.66		18																
29	31	9+50.96	12.67-R					6.7				R-3067-V	974.29	967.60	967.32	40				54													
30	29	9+70.93	21.90-L	3.6								R-4342	973.85	970.22	970.00					40													
31	32	10+04.47	16.69-R				7.6					R-3067-VB	974.95	967.32	966.70	182				171													
32	34	11+75.63	12.65-R				8.5					R-3067-V	975.25	966.70	966.22					102													
33	32	11+76.26	30.64-R	2.5								R-4342	973.73	971.27	970.91		18																
34	38	12+77.55	12.42-R				8.6					R-3067-V	974.79	966.22	965.84	103				114													
35	36	11+97.84	32.86-L	2.3								R-4342	973.29	971.00	970.84		39																
36	34	12+36.40	43.92-L		7.3							R-4342	973.84	966.57	966.22					70													
37	36	12+61.62	62.63-L		8.5							R-1642	975.27	966.73	966.57		32																
38	40	13+91.62	12.92-R				7.8					R-3067-V	973.67	965.84	965.23	116				176													
39	38	13+91.73	40.42-R	3.3								R-1642	973.15	969.83	969.21		28																
40	42	15+67.30	12.67-R				6.8					R-3067-V	972.07	965.23	964.98	177				30													
41	40	15+66.89	21.93-L	3.5								R-4342	971.73	968.23	967.97			35															
42	44	15+97.01	12.67-R				6.9					R-3067-V	971.85	964.98	964.69	31				85													
43	42	15+97.65	30.30-R	3.1								R-4342	971.41	968.26	968.00		18																
44	51	16+81.85	12.67-R							6.6		R-3067-VB	971.31	964.69	964.41					69													
45	44	16+95.79	42.93-L	4.0								R-4342	970.25	966.27	965.98		57										1						
51	54	17+50.81	12.68-R				6.5					R-3067-V	970.94	964.41	963.52	71				250													
52	51	17+50.42	33.61-R	3.3								R-4342	970.51	967.16	967.00					21													
53		19+69.34	39.12-R	3.6								R-4342	968.50	964.94	961.58					205								1					
54	58	20+01.14	12.67-R						10.7			R-3067-V	969.63	958.96	958.45						73												
55	54	20+01.52	12.67-L				7.3					R-3067-VB	969.63	962.32	962.10	922					25												
56	55	19+97.16	27.41-L										969.00	962.50	962.32						15					1							
57	56	19+80.76	42.68-L										965.68	963.00	963.20																		
58	62	20+74.01	12.67-R									R-3067-VB	969.61	958.45	958.00	444				101						1							
59	58	20+74.04	13.41-L				5.9					R-3067-VB	969.44	963.50	963.00	138																	
60	59	20+81.71	25.06-L										969.53	965.50	964.61						26												
61	60	20+89.97	37.59-L										968.68	966.00	966.20						14												
62	64	21+75.43	12.67-R								12.9	R-3067-V	969.73	956.82	956.67	592					63					1							
63	62	21+75.43	12.68-L				4.0					R-3067-V	969.73	965.73	965.35	542																	
64	65	21+75.48	75.90-R							12.7		R-3067-V	969.39	956.67	955.87	5																	
65	66	21+70.67	350.18-R				11.9					R-1642	967.76	955.87	955.00						274												
66		28+31.14	0.00-L										957.68	955.00	955.20																		
PEACH CIRCLE																																	
46	44	0+65.30	18.55-L		4.9							R-3067-V	971.22	966.32	966.16		30																
47	46	1 + 22.9	12.																														



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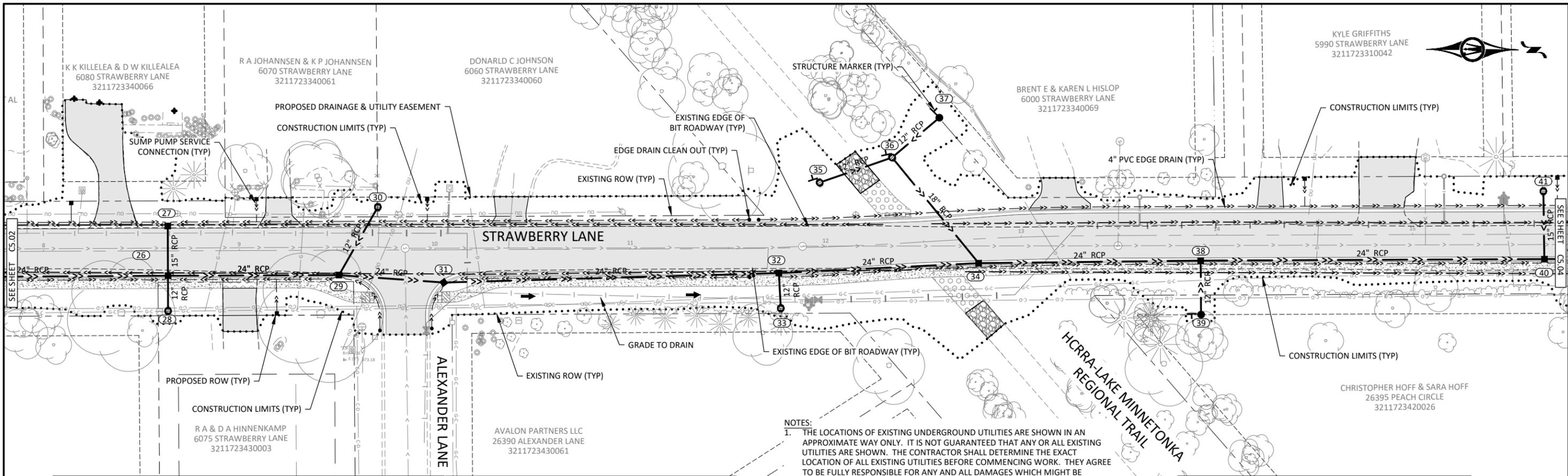
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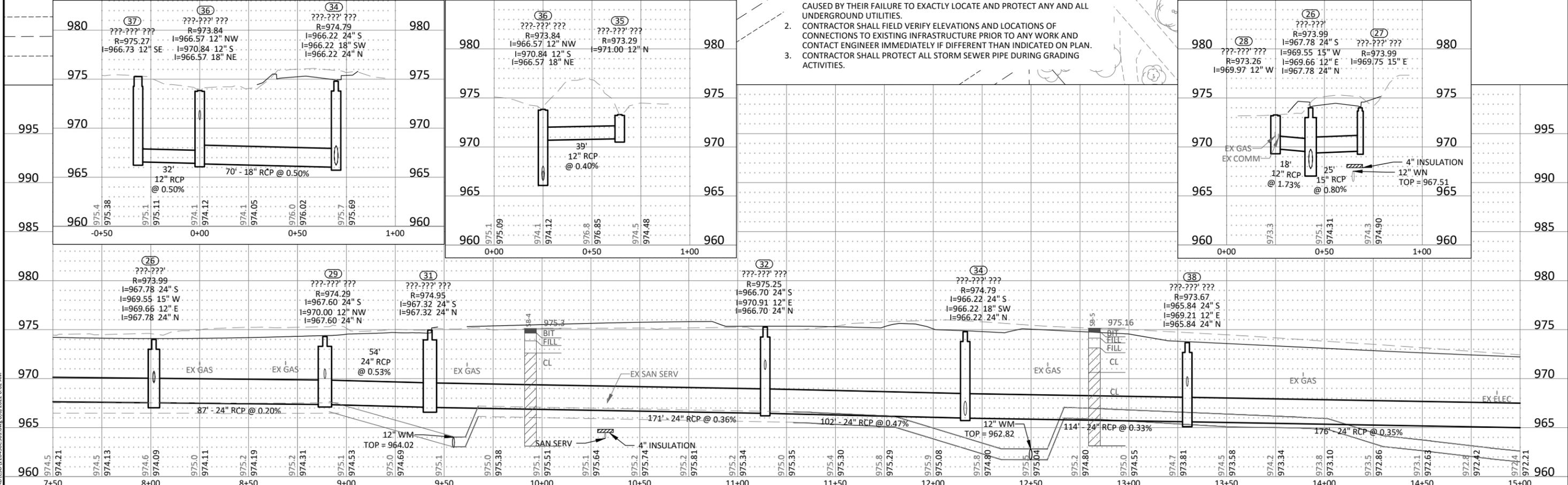
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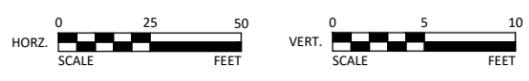
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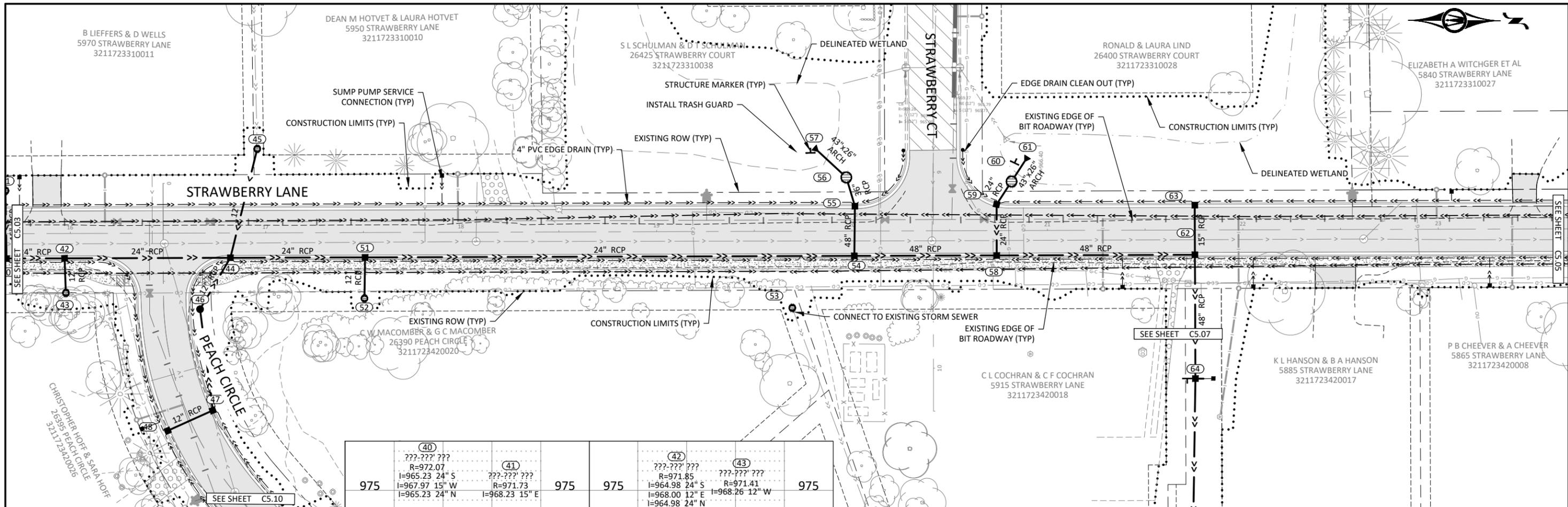
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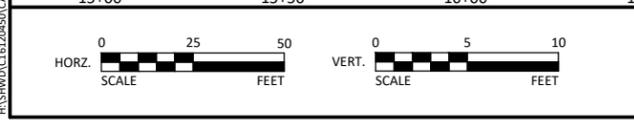
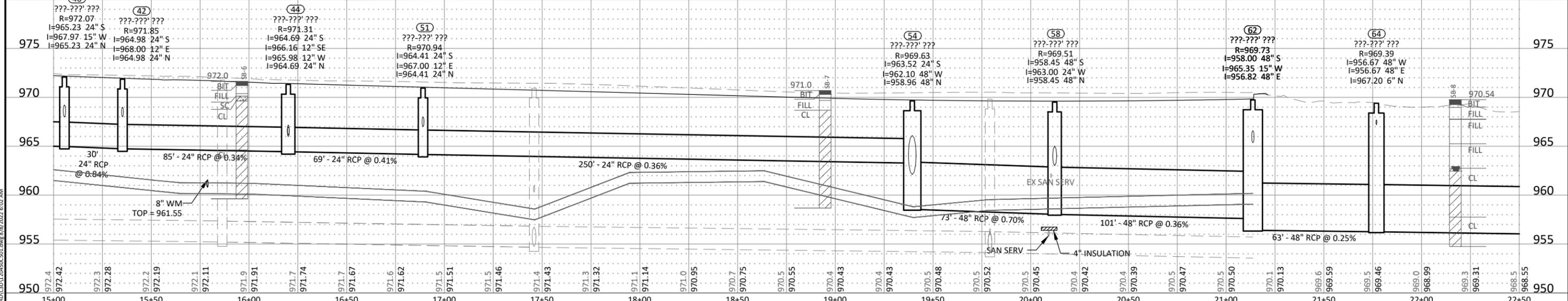
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975	40 ???-??? R=972.07 I=965.23 24" S I=967.97 15" W I=965.23 24" N	41 ???-??? R=971.73 I=968.23 15" E	975	975	42 ???-??? R=971.85 I=964.98 24" S I=968.00 12" E I=964.98 24" N	43 ???-??? R=971.41 I=968.26 12" W	975
970			970	970			970
965			965	965			965
960	971.1	972.3 972.20	972.0	960	971.9	972.44	960

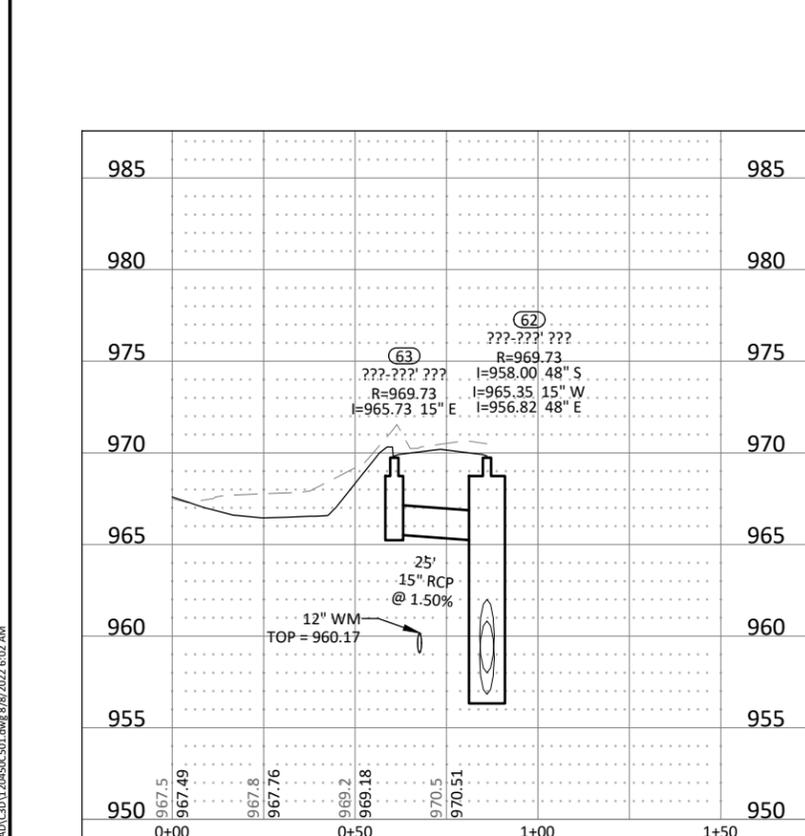
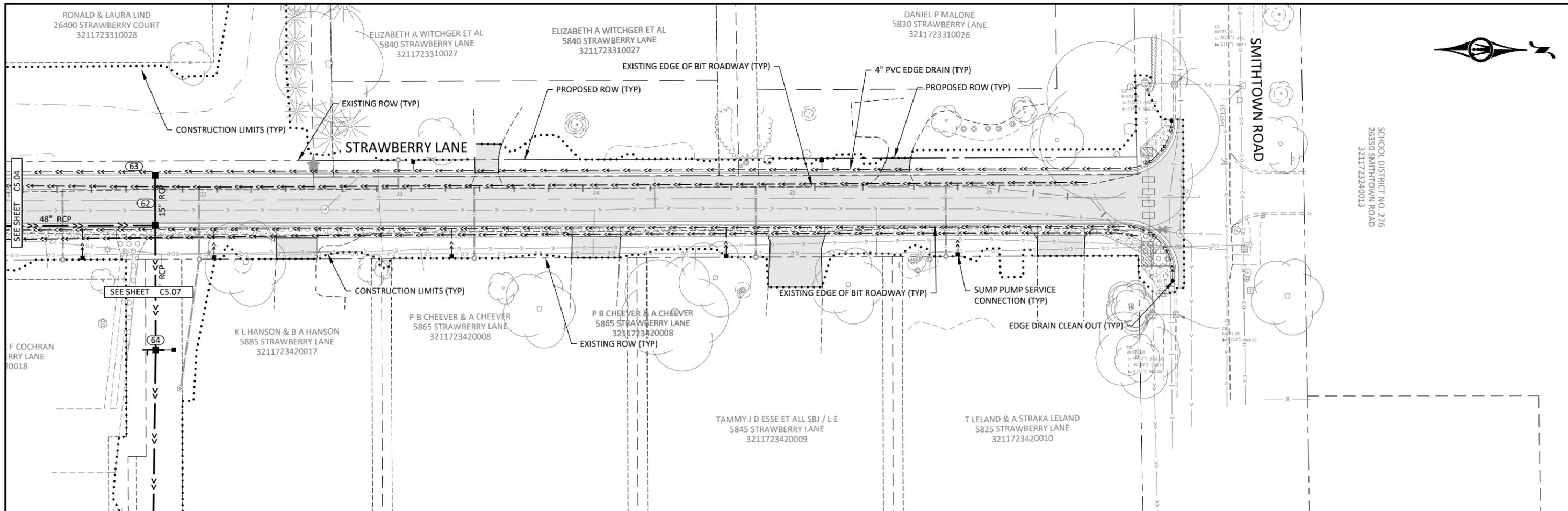
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 3. CONTRACTOR SHALL PROTECT ALL STORM SEWER PIPE DURING GRADING ACTIVITIES.

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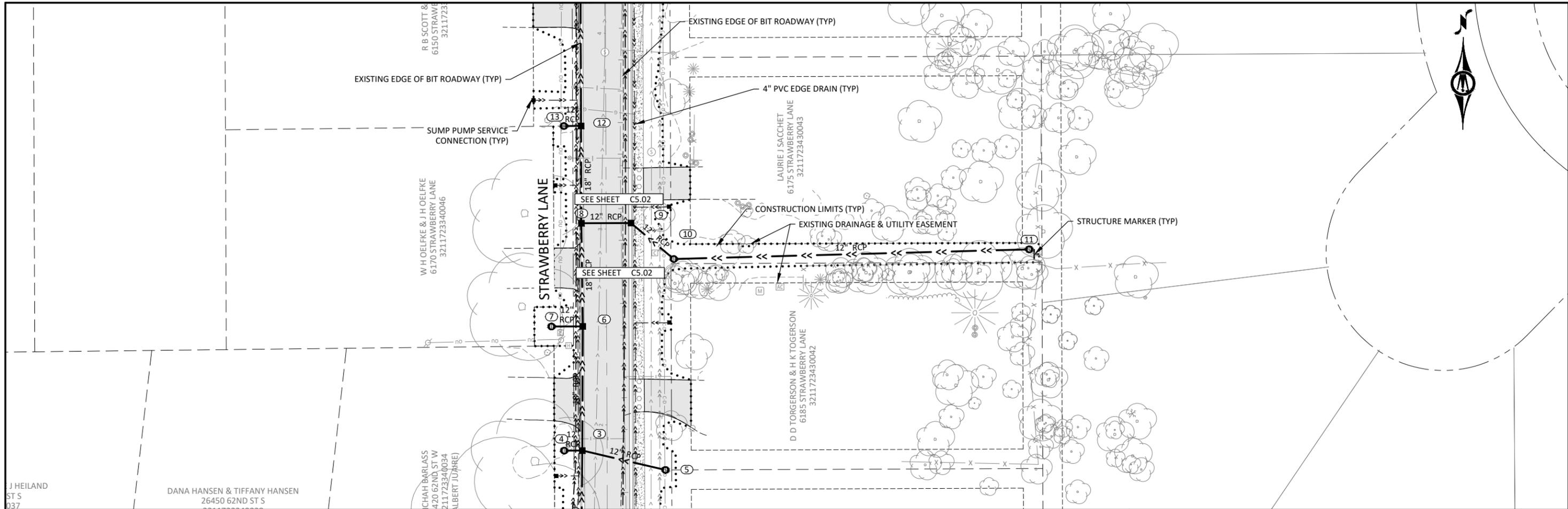
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 CHASKA, MINNESOTA 55318
 Phone: (952) 448-8838
 Email: Chaska@bolton-menk.com
 www.bolton-menk.com

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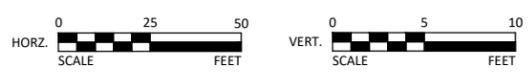
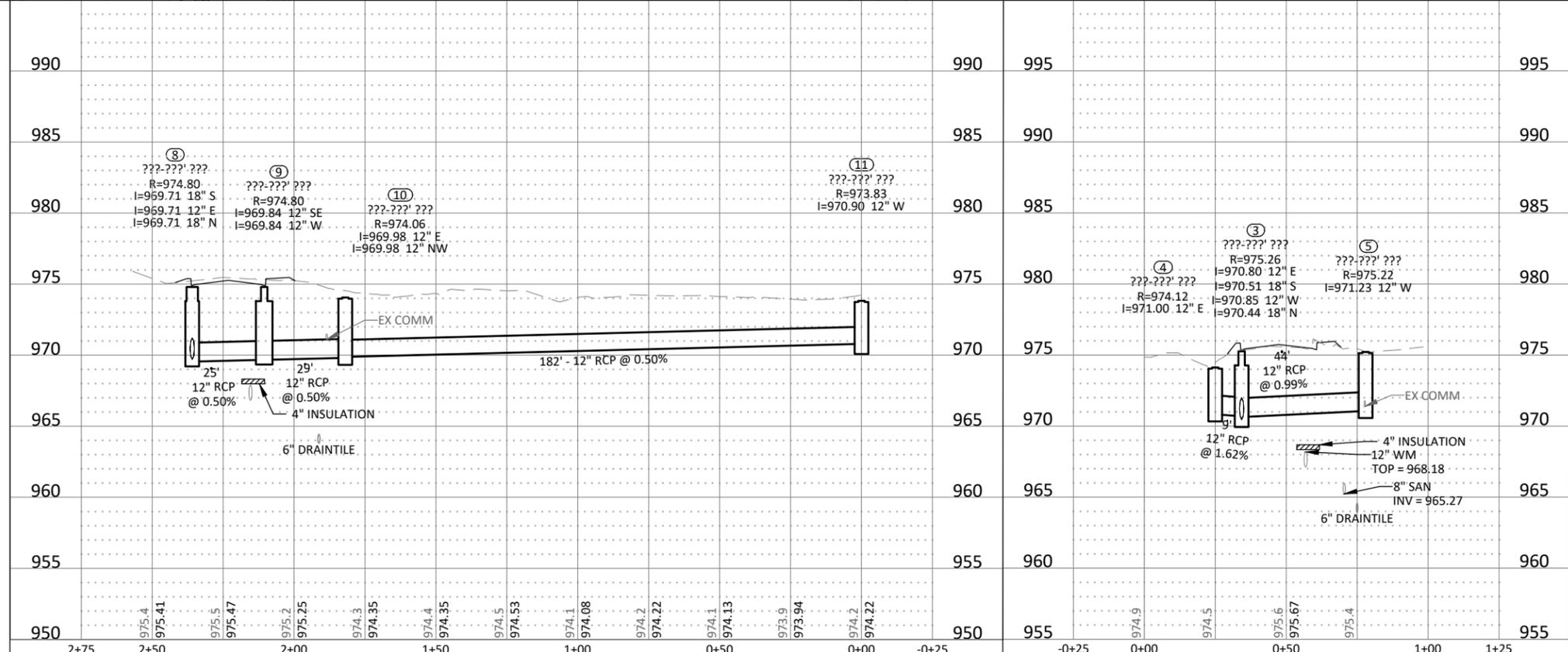
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 STORM SEWER PLAN & PROFILE

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CITY OF SHOREWOOD

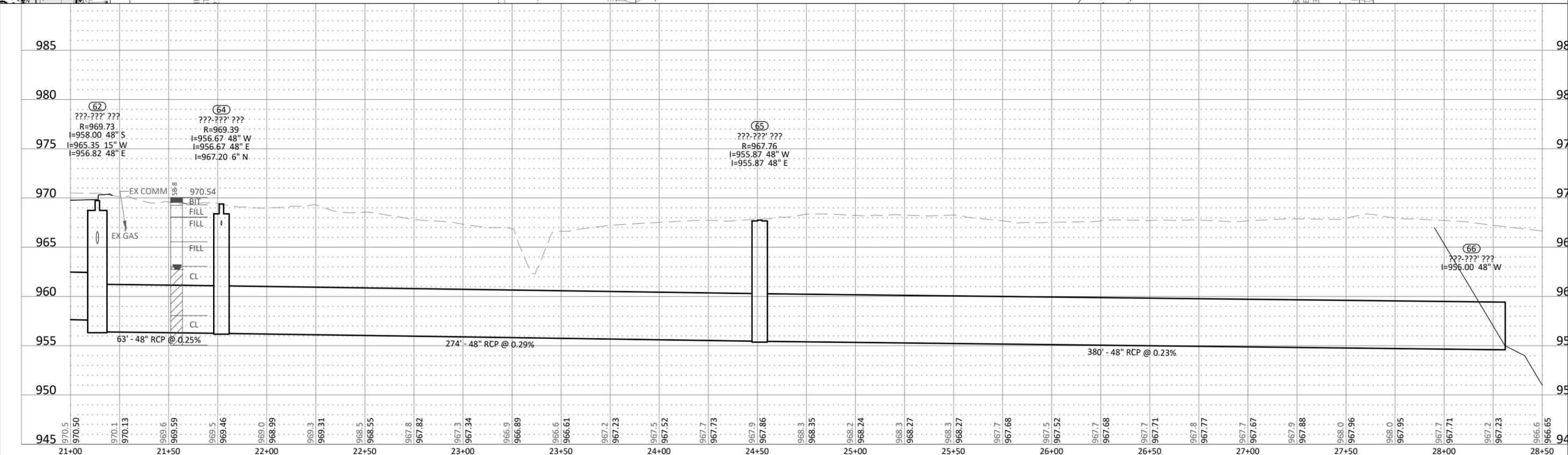
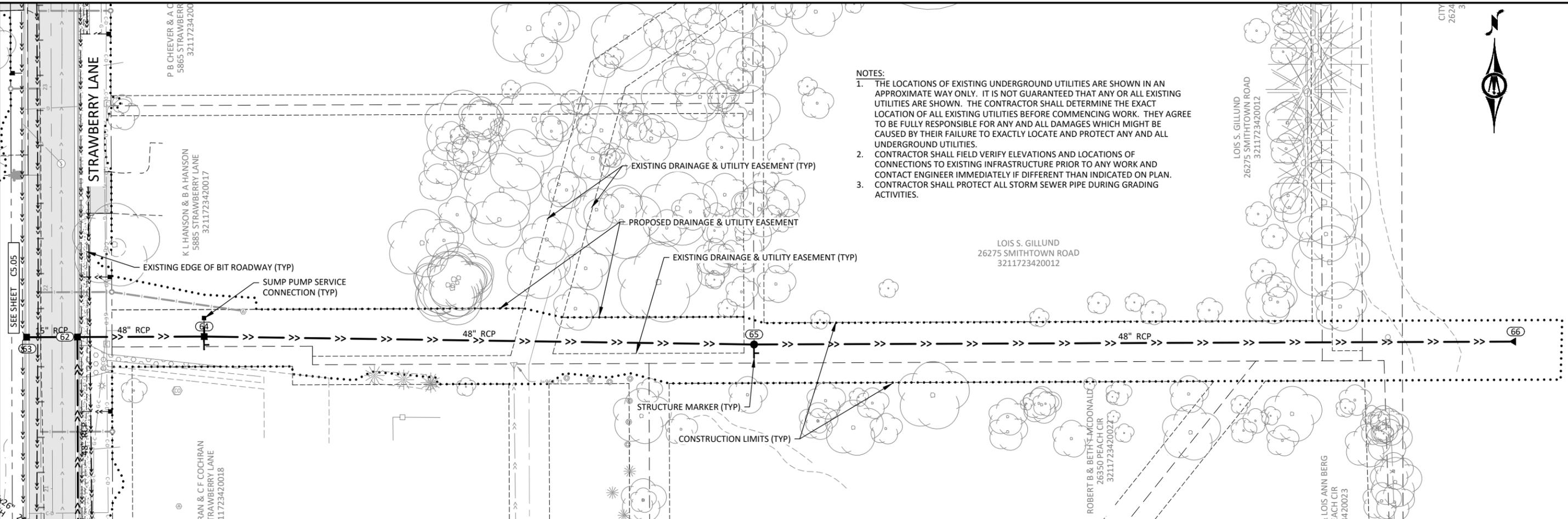
STRAWBERRY LANE RECONSTRUCTION

STORM SEWER PLAN & PROFILE

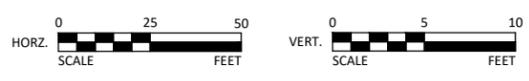
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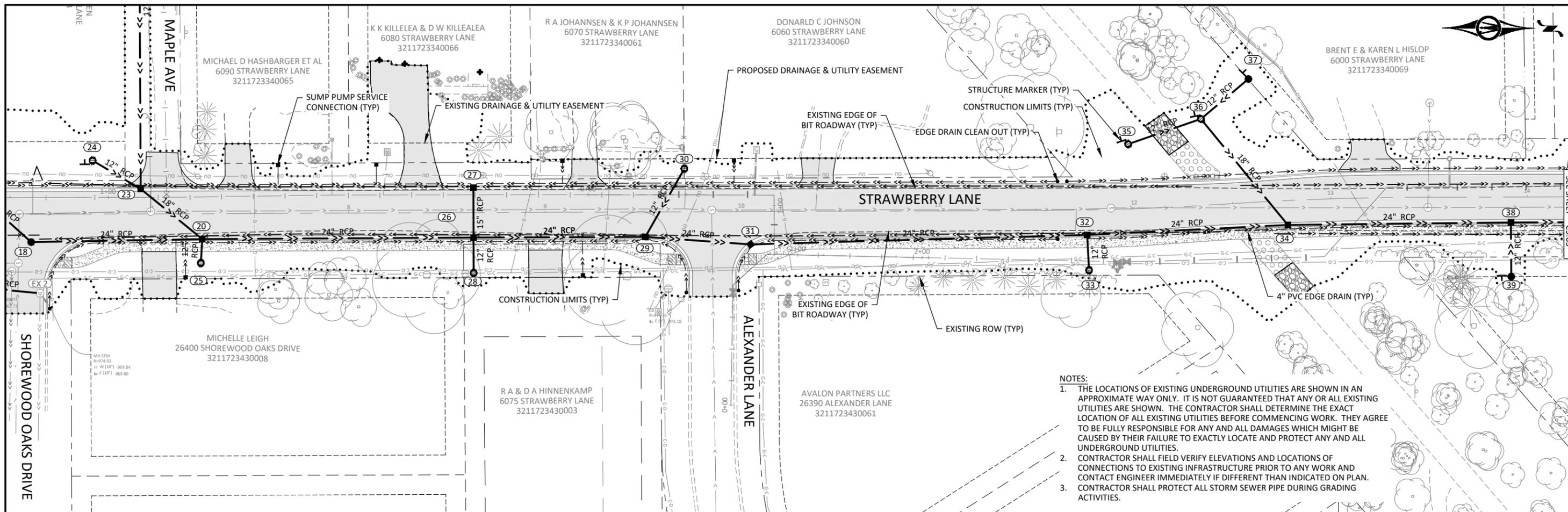
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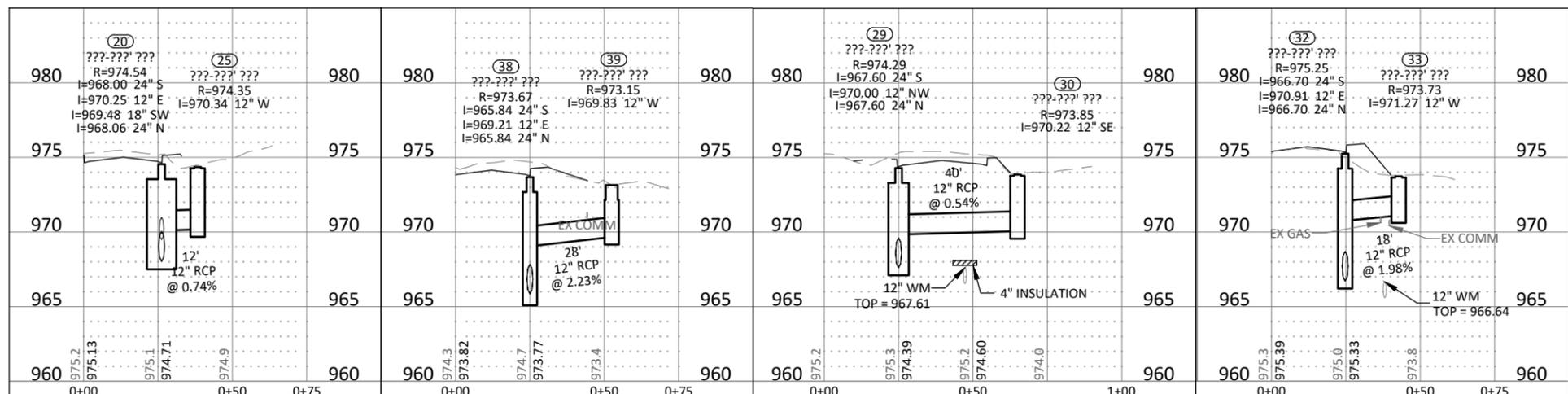
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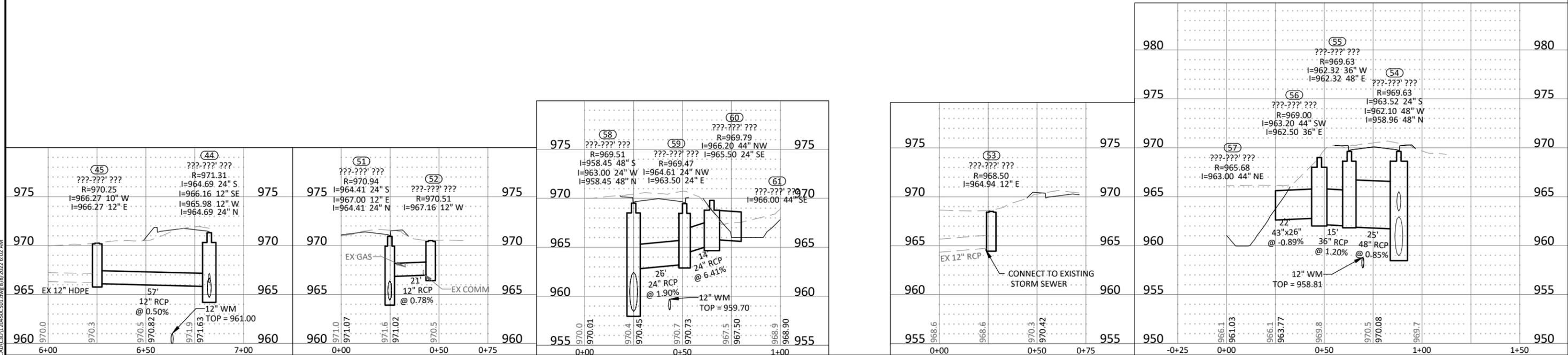
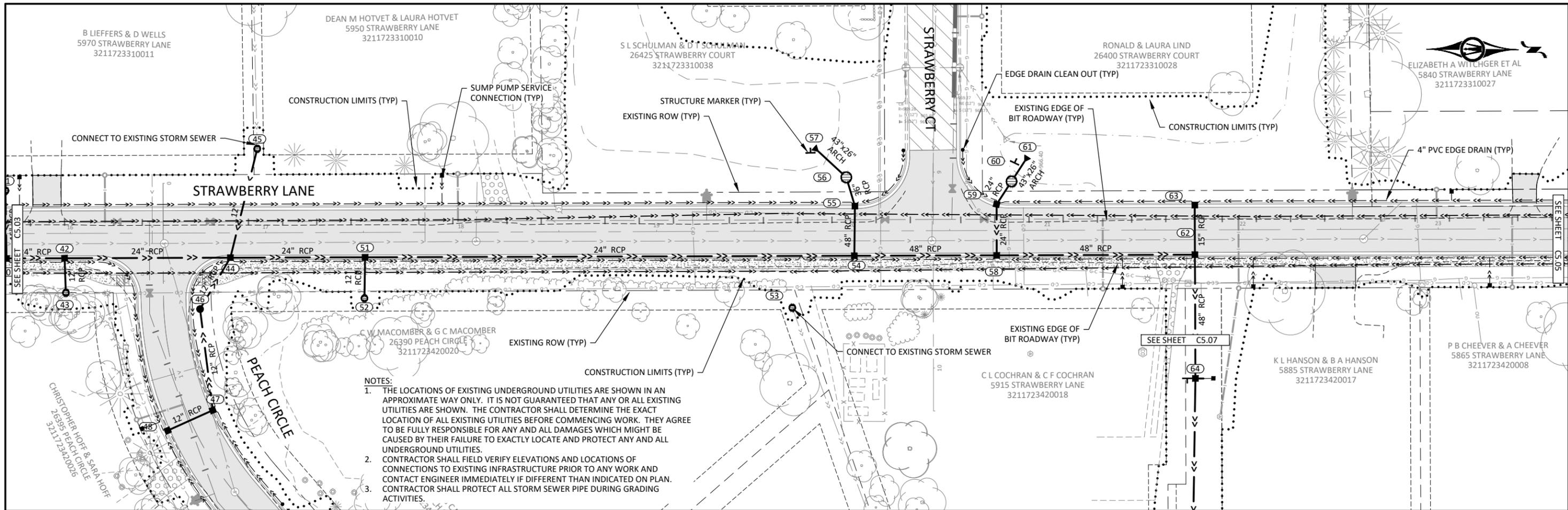
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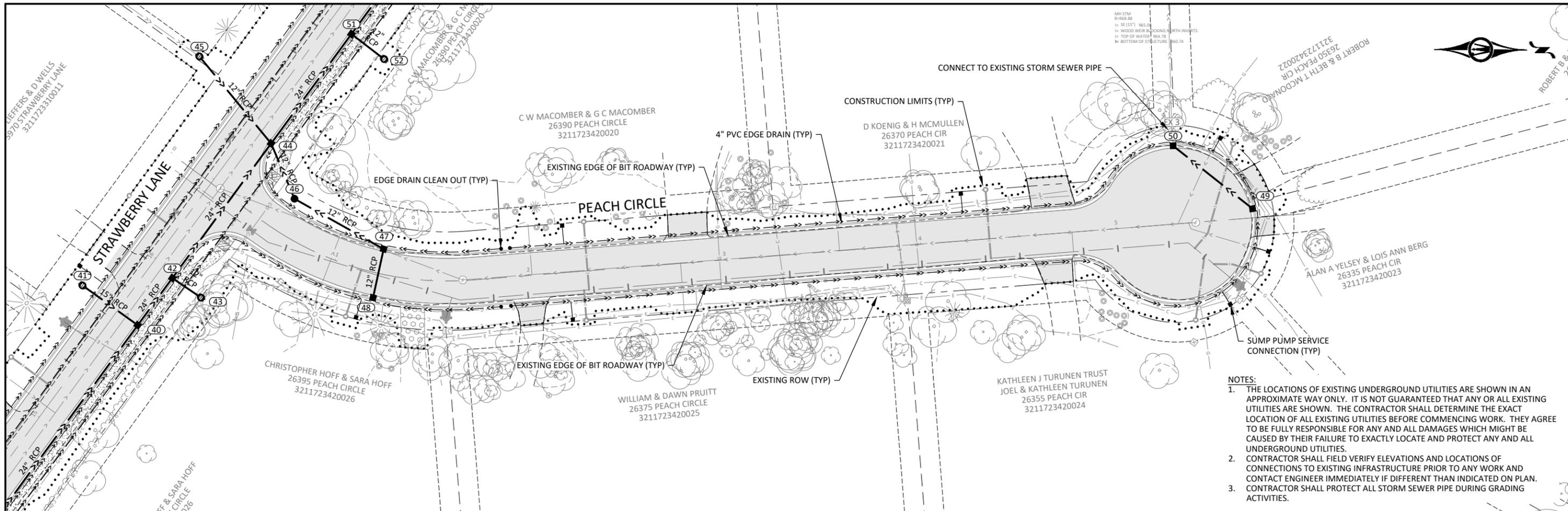
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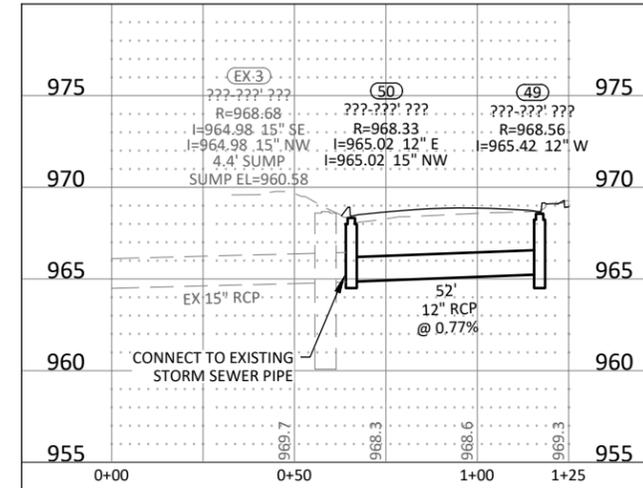
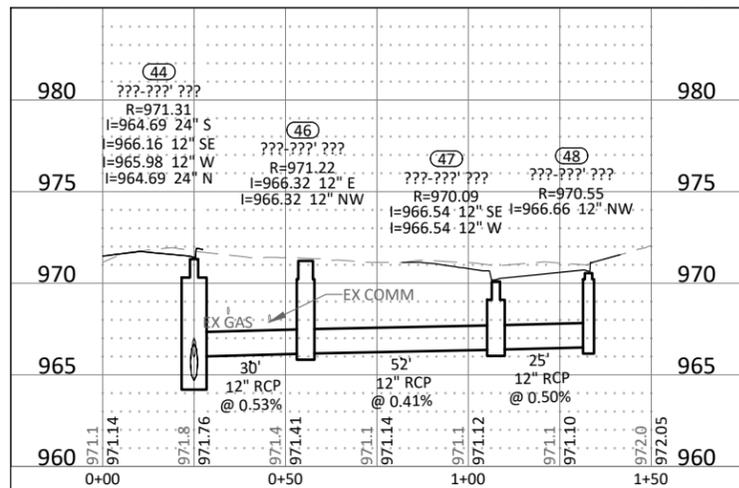
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STRAWBERRY LANE RECONSTRUCTION
STORM SEWER PLAN & PROFILE

