FITCHRONA ROAD RECONSTRUCTION
(TONTO TRAIL TO NESBITT ROAD)

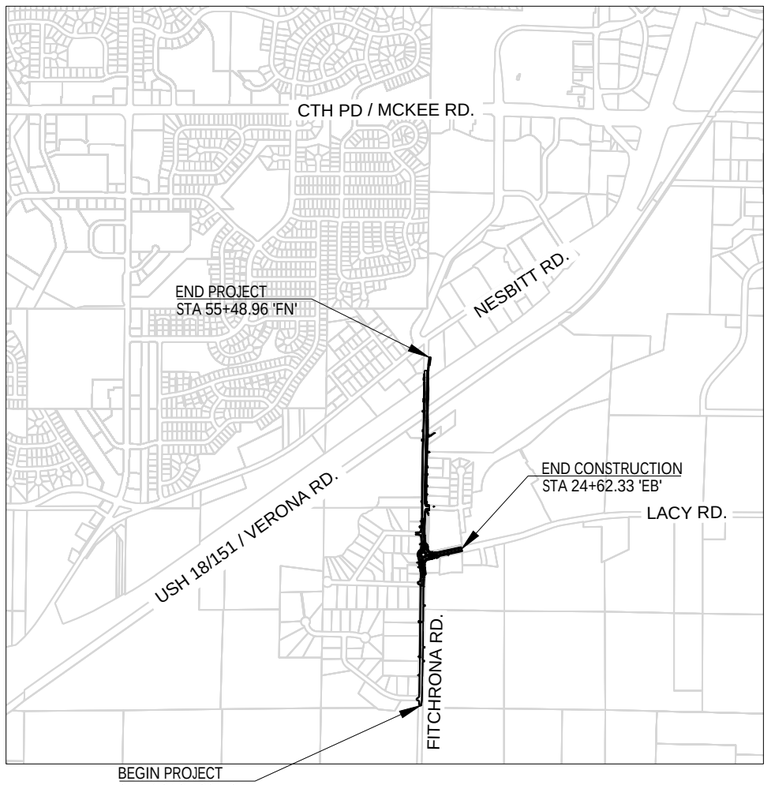
PLAN OF PROPOSED IMPROVEMENT
FOR THE
CITY OF FITCHBURG AND TOWN OF VERONA
DANE COUNTY, WISCONSIN
JULY, 2024

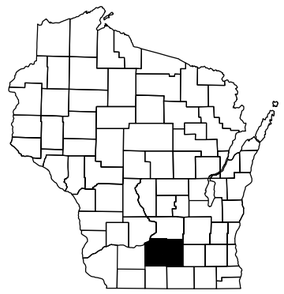
PROJECT NO. 25-3492

SHEET INDEX

SHEET NO.	SHEET DESCRIPTION
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C-311	ALIGNMENT DIAGRAM
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C-801	STRUCTURE PLANS
C-901	CROSS SECTIONS

PROJECT LOCATION MAP





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

LEGEND

EXISTING UTILITIES
- EXISTING UNDERGROUND GAS — G
- EXISTING UNDERGROUND TELEPHONE — T
- EXISTING OVERHEAD TELEPHONE — T
- EXISTING FIBER OPTIC — FO
- EXISTING UNDERGROUND ELECTRIC — E
- EXISTING OVERHEAD ELECTRIC — OH
- EXISTING SANITARY — SAN
- EXISTING STORM — SS
- EXISTING WATER — W

PROPOSED UTILITIES
- PROPOSED SANITARY — SAN
- PROPOSED STORM — SS
- PROPOSED WATER — W

OTHER
- FENCE
- SILT FENCE
- INLET
- MH MANHOLE
- GV GAS VALVE
- SV SANITARY VALVE
- WV WATER VALVE
- WELL WELL
- DECIDUOUS TREE
- CONIFEROUS TREE
- SHRUB
- WETLAND
- POWER POLE
- LIGHT POLE
- GUY GUY
- TRAFFIC SIGNAL
- C CATV PED
- T TELE. PED
- E ELEC. PED
- MAILBOX
- SIGN SIGN
- LOCATED PROPERTY IRON
- CONTROL POINT
- BENCH MARK

PREPARED BY

AECOM
1350 DEMING WAY SUITE 100
MIDDLETON, WI 53562
608-836-9800 tel 608-836-9767 fax
www.aecom.com

THE CITY OF Fitchburg PUBLIC WORKS

COVER SHEET
FITCHRONA ROAD

SCALE: 1 IN:2000 FT
DATE: JULY 2024
REVISION: 100% PLANS
PROJECT NO.: 60703122
SHEET NO.: C-101

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ASPHALT PAVEMENT

FITCHRONA ROAD SOUTH		TYPE
4.5-INCHES TOTAL DEPTH		
UPPER LAYER:	1.75-INCHES	5 MT 58-28 S
LOWER LAYER:	2.75-INCHES	3 MT 58-28 S

FITCHRONA ROAD NORTH AND LACY ROAD		TYPE
5.25-INCHES TOTAL DEPTH		
UPPER LAYER:	2.25-INCHES	5 MT 58-28 S
LOWER LAYER:	3.00-INCHES	3 MT 58-28 S

ROUNDABOUT		TYPE
5.75-INCHES TOTAL DEPTH		
UPPER LAYER:	2.25-INCHES	5 MT 58-28 H
LOWER LAYER:	3.50-INCHES	3 MT 58-28 S

MULTI-USE PATH		TYPE
3.00-INCHES TOTAL DEPTH		
UPPER LAYER:	3.00-INCHES	POROUS ASPHALT PAVEMENT

POROUS ASPHALT PAVEMENT SPECIFICATIONS

MIX PROPERTIES	REQUIREMENT
AIR VOIDS (AASHTO T 269-11/ASTM D3203M-11	> 16%
DRAINDOWN (AASHTO T 305-09/ASTM 6390-11	< 0.3%
ASPHALT CONTENT (BY WEIGHT OF TOTAL MIX)	5.75% MIN.
NOMINAL AGGREGATE SIZE	9.5 MM

PERMANENT ROADWAYS/PATHS/SIDEWALKS

IDENTIFIER	DESCRIPTION
FS	FITCHRONA ROAD SOUTH
FO	FITCHRONA ROAD SOUTH, OUTBOUND
FN	FITCHRONA ROAD NORTH
FI	FITCHRONA ROAD NORTH, INBOUND
EB	LACY ROAD EASTBOUND
WB	LACY ROAD WESTBOUND
RC	ROUNDABOUT CENTER
NE	ROUNDABOUT NORTHEAST QUADRANT
SE	ROUNDABOUT SOUTHEAST QUADRANT
SW	ROUNDABOUT SOUTHWEST QUADRANT
NW	ROUNDABOUT NORTHWEST QUADRANT
D1	DRIVEWAY 1
G	GOOSE LAKE DRIVE
GSW	GOOSE LAKE DRIVE SOUTHWEST QUADRANT
GNW	GOOSE LAKE DRIVE NORTHWEST QUADRANT
P	PHEASANT LANE
PSW	PHEASANT LANE SOUTHWEST QUADRANT
PNW	PHEASANT LANE NORTHWEST QUADRANT
Q	QUARRY VISTA DRIVE
QNE	QUARRY VISTA DRIVE NORTHEAST QUADRANT
QSE	QUARRY VISTA DRIVE SOUTHEAST QUADRANT
T	TONTO TRAIL
TSW	TONTO TRAIL SOUTHWEST QUADRANT
TNW	TONTO TRAIL NORTHWEST QUADRANT
M	MULTI-USE PATH
B	BACK OF EXISTING CURB