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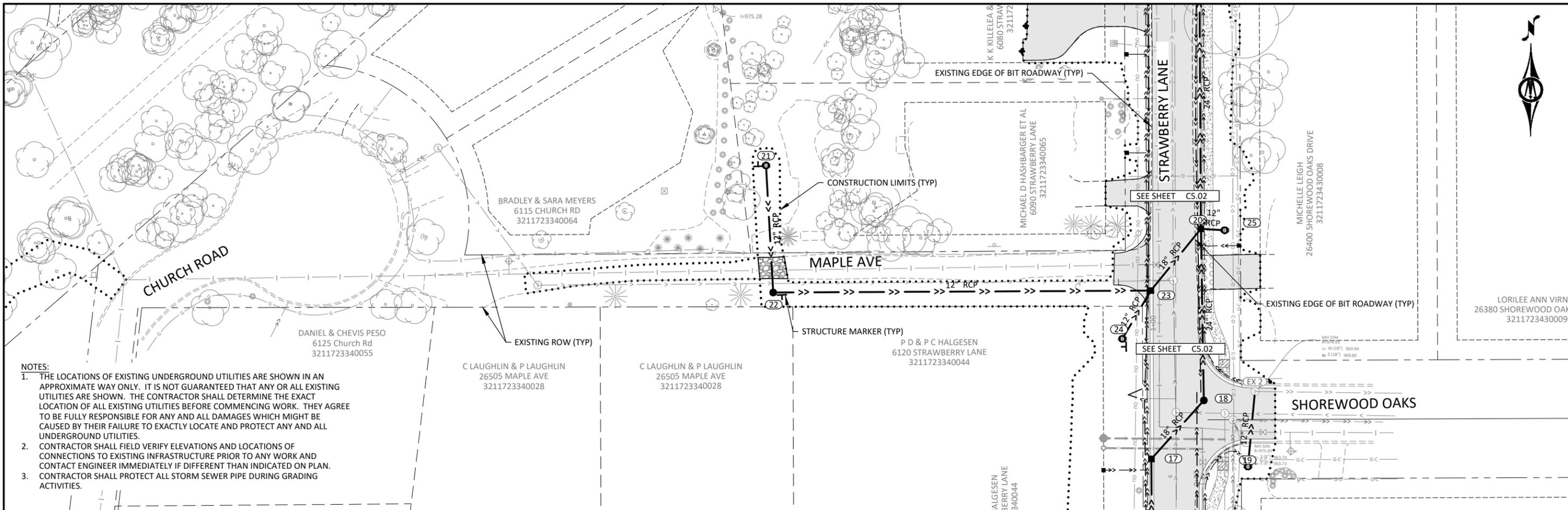
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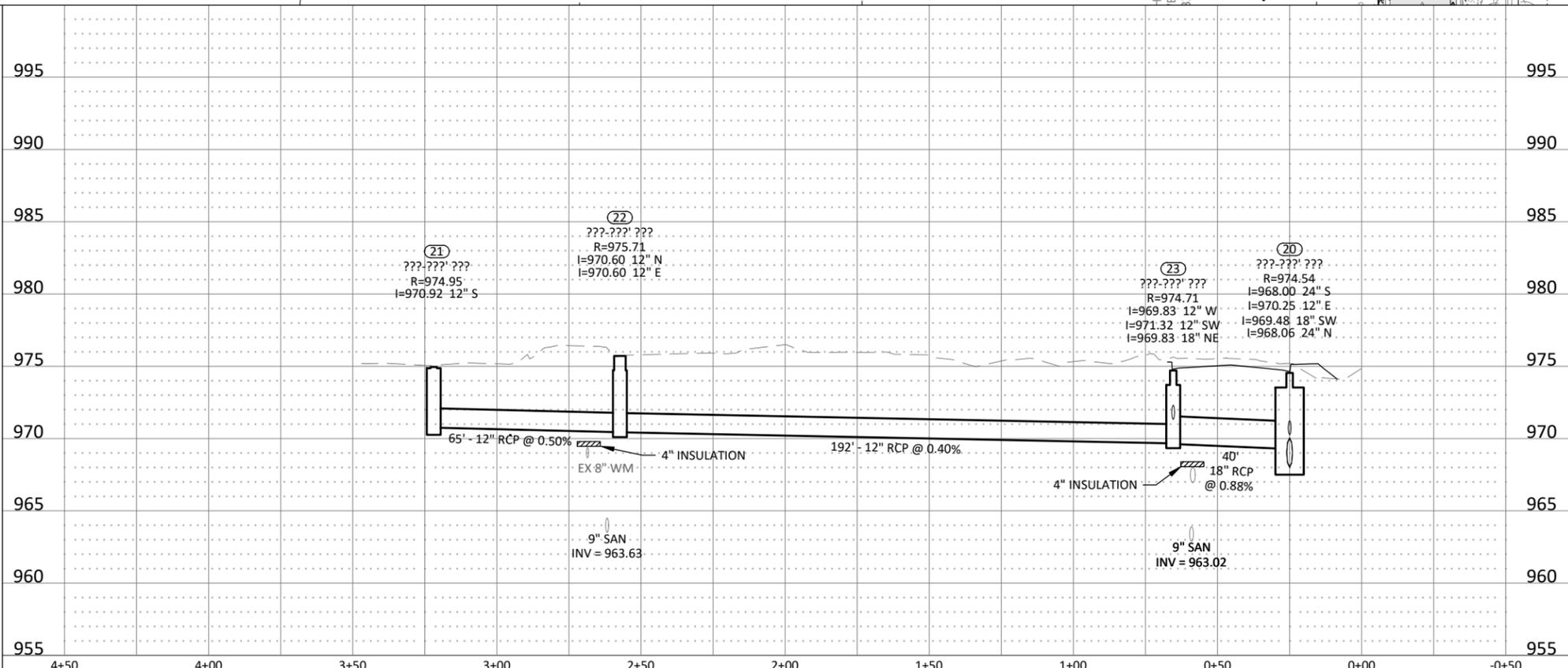
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C5.10



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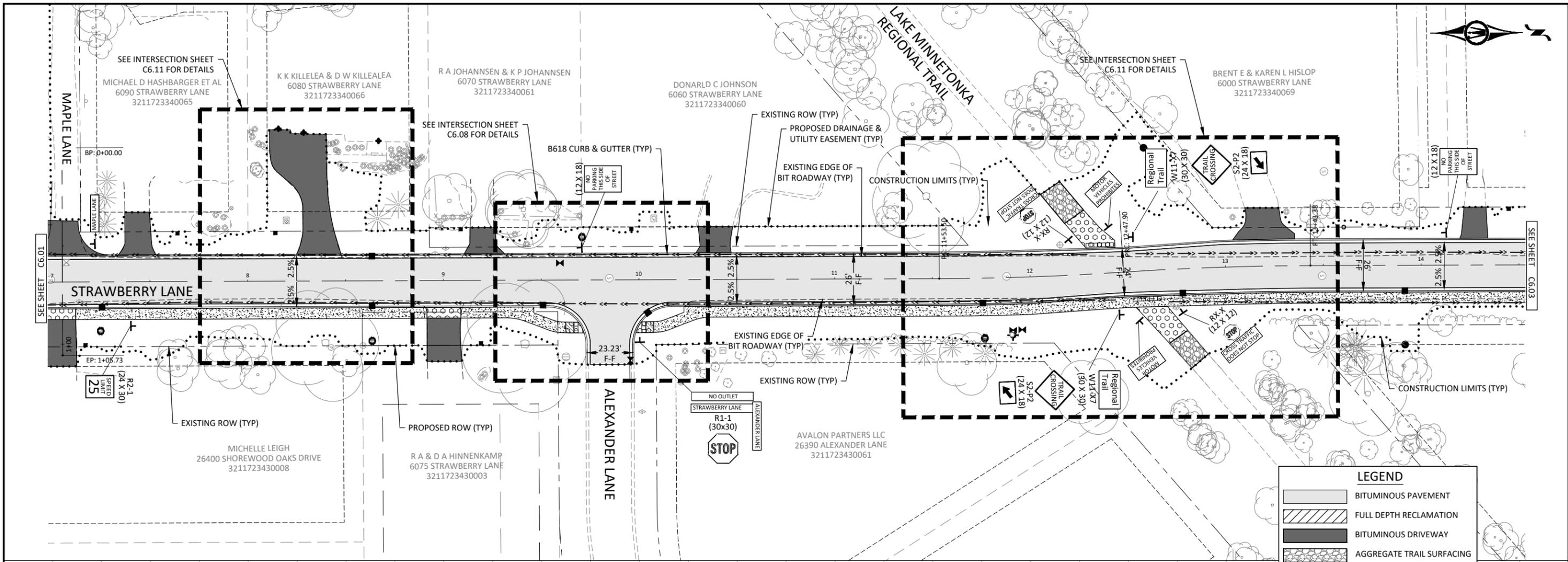
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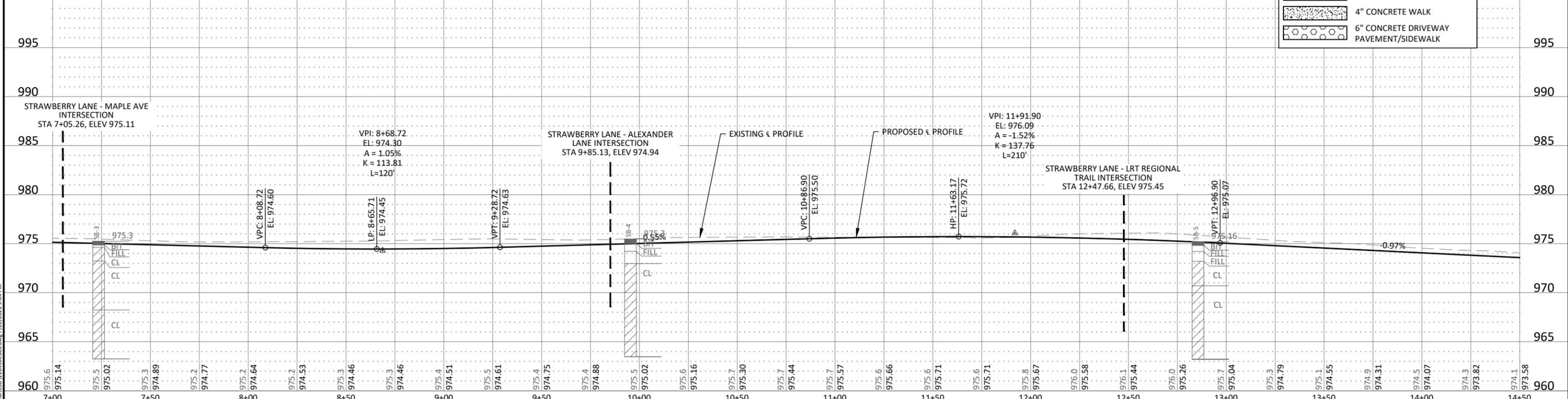
CITY OF SHOREWOOD
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 STORM SEWER PLAN & PROFILE

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LEGEND

	BITUMINOUS PAVEMENT
	FULL DEPTH RECLAMATION
	BITUMINOUS DRIVEWAY
	AGGREGATE TRAIL SURFACING
	4" CONCRETE WALK
	6" CONCRETE DRIVEWAY PAVEMENT/SIDEWALK



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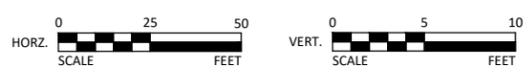
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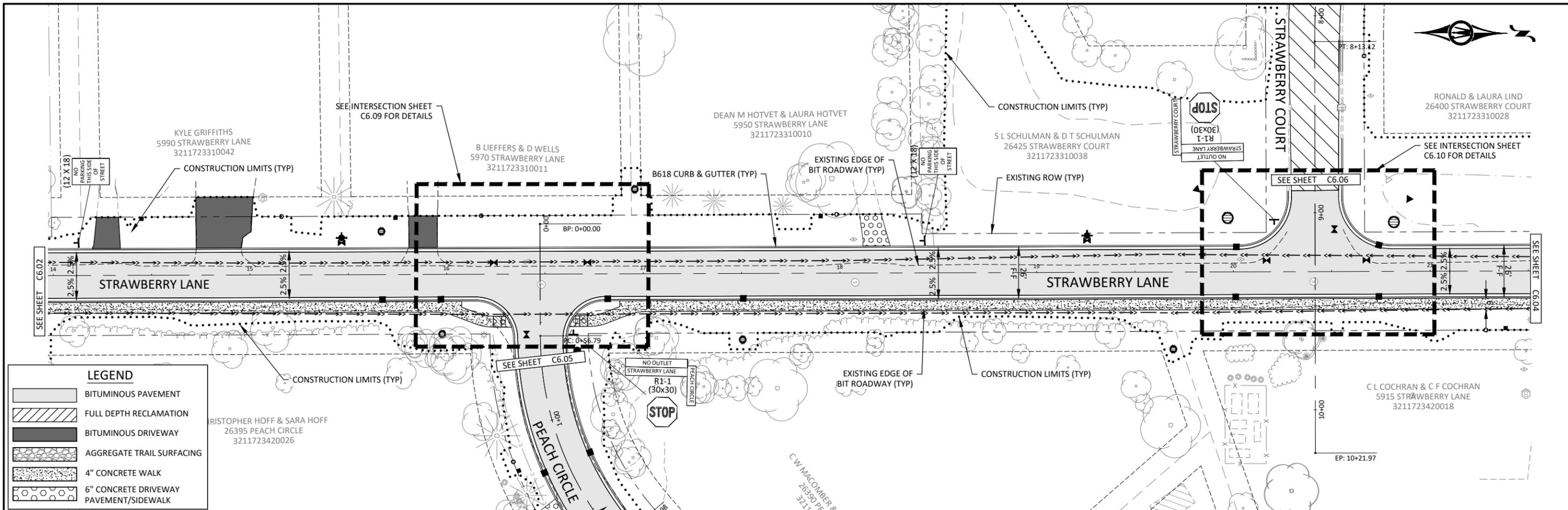
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STRAWBERRY LANE RECONSTRUCTION
STREET PLAN & PROFILE-STRAWBERRY LANE

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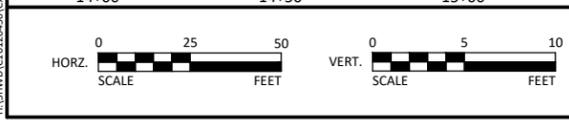
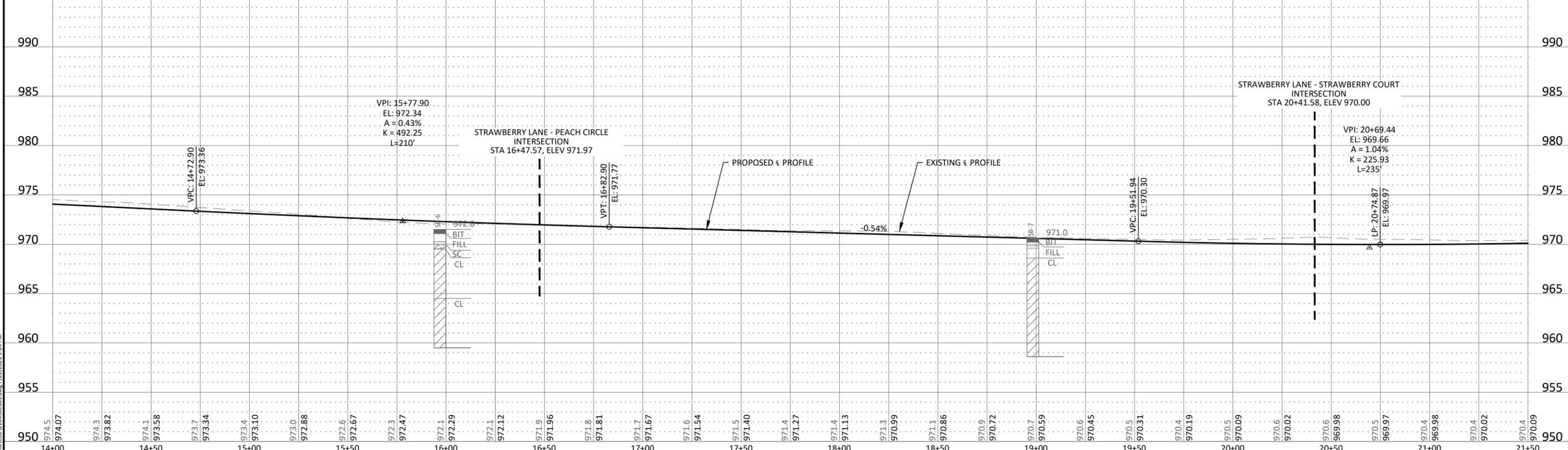


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LEGEND

	BITUMINOUS PAVEMENT
	FULL DEPTH RECLAMATION
	BITUMINOUS DRIVEWAY
	AGGREGATE TRAIL SURFACING
	4" CONCRETE WALK
	6" CONCRETE DRIVEWAY PAVEMENT/SIDEWALK



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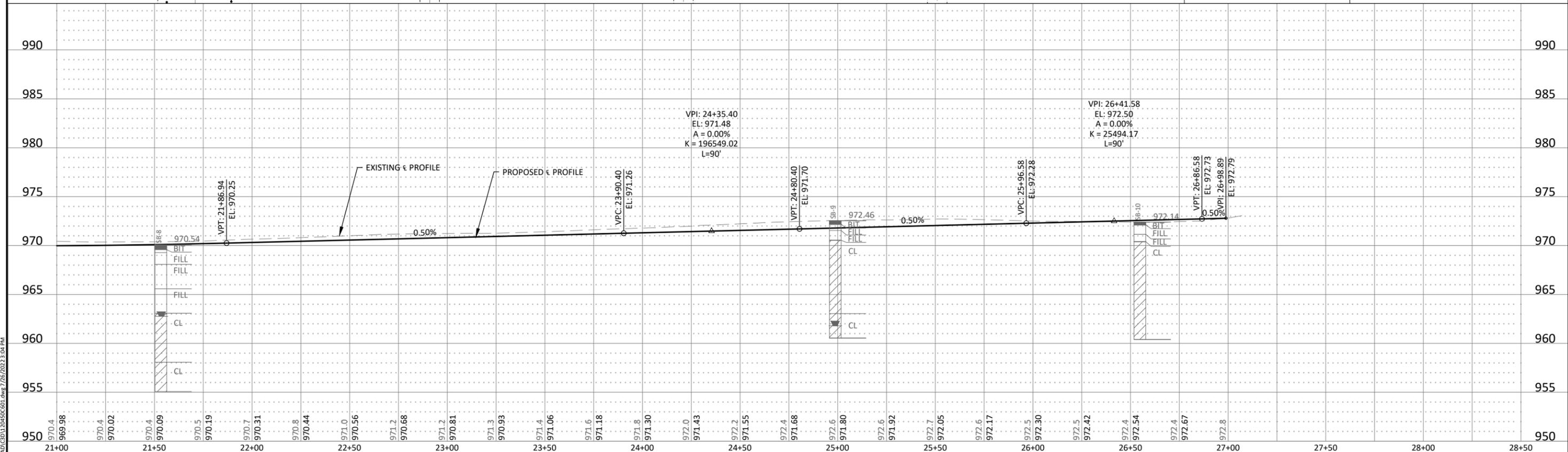
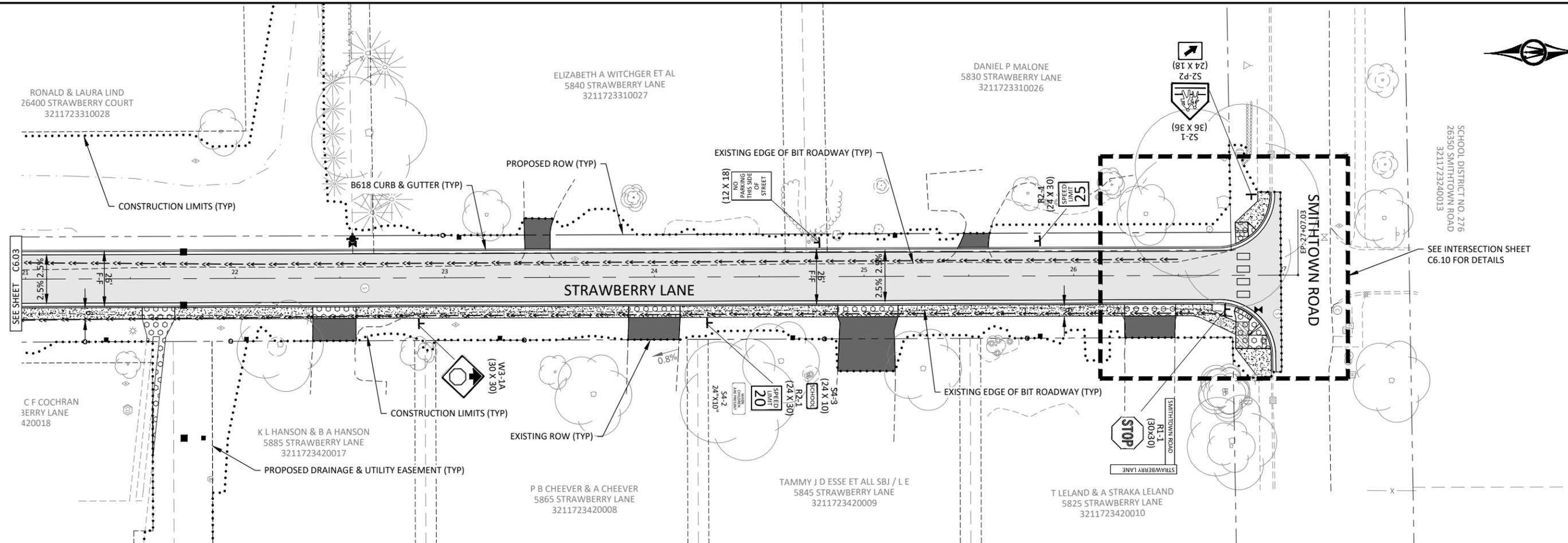
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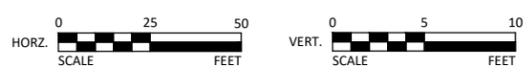
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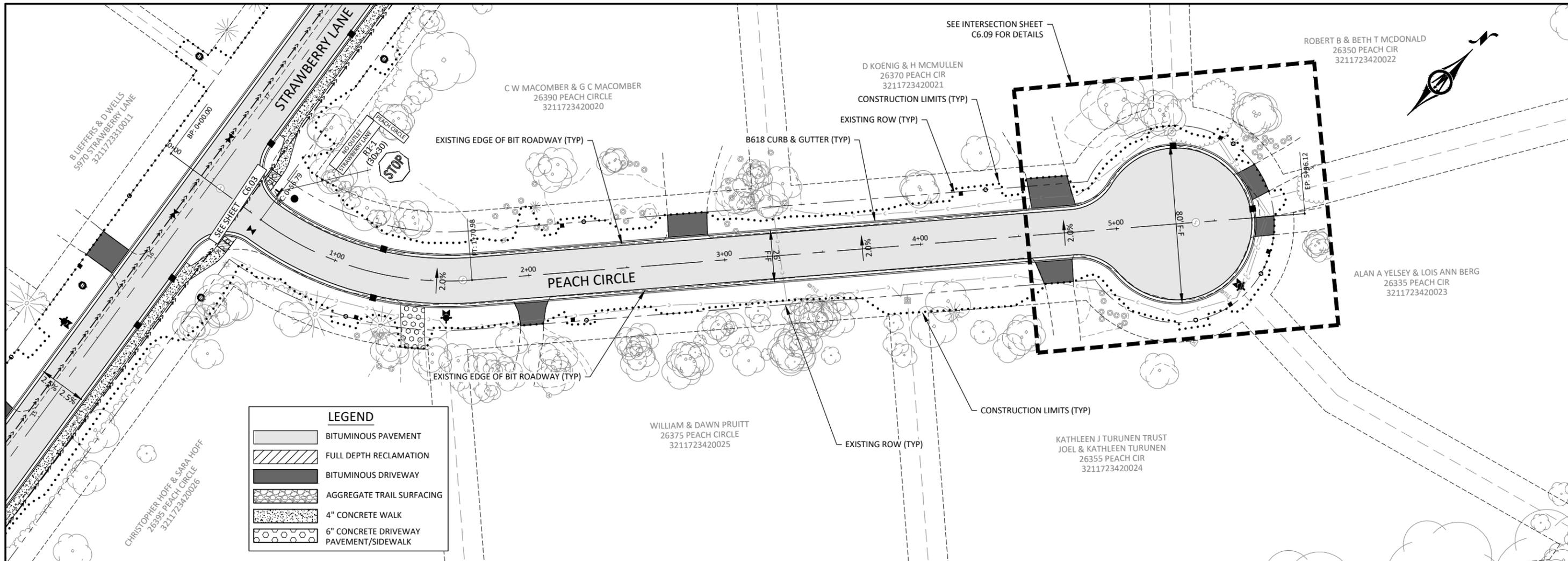
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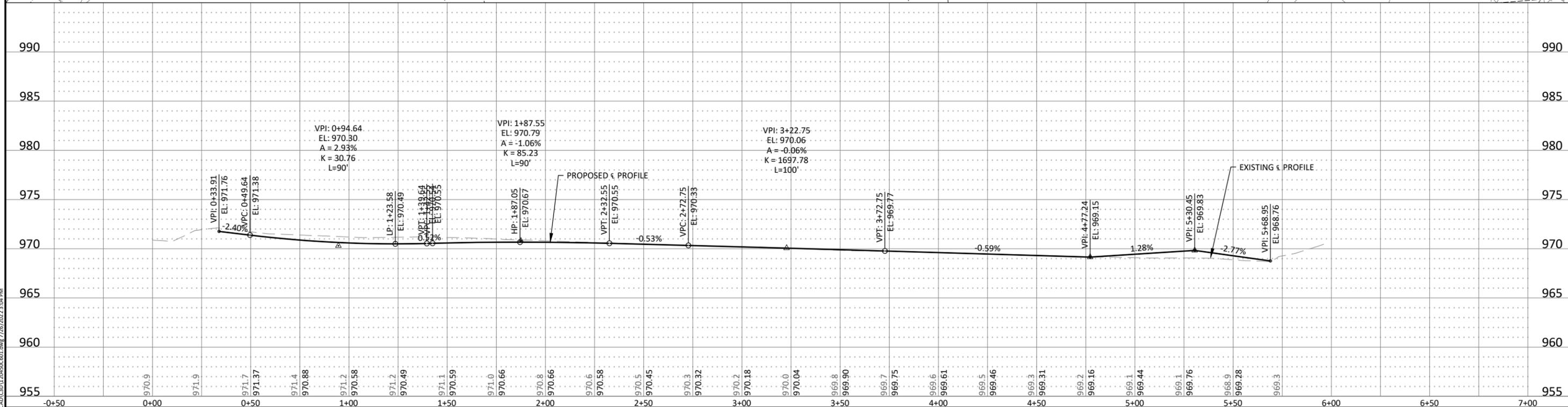
CITY OF SHOREWOOD
 STRAWBERRY LANE RECONSTRUCTION
 STREET PLAN & PROFILE-STRAWBERRY LANE

SHEET
C6.04



LEGEND

	BITUMINOUS PAVEMENT
	FULL DEPTH RECLAMATION
	BITUMINOUS DRIVEWAY
	AGGREGATE TRAIL SURFACING
	4" CONCRETE WALK
	6" CONCRETE DRIVEWAY PAVEMENT/SIDEWALK



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26400 STRAWBERRY COURT
3211723310028

JAMES R & NANCY ADSEM
26600 STRAWBERRY CT
3211723310032

J SCHNEIDER & LEAH SCHNEIDER
26550 STRAWBERRY CT
3211723310031

RODNEY & MARILYN SCHWARTZ
26500 STRAWBERRY CT
3211723310030

LAVENA WILHELM
26450 STRAWBERRY CT
3211723310029

STEVEN C & SHIRLEY D GUZZI
26650 STRAWBERRY CT
3211723310033

RICK & REBECCA MARSHALL
26525 STRAWBERRY CT
3211723310036

DALE A & ANN R WOODBECK
26475 STRAWBERRY CT
3211723310037

S L SCHULMAN & D T SCHULMAN
26425 STRAWBERRY COURT
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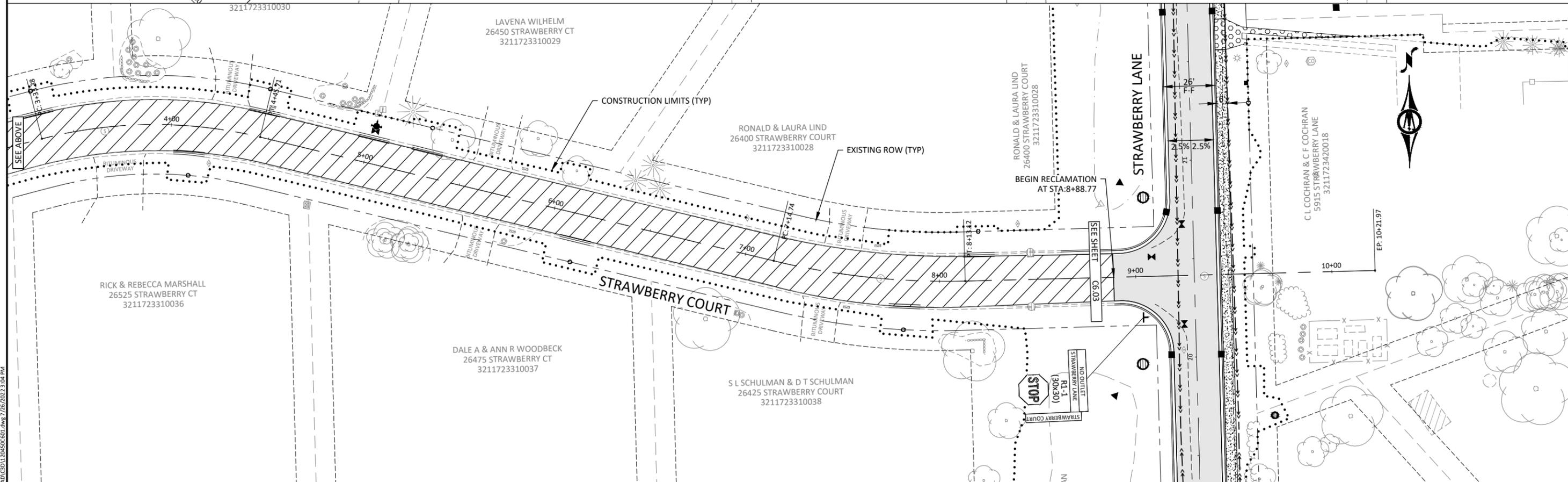
RICHARD J & SUSAN J LANDA
26575 STRAWBERRY CT
3211723310035

MILLER & KAM MILLER
26625 STRAWBERRY CT
3211723310034

LEGEND

-  BITUMINOUS PAVEMENT
-  FULL DEPTH RECLAMATION
-  BITUMINOUS DRIVEWAY
-  AGGREGATE TRAIL SURFACING
-  4" CONCRETE WALK
-  6" CONCRETE DRIVEWAY PAVEMENT/SIDEWALK

NOTES:
1. RECONSTRUCT DAMAGED/DEFECTIVE CURB & GUTTER AT THE DISCRETION OF FIELD ENGINEER.



C L COCHRAN & C COCHRAN
5915 STRAWBERRY LANE
3211723420018

RONALD & LAURA LIND
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3211723310036

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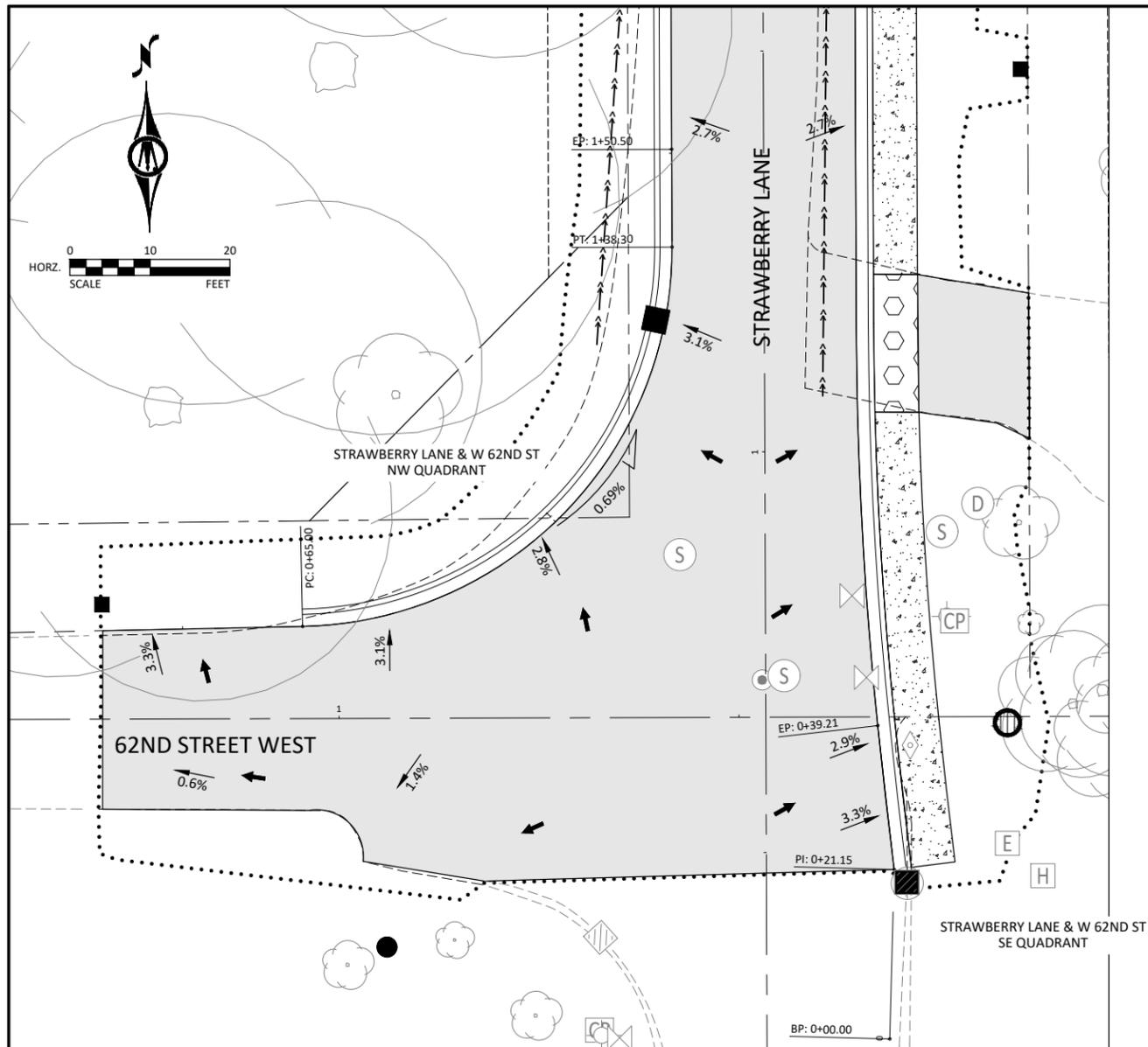
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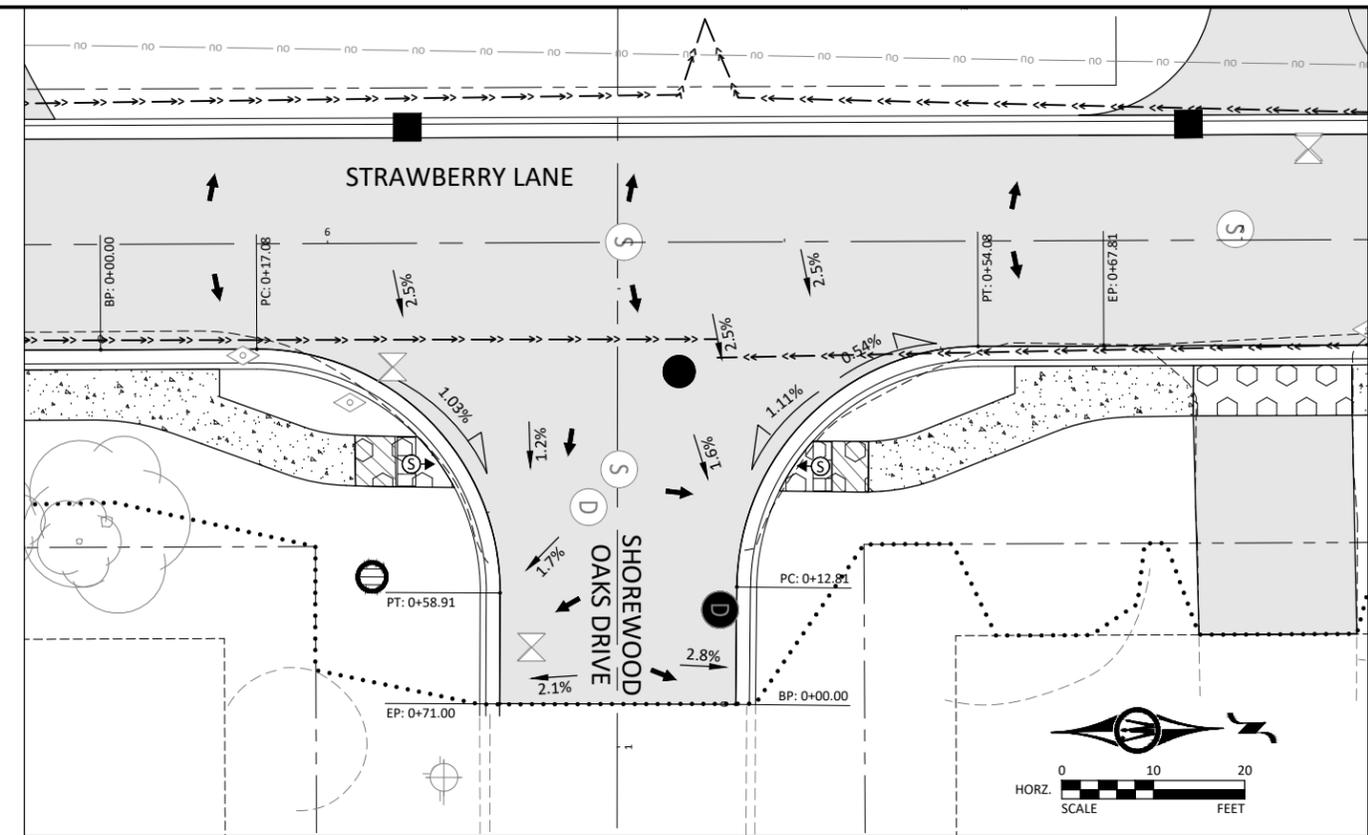
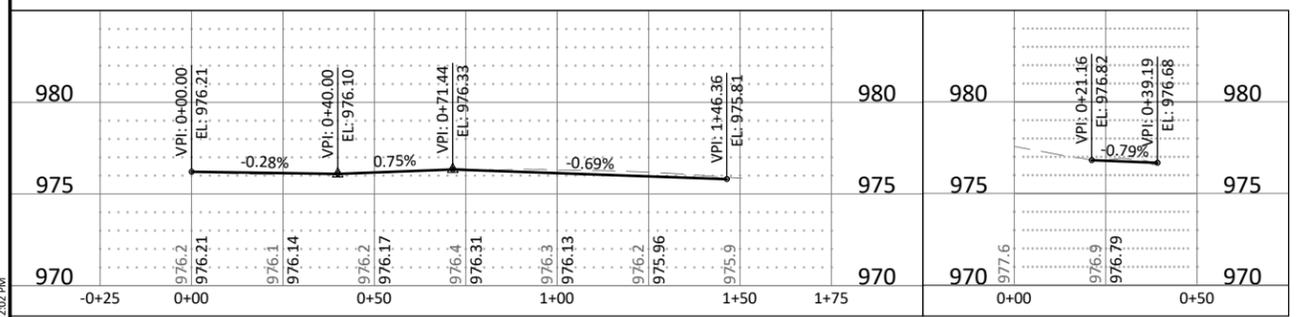
CITY OF SHOREWOOD
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STRAWBERRY COURT FULL DEPTH RECLAMATION

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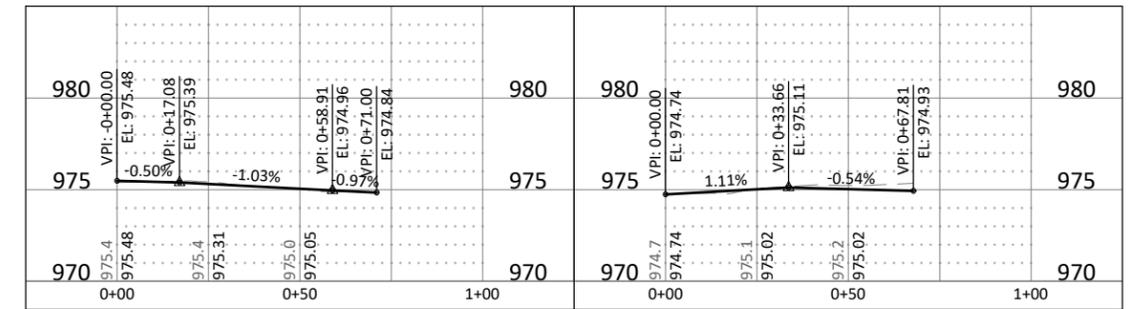
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STRAWBERRY LANE & W 62ND ST NW QUADRANT STRAWBERRY LANE & W 62ND ST SE QUADRANT



STRAWBERRY LANE & SHOREWOOD OAKS DR SE QUADRANT STRAWBERRY LANE & SHOREWOOD OAKS DR NE QUADRANT

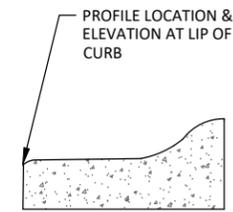


LEGEND

- $\text{---} \times \text{---} \text{---}$ DRAINAGE GRADE
- XXX.XX SPOT ELEVATION
- CONSTRUCT CONCRETE CURB & GUTTER
- PROPOSED DRAINAGE STRUCTURE
- PROPOSED HYDRANT
- PROPOSED VALVE
- EXISTING DRAINAGE STRUCTURE
- EXISTING VALVE

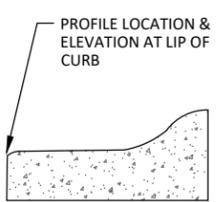
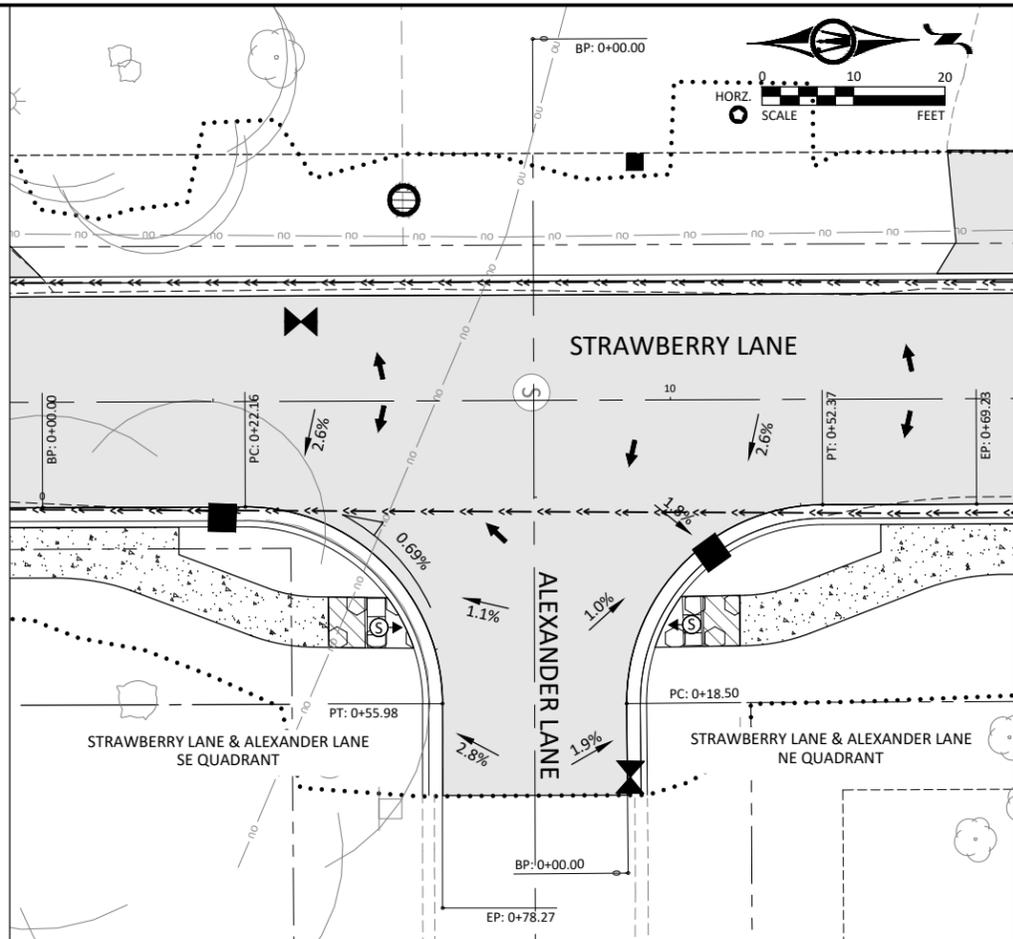
PEDESTRIAN RAMP LEGEND

- LANDING AREA - 4' X 4' MIN. DIMENSIONS AND 1.0% OPTIMUM (2.0% MAXIMUM) SLOPE IN ALL DIRECTIONS
- TRANSITION PANEL(S) - TO BE USED FOR TRANSITIONING THE CROSS-SLOPE OF A RAMP TO THE EXISTING WALK CROSS-SLOPE. RATE OF TRANSITION SHOULD BE 0.5% PER 1 LINEAR FOOT OF WALK.
- PEDESTRIAN RAMP SLOPE SHALL BE 4.0% OPTIMUM (2.0% MIN. AND 5.0% MAX.) IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL BE 1.5% OPTIMUM (2.0% MAX.)
- PEDESTRIAN RAMP SLOPE SHALL BE 7.0% OPTIMUM (5.0% MIN. AND 8.3% MAX.) IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL BE 1.5% OPTIMUM (2.0% MAX.)
- X" CURB HEIGHT
- TRUNCATED DOMES (SEE MnDOT STANDARD PLATE 7038)



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LEGEND	
← X.X%	DRAINAGE GRADE
×XXX.XX	SPOT ELEVATION
====	CONSTRUCT CONCRETE CURB & GUTTER
■	PROPOSED DRAINAGE STRUCTURE
⊗	PROPOSED HYDRANT
⊗	PROPOSED VALVE
□	EXISTING DRAINAGE STRUCTURE
⊗	EXISTING VALVE

STRAWBERRY LANE & ALEXANDER LANE SE QUADRANT

STRAWBERRY LANE & ALEXANDER LANE NE QUADRANT

985		985	985	985		985		
980		980	980	980		980		
975	VPI: 0+00.01 EL: 974.35	VPI: 0+22.16 EL: 974.48	VPI: 0+56.46 EL: 974.72	VPI: 0+55.98 EL: 974.69	VPI: 0+07.83 EL: 974.90	VPI: 0+37.50 EL: 974.62	VPI: 0+50.16 EL: 974.82	VPI: 0+69.23 EL: 974.92
970								
965	975.3	975.32	975.4	975.41	974.7	974.69	975.0	975.01
	-0+25	0+00	0+50	1+00	-0+25	0+00	0+50	1+00

PEDESTRIAN RAMP LEGEND	
	LANDING AREA - 4' X 4' MIN. DIMENSIONS AND 1.0% OPTIMUM (2.0% MAXIMUM) SLOPE IN ALL DIRECTIONS
	TRANSITION PANEL(S) - TO BE USED FOR TRANSITIONING THE CROSS-SLOPE OF A RAMP TO THE EXISTING WALK CROSS-SLOPE. RATE OF TRANSITION SHOULD BE 0.5% PER 1 LINEAR FOOT OF WALK.
	PEDESTRIAN RAMP SLOPE SHALL BE 4.0% OPTIMUM (2.0% MIN. AND 5.0% MAX.) IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL BE 1.5% OPTIMUM (2.0% MAX.)
	PEDESTRIAN RAMP SLOPE SHALL BE 7.0% OPTIMUM (5.0% MIN. AND 8.3% MAX.) IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL BE 1.5% OPTIMUM (2.0% MAX.)
X"	CURB HEIGHT
	TRUNCATED DOMES (SEE MnDOT STANDARD PLATE 7038)

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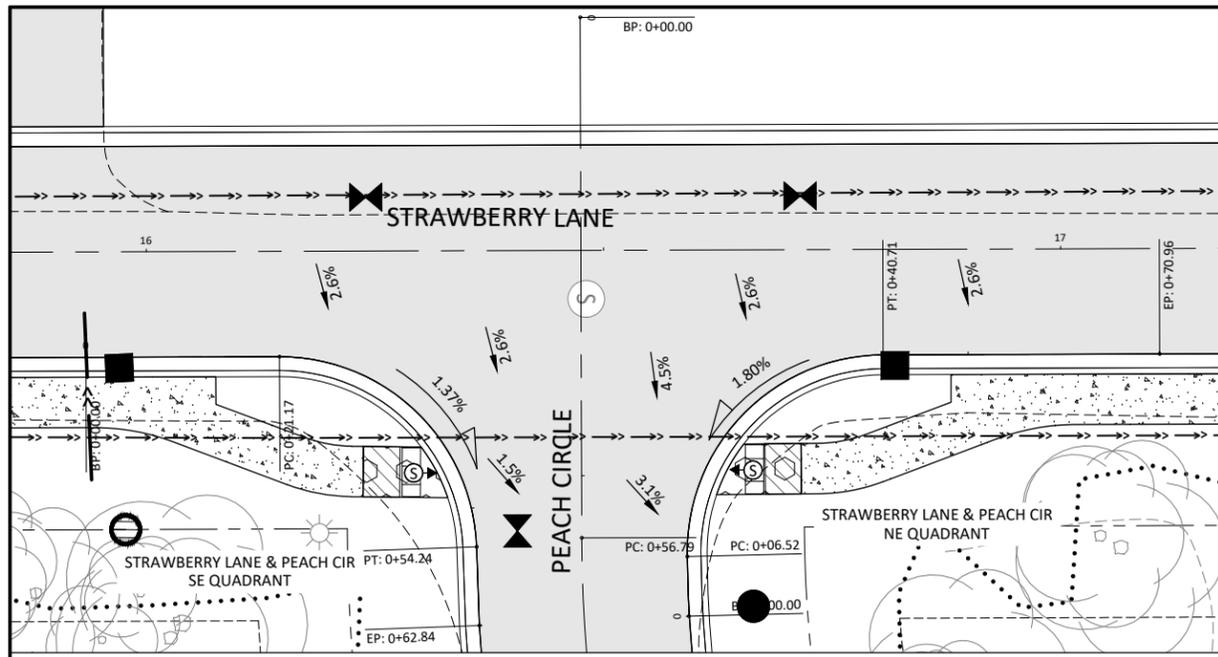
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Email: Chaska@bolton-menk.com
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CITY OF SHOREWOOD
STRAWBERRY LANE RECONSTRUCTION
INTERSECTION DETAILS

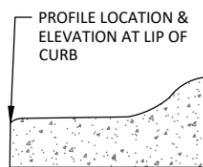
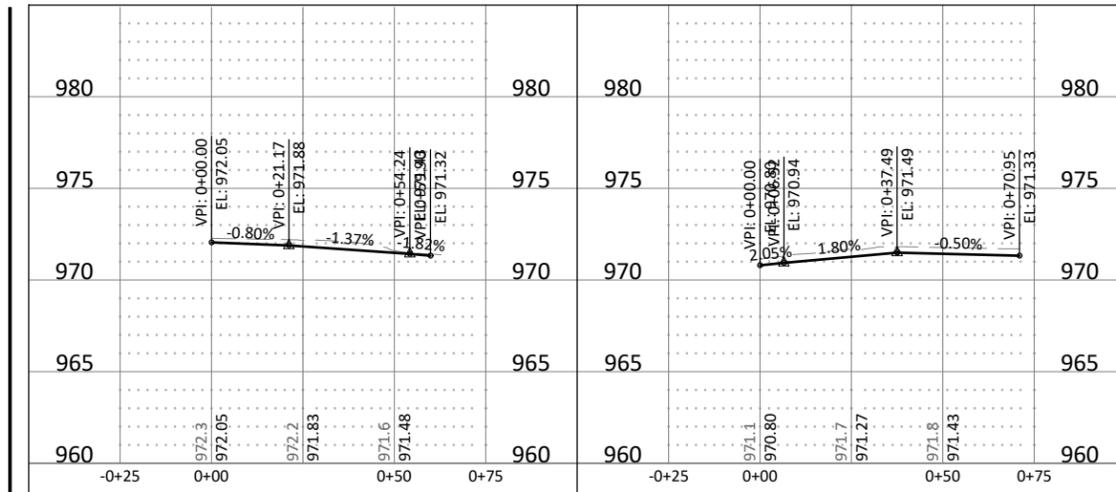
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STRAWBERRY LANE & PEACH CIR SE QUADRANT

STRAWBERRY LANE & PEACH CIR NE QUADRANT

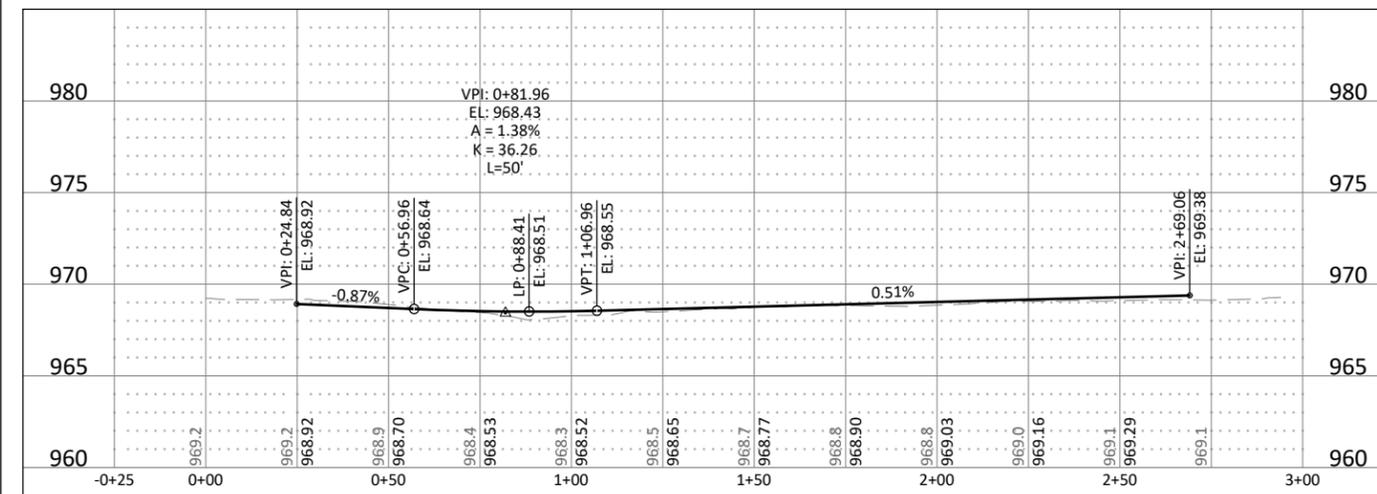
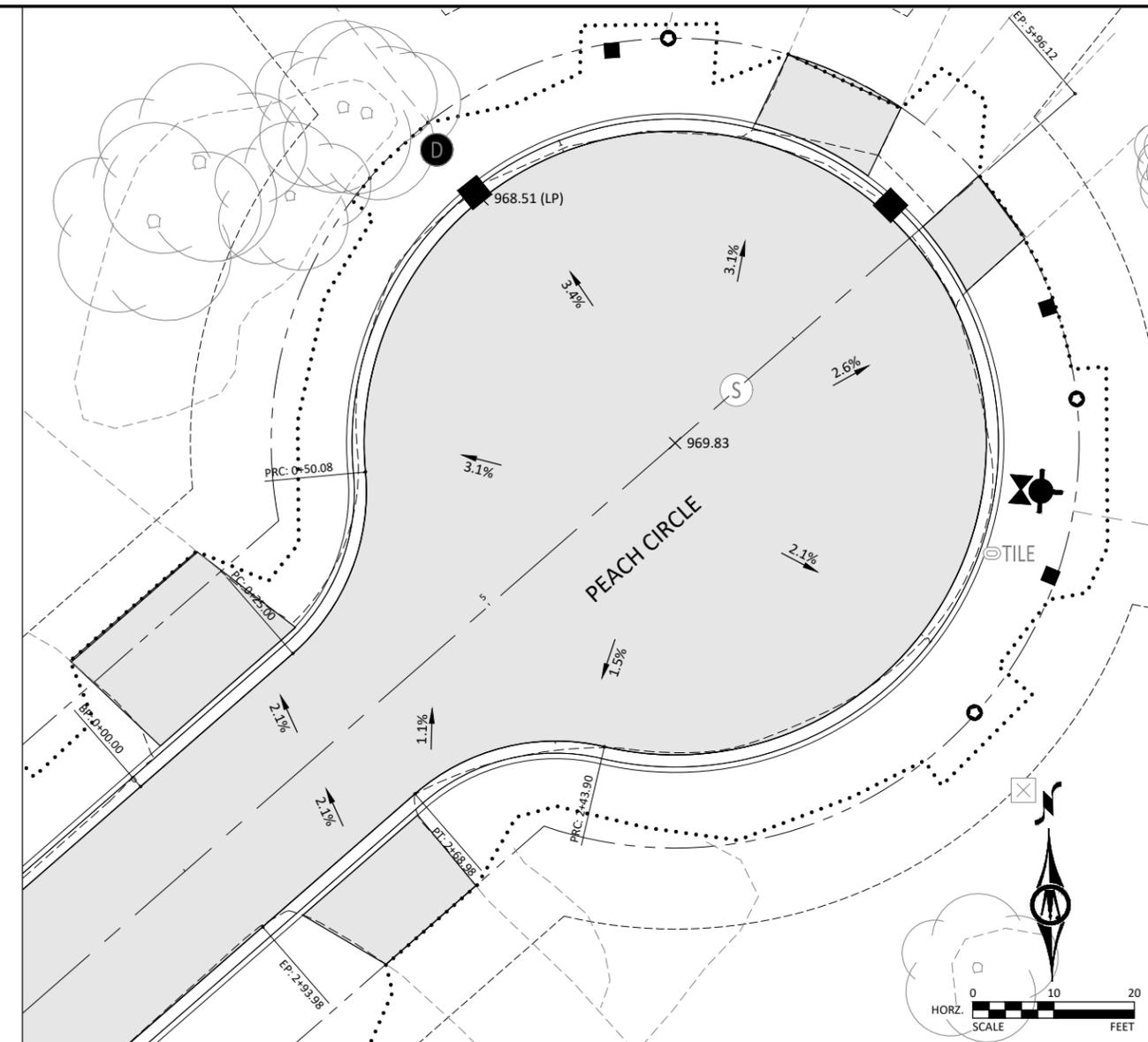


LEGEND

PEDESTRIAN RAMP LEGEND

	LANDING AREA - 4' X 4' MIN. DIMENSIONS AND 1.0% OPTIMUM (2.0% MAXIMUM) SLOPE IN ALL DIRECTIONS
	TRANSITION PANEL(S) - TO BE USED FOR TRANSITIONING THE CROSS-SLOPE OF A RAMP TO THE EXISTING WALK CROSS-SLOPE. RATE OF TRANSITION SHOULD BE 0.5% PER 1 LINEAR FOOT OF WALK.
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	PEDESTRIAN RAMP SLOPE SHALL BE 7.0% OPTIMUM (5.0% MIN. AND 8.3% MAX.) IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL BE 1.5% OPTIMUM (2.0% MAX.)
X"	CURB HEIGHT
	TRUNCATED DOMES (SEE MnDOT STANDARD PLATE 7038)

	X.X% DRAINAGE GRADE
	×XXX.XX SPOT ELEVATION
	CONSTRUCT CONCRETE CURB & GUTTER
	PROPOSED DRAINAGE STRUCTURE
	PROPOSED HYDRANT
	PROPOSED VALVE
	EXISTING DRAINAGE STRUCTURE
	EXISTING VALVE



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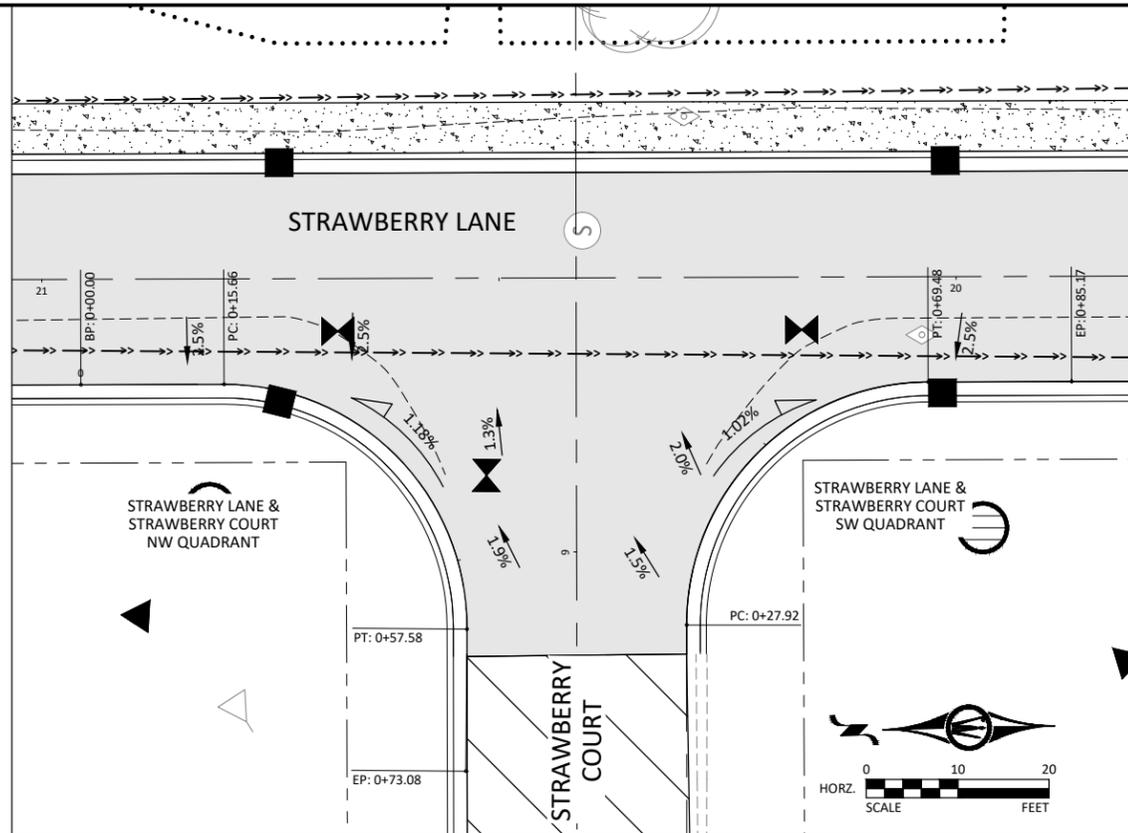


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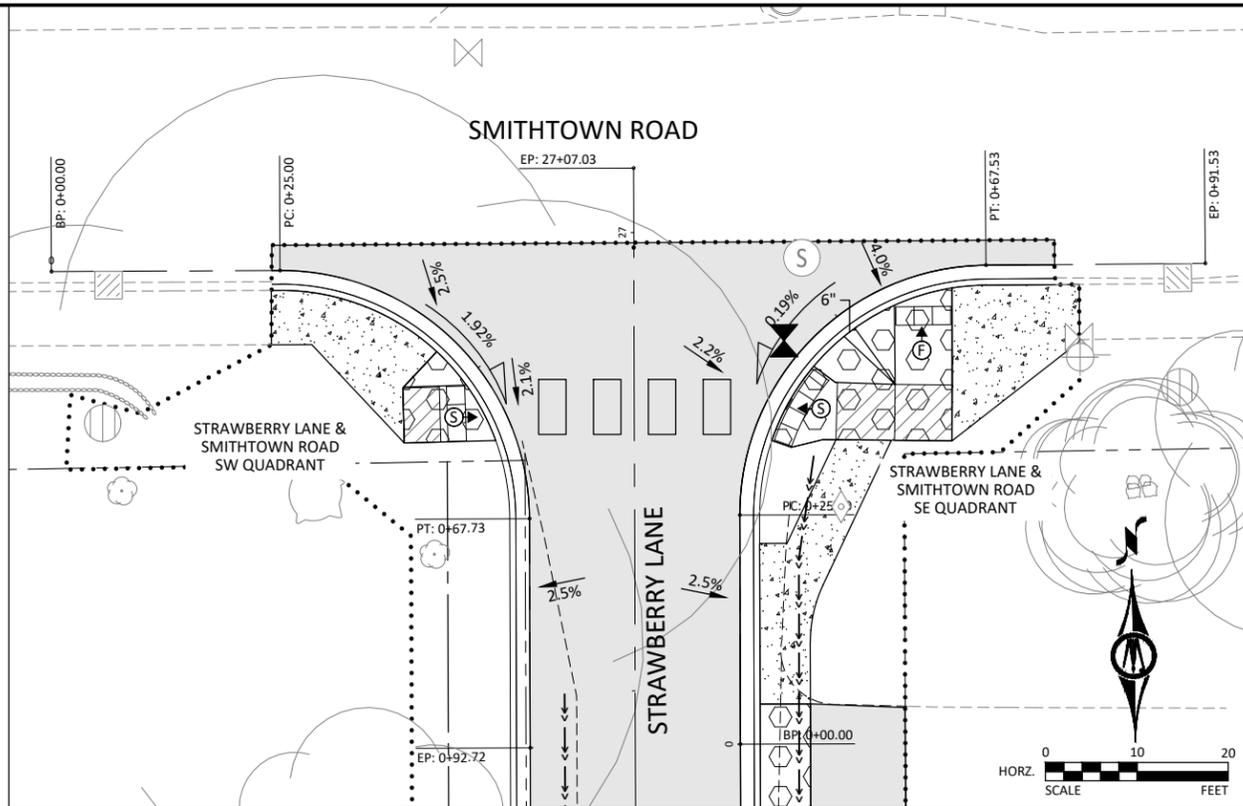
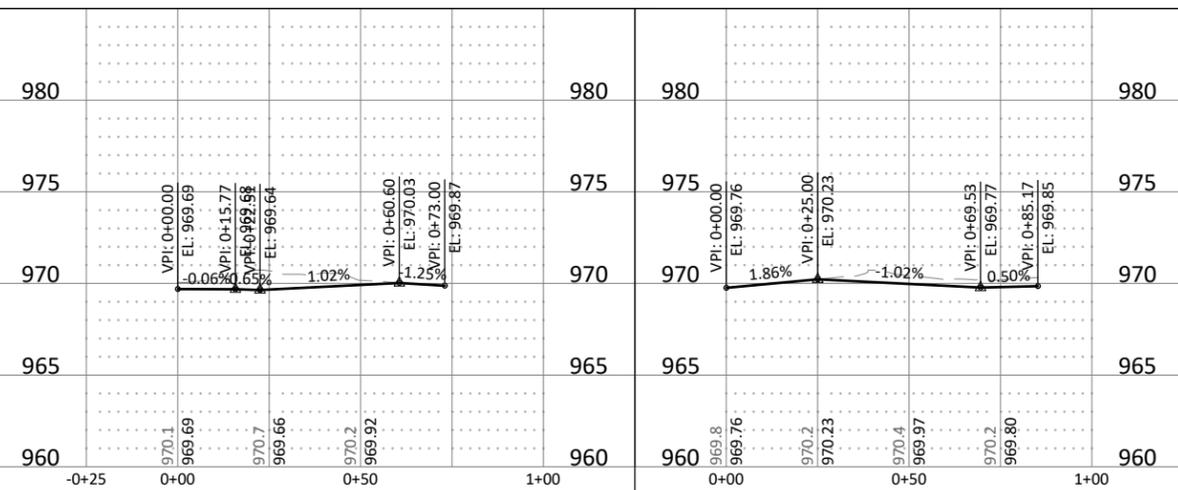
CITY OF SHOREWOOD
STRAWBERRY LANE RECONSTRUCTION
INTERSECTION DETAILS

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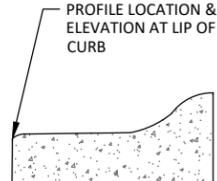
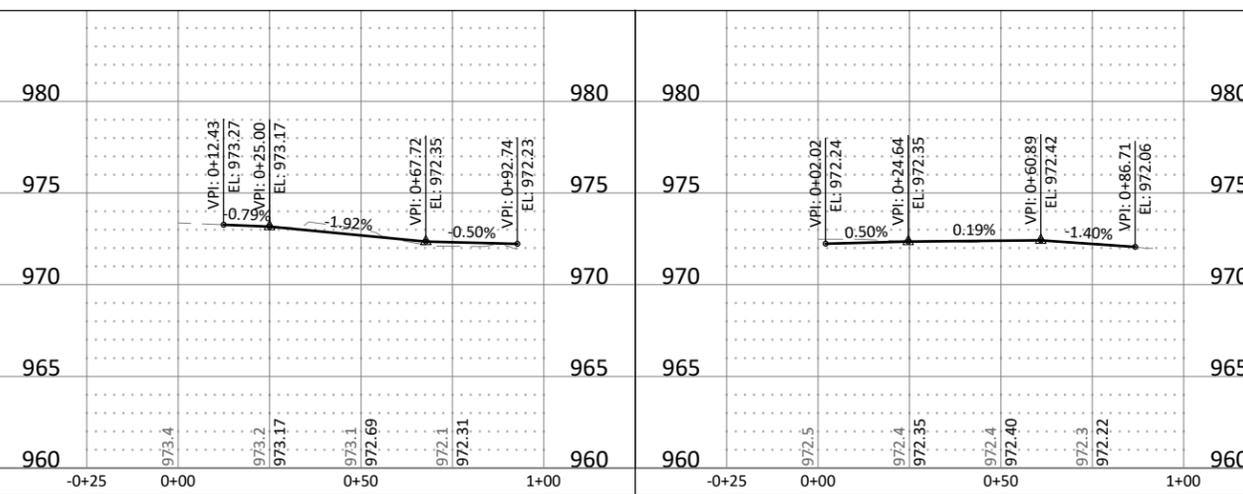
STRAWBERRY LANE & STRAWBERRY COURT
NW QUADRANT

STRAWBERRY LANE & STRAWBERRY COURT
SW QUADRANT



STRAWBERRY LANE & SMITHTOWN ROAD
SW QUADRANT

STRAWBERRY LANE & SMITHTOWN ROAD
SE QUADRANT



LEGEND

- X.X% DRAINAGE GRADE
- ×XXX.XX SPOT ELEVATION
- ==== CONSTRUCT CONCRETE CURB & GUTTER
- PROPOSED DRAINAGE STRUCTURE
- ⊕ PROPOSED HYDRANT
- ⊗ PROPOSED VALVE
- EXISTING DRAINAGE STRUCTURE
- ⊗ EXISTING VALVE

PEDESTRIAN RAMP LEGEND

- ▨ LANDING AREA - 4' X 4' MIN. DIMENSIONS AND 1.0% OPTIMUM (2.0% MAXIMUM) SLOPE IN ALL DIRECTIONS
- ⊕ TRANSITION PANEL(S) - TO BE USED FOR TRANSITIONING THE CROSS-SLOPE OF A RAMP TO THE EXISTING WALK CROSS-SLOPE. RATE OF TRANSITION SHOULD BE 0.5% PER 1 LINEAR FOOT OF WALK.
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- X" CURB HEIGHT
- ▭ TRUNCATED DOMES (SEE MnDOT STANDARD PLATE 7038)

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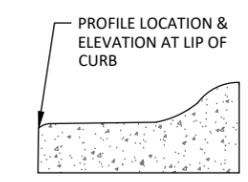
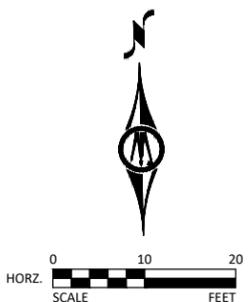
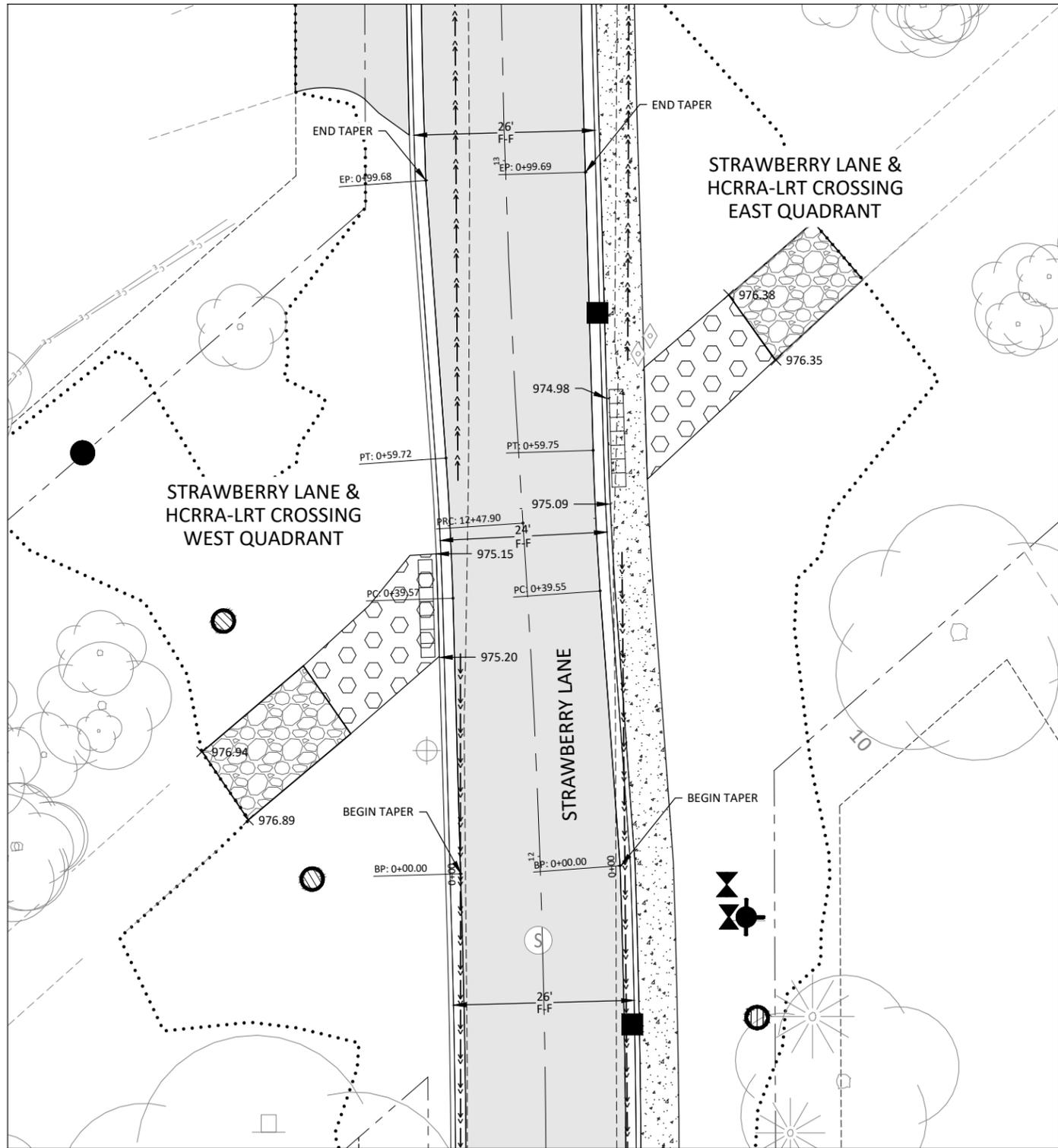
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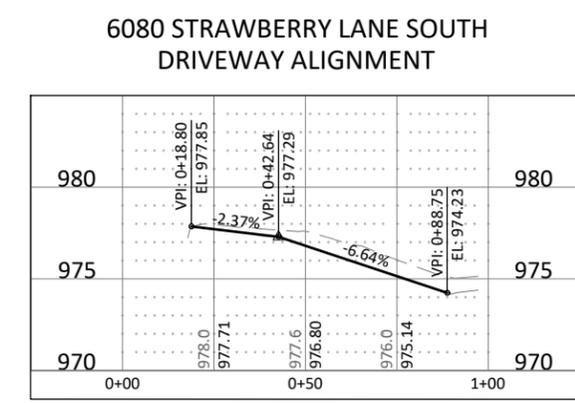
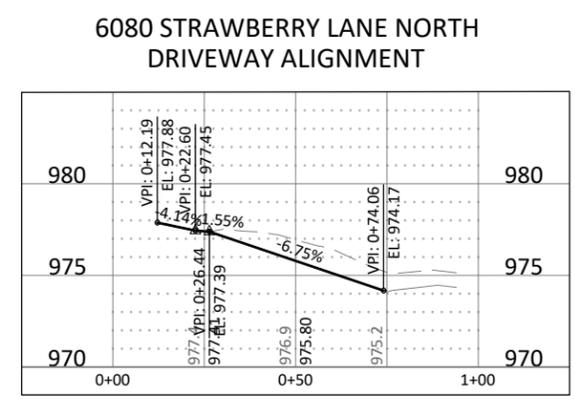
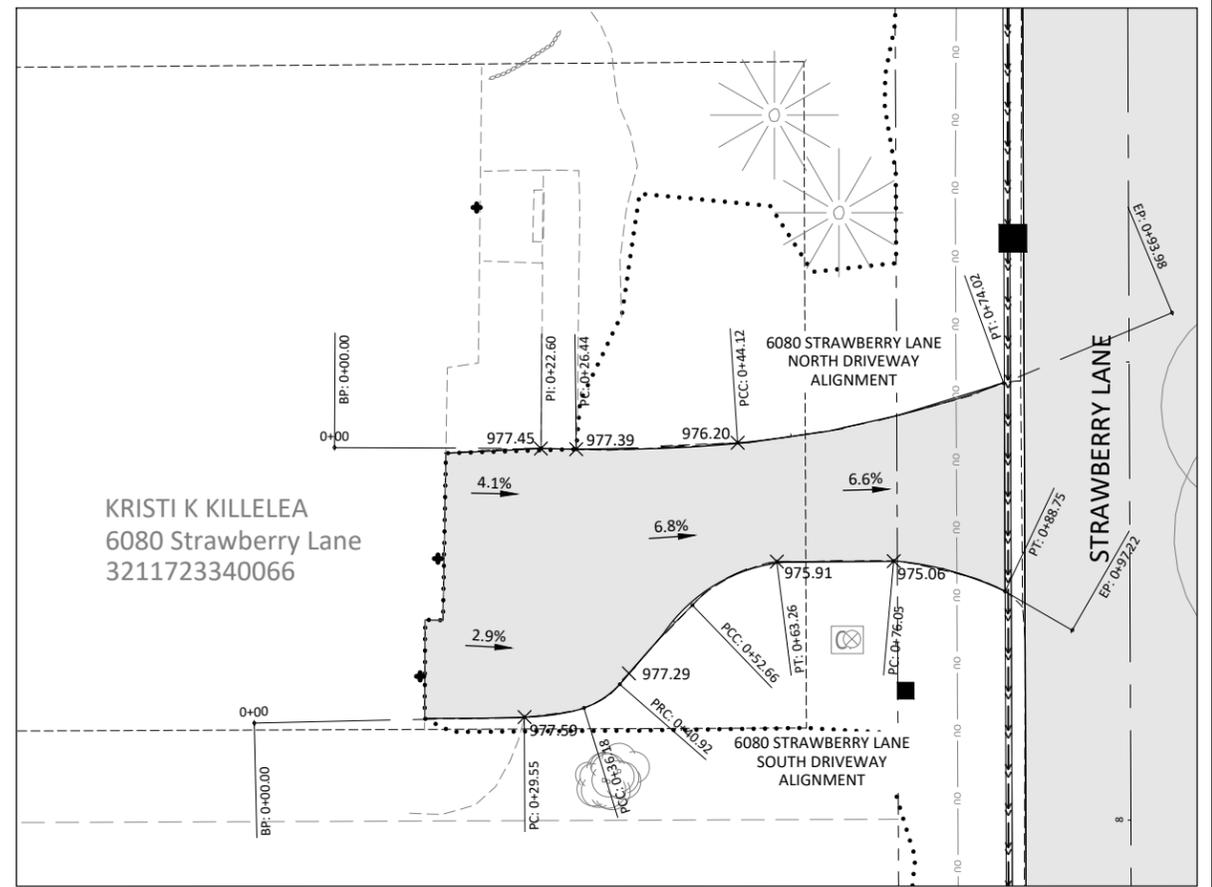
CITY OF SHOREWOOD
STRAWBERRY LANE RECONSTRUCTION
INTERSECTION DETAILS