BENCHMARKS

NO.	ELEVATION	ELEVATION
1	1017.85	60D NAIL IN PP 06N-08E-13.0.0 52/26
2	1020.15	60D NAIL IN PP 06N-08E-13.0.0 52/28
3	1042.10	60D NAIL IN PP 06N-08E-13.0.0 52/31
4	1058.68	60D NAIL IN PP 06N-08E-13.0.0 52/33
5	1051.51	RR SPIKE IN PP I9F-5/67
6	1023.21	RR SPIKE IN PP I9F-5/65
7	1005.76	RR SPIKE IN PP I9F-5/63
8	992.19	RR SPIKE IN PP I8FI-CI
9	985.61	NW BURY/TAG BOLT ON HYDRANT
10	978.19	RR SPIKE IN PP
11	979.01	NW BURY/TAG BOLT ON HYDRANT
12	966.38	SW BURY/TAG BOLT ON HYDRANT
13	966.06	SW BURY/TAG BOLT ON HYDRANT
14	965.29	SW BURY/TAG BOLT ON HYDRANT
15	975.57	SW BURY/TAG BOLT ON HYDRANT

CONTROL POINTS

NO.	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	0.75RB CAP	453193.781	794302.6510	1016.6100
2	0.75RB CAP	454072.482	794362.9670	1056.4800
3	SMP	455469.757	794392.5720	984.0400
4	0.75RB CAP	456127.291	794417.2750	977.3500
5	0.75RB CAP	457128.665	794368.3750	964.4800
6	MAG NAIL	458041.516	794415.4010	973.4000
7	MAG NAIL	455078.488	794335.2030	991.7200
8	MAG NAIL	453546.806	794312.5650	1020.2980
9	SPIKE	453863.952	794315.2440	1045.6299
10	SPIKE	454240.997	794368.2370	1049.1559
11	SPIKE	454542.203	794334.7230	1019.6250
12	SPIKE	454790.984	794371.5320	1004.8790
13	SPIKE	455172.404	794378.7700	986.1790
14	SPIKE	455299.089	794383.2280	982.4700
15	MAG NAIL	455089.344	794038.7810	995.6160
16	MAG NAIL	455751.812	794426.1800	982.8780
17	MAG NAIL	455910.284	794428.6510	982.8390
18	SPIKE	455945.816	794347.2040	980.4900
19	MAG NAIL	455744.118	794045.9880	985.9320
20	SPIKE	456483.719	794406.3230	963.9011
21	SPIKE	456804.723	794409.4300	964.0261
22	SPIKE	457019.766	794365.8150	964.0091
23	SPIKE	457270.365	794374.5520	962.5631
24	SPIKE	457411.008	794374.1410	963.3601
25	SPIKE	457555.854	794378.3040	963.4061
26	SPIKE	457735.063	794380.8210	964.2661

UTILITIES AND OTHER AGENCIES

CITY OF FITCHBURG

ROSS KAHLER
SENIOR PROJECT ENGINEER - TRANSPORTATION
CITY OF FITCHBURG
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FITCHBURG, WI 53711
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ross.kahler@fitchburgwi.gov

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W. CHRISTOPHER BARNES
PUBLIC WORKS DIRECTOR
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VERONA, WI 53593
(608) 807-4471
cbarnes@town.verona.wi.us

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wi-relocations@everstream.net

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john.baierl@tdstelecom.com

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SUITE 1000
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krystalwooden@alliantenergy.com

ELECTRIC

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(608) 252-4730
mbohm@mge.com

GAS

MADISON GAS & ELECTRIC
ROGER AHLES
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(608) 252-5682
rahles@mge.com

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UTILITY SUPERVISOR
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FITCHBURG, WI 53711
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barry.schwingel@fitchburgwi.gov

UTILITIES

MADISON METROPOLITAN SEWERAGE DISTRICT
RAY SCHNEIDER
1610 MOORLAND ROAD
MADISON, WI 53713
(608) 348-3628
rays@madsewer.org

UTILITIES

MADISON METROPOLITAN SEWERAGE DISTRICT - PUMP STATION 12
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1610 MOORLAND ROAD
MADISON, WI 53713
(608) 514-3126
erikr@madsewer.org

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

THE CITY OF Fitchburg PUBLIC WORKS

GENERAL NOTES
FITCHRONA ROAD

SCALE:
DATE: JULY 2024
REVISION: 100% PLANS
PROJECT NO.: 60703122
SHEET NO.: C-201

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GENERAL NOTES

ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CITY OF FITCHBURG STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION AND SPECIAL PROVISIONS.

CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING UTILITY LOCATIONS. DRAWINGS ARE NOT ALL INCLUSIVE. CONTRACTOR SHALL COORDINATE WORK AROUND EXISTING UTILITIES WITH UTILITY OWNERS (THIS WORK IS INCIDENTAL TO THE CONTRACT).

CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

CONTRACTOR SHALL NOTIFY PUBLIC WORKS DEPARTMENT A MINIMUM OF ONE (1) WEEK PRIOR TO THE START OF CONSTRUCTION.

CONTRACTOR SHALL NOTIFY PUBLIC WORKS DEPARTMENT A MINIMUM OF 48 HOURS BEFORE CONNECTING TO EXISTING SEWER AND WATER MAIN, AND BEFORE STARTING ALL PHASES OF WORK.

CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS.

CONTRACTOR SHALL PROTECT DROP OFFS ADJACENT TO LIVE TRAFFIC AT ALL TIMES.

CONTRACTOR IS RESPONSIBLE FOR RESHAPING AND FINISHING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY THEIR OPERATION OUTSIDE THE NORMAL CONSTRUCTION LIMITS.

COMPACTED GRANULAR BACKFILL SHALL EXTEND FROM THE SPRING LINE OF STORM SEWER PIPE AND FROM 1' ABOVE WATER AND SANITARY PIPE TO THE PROPOSED PAVEMENT OR HARD SURFACE SUBGRADE WITHIN THE SURFACES ZONE OF INFLUENCE.

COMPACTION OF GRANULAR BACKFILL MATERIAL SHALL MEET 95% MODIFIED PROCTOR, THE STANDARD SPECIFICATION OF ASTM D-1557, WITHIN THREE FEET (3') OF THE PAVEMENT OR HARD SURFACE SUBGRADE.

COMPACTION OF GRANULAR BACKFILL MATERIAL SHALL MEET 90% MODIFIED PROCTOR, THE STANDARD SPECIFICATION OF ASTM D-1557, IN THE CROSS-SECTIONAL AREA OF PIPE TRENCHES BETWEEN ONE FOOT (1') ABOVE THE PIPE AND THE PLANE THREE VERTICAL FEET (3') FROM THE PROPOSED PAVEMENT OR HARD SURFACE SUBGRADE.

NO TREES AND/OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES AND/OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER.

ADJUST TRAFFIC CONTROL DEVICE LOCATIONS TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL DIMENSIONS, RADII, AND ELEVATIONS ARE GIVEN AT THE PAVEMENT EDGES/CURB FLANGES, UNLESS OTHERWISE NOTED IN THE PLANS.

ALL GRADES PROVIDED ALONG RADII ARE ALONG EDGE OF PAVEMENT.

ALL GUTTER CROSS SLOPES TO BE -4% UNLESS SPECIFIED AS REJECT OR OTHERWISE NOTED.

ALL ADA RAMPS TO BE VERIFIED BY THE CITY BEFORE PLACEMENT.

ALL ADA RAMPS SHALL BE ADA COMPLIANT INCLUDING THE PROVISION OF NEENAH FOUNDRY'S DETECTABLE WARNING PLATES R-4984 NATURAL FINISH.

MANHOLE CASTINGS WITHIN PAVEMENT TO BE SET TO ASPHALT SURFACE GRADE.

ALL TREES WITHIN PUBLIC OUTLOTS AND RIGHT OF WAY NEED TO BE REVIEWED BY CITY PRIOR TO DISTURBANCE. ALL TREES NOTED BY CITY SHALL BE REMOVED.

THE LOCATION OF EXISTING AND PROPOSED UTILITIES INSTALLATIONS AS SHOWN IN THE PLANS, ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

UTILITY REFERENCE LINES ON THE CROSS SECTIONS ARE FOR APPROXIMATE HORIZONTAL REFERENCE ONLY.

REMOVAL ITEMS REQUIRING RESTORATION OF CONCRETE OR ASPHALT SHALL BE REMOVED TO AN EXISTING JOINT OR SAWED AS DETERMINED BY THE ENGINEER.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS AS NEEDED. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

PIPE ELEVATIONS, LENGTHS, AND LOCATIONS AS SHOWN ON THE PLANS MAY BE ADJUSTED TO FIT EXISTING FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

STORM SEWER AND CULVERT ENDWALL LOCATIONS ARE MARKED ON THE PLANS WITH A STATION AND OFFSET TO THE END OF THE PIPE, WHERE IT MEETS THE ENDWALL. PIPE ENDWALLS SHALL BE LAID AT THE SAME SLOPE AS THE CONNECTING PIPE.

GENERAL NOTES CONT.

CONCRETE MASONRY ENDWALL STATION AND OFFSET LOCATIONS ARE SHOWN TO THE CENTER OF THE BACK OF THE HEADWALL, WHERE THE PIPES ENTER THE ENDWALL.

LOCATIONS OF INLETS AND MANHOLES AS SHOWN ON THE STORM SEWER SHEETS ARE BY STATION AND OFFSET TO THE CENTER OF THE STRUCTURE (SEE CONSTRUCTION DETAILS).

PAVEMENT JOINTS SHALL MATCH LANE LINES.

HMA PAVEMENT CALCULATIONS ARE BASED ON 112 LBS/SY/IN.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATE (WISCRS), DANE COUNTY, NAD83(2011), IN U.S. SURVEY FEET.

ELEVATIONS ON THIS PLAN ARE REFERENCED TO THE NAVD 88 DATUM.

ABBREVIATIONS

AADT	ANNUAL AVERAGE DAILY TRAFFIC
AC	ACRES
AP	ACCESS POINT/DRIVEWAY CONNECTION
APPROX	APPROXIMATE
AR	ACCESS RIGHTS
ASPH.	ASPHALTIC
ET. AL.	AND OTHERS
BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
BMP	BEST MANAGEMENT PRACTICE
CTR	CENTER
C/L	CENTERLINE
C.E.	COMMERCIAL ENTRANCE
CONC.	CONCRETE
CSW	CONCRETE SIDEWALK
CMCP	CORRUGATED METAL CULVERT PIPE
CP	CULVERT PIPE
CPCS	CULVERT PIPE CORRUGATED STEEL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CPT	CONSTRUCTION PERMIT
DI	DUCTILE IRON
EB	EASTBOUND
ELEC	ELECTRIC
IE	INVERT ELEVATION
E.X.	EXISTING
FO	FIBER OPTIC
F.E.	FIELD ENTRANCE
GAS	GAS
HMA	HOT MIX ASPHALT
HSE.	HOUSE
LHF	LEFT HAND FORWARD
MH	MANHOLE
MAX.	MAXIMUM
MIN.	MINIMUM
MMSD	MADISON METROPOLITAN SEWER DISTRICT
NOR.	NORMAL
NTS	NOT TO SCALE
PCCP	PRE-STRESSED CONCRETE CYLINDER PIPE
PLE	PERMANENT LIMITED EASEMENT
P.E.	PRIVATE ENTRANCE
P.L.	PROPERTY LINE
PROP.	PROPOSED
PRW	PROPOSED RIGHT-OF-WAY
RAD	RADIUS
R/L	REFERENCE LINE
RCP	REINFORCED CONCRETE PIPE
REQ'D.	REQUIRED
RHF	RIGHT HAND FORWARD
RW	RIGHT-OF-WAY LINE
SAN	SANITARY SEWER
SHLD	SHOULDER
SW	SIDEWALK
SF	SQUARE FEET
SY	SQUARE YARD
S.D.D.	STANDARD DETAIL DRAWING
SDR	STANDARD DIMENSION RATIO
STA	STATION
SS	STORM SEWER
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
TEL	TELEPHONE
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
WAT	WATER
WB	WESTBOUND

THE CITY OF Fitchburg PUBLIC WORKS

GENERAL NOTES

FITCHRONA ROAD

PROJECT NO.: 60703122

SHEET NO.: C-202

SCALE:

DATE: JULY 2024

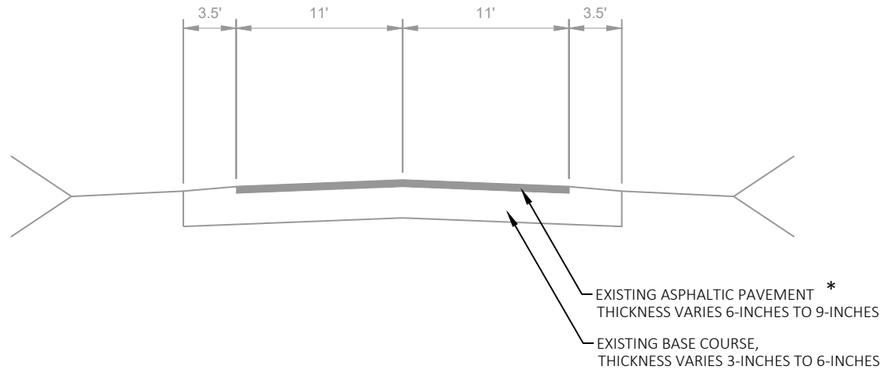
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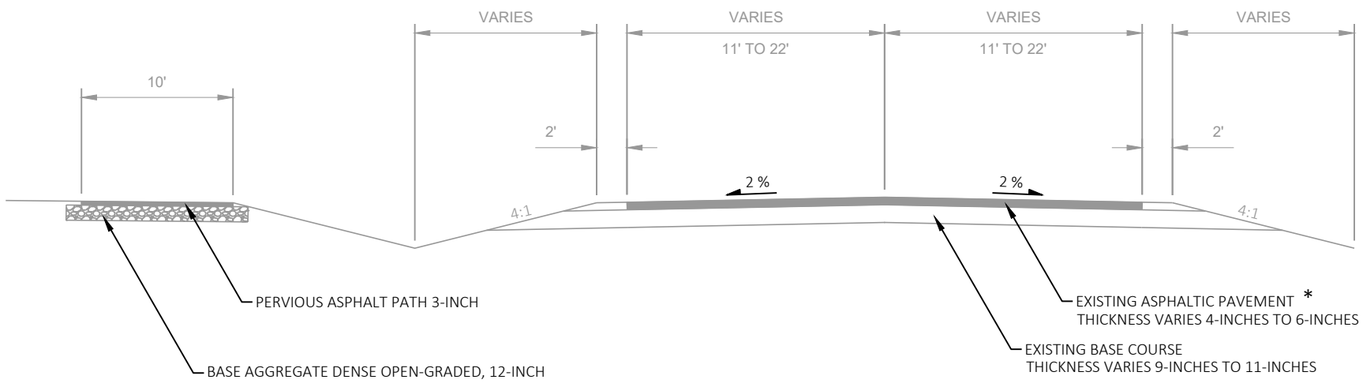
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SHEET NO.: **C-203**	DATE: JULY 2024		
	REVISION: 100% PLANS		



* EXISTING PAVEMENT STRUCTURE TO BE CONFIRMED BY ENGINEER IN FIELD

TYPICAL EXISTING SECTION - FITCHRONA ROAD

STA 10+00 'FS' - 29+96 'FS'
STA 30+00 'FN' - STA 45+90 'FN'



TYPICAL EXISTING SECTION - LACY ROAD

STA 20+00 'EB' - STA 27+52 'EB'

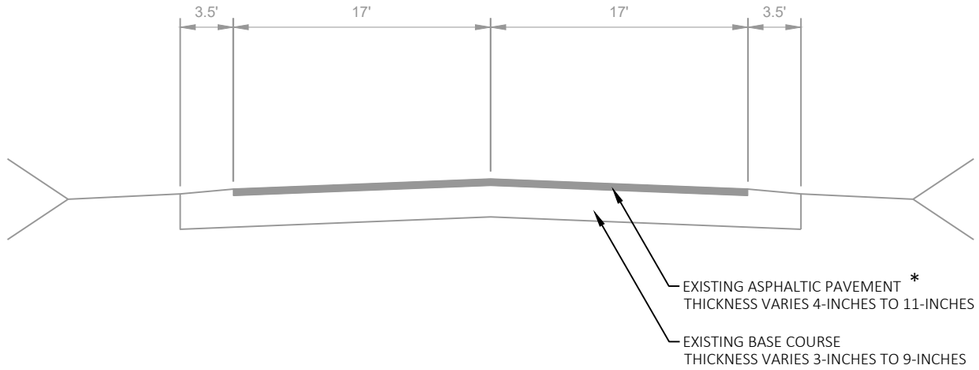
THE CITY OF Fitchburg PUBLIC WORKS

TYPICAL SECTIONS

FITCHRONA ROAD AND LACY ROAD

PROJECT NO.: 60703122	SCALE: 1 IN:10 FT	
SHEET NO.: **C-204**	DATE: JULY 2024	REVISION: 100% PLANS

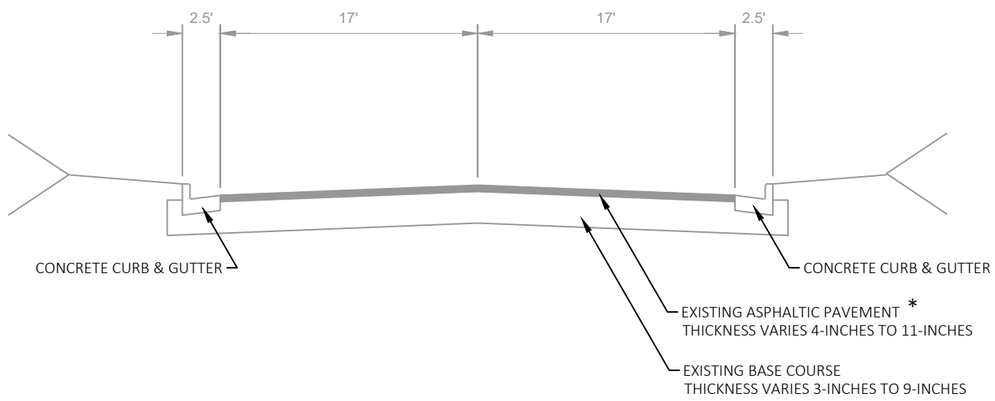
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* EXISTING PAVEMENT STRUCTURE TO BE CONFIRMED BY ENGINEER IN FIELD

TYPICAL EXISTING SECTION - FITCHRONA ROAD

STA 45+90 'FN' - STA 47+75 'FN'



TYPICAL EXISTING SECTION - FITCHRONA ROAD

STA 47+75 'FN' - STA 53+75 'FN'