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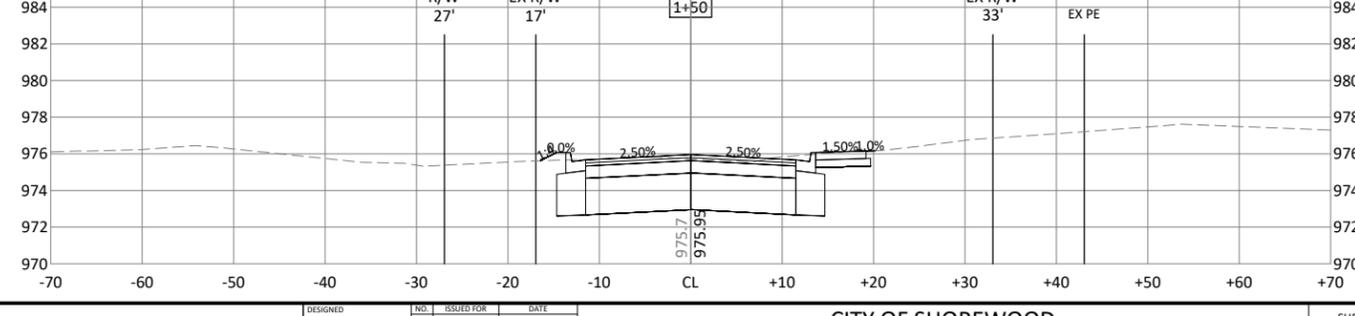
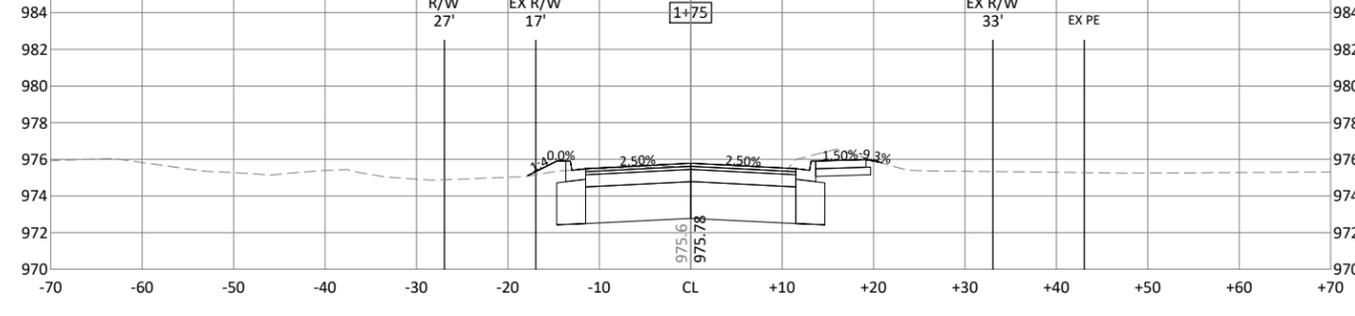
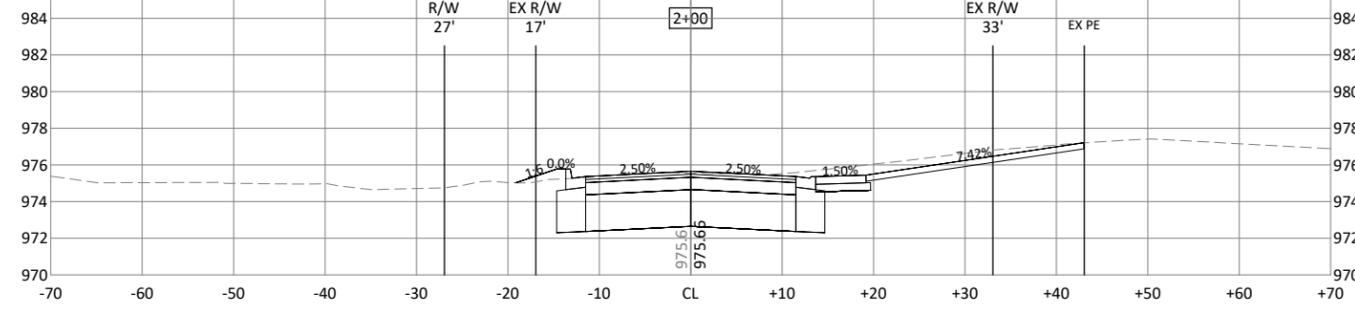
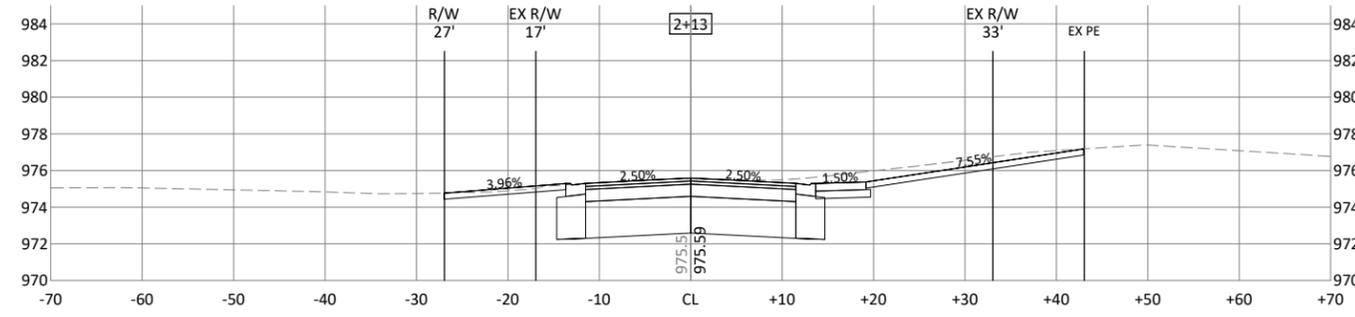
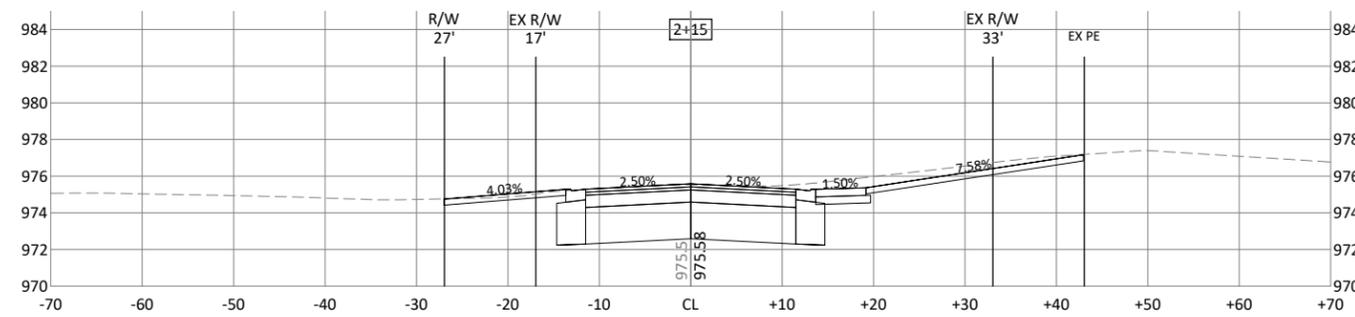
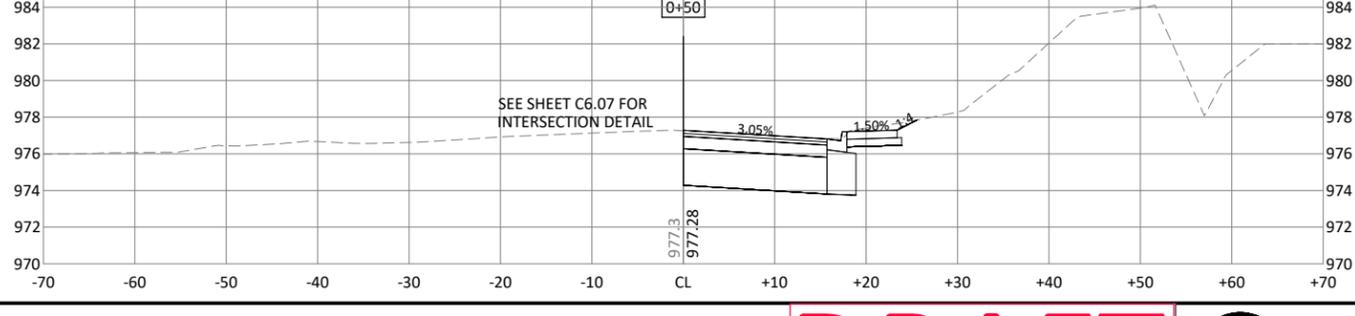
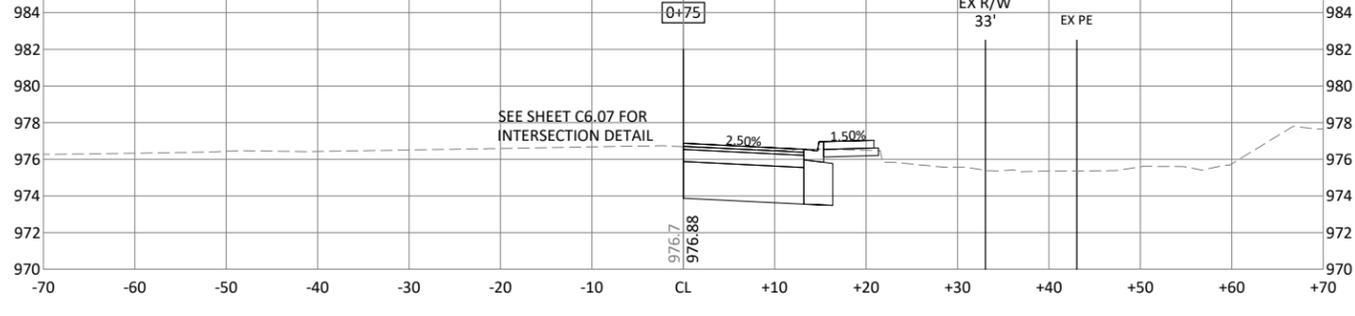
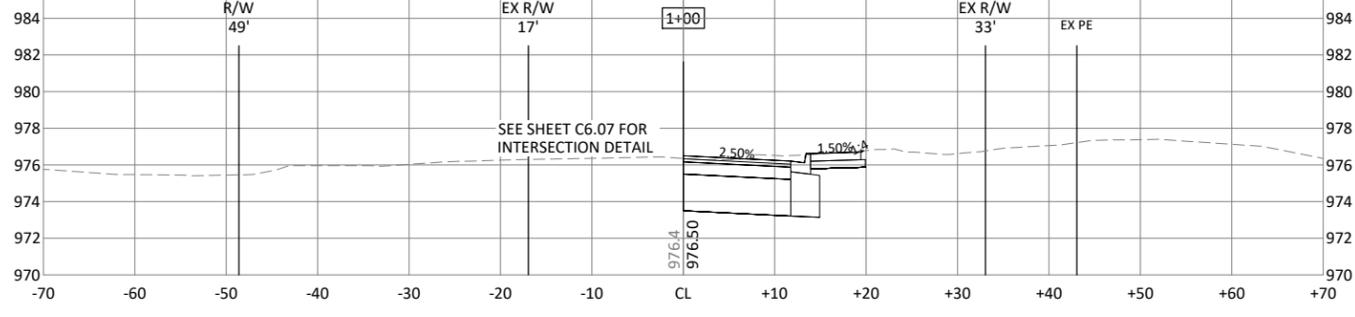
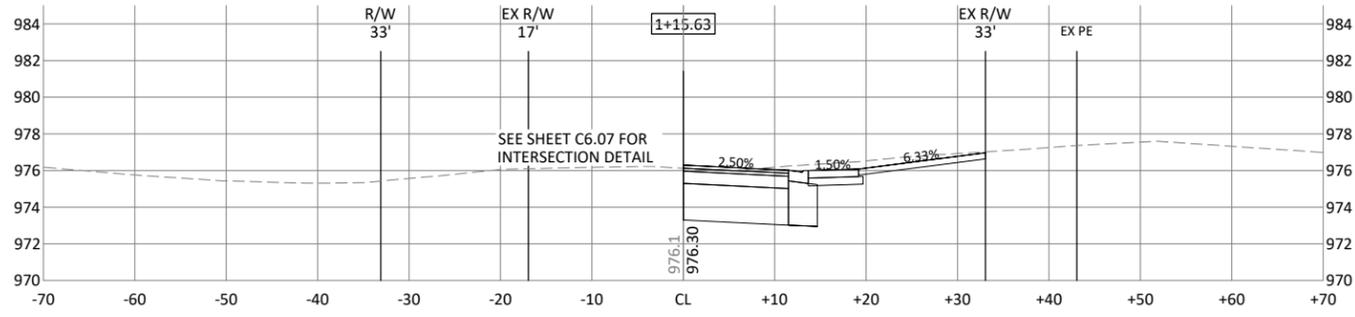
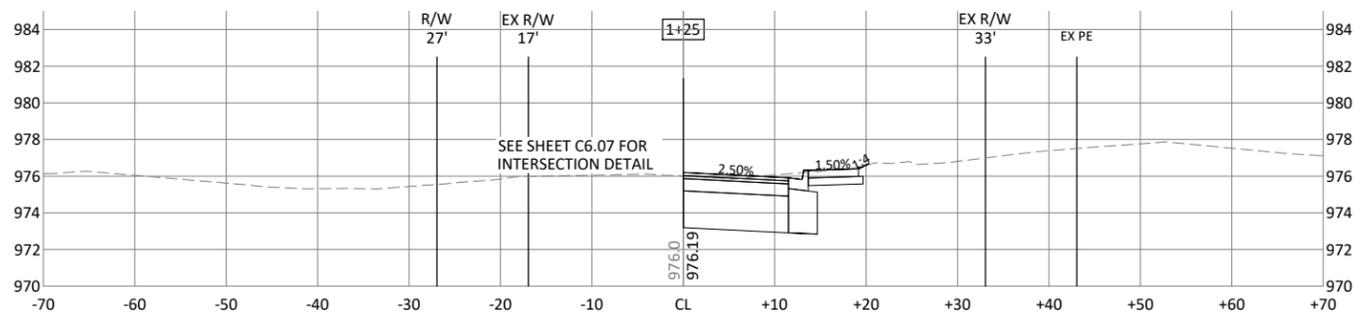
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LEGEND	
—X.X%—	DRAINAGE GRADE
×XXX.XX	SPOT ELEVATION
====	CONSTRUCT CONCRETE CURB & GUTTER
■	PROPOSED DRAINAGE STRUCTURE
⊕	PROPOSED HYDRANT
⊗	PROPOSED VALVE
□	EXISTING DRAINAGE STRUCTURE
⊗	EXISTING VALVE