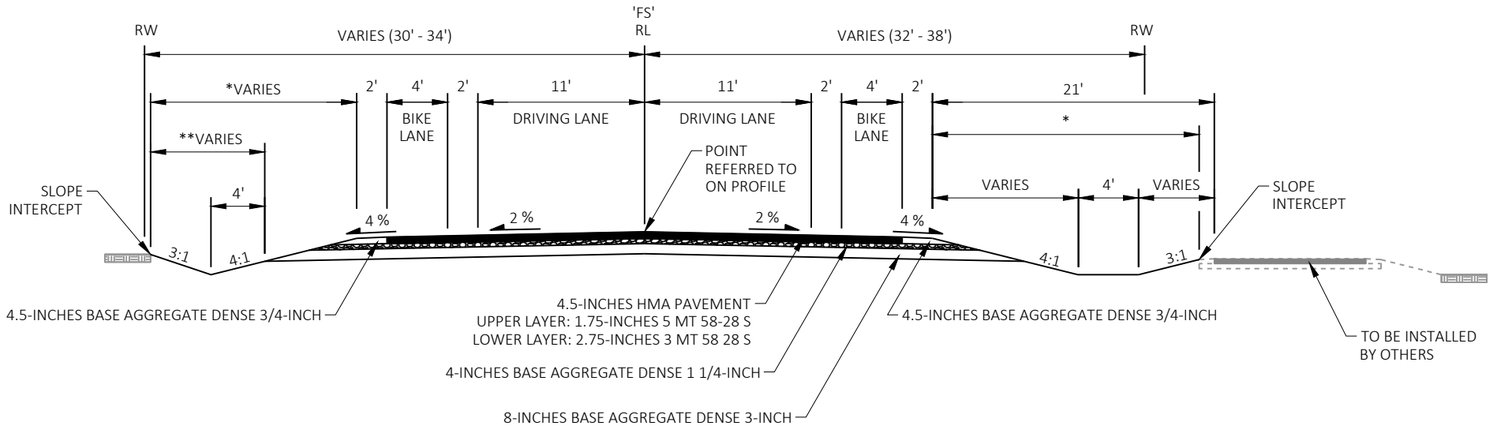
THE CITY OF Fitchburg PUBLIC WORKS

TYPICAL SECTIONS

FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE: 1 IN:10 FT
SHEET NO.: C-205	DATE: JULY 2024
	REVISION: 100% PLANS

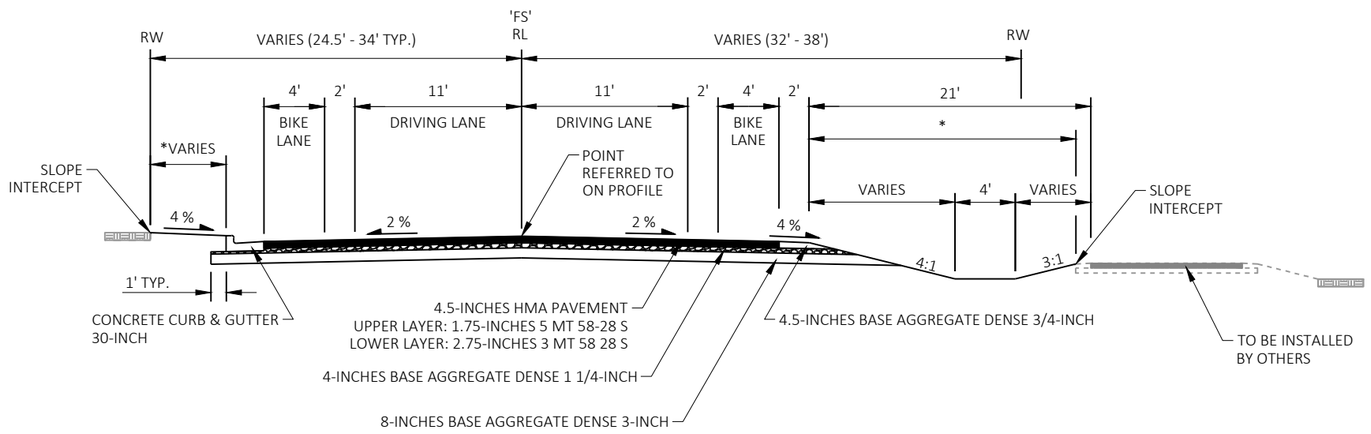
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* LIMITS OF TURF GRASS SEED MIX, E-MAT (6" MIN. TOPSOIL), & FERTILIZER TYPE B (AS DIRECTED BY ENGINEER)

TYPICAL FINISHED SECTION - FITCHRONA ROAD

STA 10+65 'FS' - 17+22 'FS'



* LIMITS OF TURF GRASS SEED MIX, E-MAT (6" MIN. TOPSOIL), & FERTILIZER TYPE B (AS DIRECTED BY ENGINEER)

TYPICAL FINISHED SECTION - FITCHRONA ROAD

STA 17+22 'FS' - 26+36 'FS'

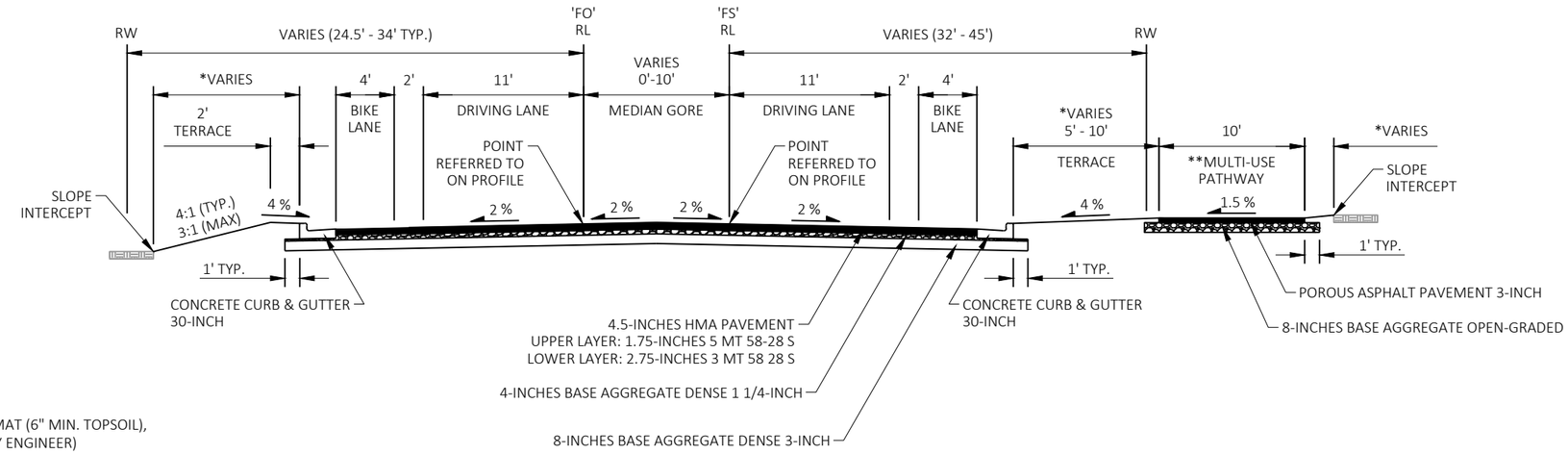
THE CITY OF Fitchburg PUBLIC WORKS

TYPICAL SECTIONS

FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE: 1 IN:10 FT	DATE: JULY 2024	REVISION: 100% PLANS
SHEET NO.: **C-206**			