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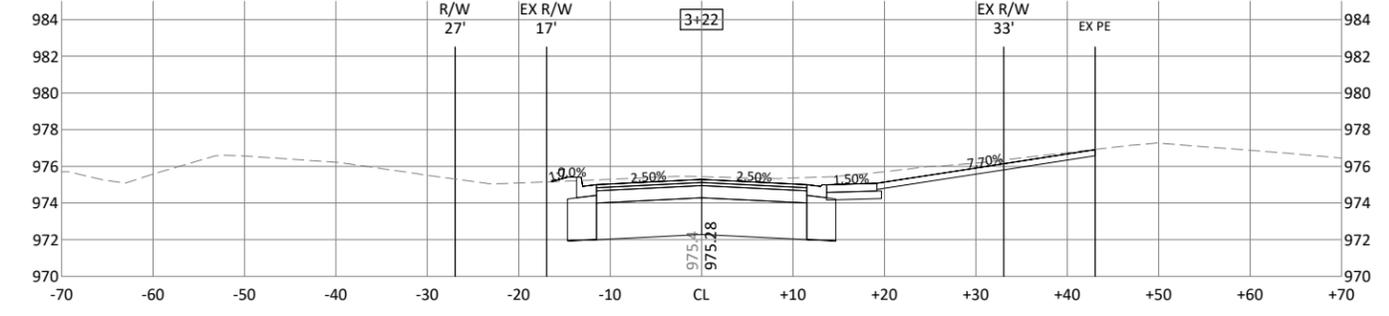
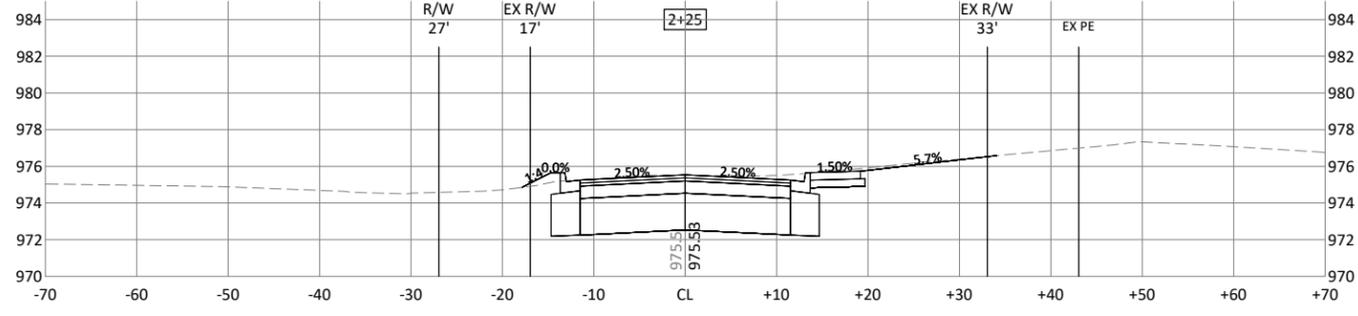
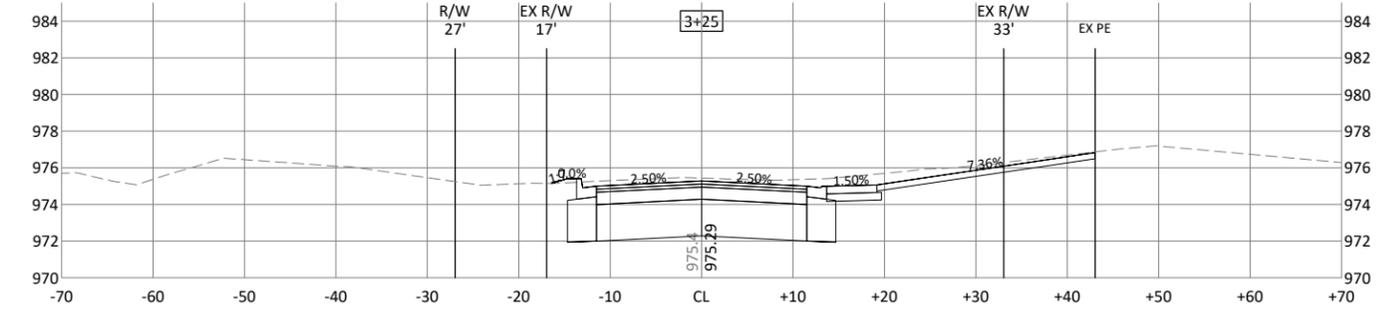
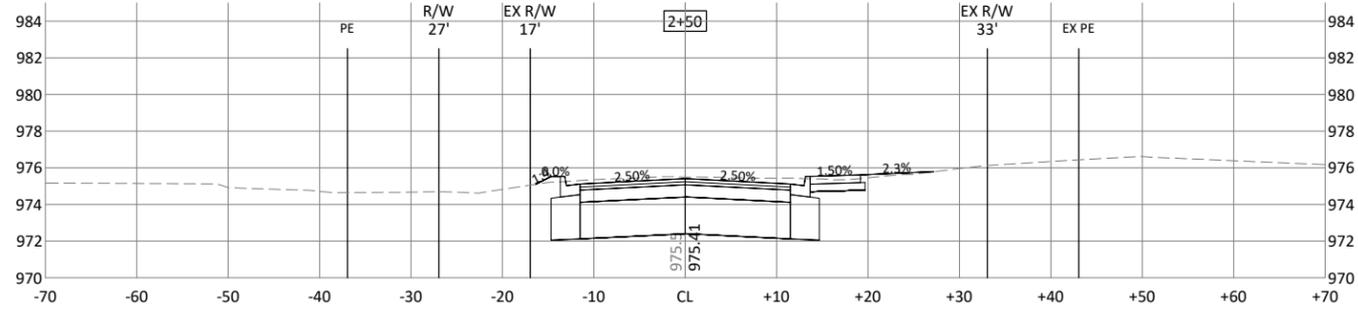
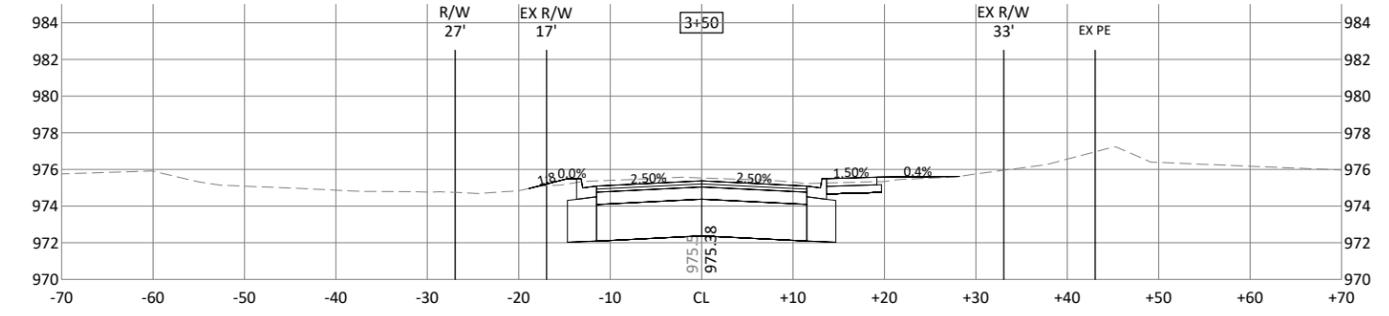
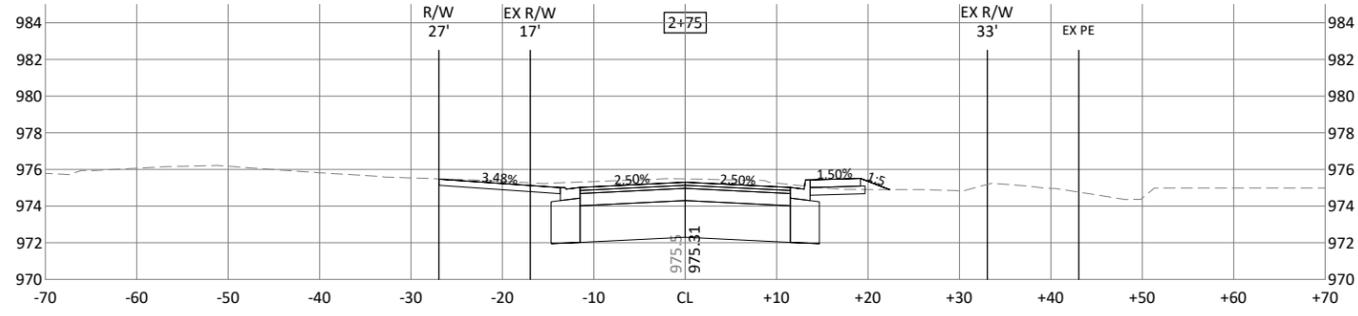
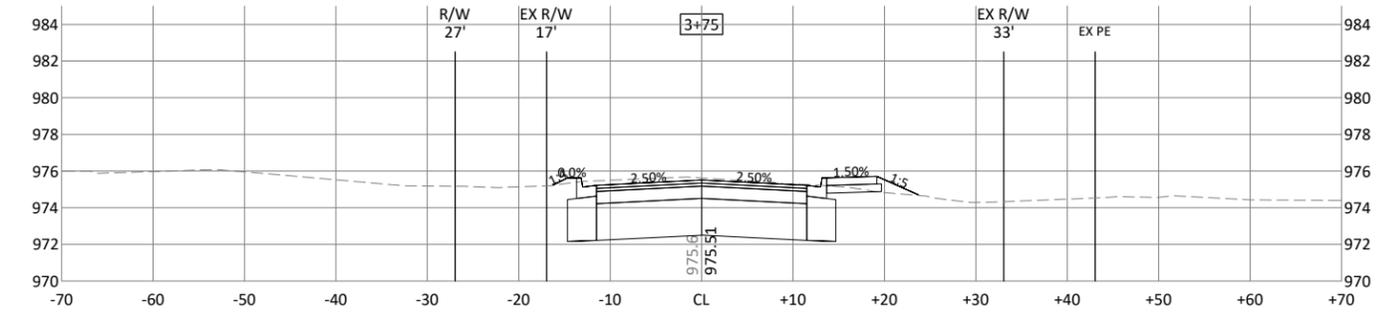
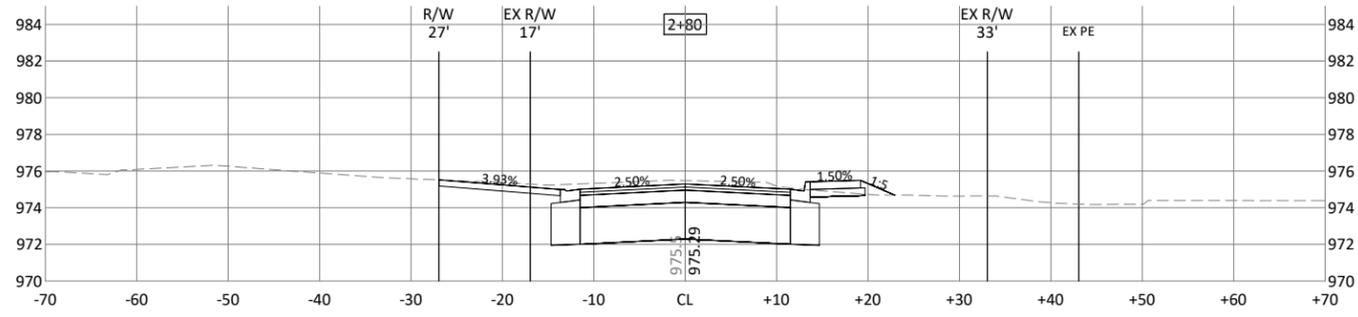
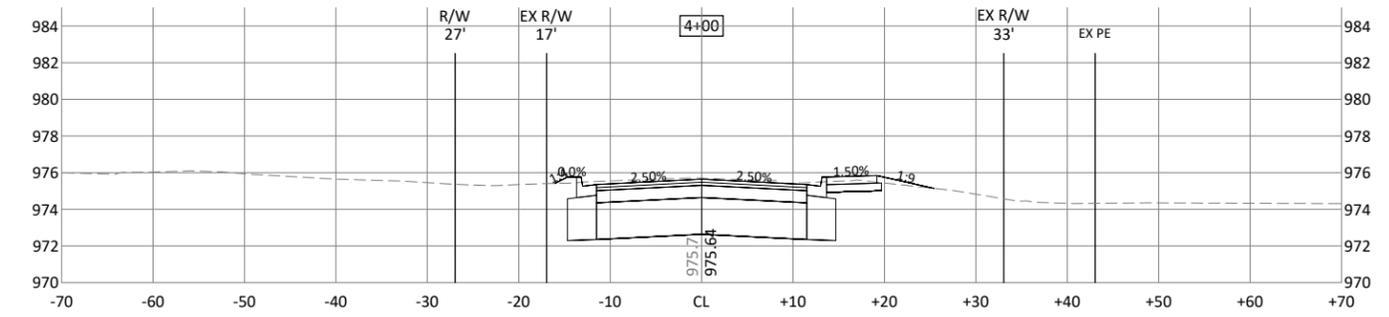
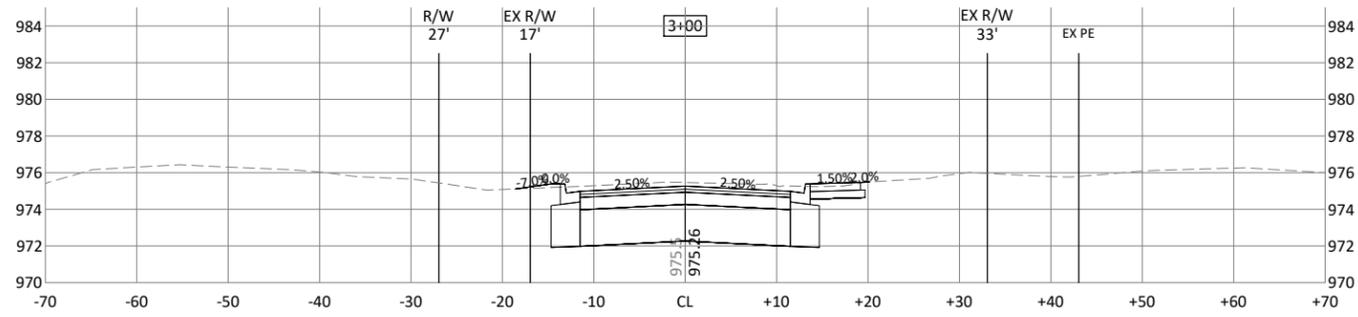
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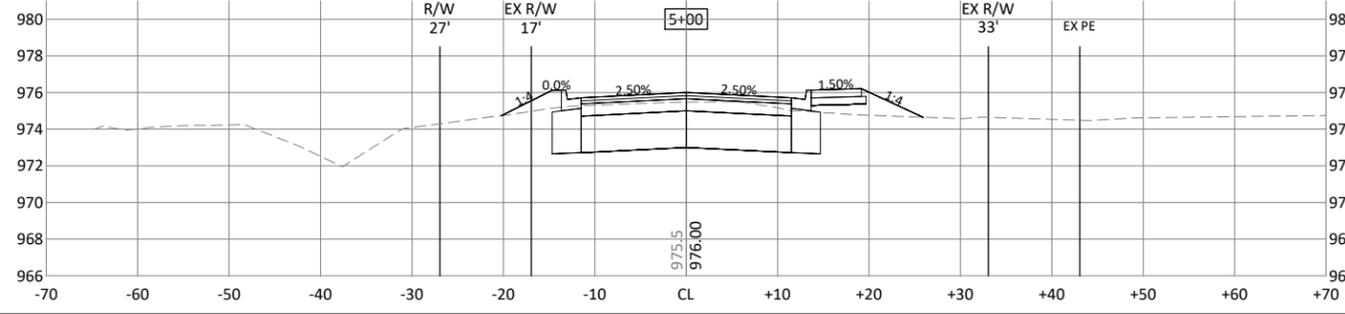
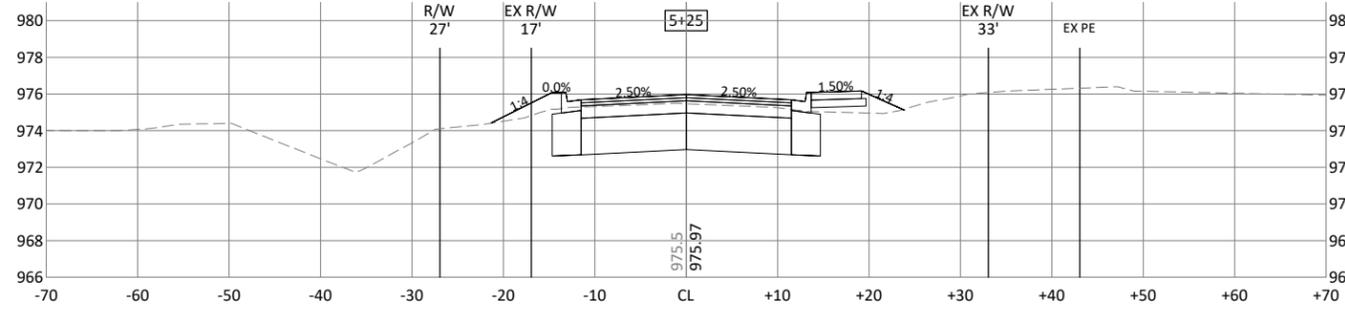
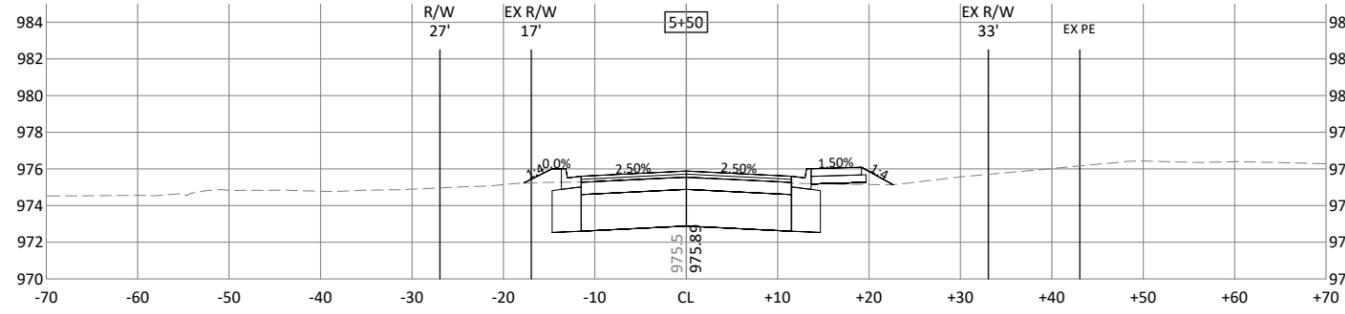
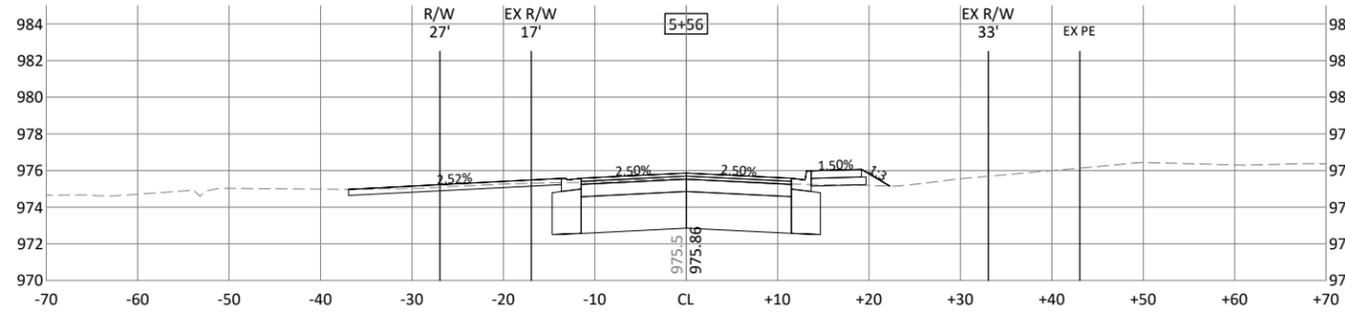
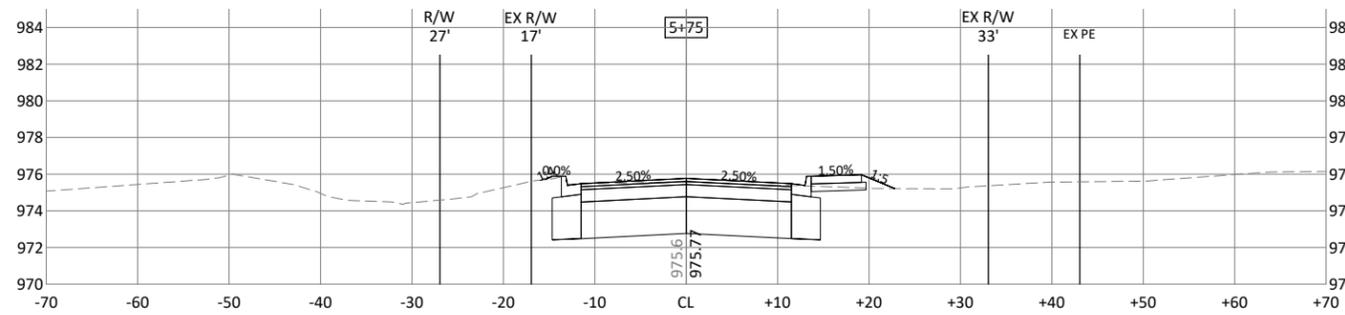
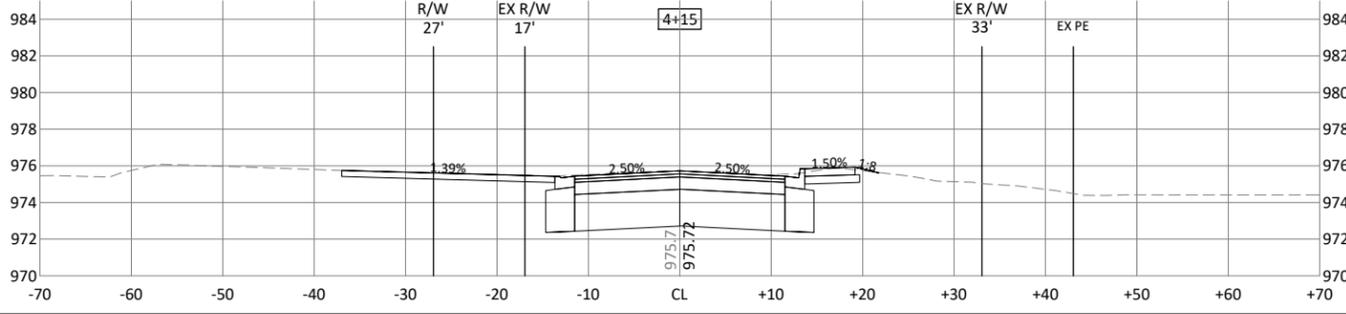
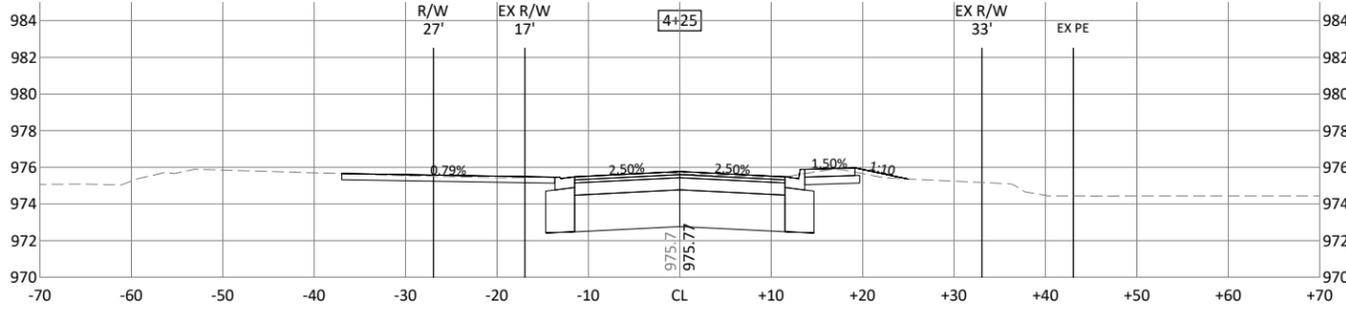
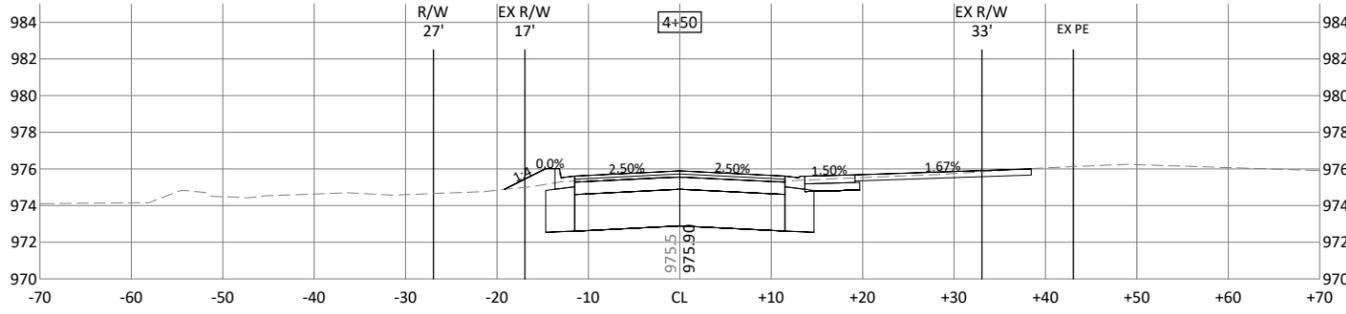
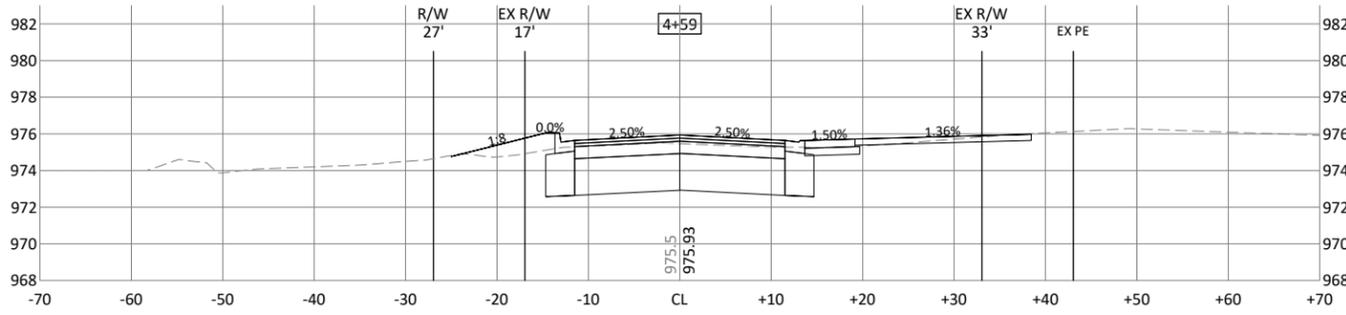
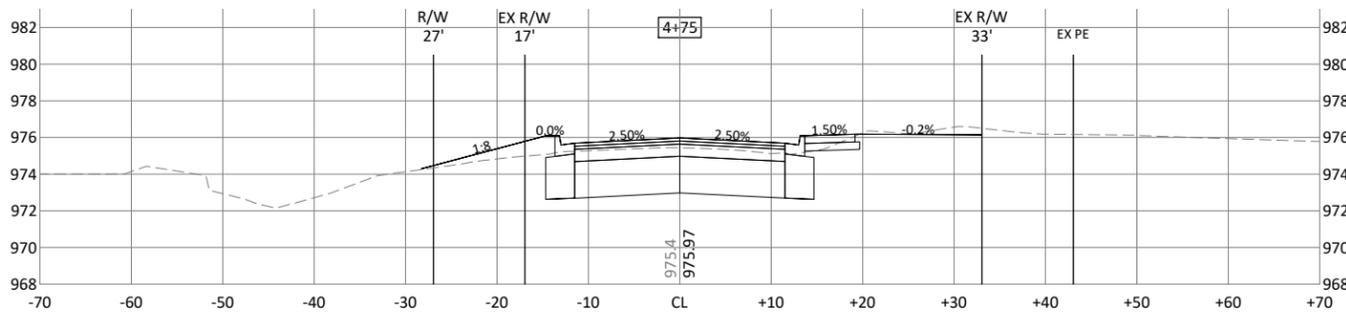
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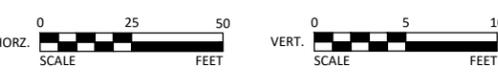
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CITY OF SHOREWOOD
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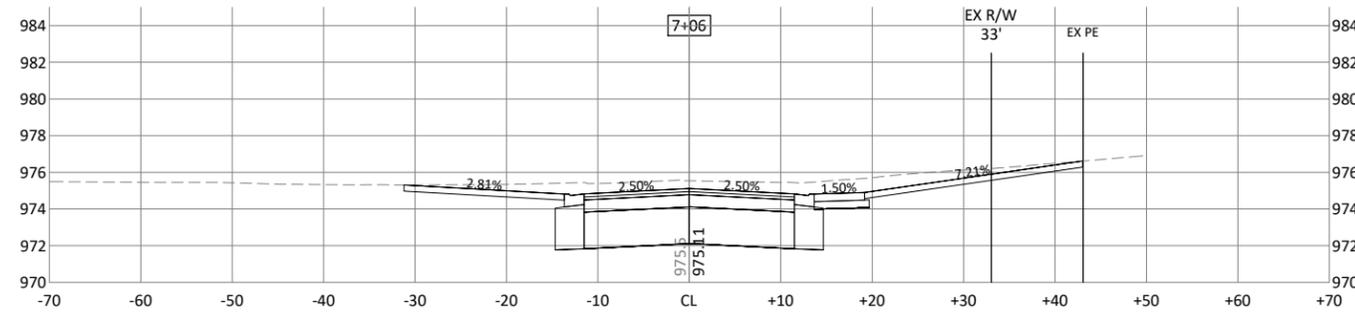
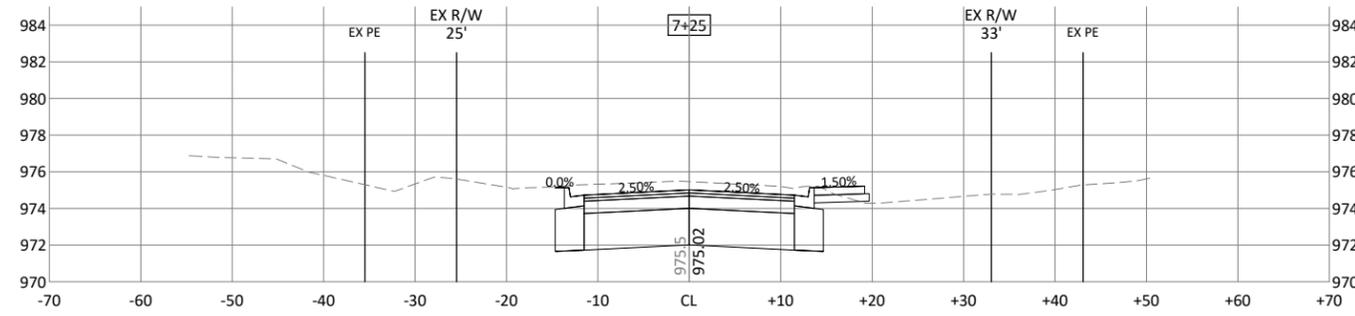
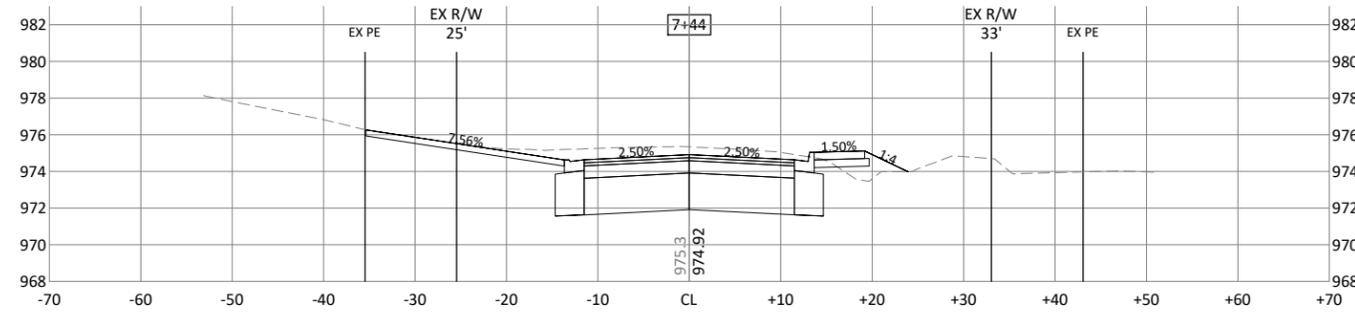
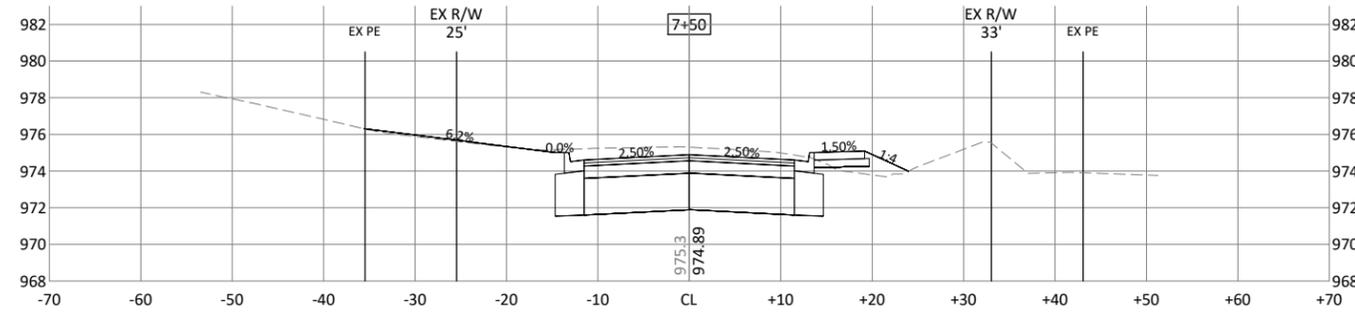
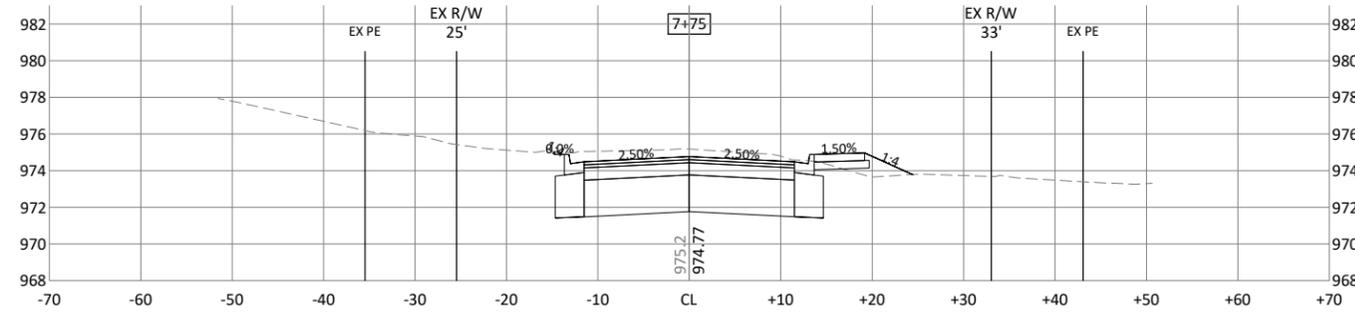
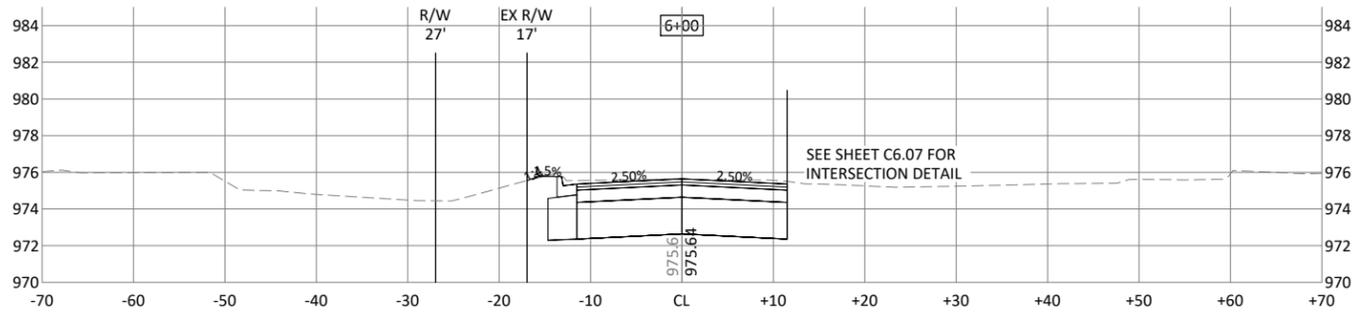
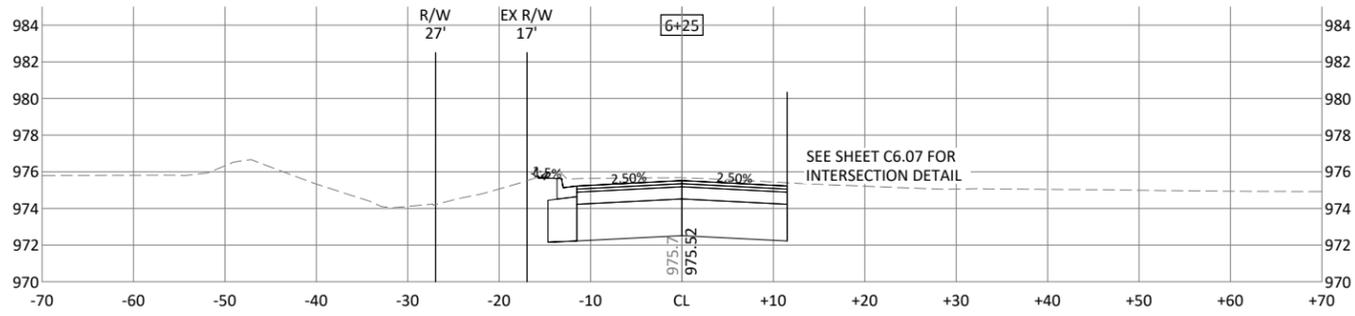
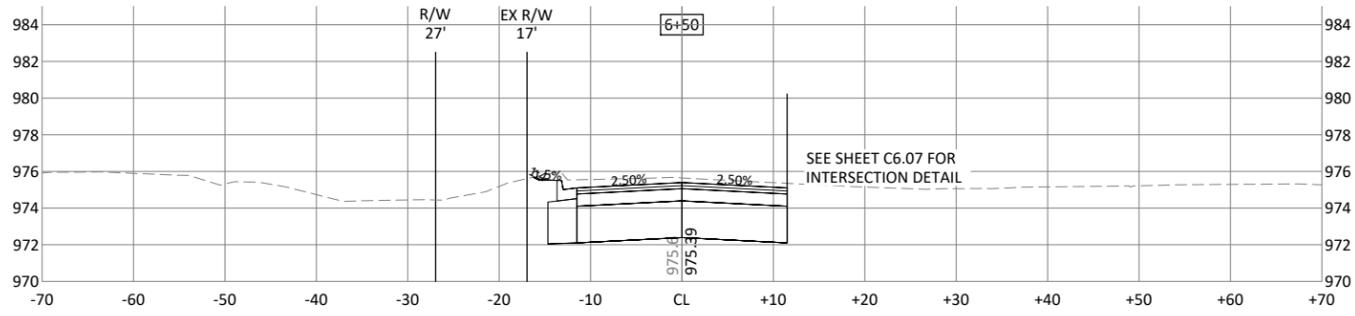
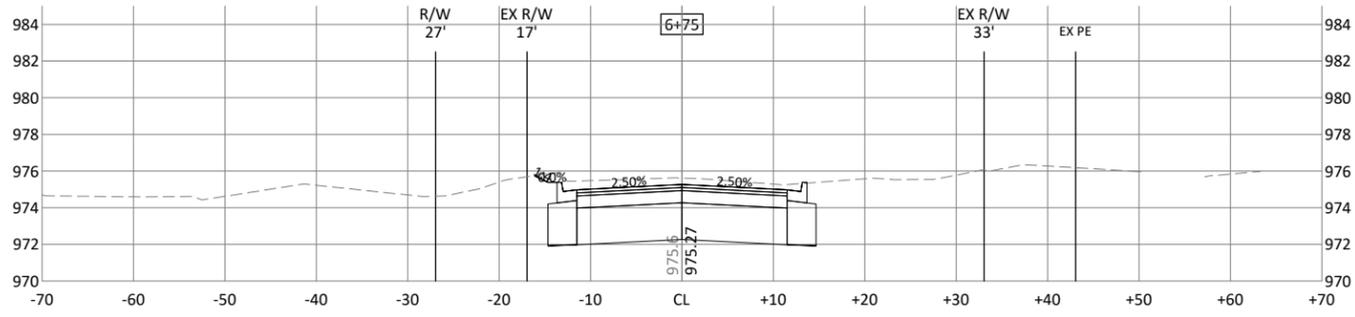
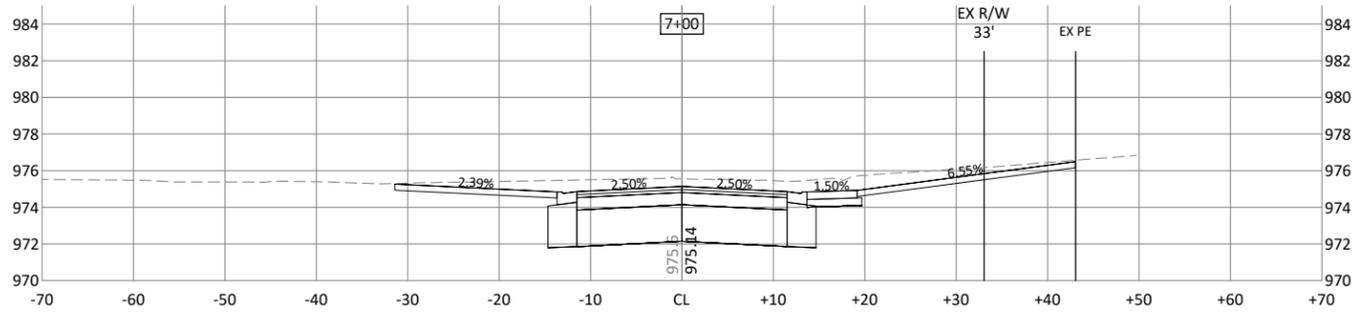
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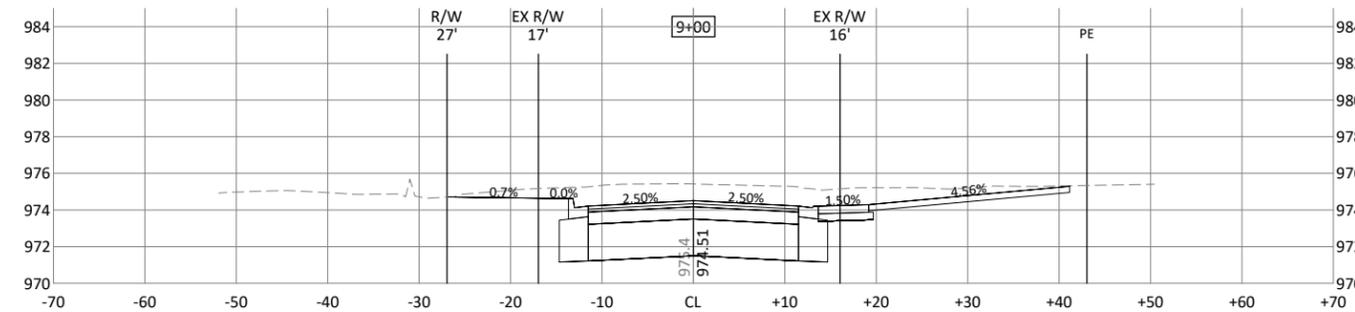