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\Sheets\Plan\020301ts.dwg Layout: 020303-ts User: czecha Plotted: Jul 11, 2024 - 1:05pm

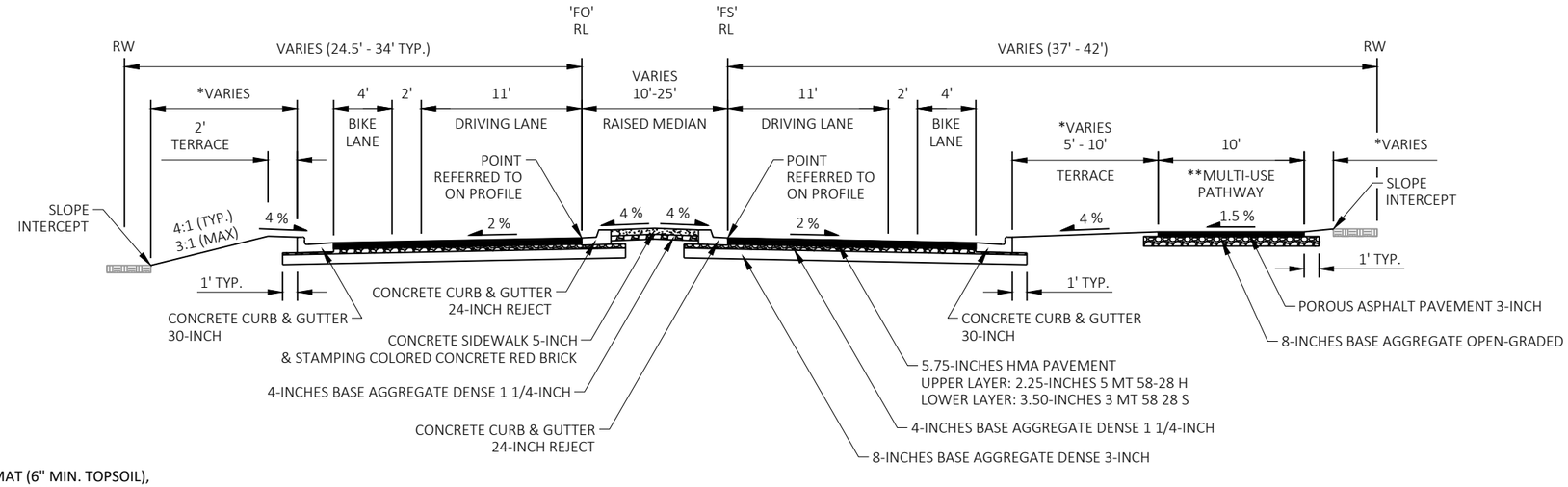


* LIMITS OF TURF GRASS SEED MIX, E-MAT (6" MIN. TOPSOIL), & FERTILIZER TYPE B (AS DIRECTED BY ENGINEER)

** MULTI-USE PATHWAY BEGINS CONSTRUCTION AT STA. 27+95.61 'FS'

TYPICAL FINISHED SECTION - FITCHRONA ROAD

STA 26+36 'FS' - 28+80'FS'
STA 26+36 'FO' - 28+80'FO'



* LIMITS OF TURF GRASS SEED MIX, E-MAT (6" MIN. TOPSOIL), & FERTILIZER TYPE B (AS DIRECTED BY ENGINEER)

TYPICAL FINISHED SECTION - FITCHRONA ROAD

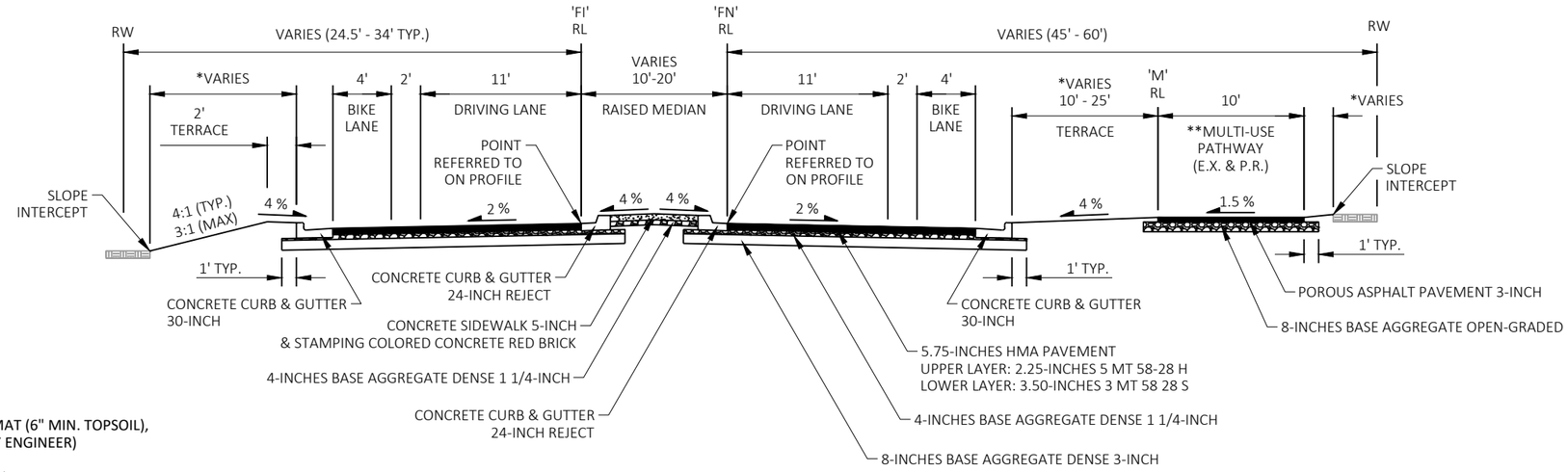
STA 28+80'FS' - 29+95'FS'

THE CITY OF Fitchburg PUBLIC WORKS

TYPICAL SECTIONS
FITCHRONA ROAD

PROJECT NO.: 60703122	SHEET NO.: C-207	SCALE: 1 IN:10 FT	DATE: JULY 2024
		REVISION: 100% PLANS	

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\Sheets\Plan\020301ts.dwg Layout: 020304-ts User: czecha Plotted: Jul 11, 2024 - 1:05pm