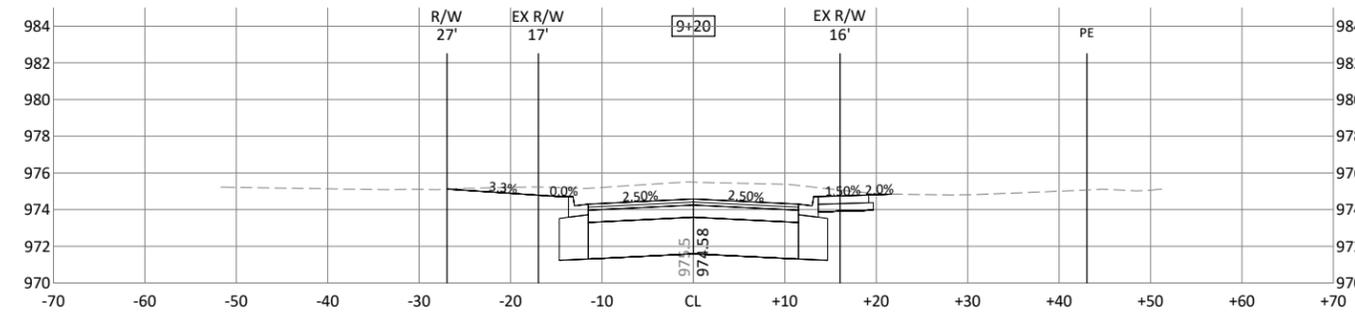
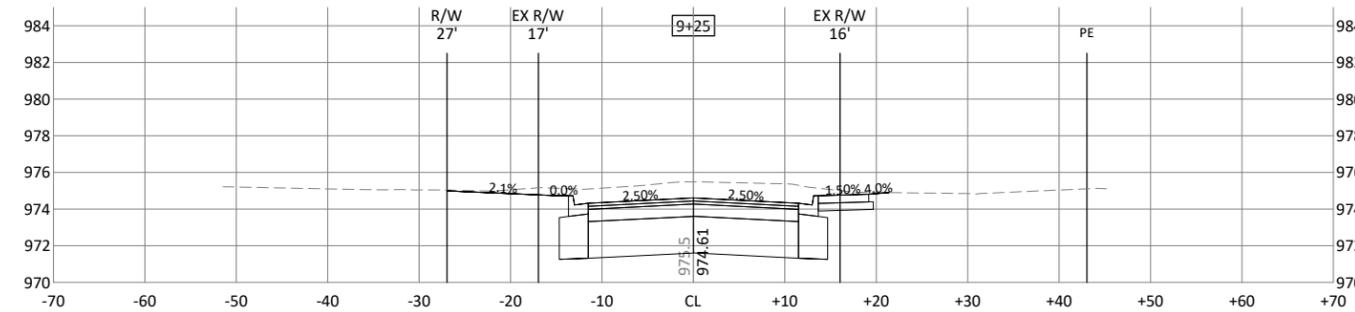
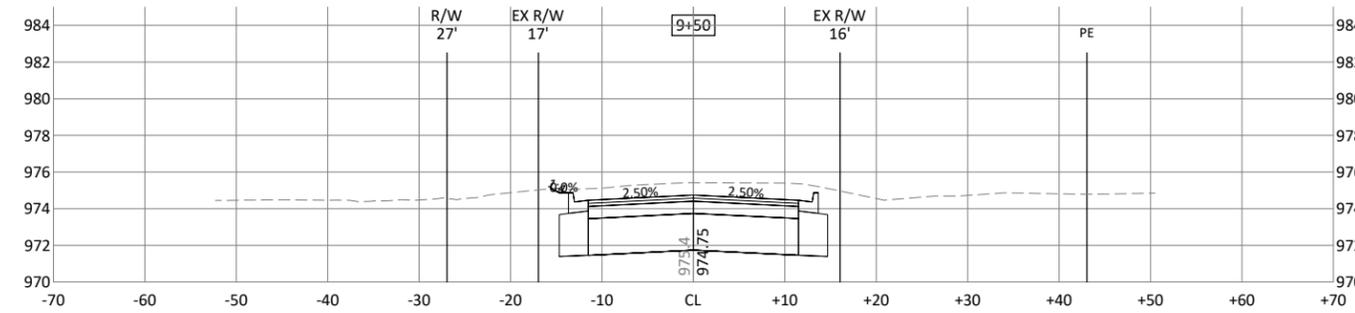
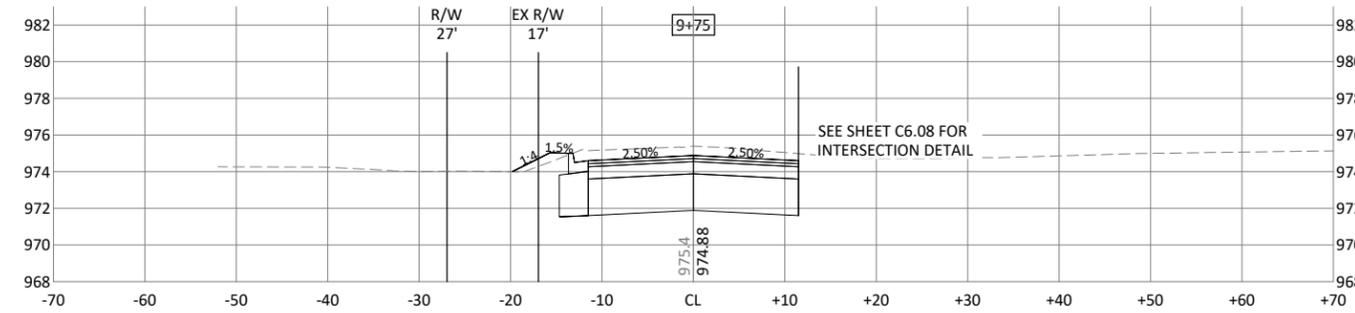
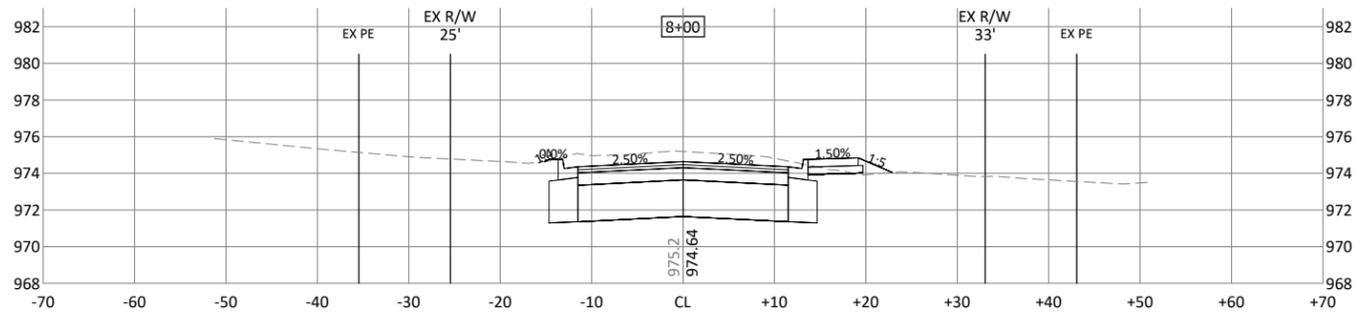
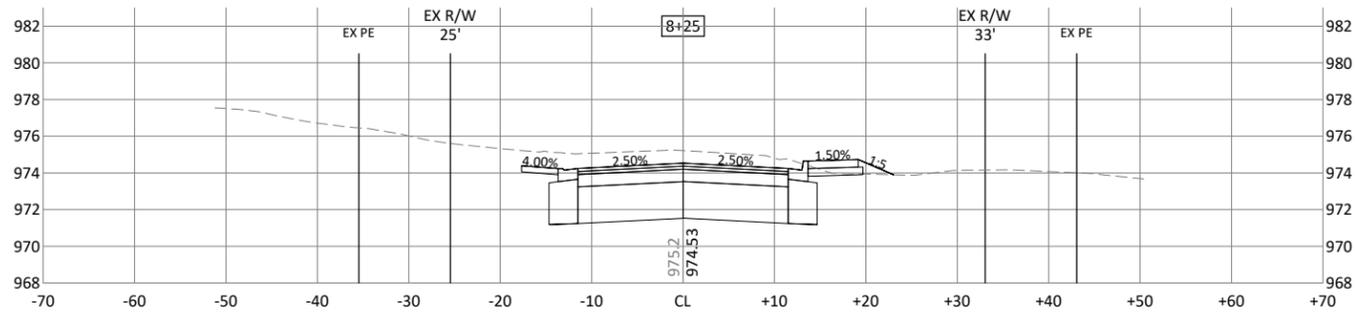
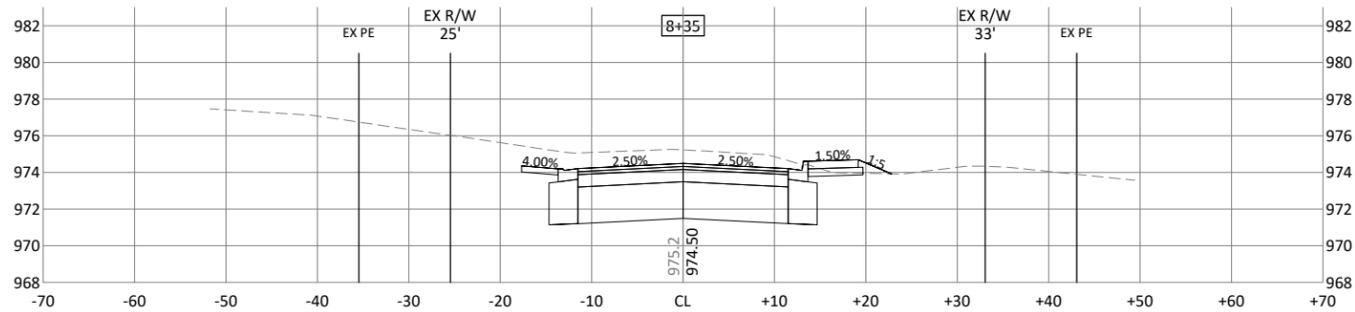
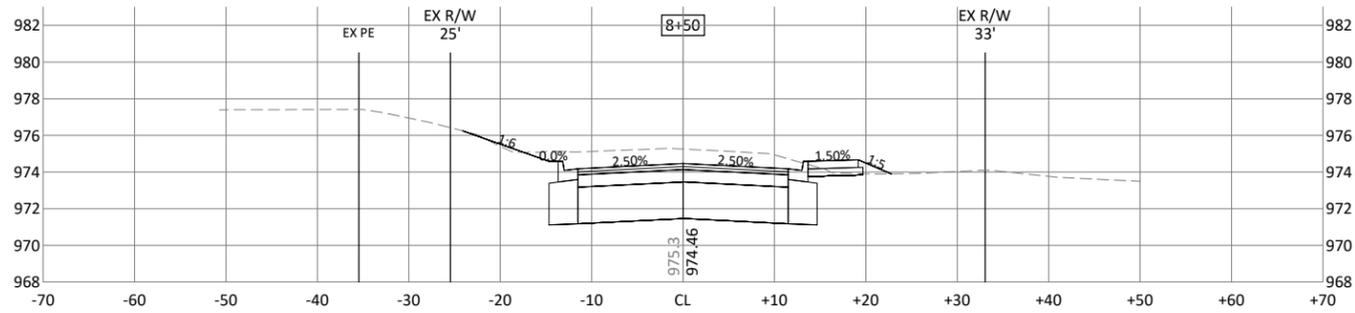
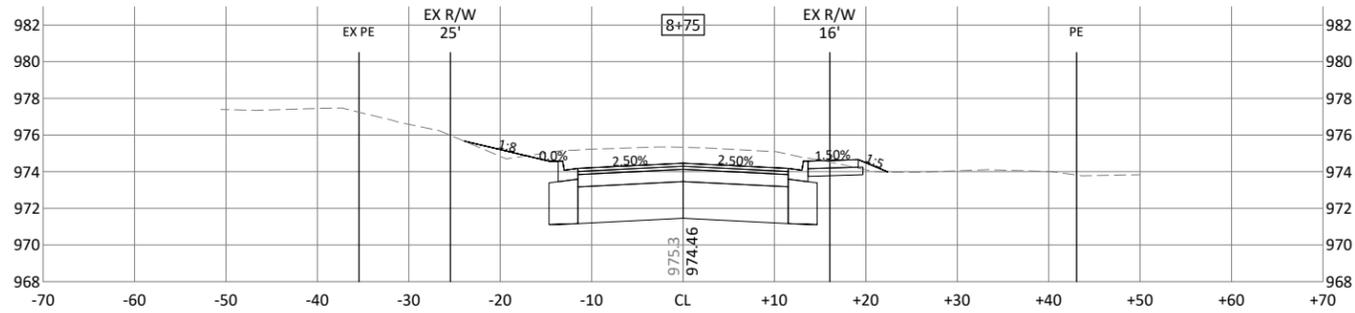
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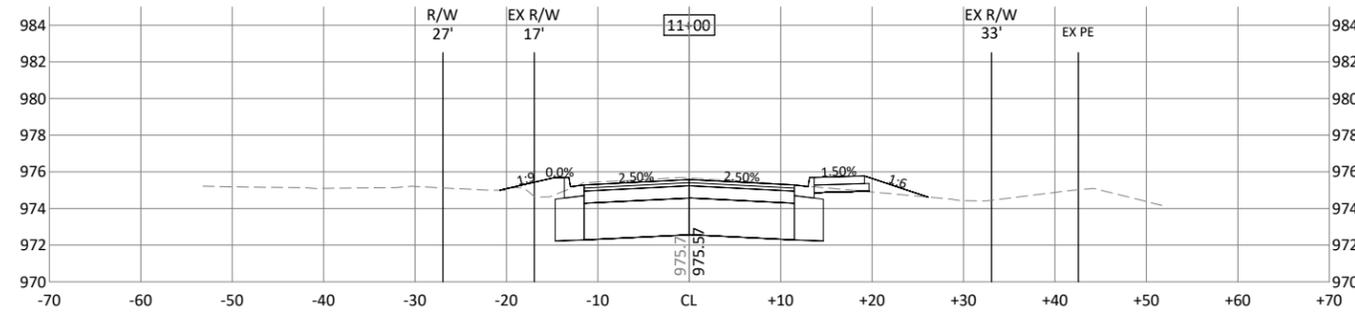
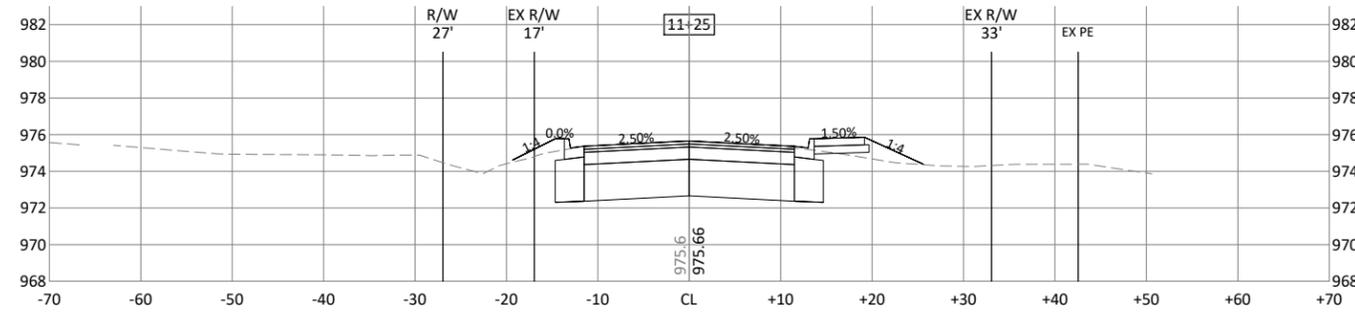
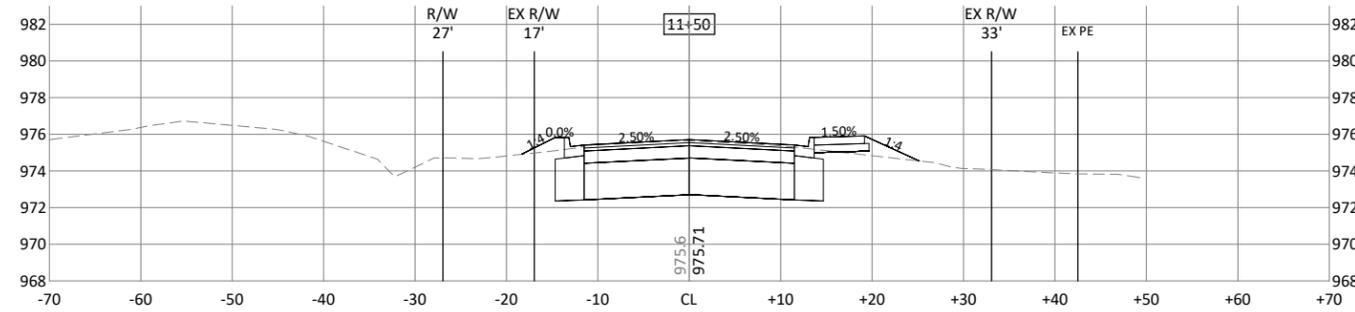
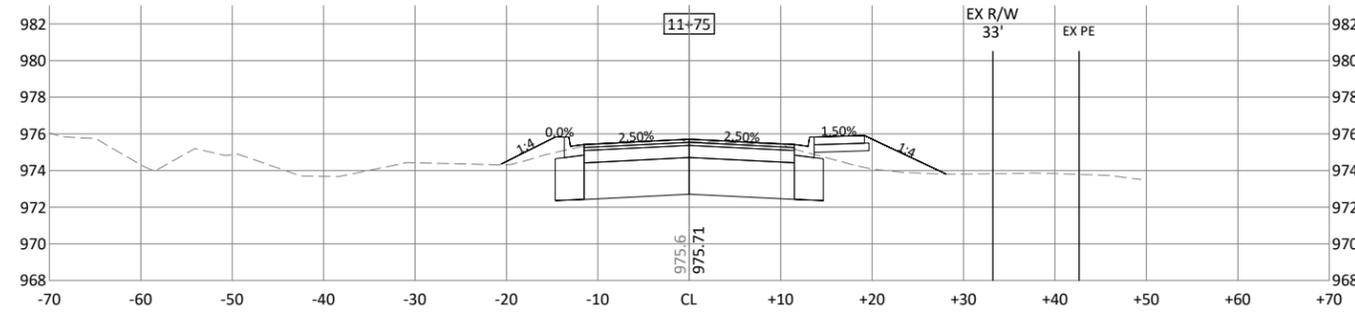
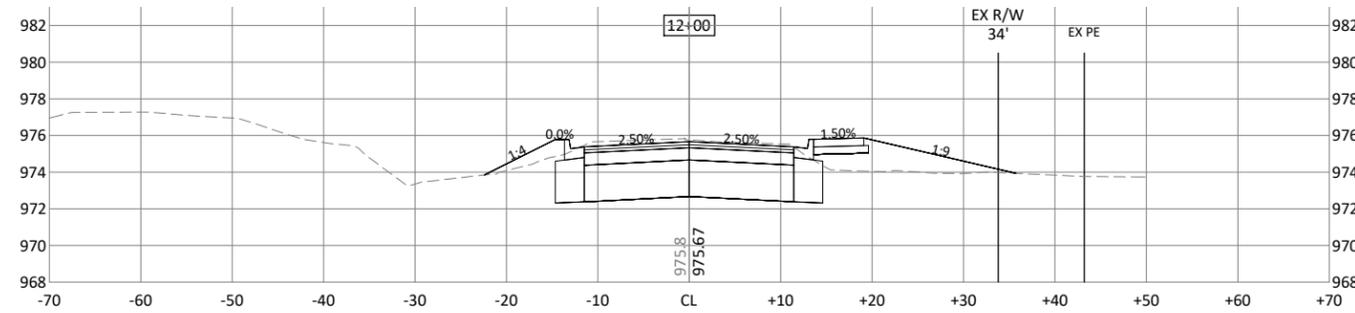
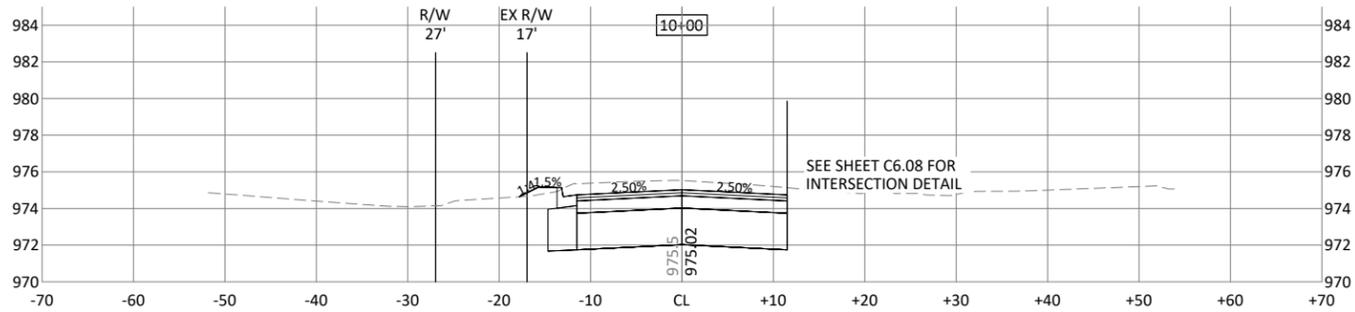
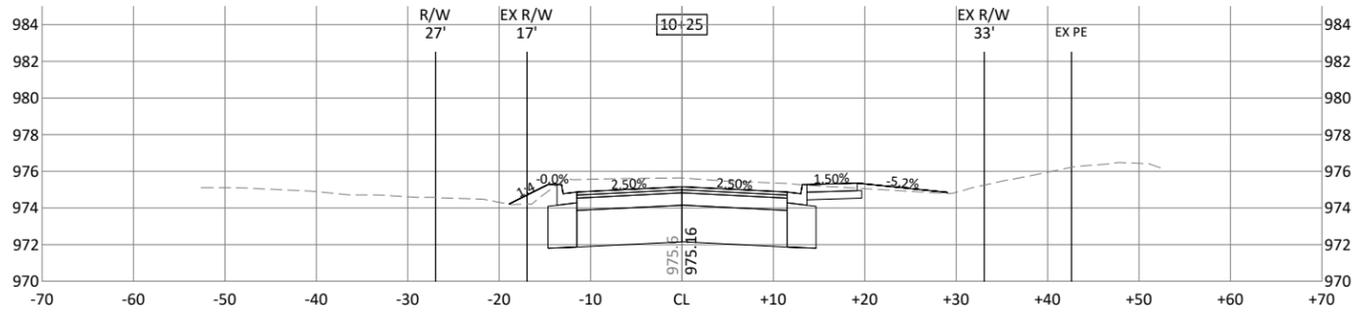
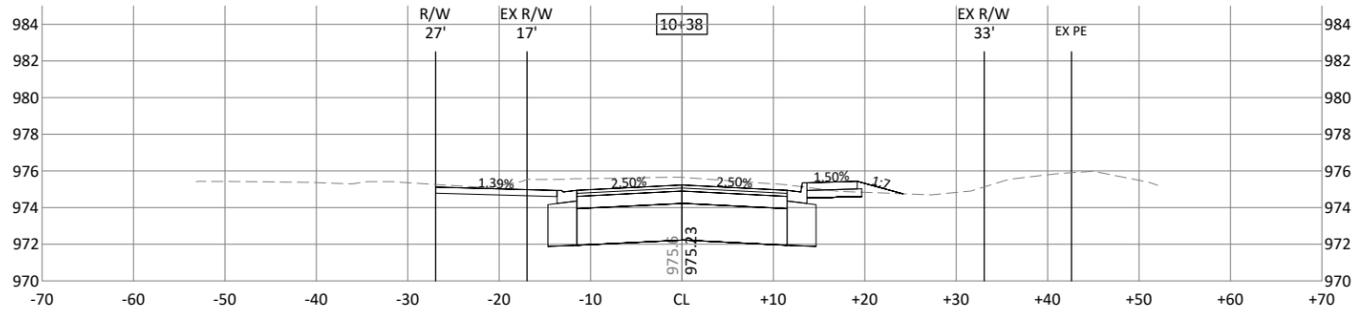
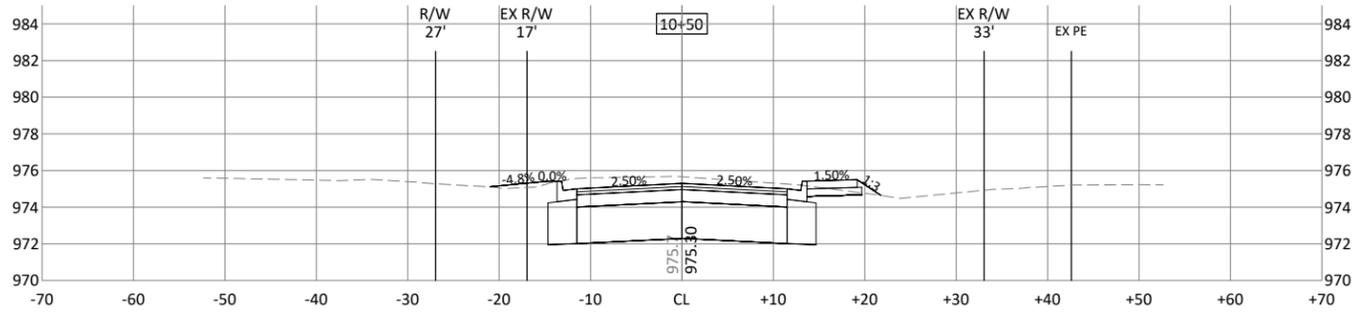
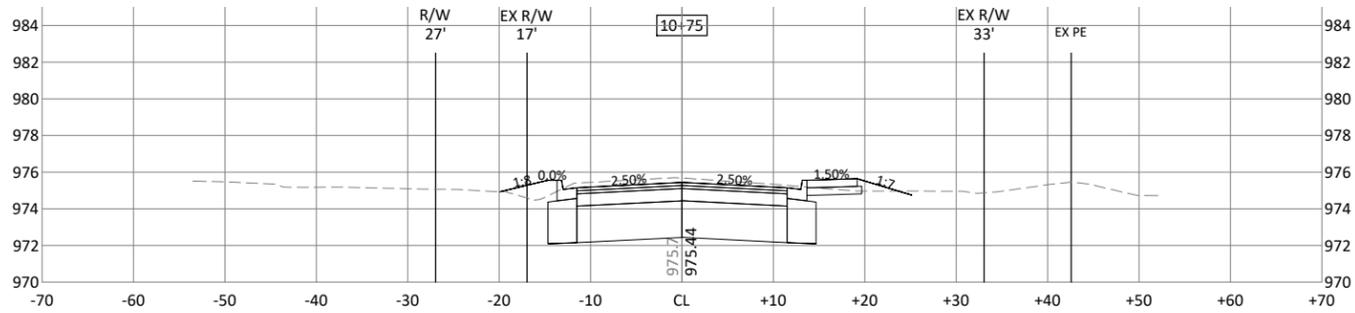
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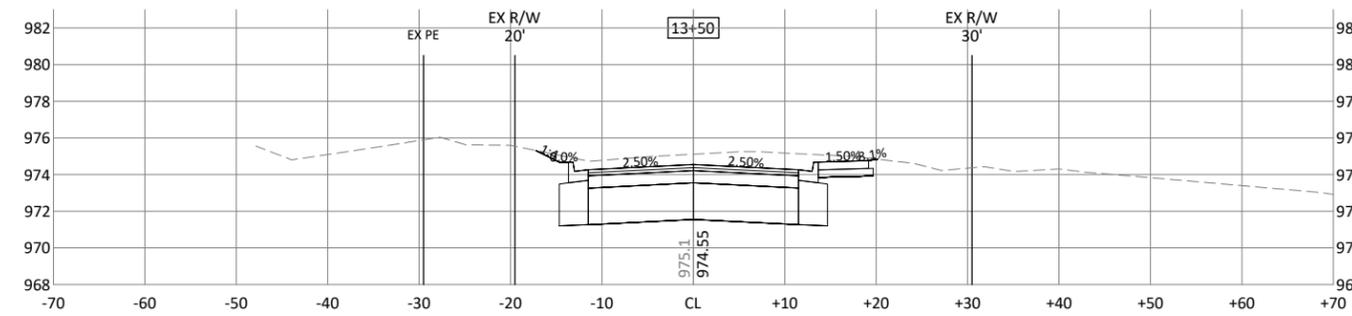
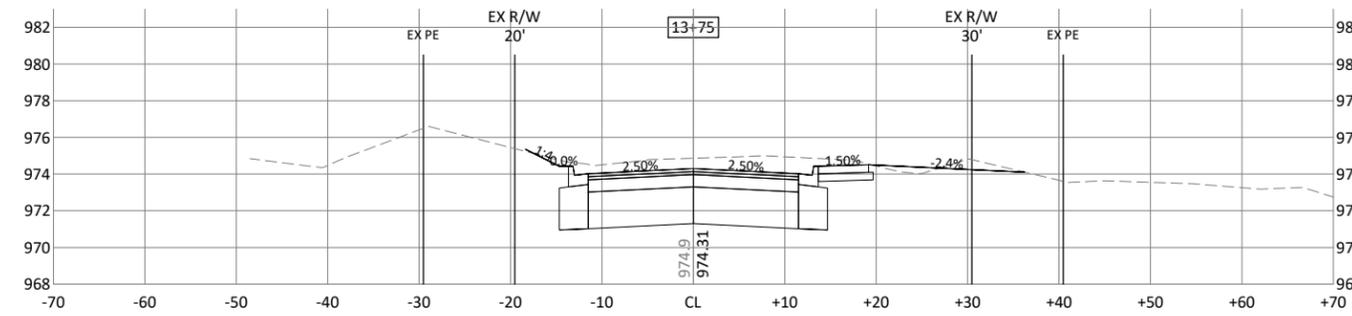
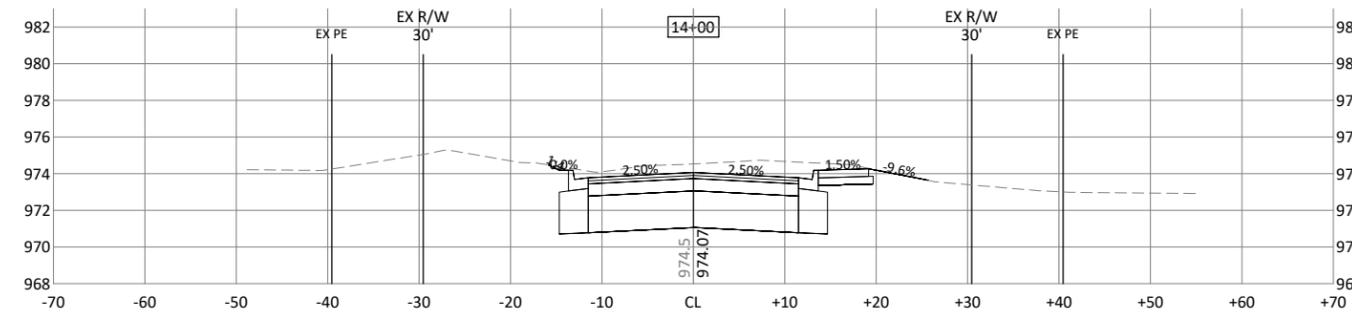
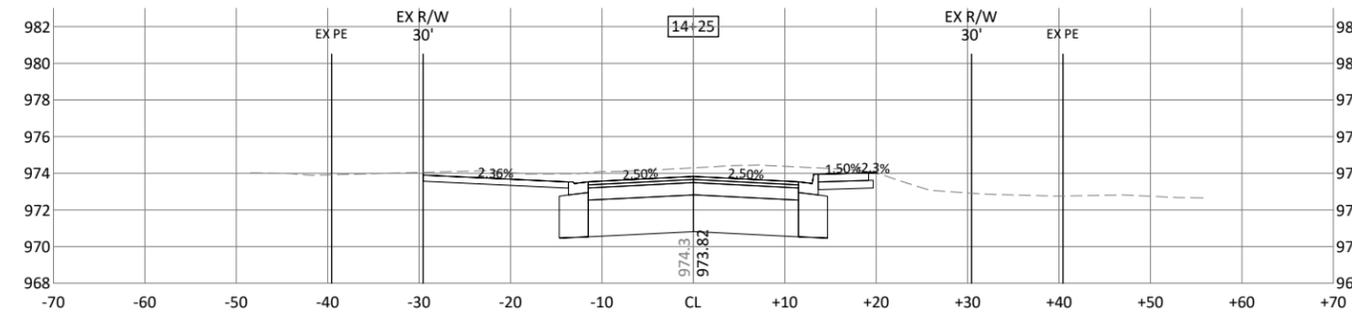
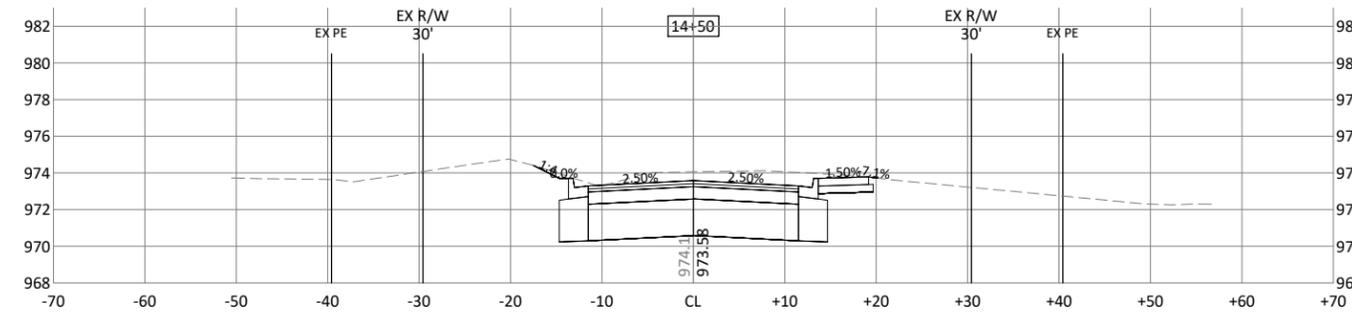
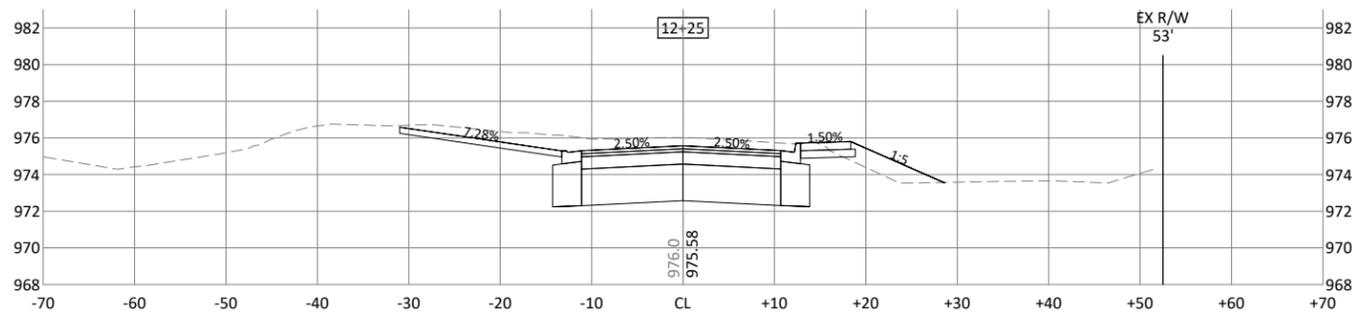
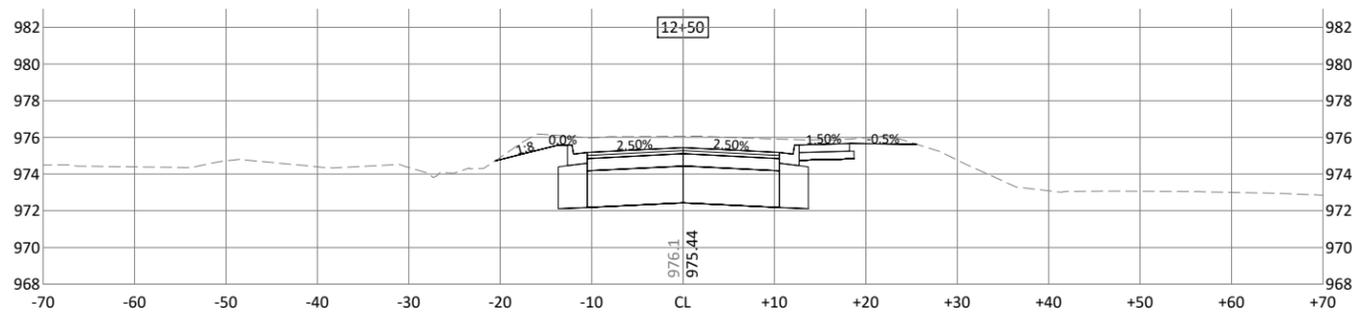
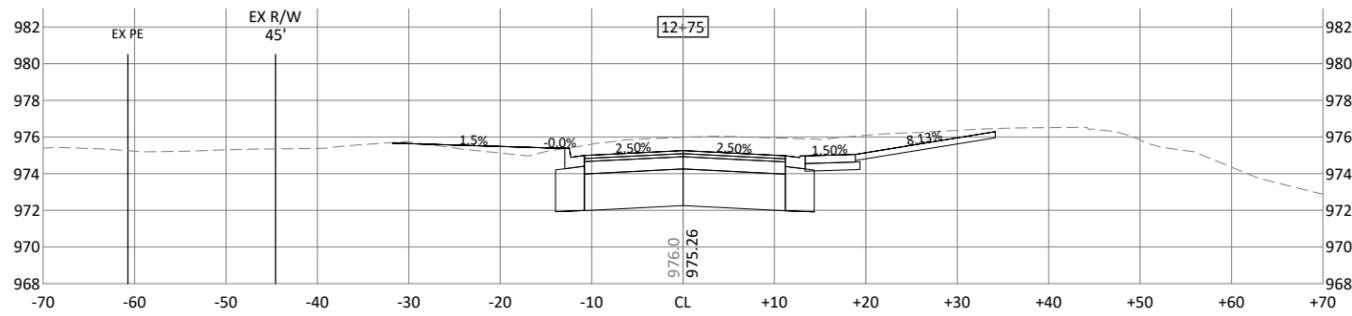
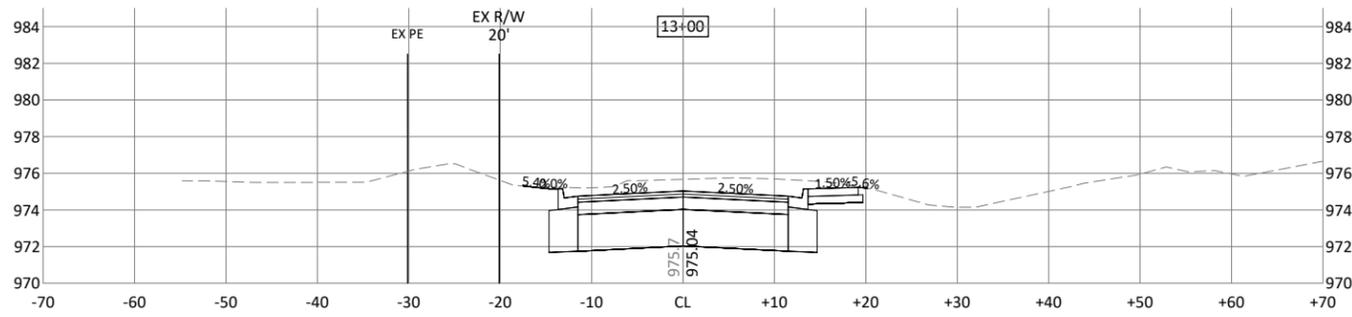
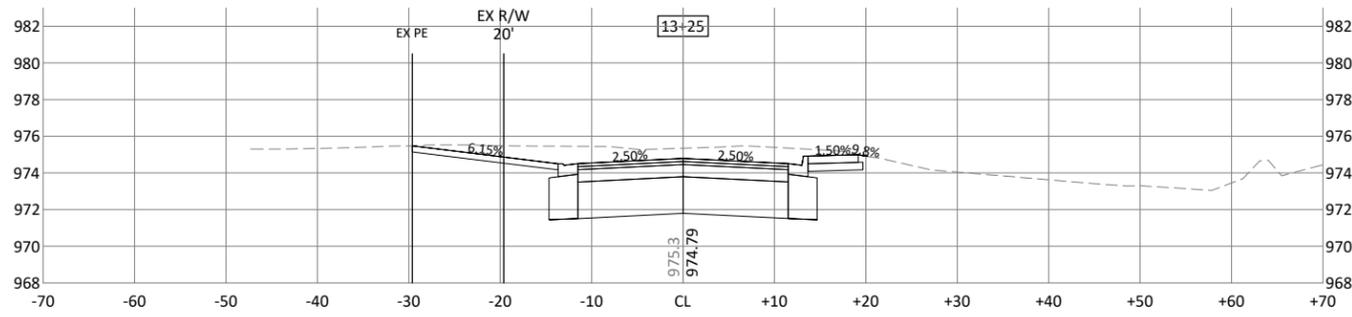
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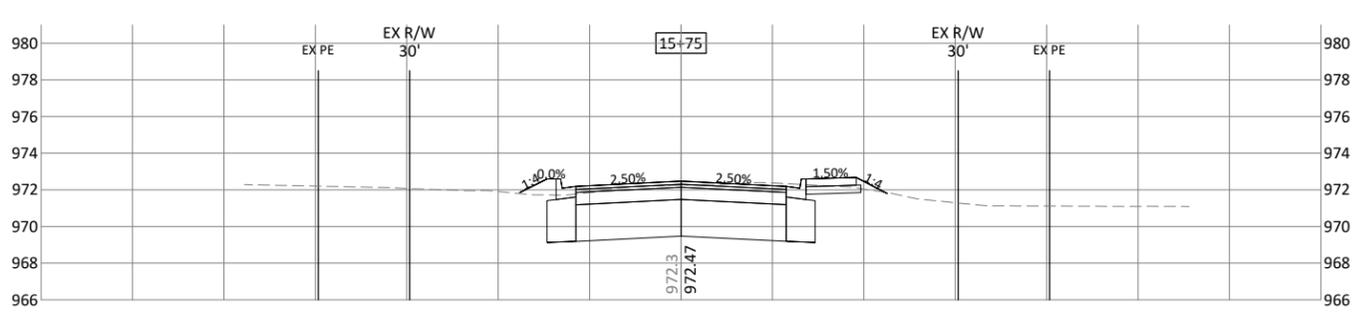
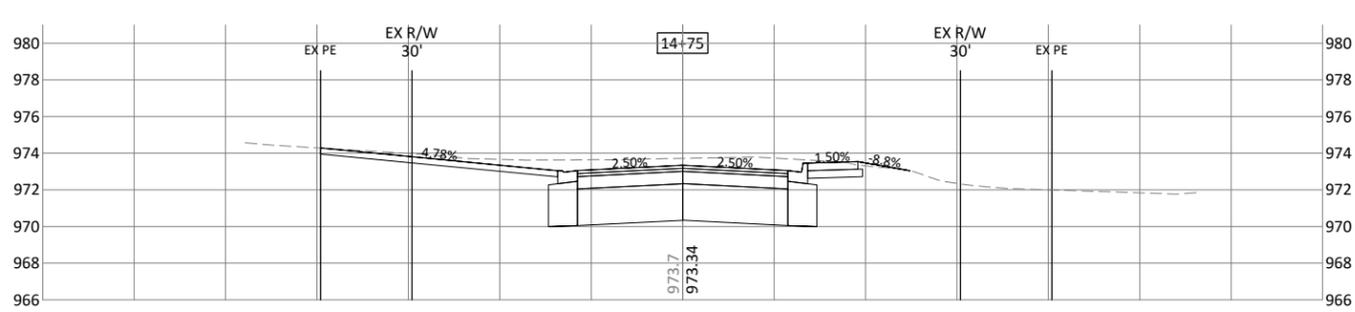
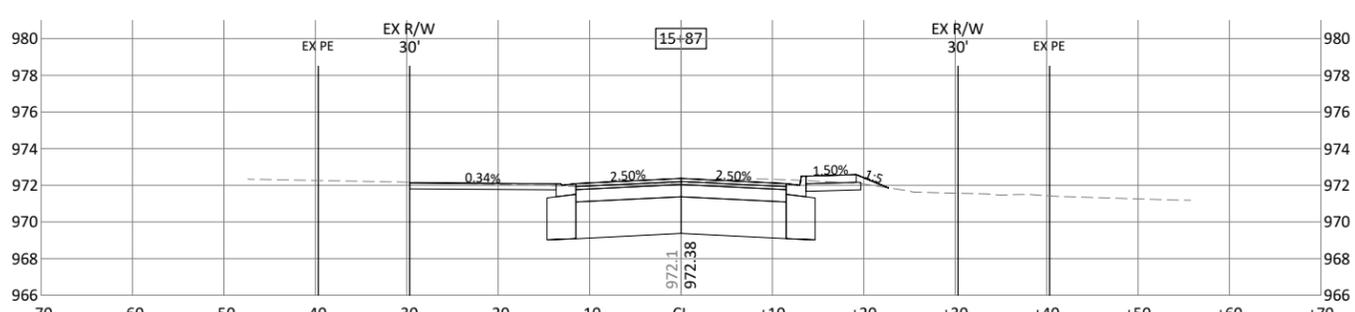
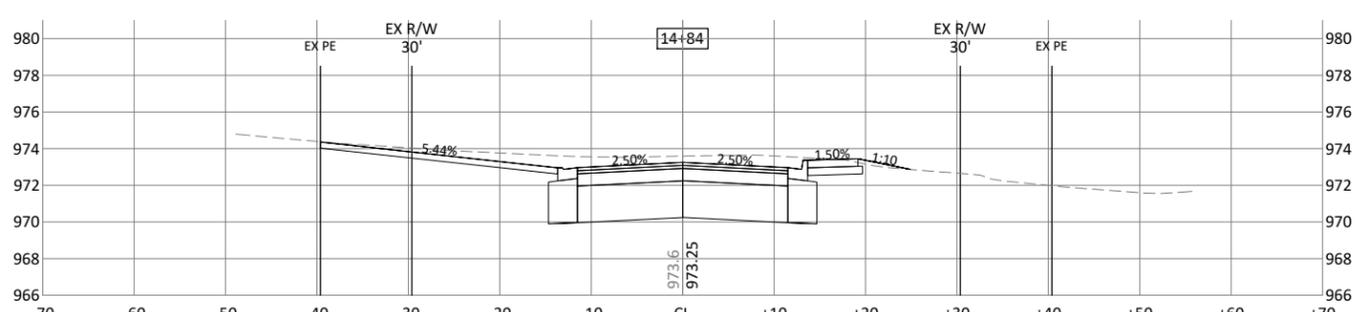
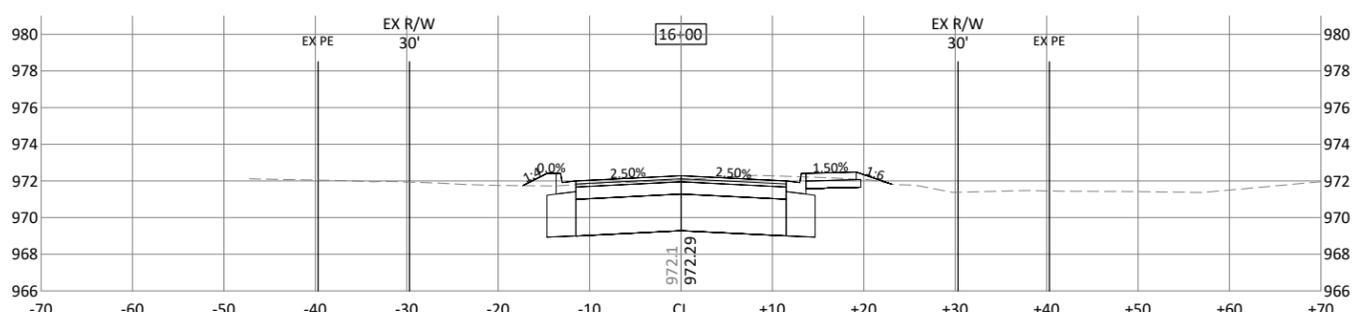
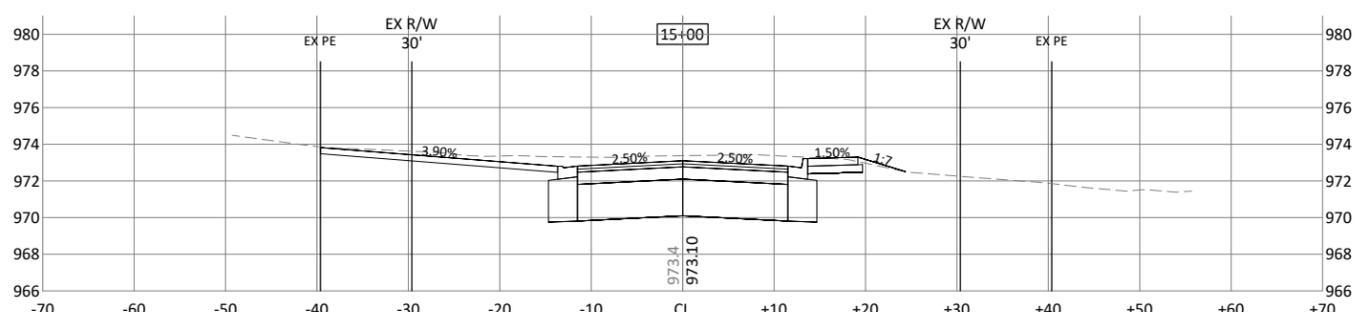
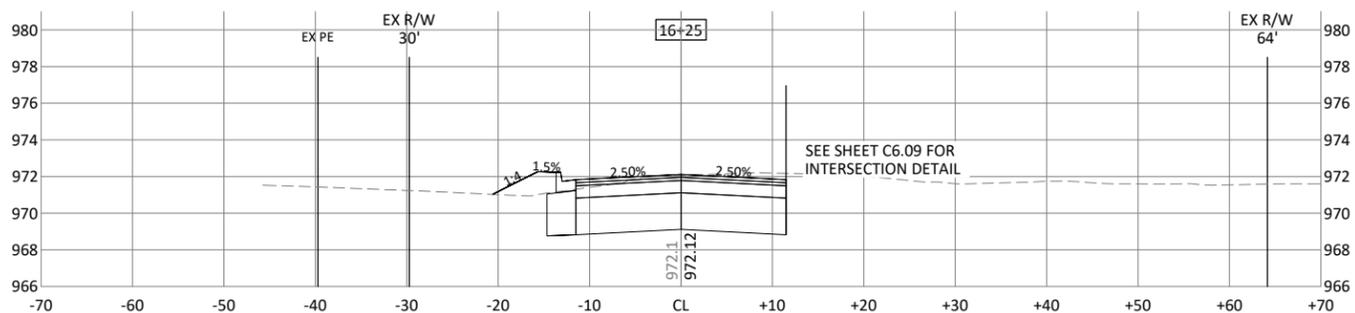