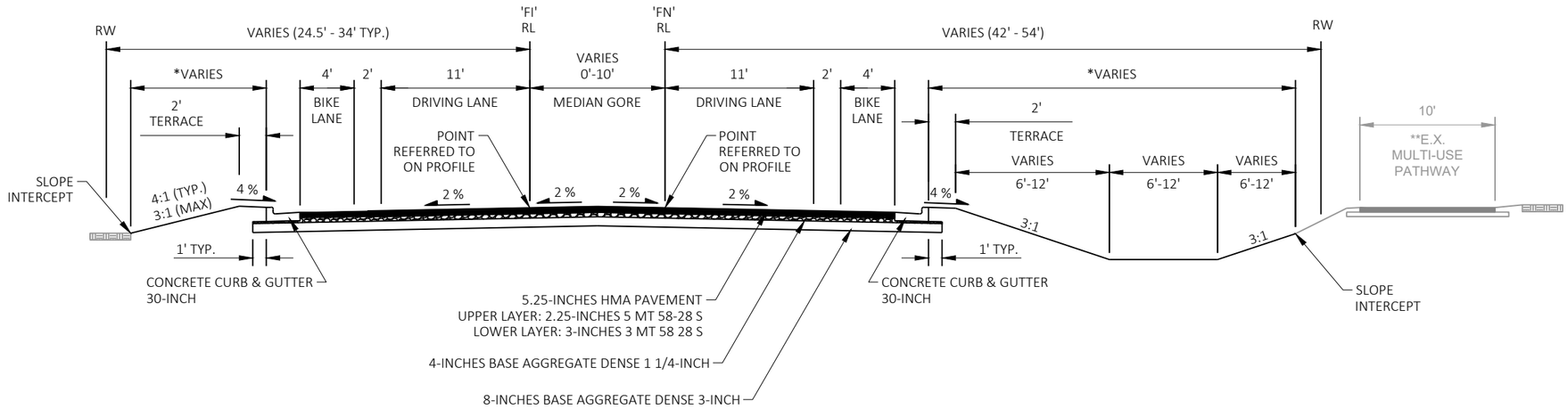


* LIMITS OF TURF GRASS SEED MIX, E-MAT (6" MIN. TOPSOIL), & FERTILIZER TYPE B (AS DIRECTED BY ENGINEER)

** EXISTING MULTI-USE PATH TO REMAIN

TYPICAL FINISHED SECTION - FITCHRONA ROAD

STA 30+00'FN - 31+10'FN



* LIMITS OF TURF GRASS SEED MIX, E-MAT (6" MIN. TOPSOIL), & FERTILIZER TYPE B (AS DIRECTED BY ENGINEER)

** EXISTING MULTI-USE PATH TO REMAIN

TYPICAL FINISHED SECTION - FITCHRONA ROAD

STA 31+10'FN - 35+17 'FN'
STA 31+10'FI - 34+02 'FI'

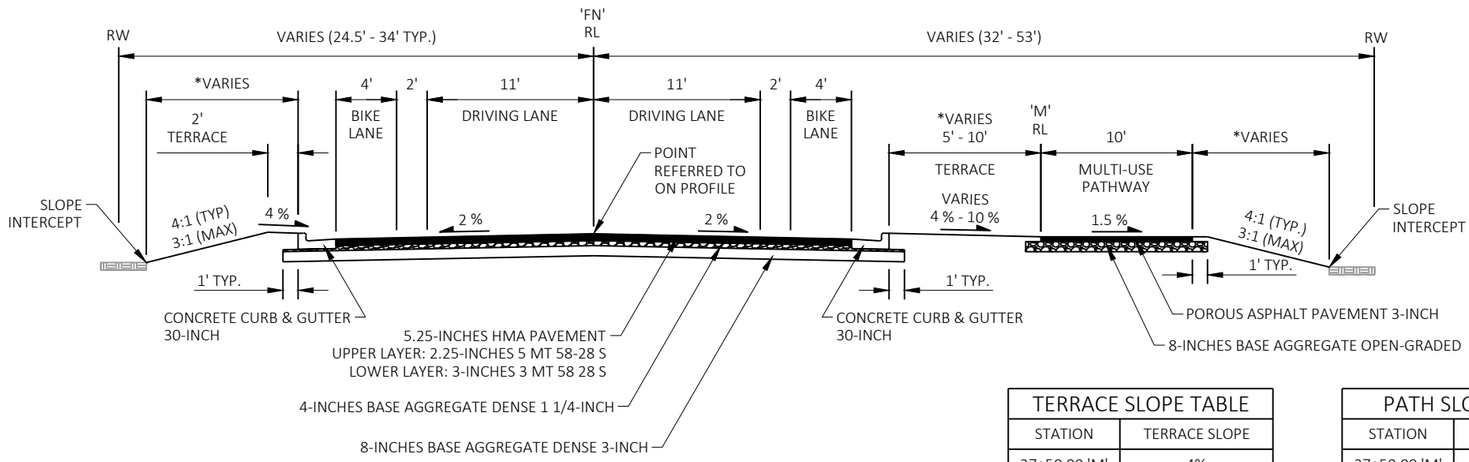
THE CITY OF Fitchburg PUBLIC WORKS

TYPICAL SECTIONS

FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE: 1 IN:10 FT	DATE: JULY 2024	REVISION: 100% PLANS
SHEET NO.: **C-208**			

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\Sheets\Plan\020301-ts.dwg Layout: 020305-ts User: czecha Plotted: Jul 11, 2024 - 1:05pm



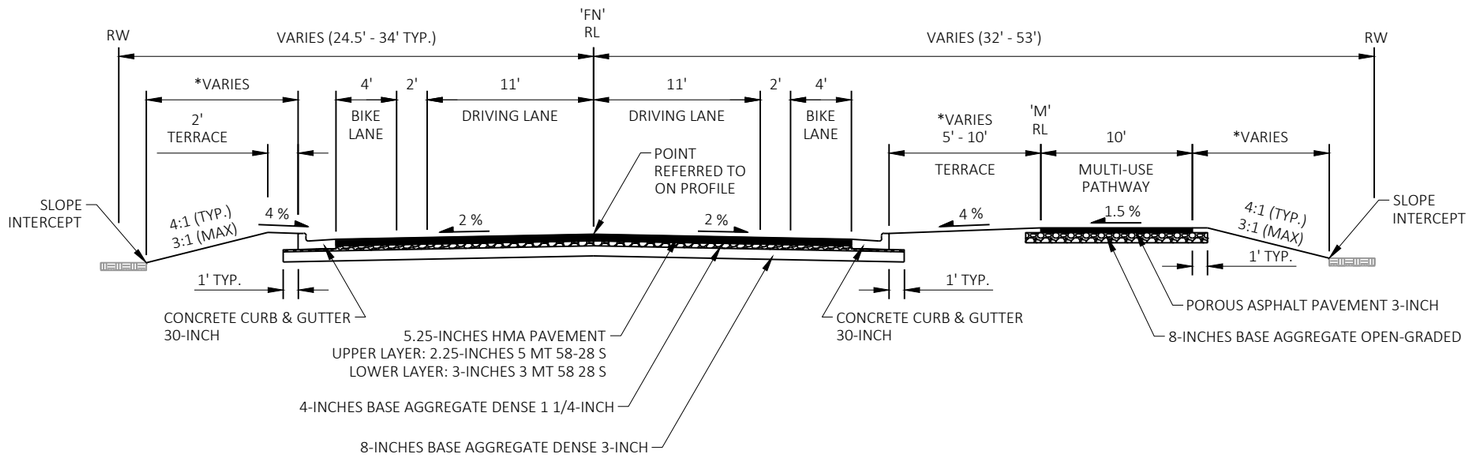
* LIMITS OF TURF GRASS SEED MIX, E-MAT (6" MIN. TOPSOIL), & FERTILIZER TYPE B (AS DIRECTED BY ENGINEER)