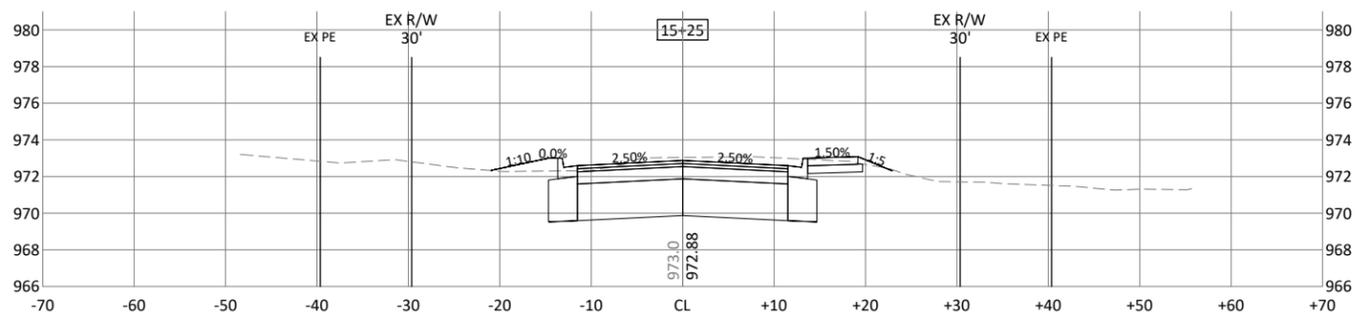
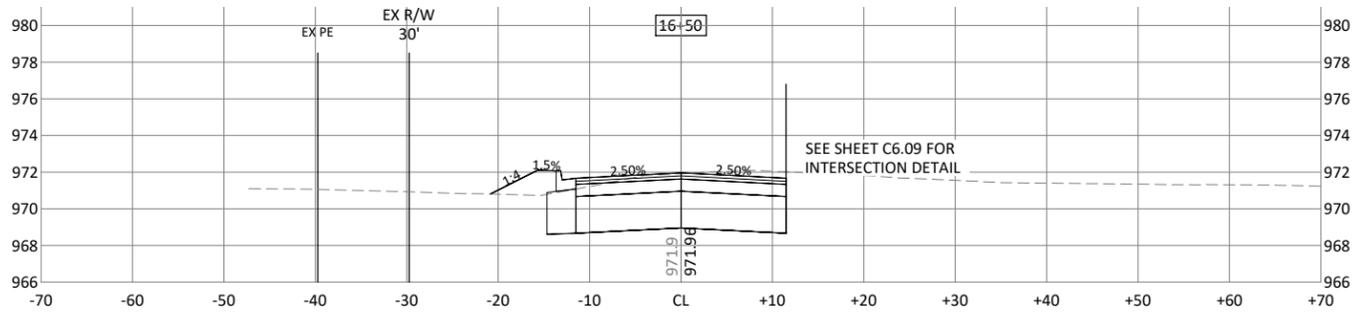
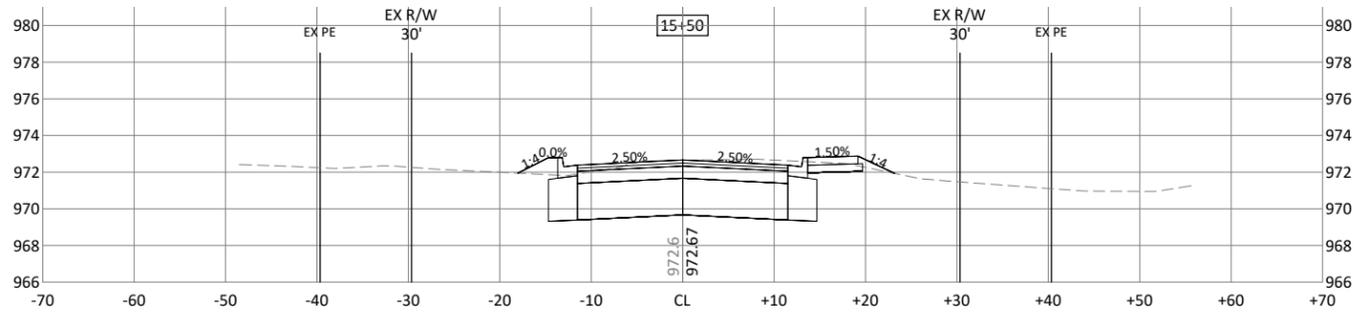
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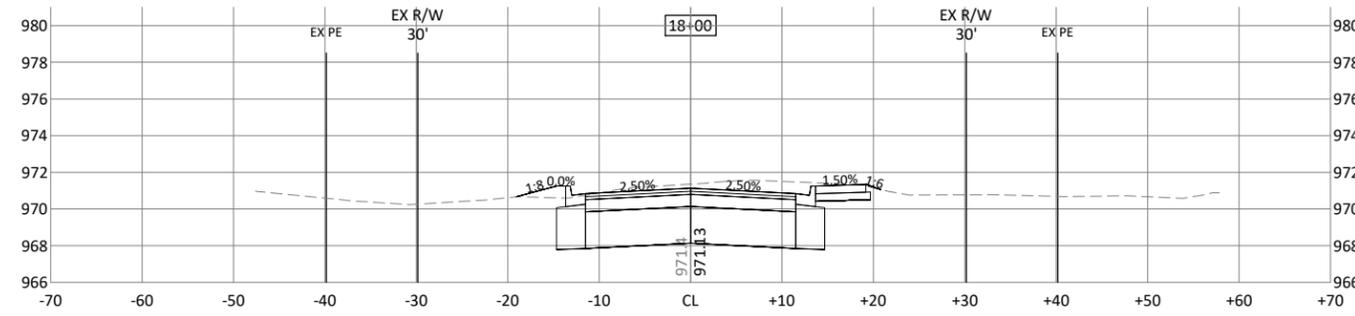
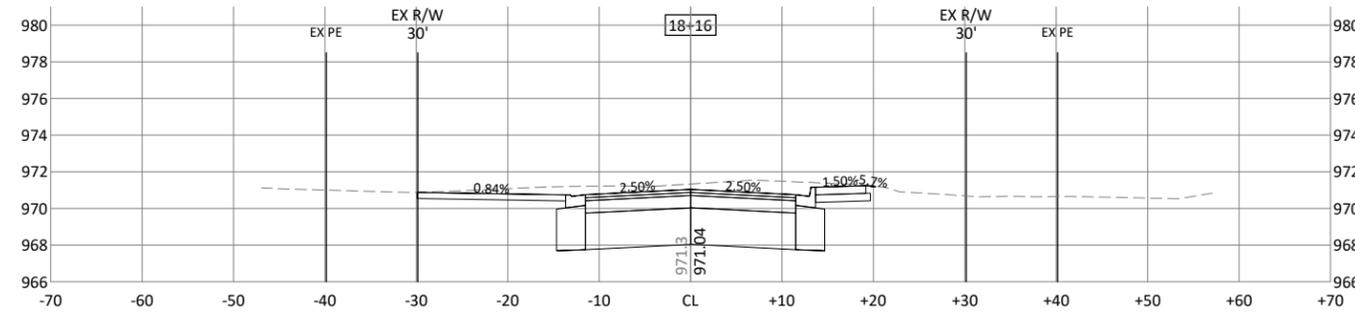
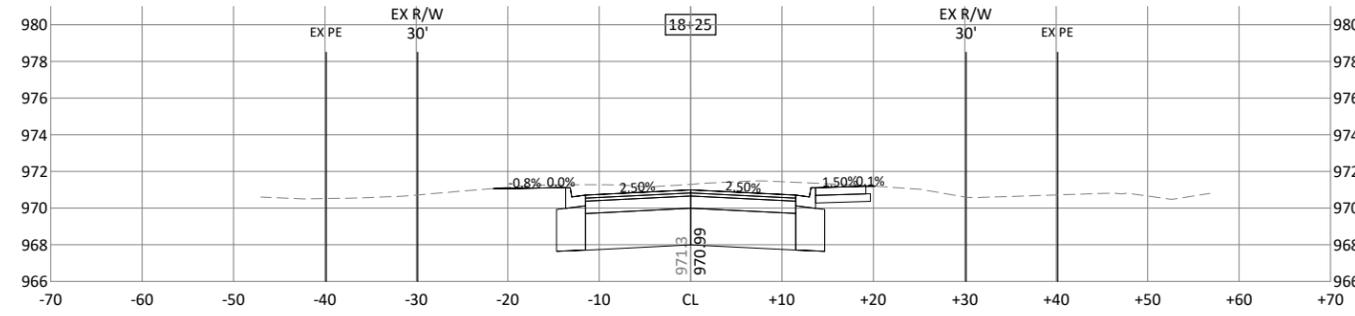
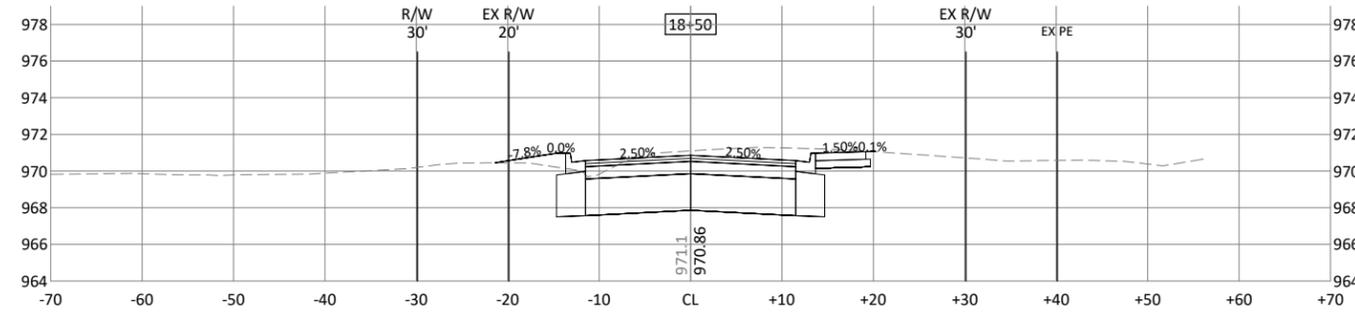
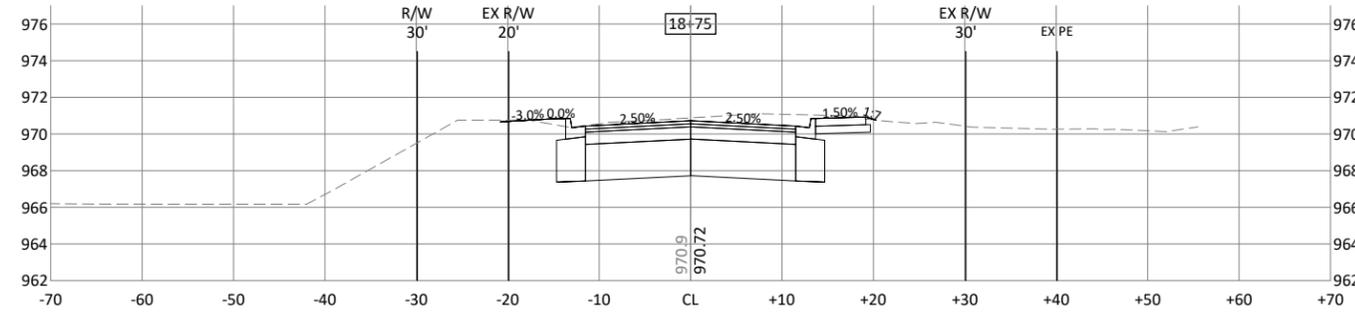
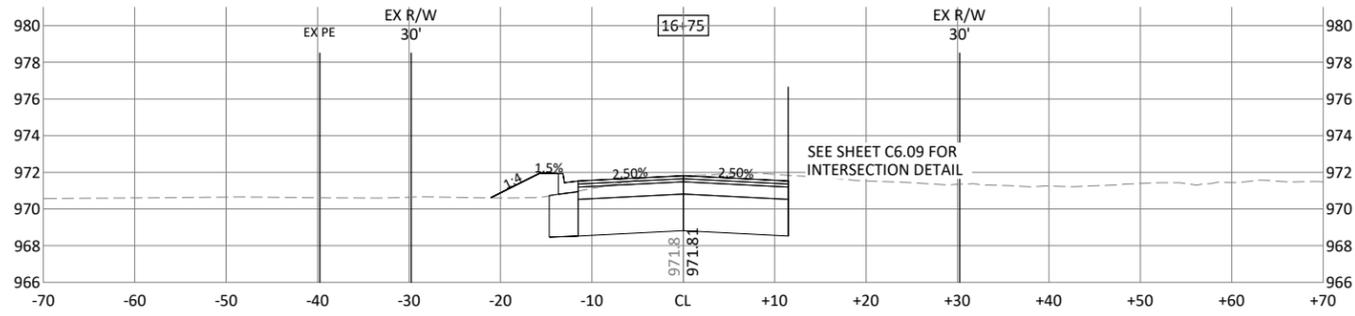
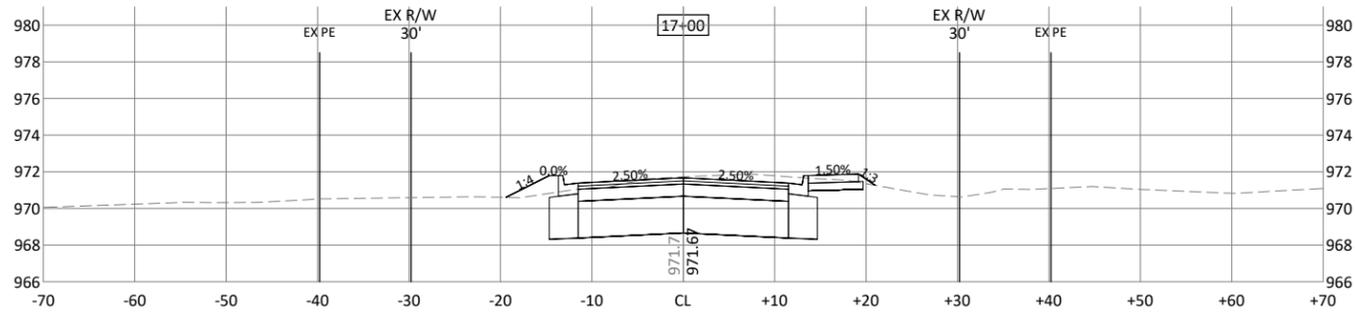
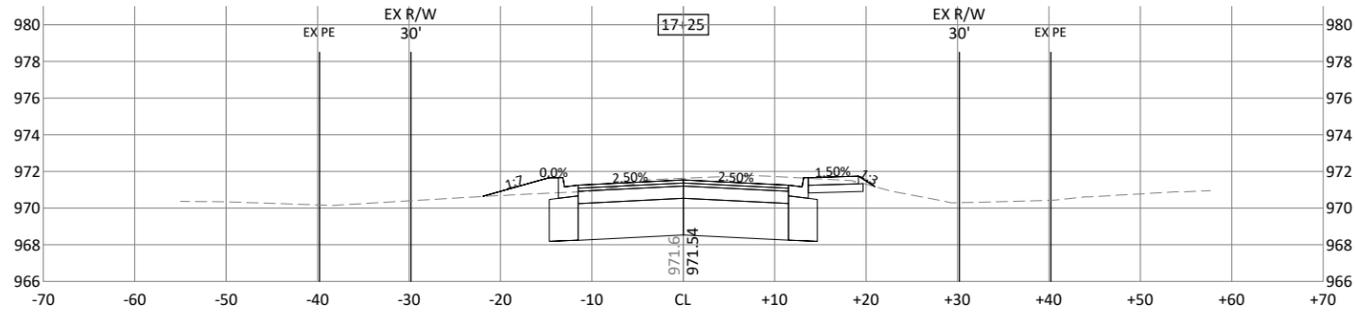
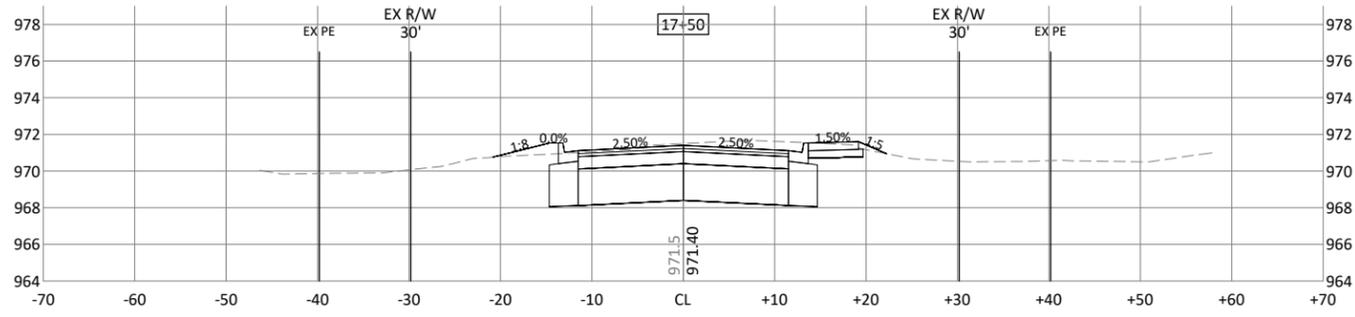
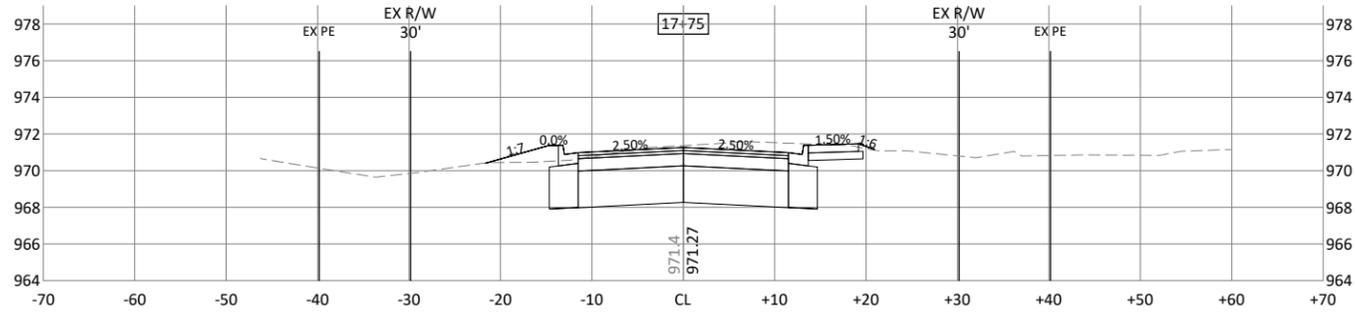
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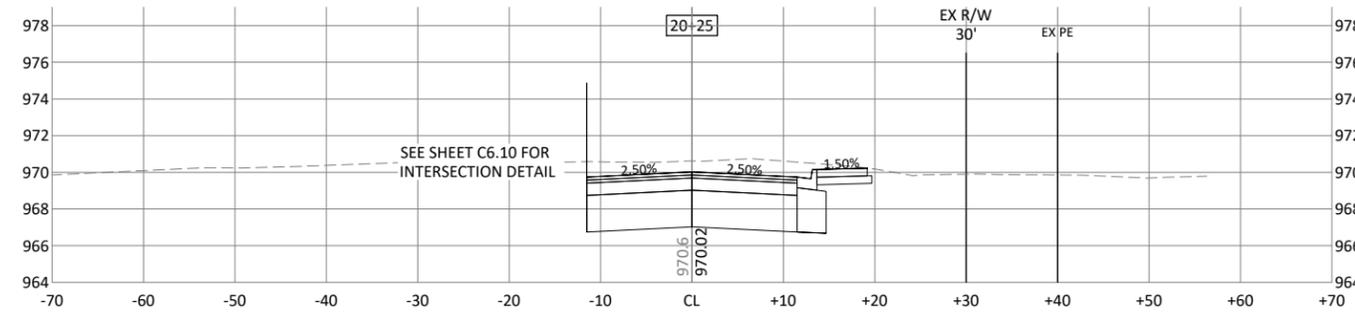
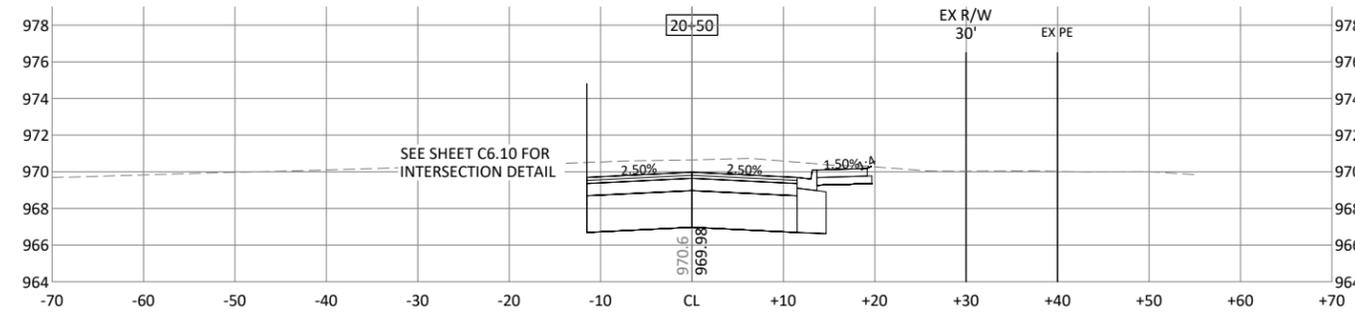
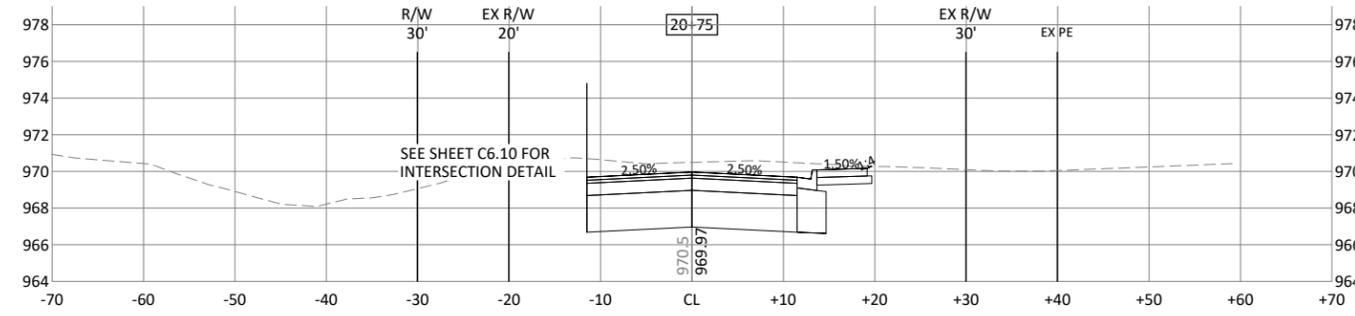
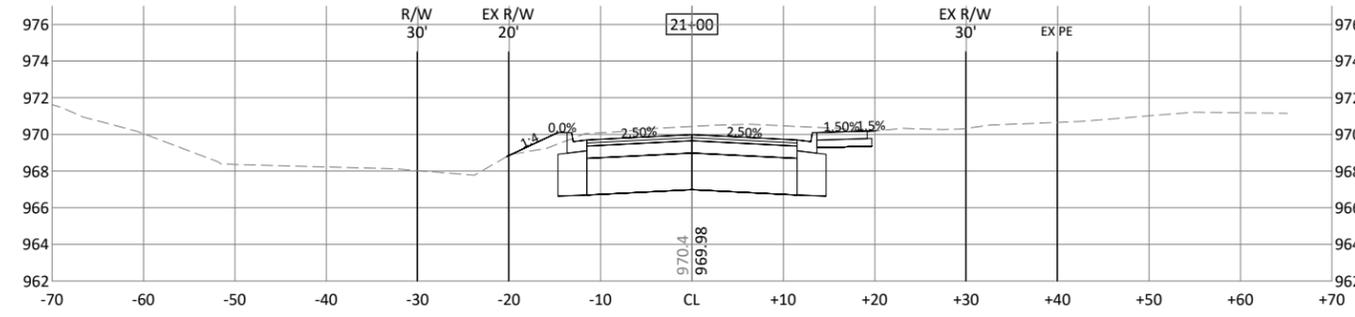
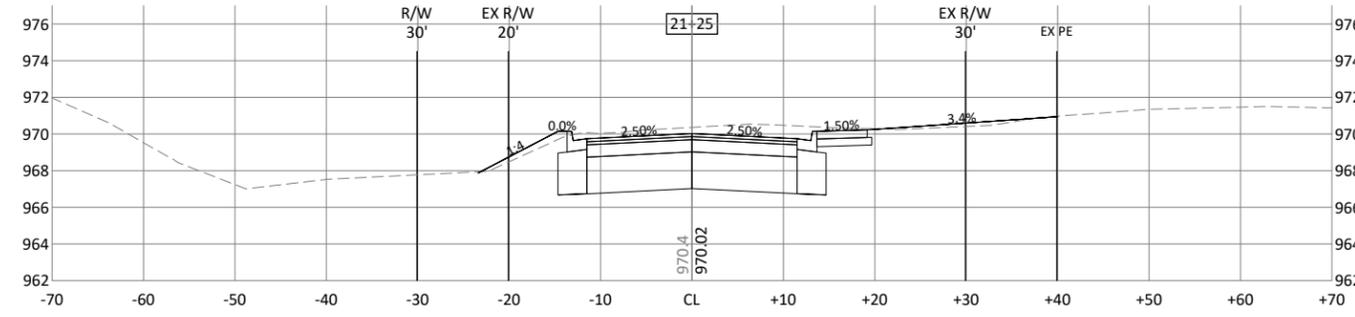
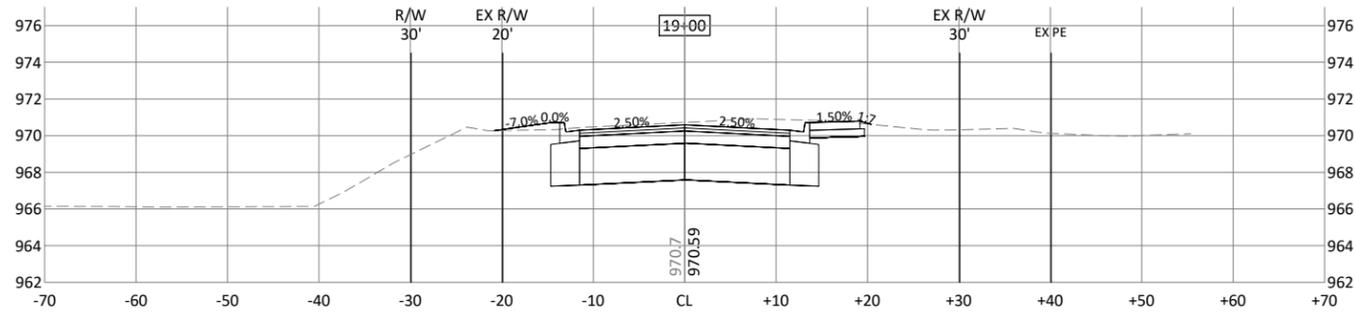
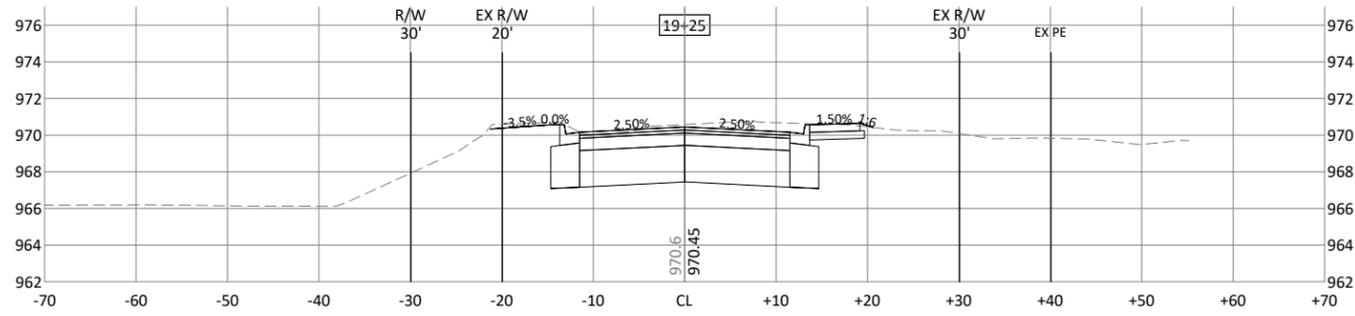
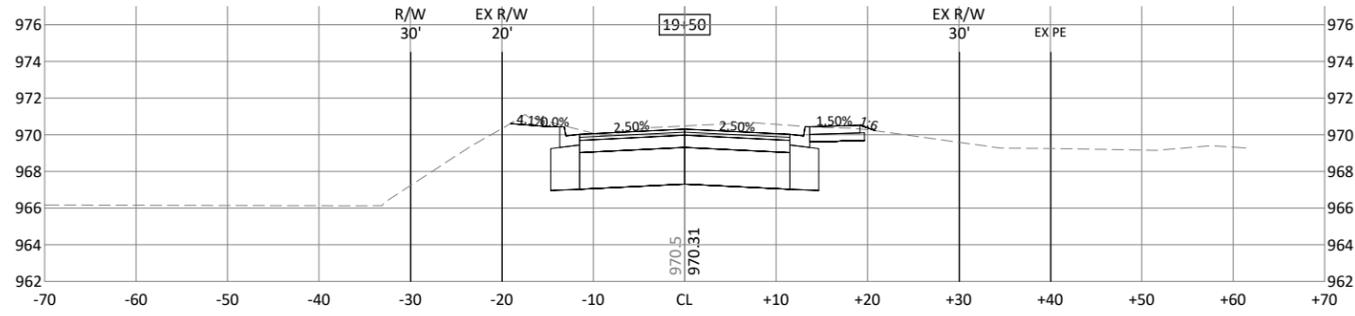
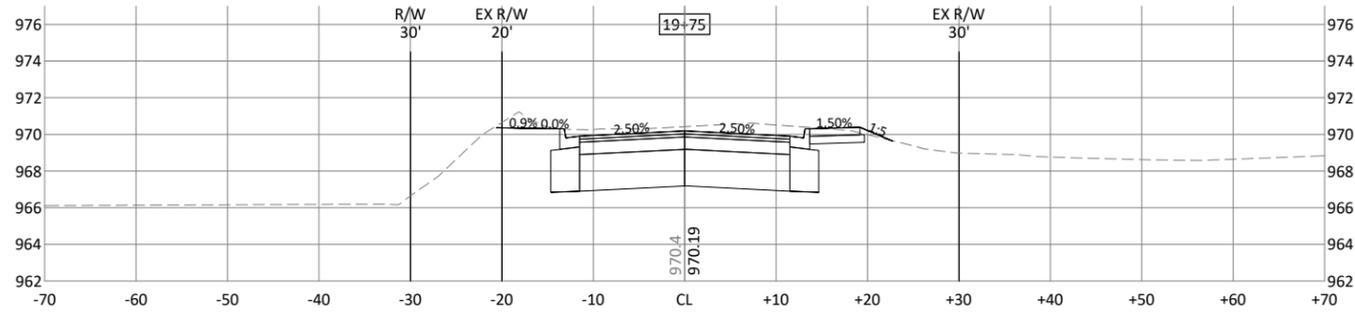
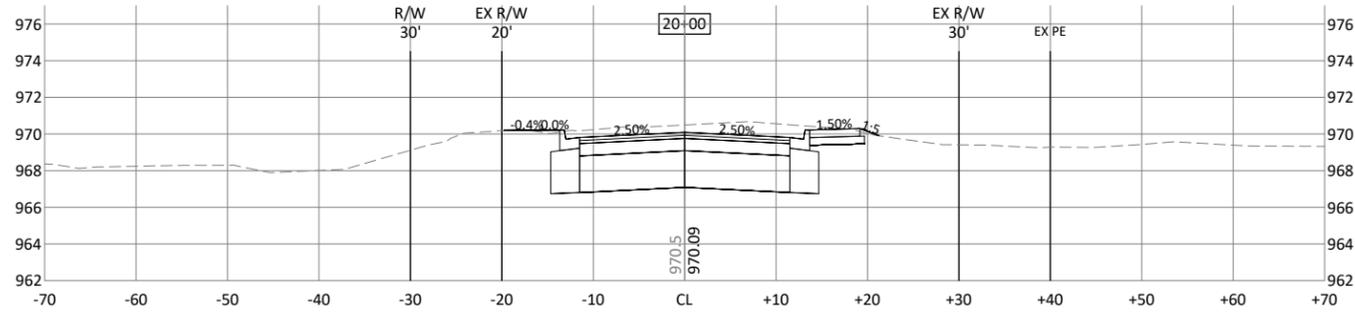
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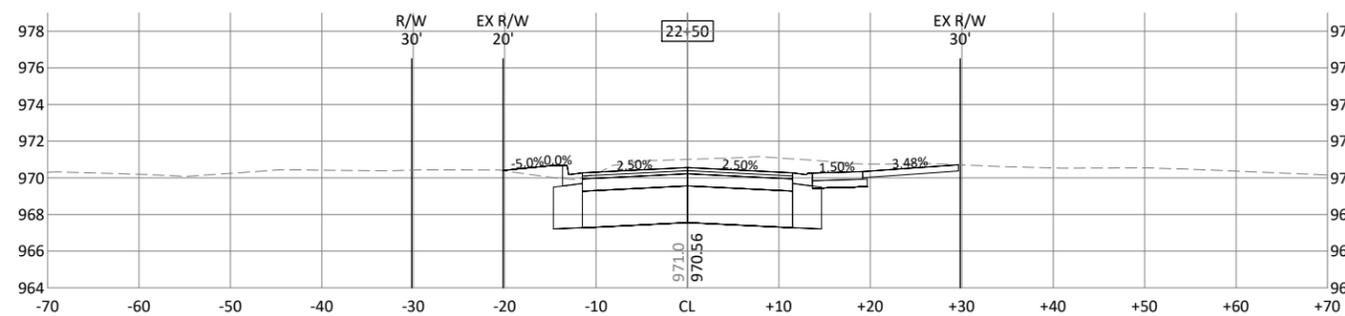
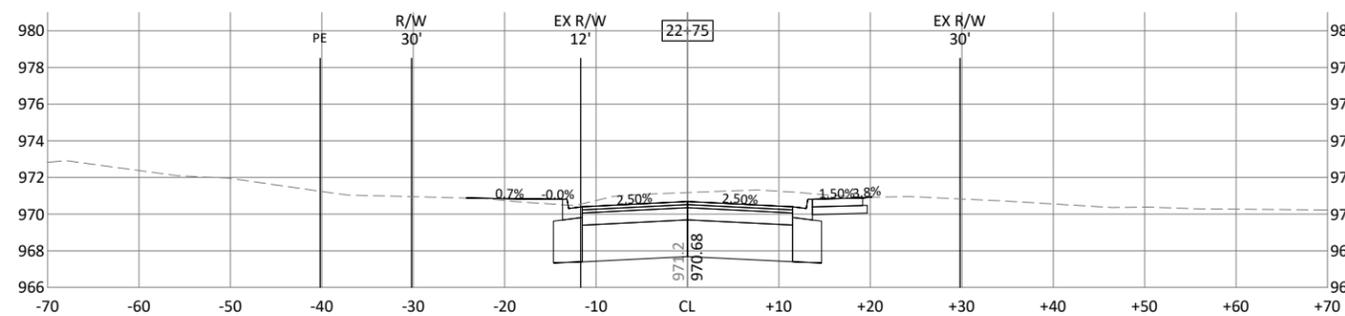
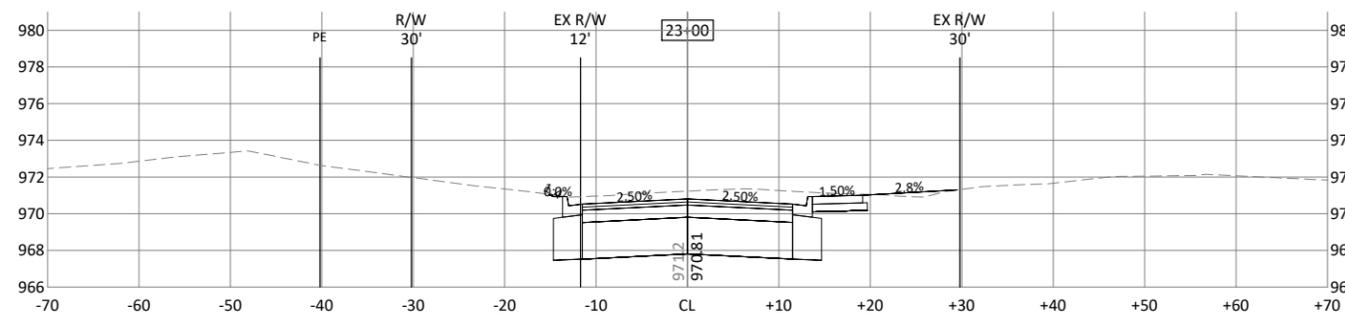
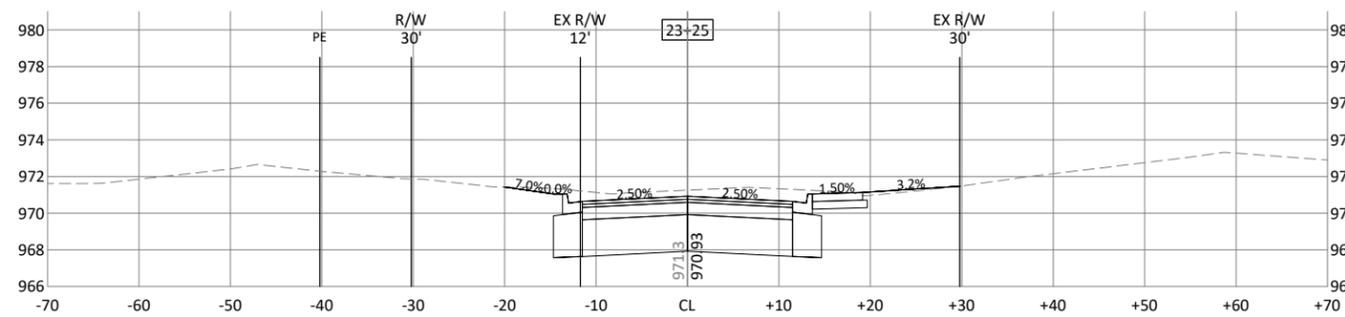
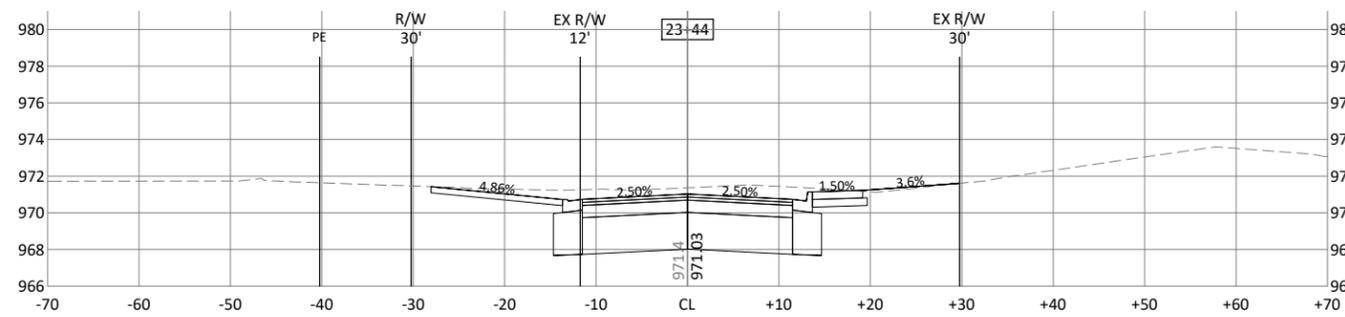
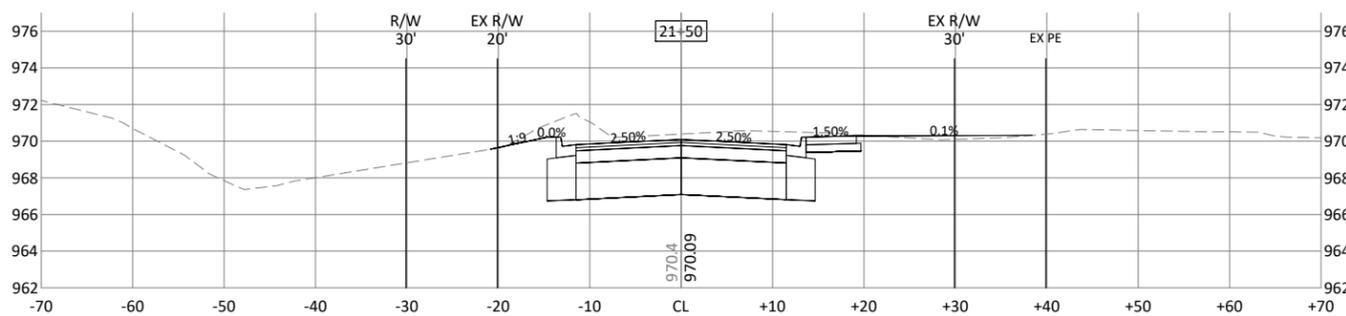
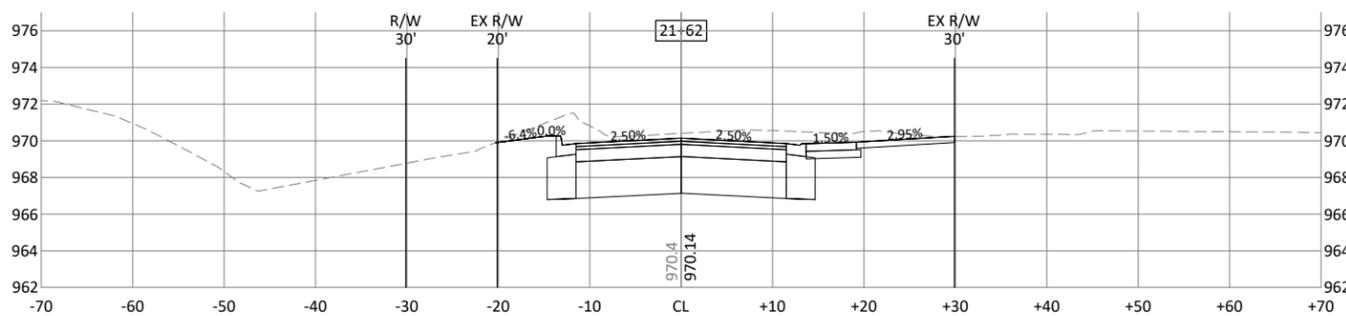
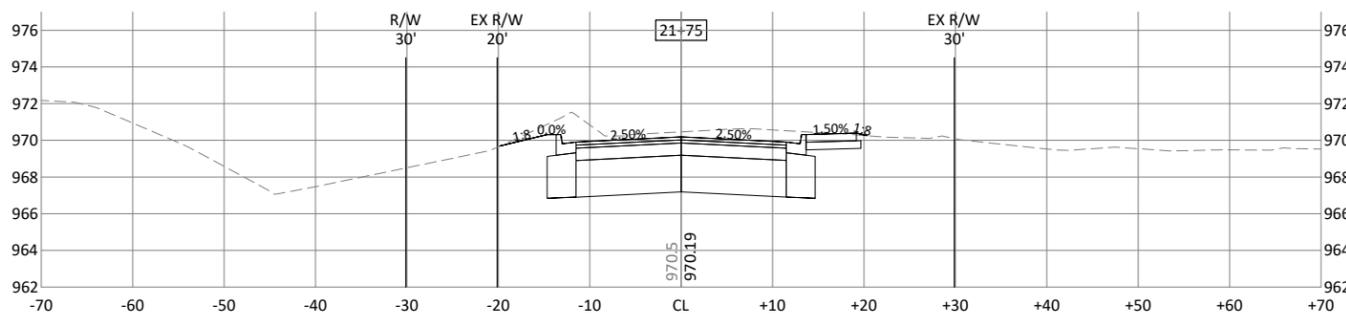
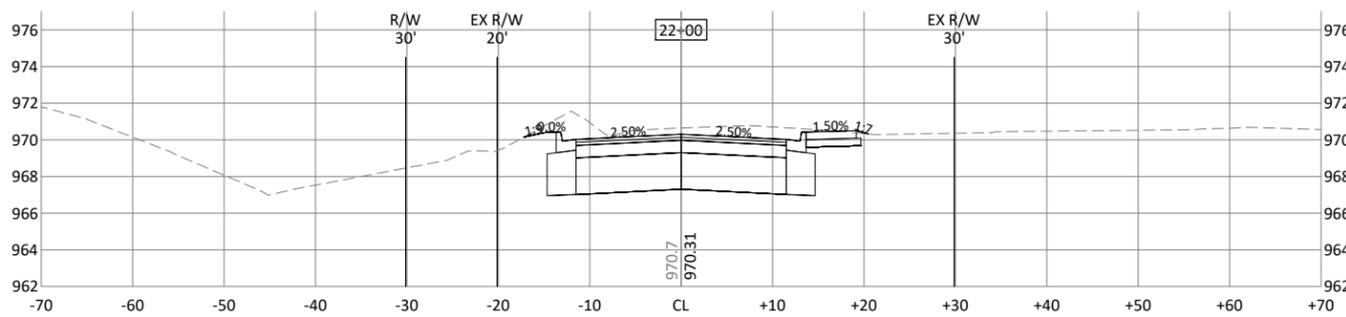
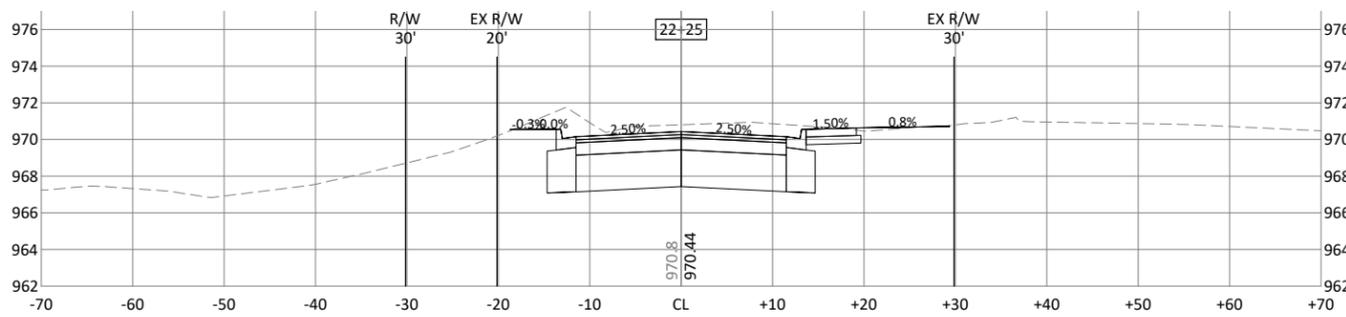
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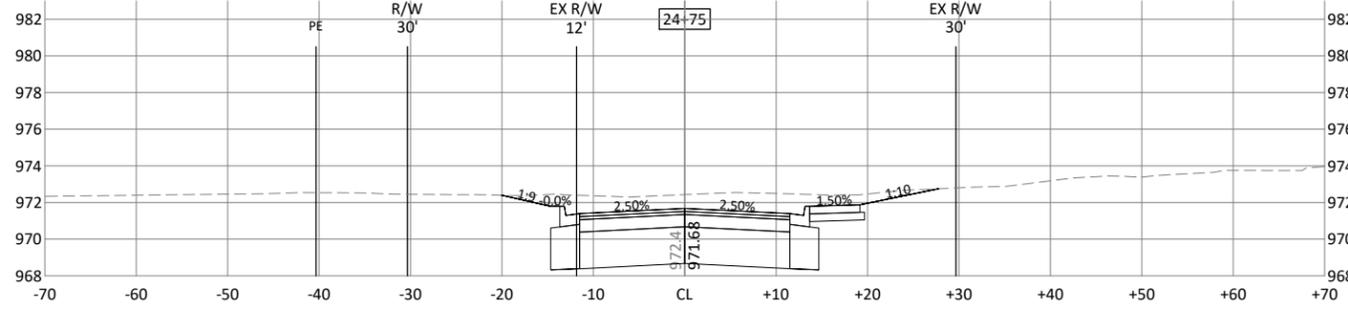
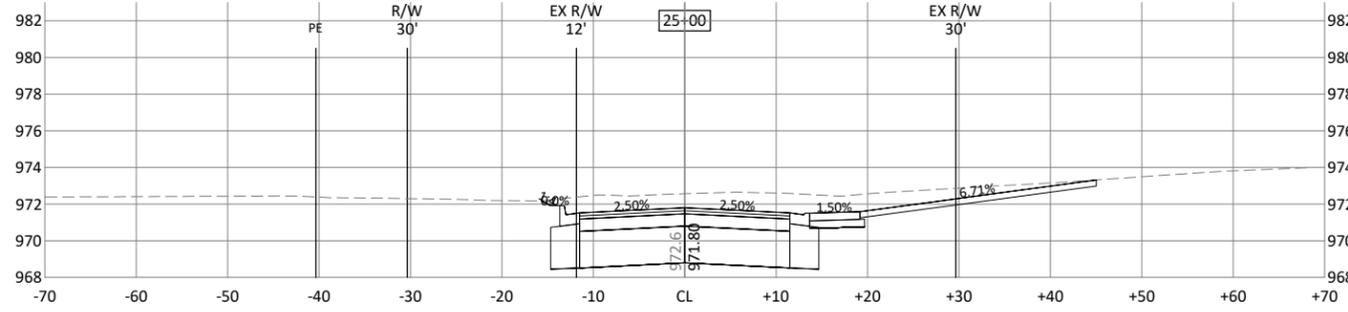
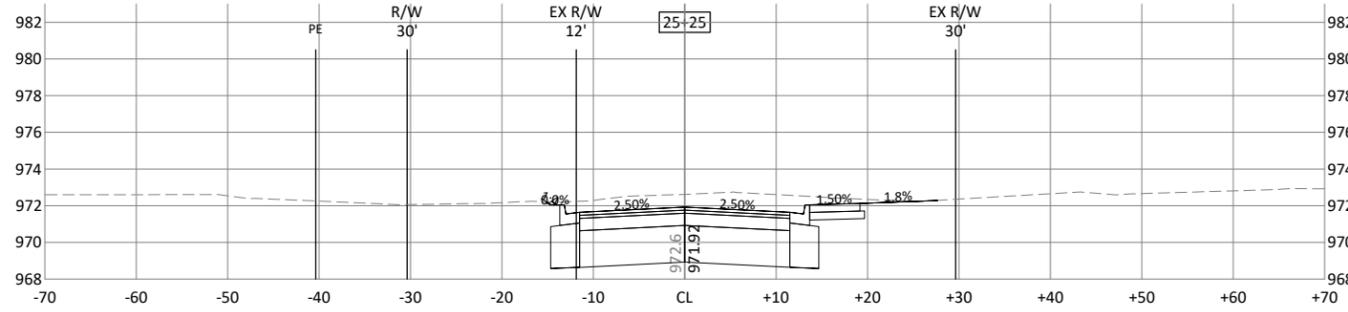
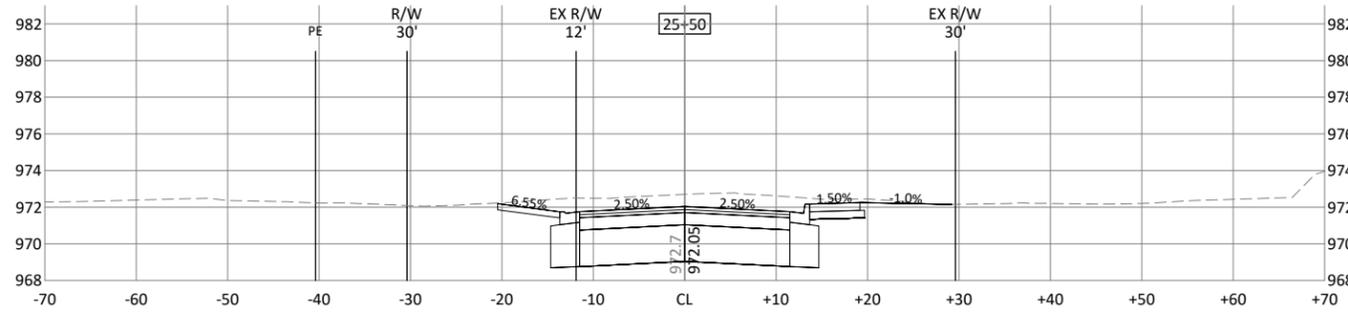
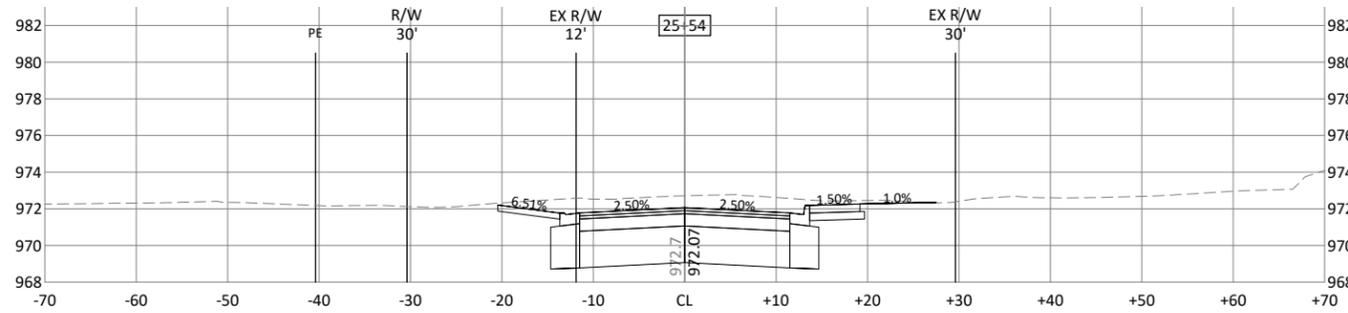
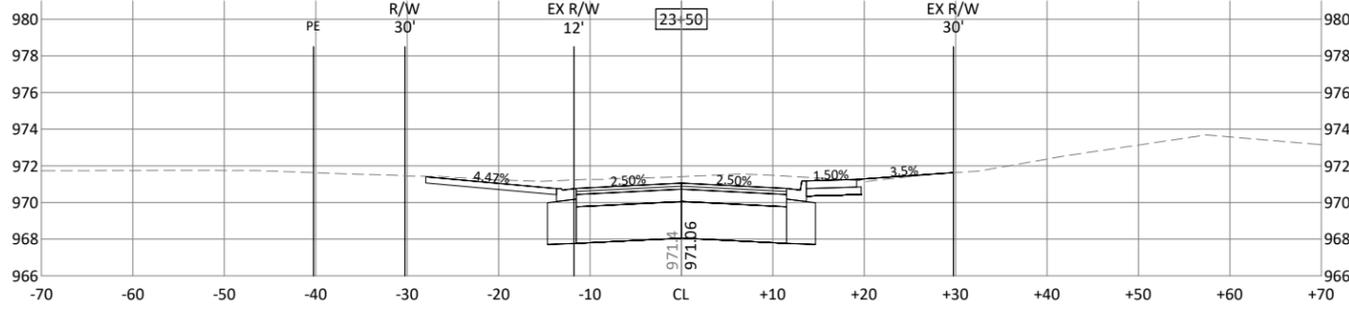
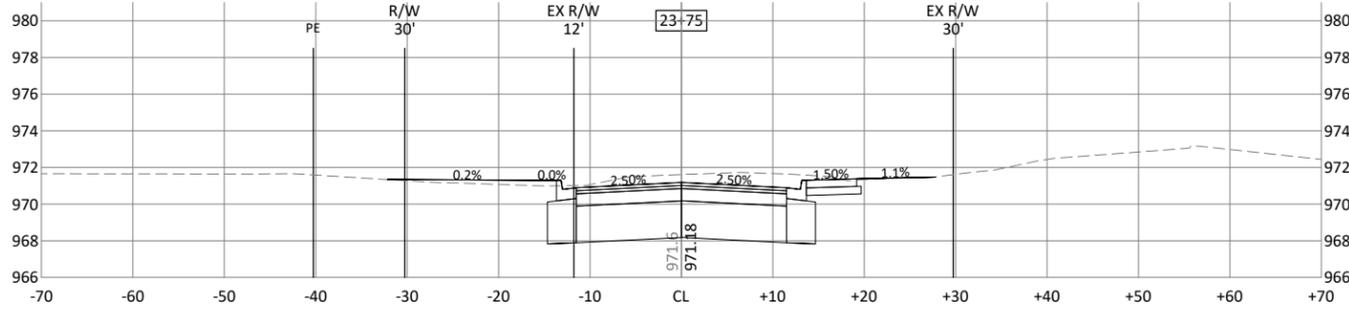
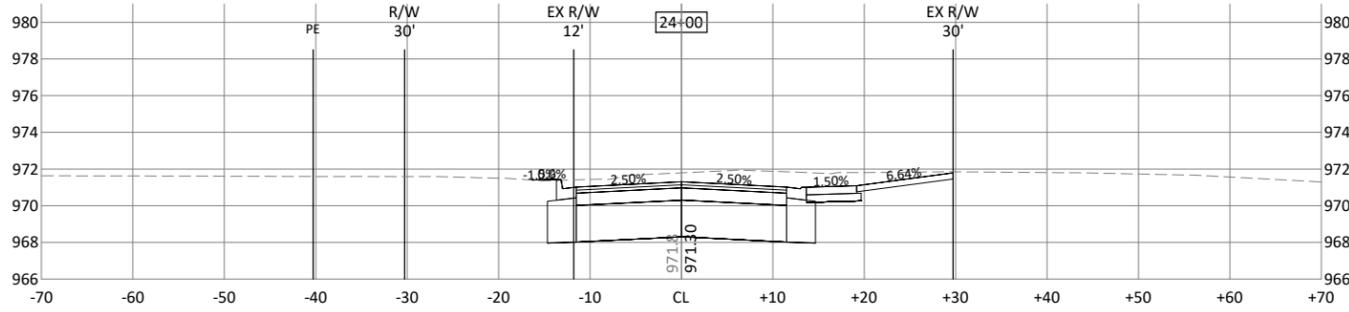
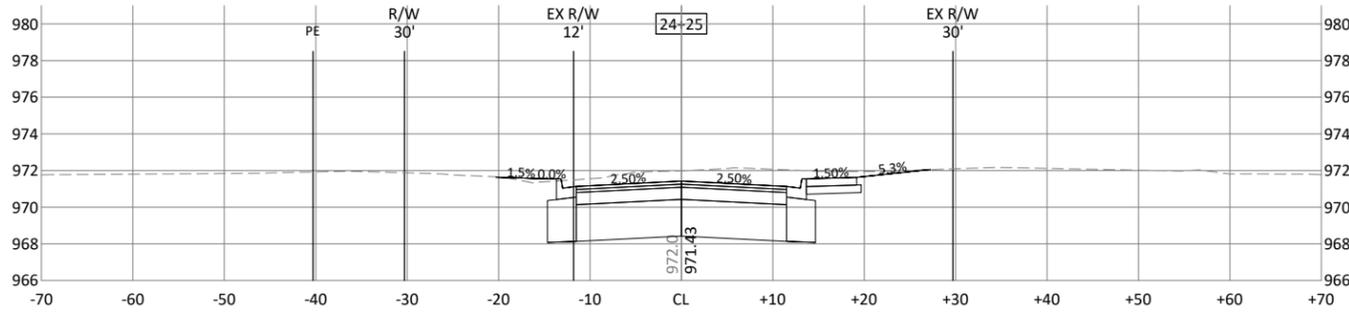
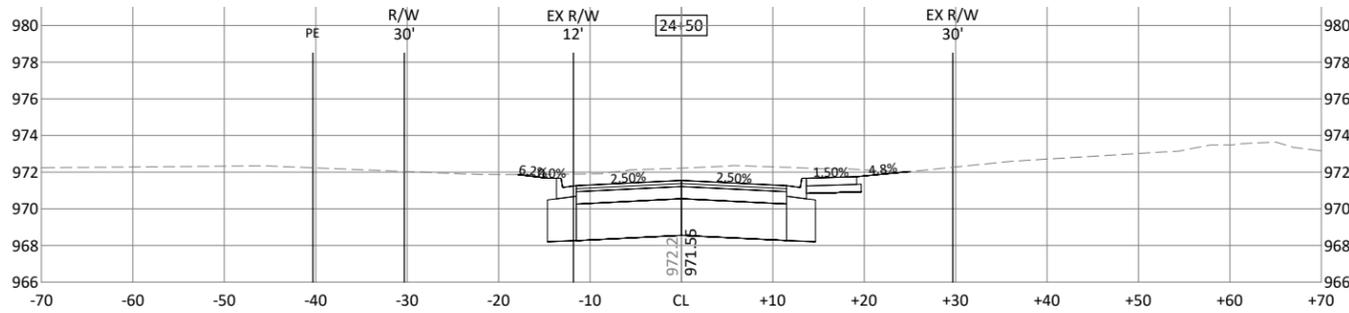
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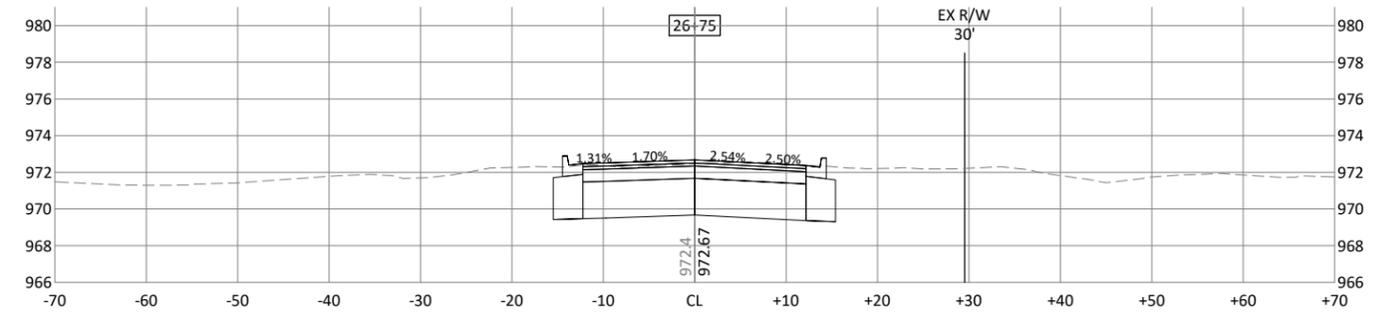
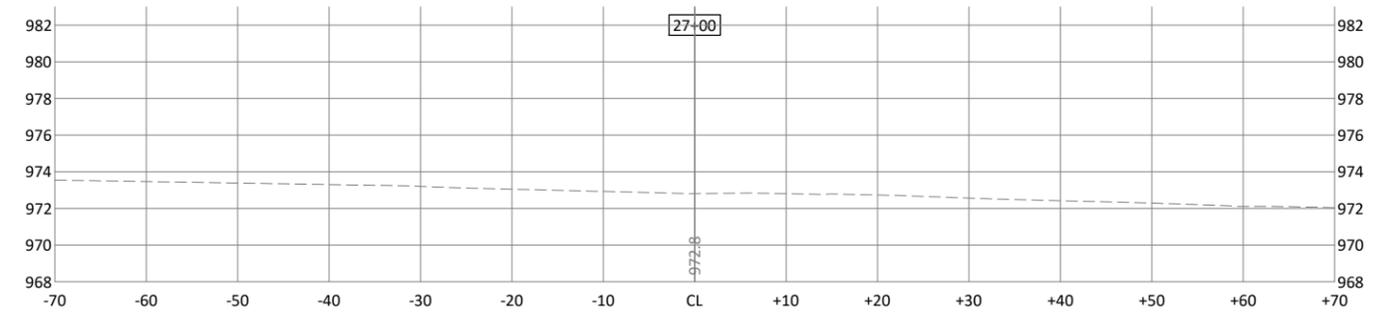
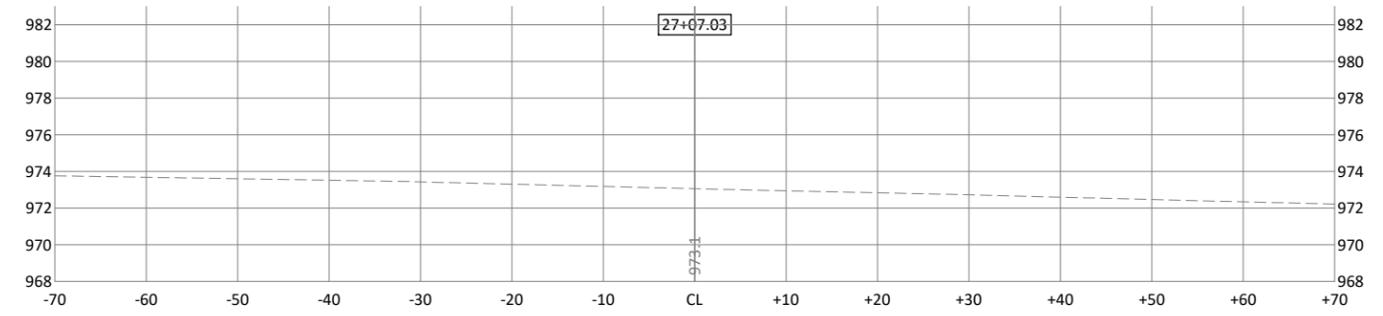
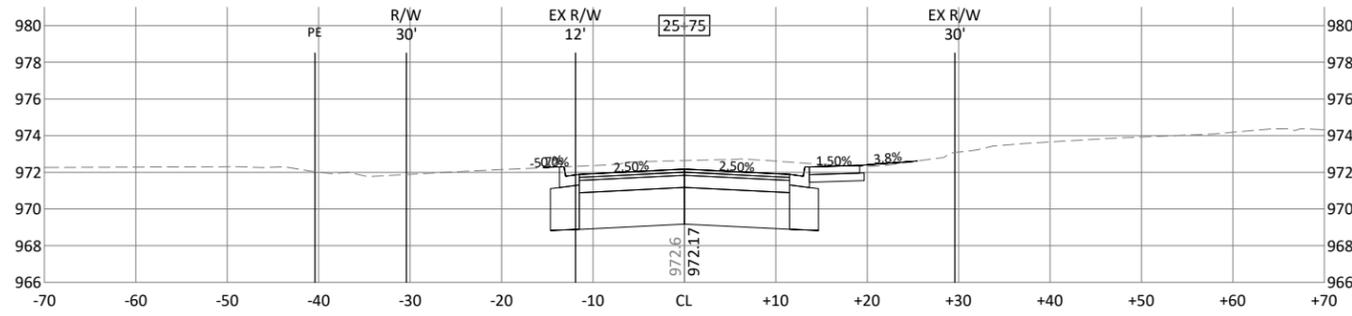
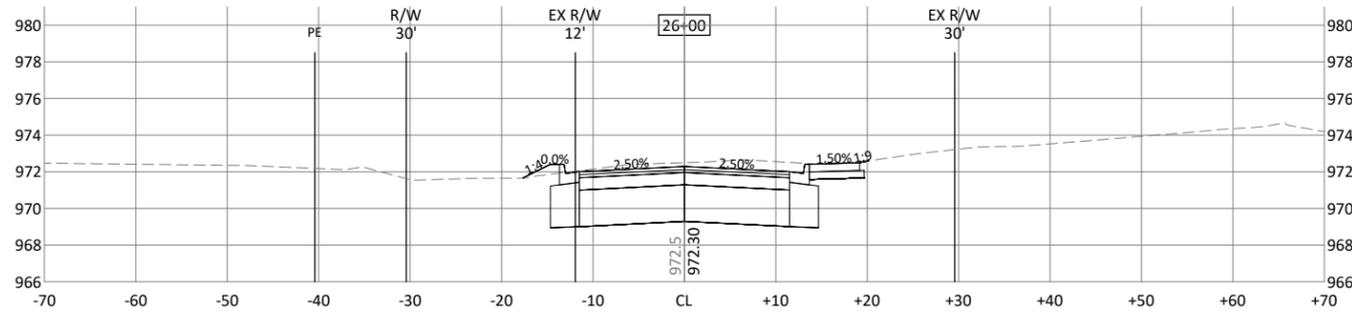
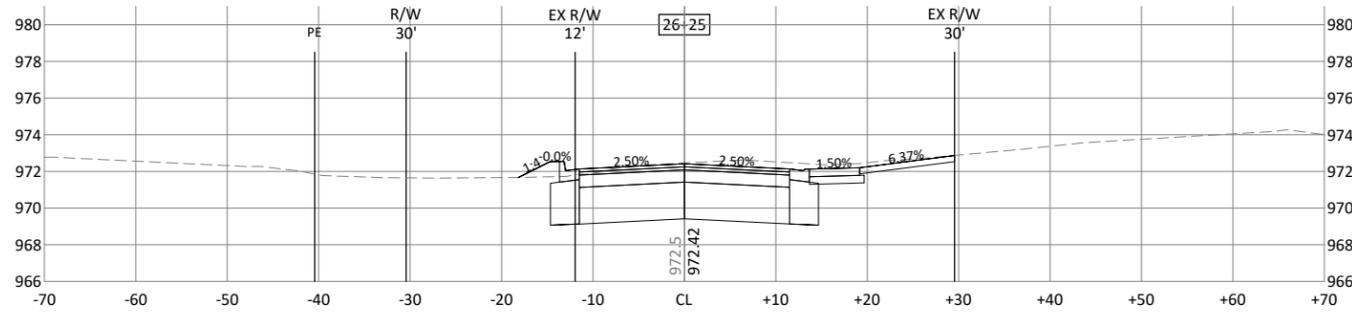
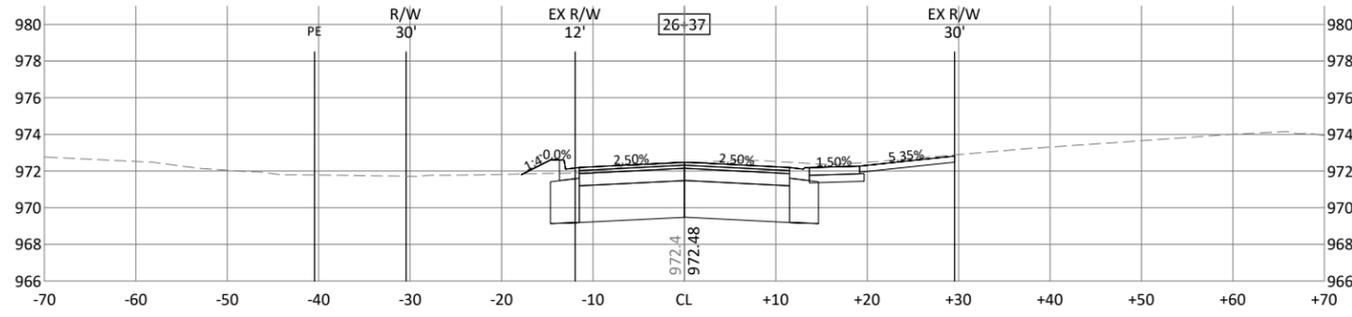
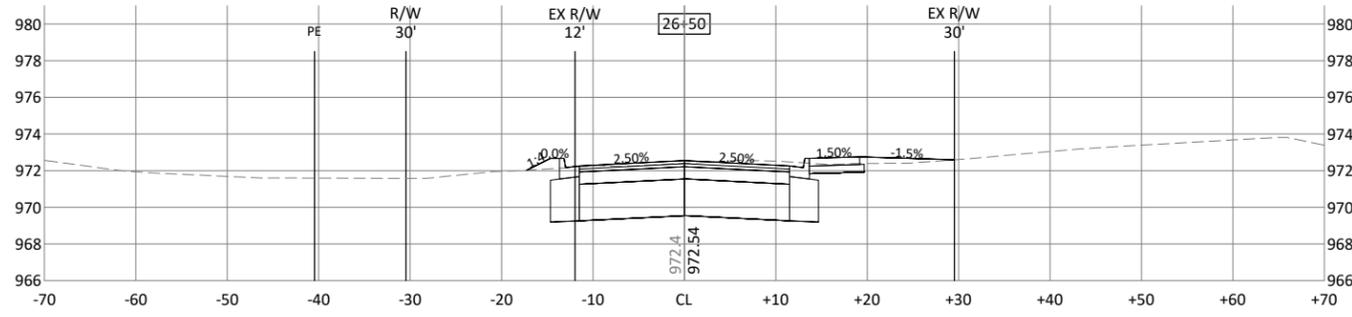
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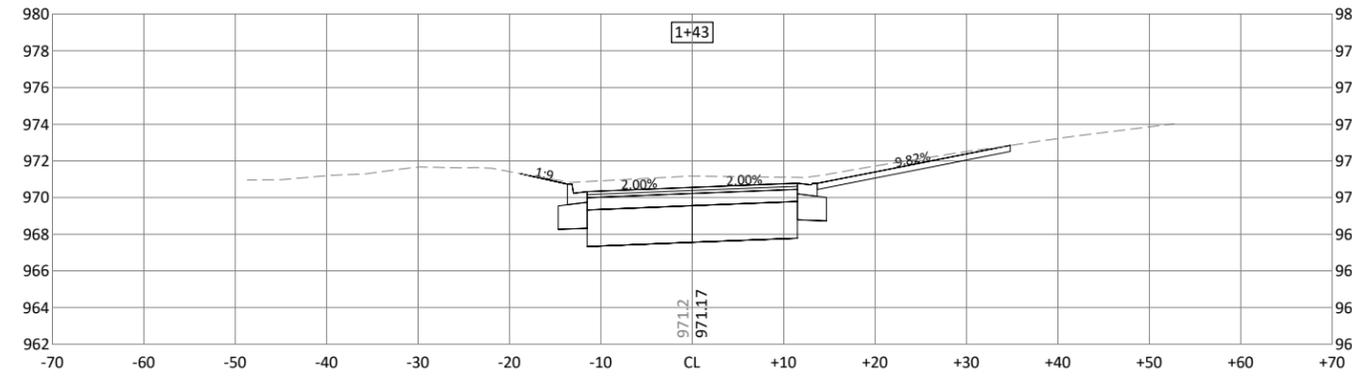
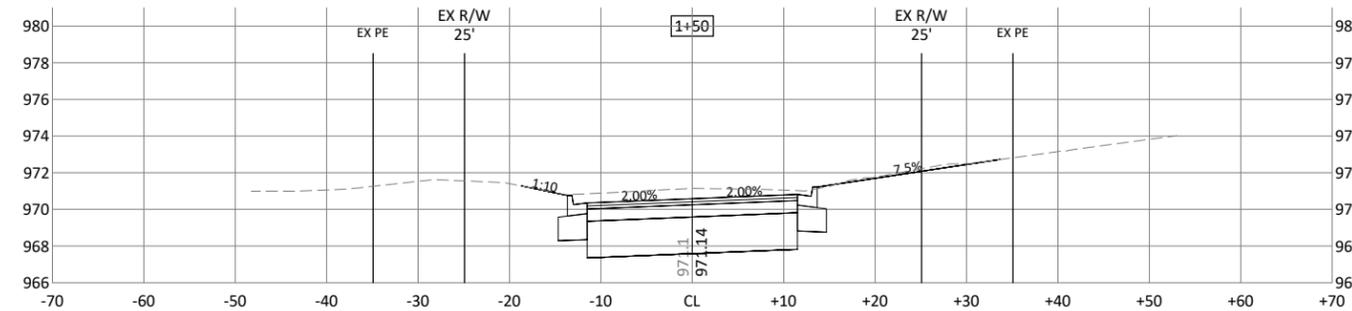
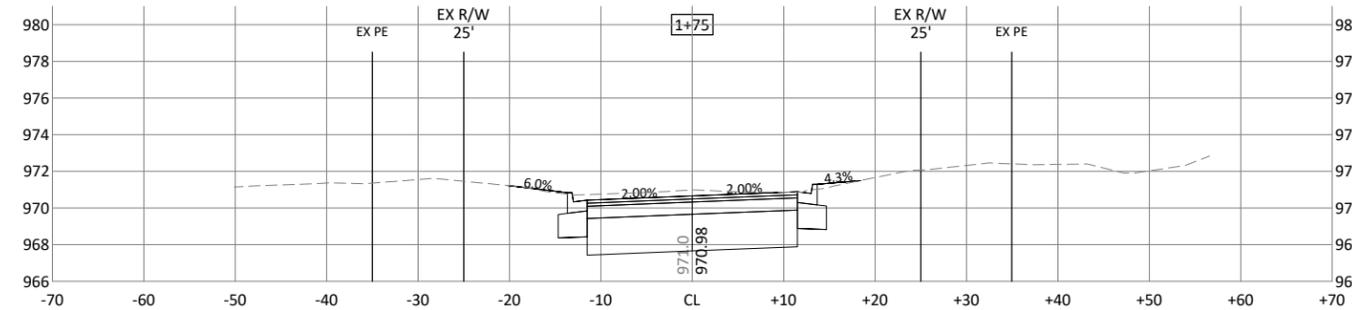
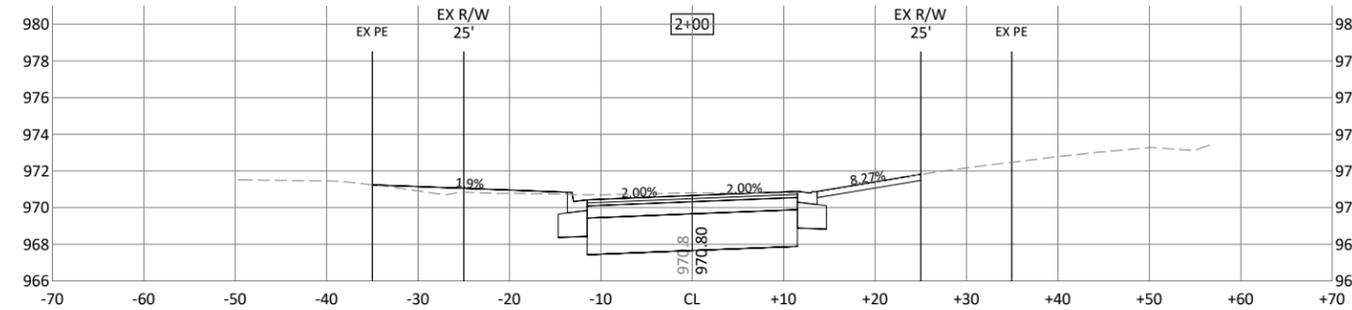
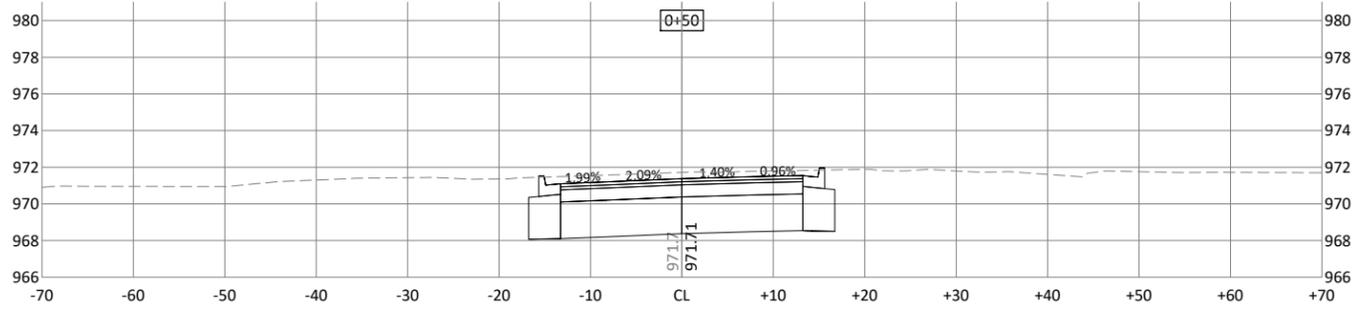
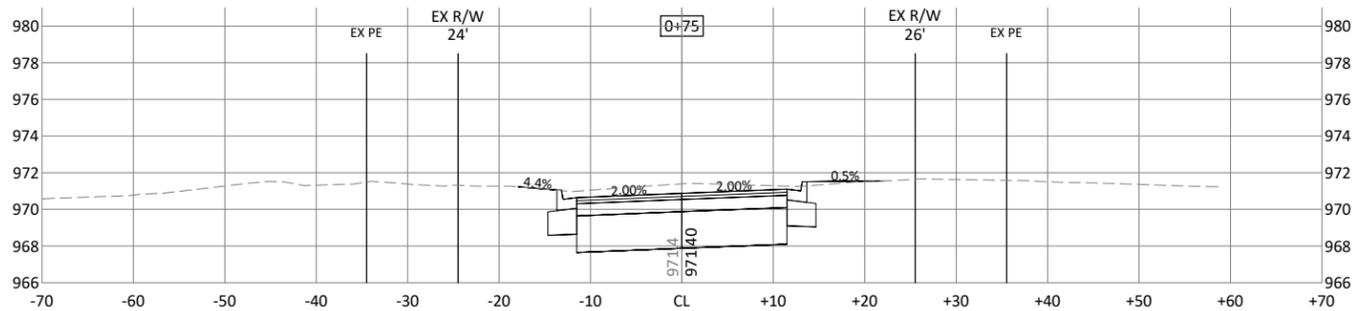
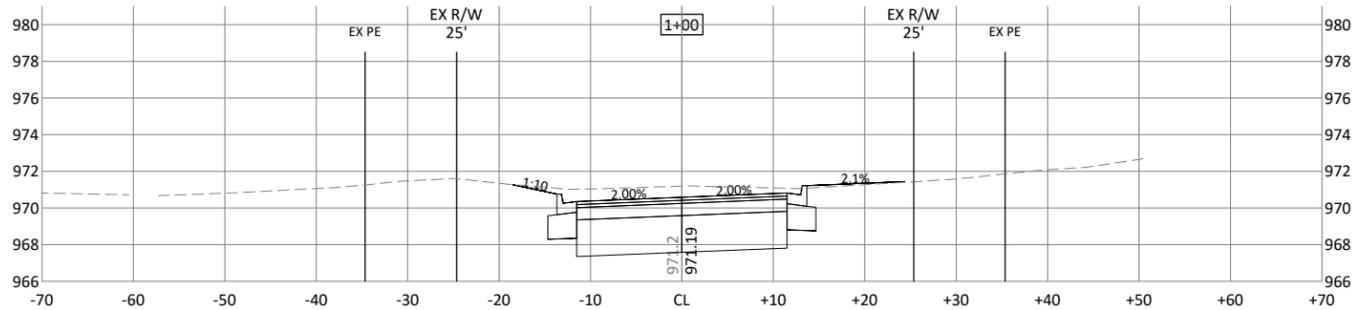
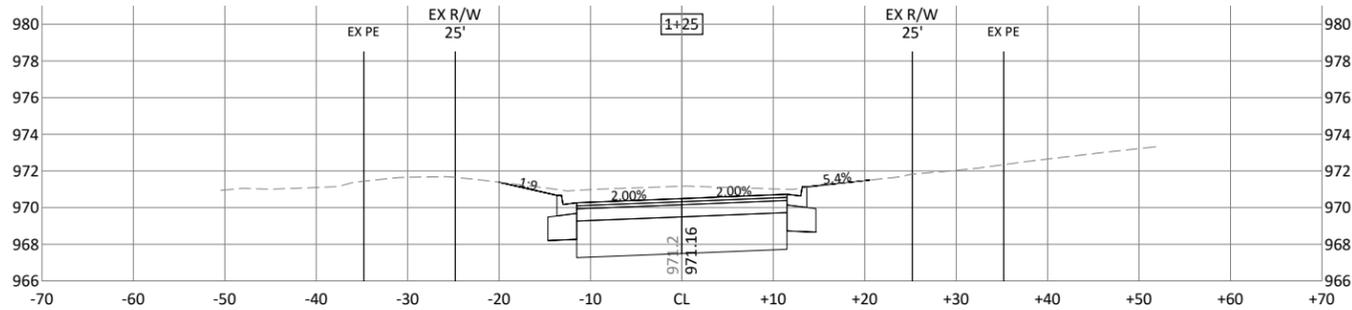
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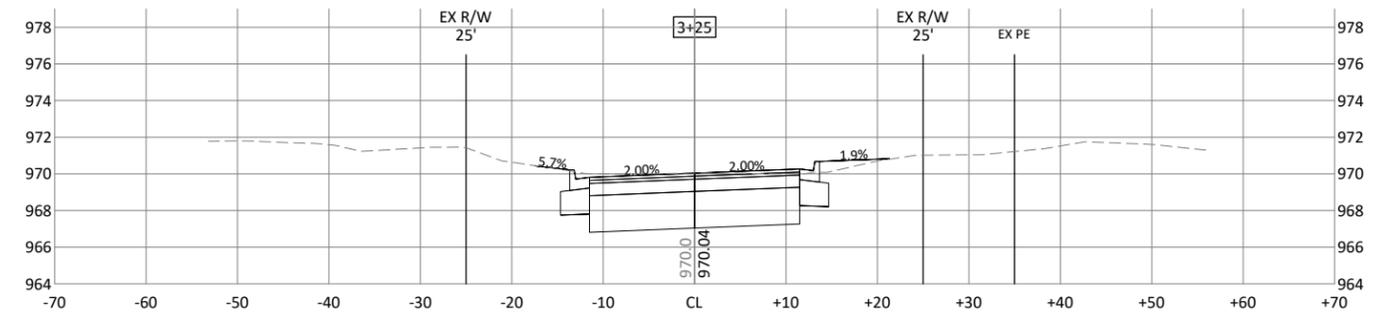
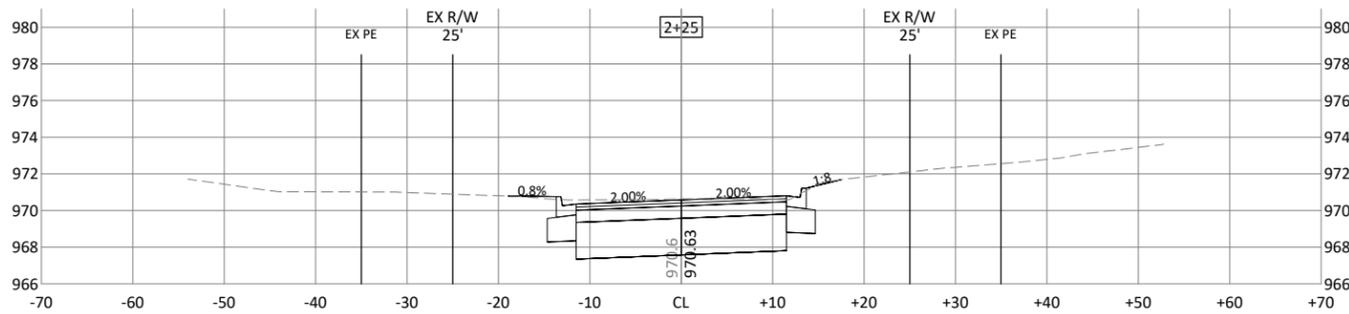
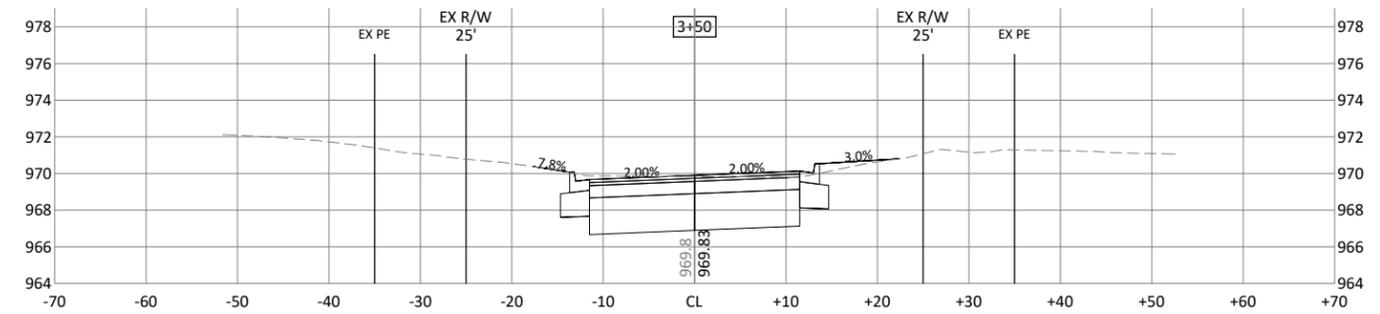
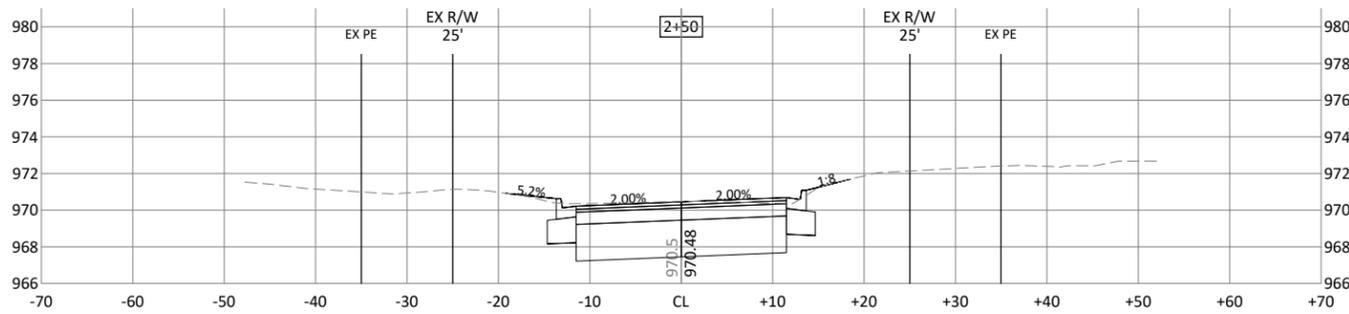
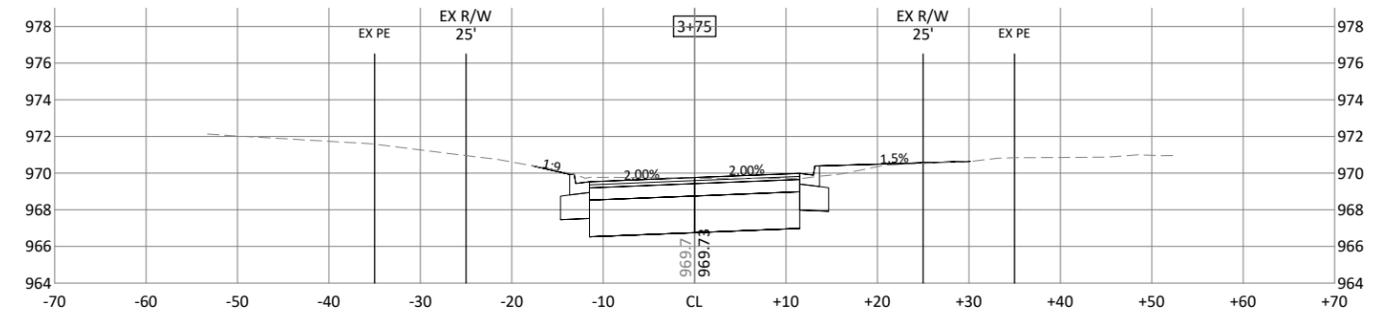
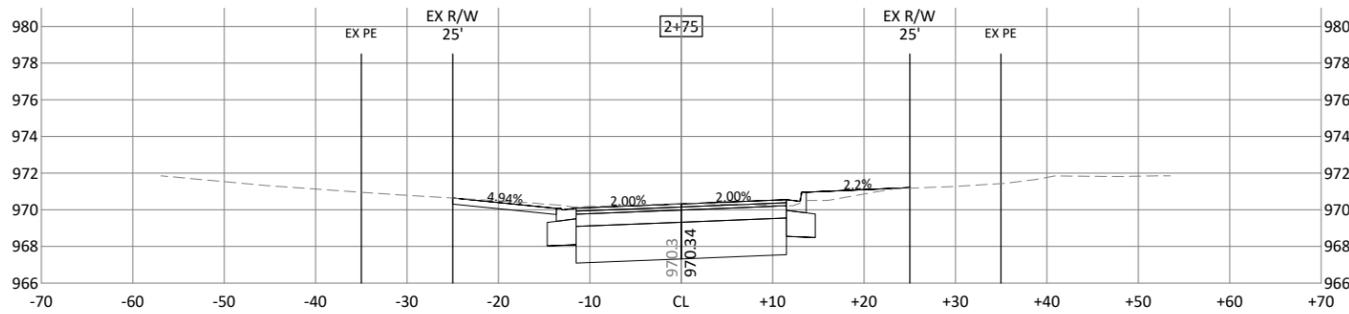
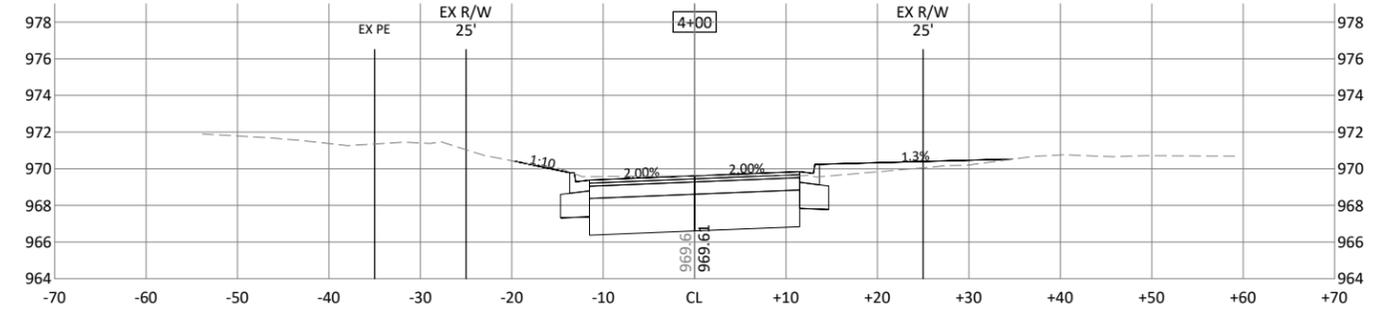
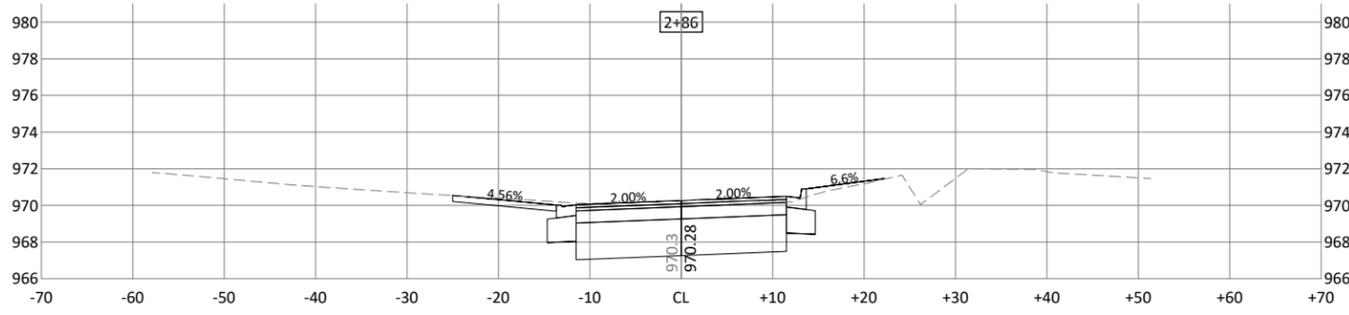
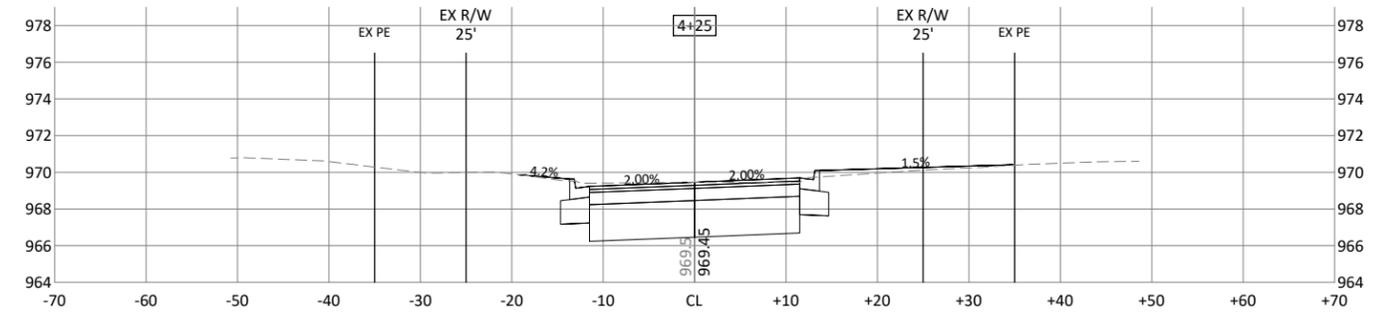
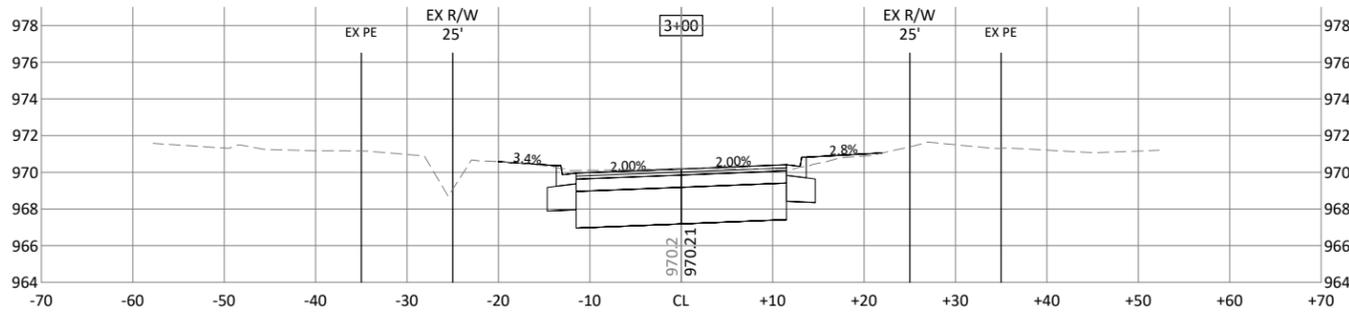
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