TYPICAL FINISHED SECTION - FITCHRONA ROAD

STA 35+98'FN' - 42+94'FN'

TERRACE SLOPE TABLE	
STATION	TERRACE SLOPE
37+50.00 'M'	4%
37+75.00 'M'	-10%
43+35.00 'M'	-10%
43+75.00 'M'	4%
44+75.00 'M'	4%
45+00.00 'M'	-4.5%
45+30.00 'M'	-4.5%
45+50.00 'M'	4%

PATH SLOPE TABLE	
STATION	PATH SLOPE
37+50.00 'M'	1.5%
37+75.00 'M'	-1.5%
43+60.00 'M'	-1.5%
43+75.00 'M'	1.5%



* LIMITS OF TURF GRASS SEED MIX, E-MAT (6" MIN. TOPSOIL), & FERTILIZER TYPE B (AS DIRECTED BY ENGINEER)

TYPICAL FINISHED SECTION - FITCHRONA ROAD

STA 42+94 'FN' - 48+25 'FN'
STA 48+75 'FN' - 49+75 'FN'
STA 51+75 'FN' - 53+74 'FN'

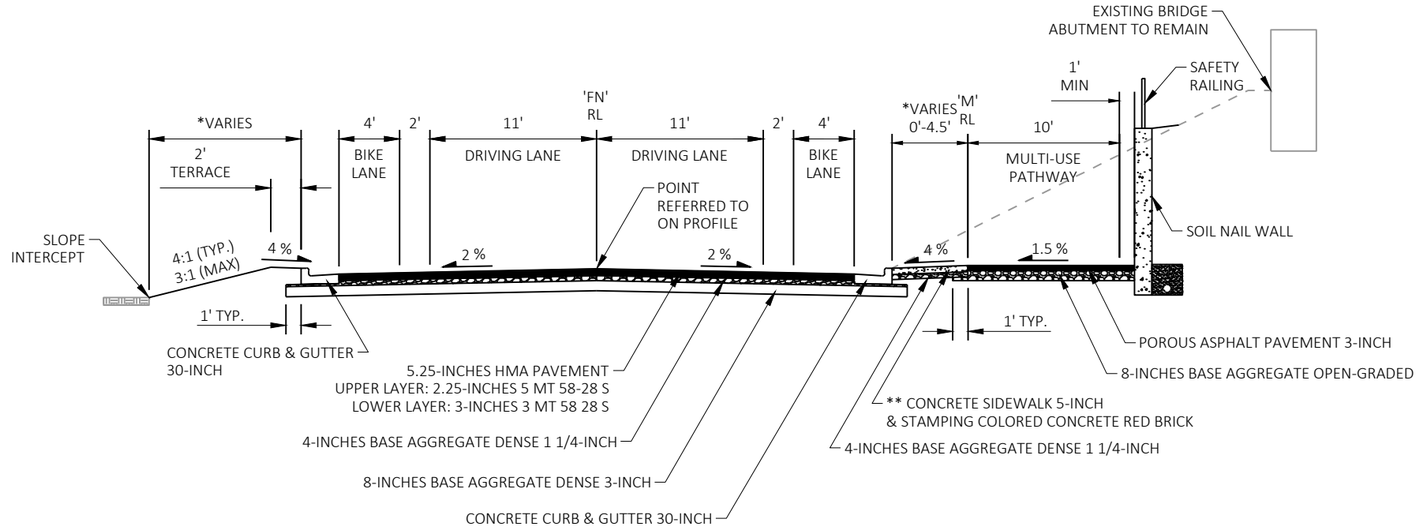
THE CITY OF Fitchburg PUBLIC WORKS

TYPICAL SECTIONS
FITCHRONA ROAD

SCALE: 1 IN:10 FT
DATE: JULY 2024
REVISION: 100% PLANS

PROJECT NO.: 60703122
SHEET NO.: C-209

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\020301-ts.dwg Layout: 020306-ts User: czecha Plotted: Jul 11, 2024 - 1:05pm

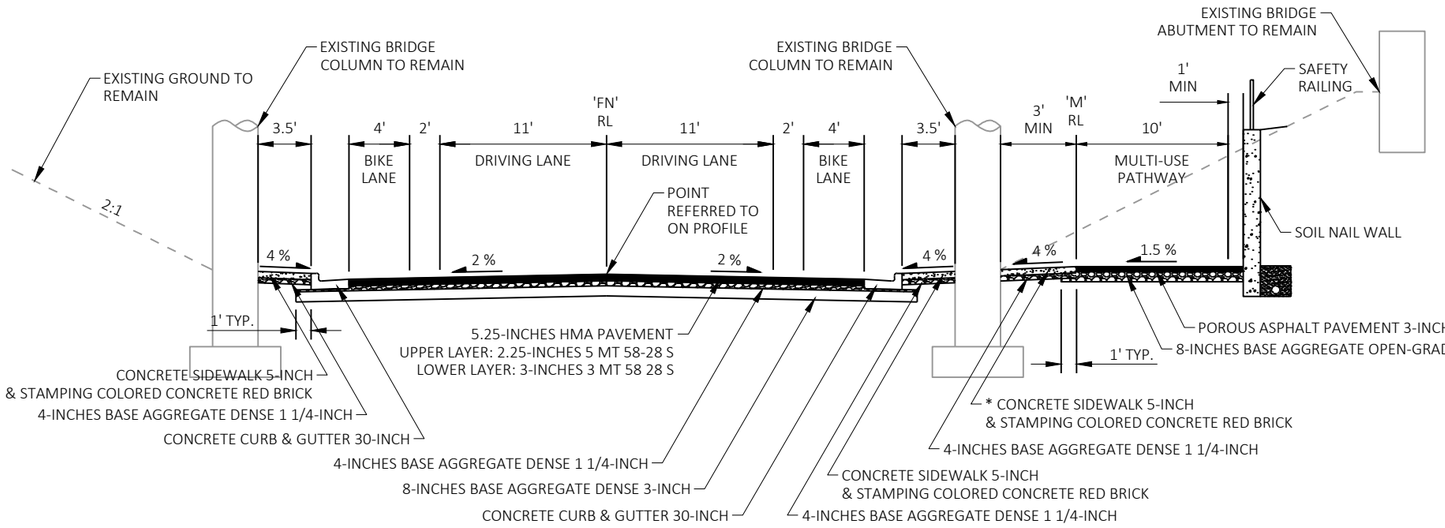


* LIMITS OF TURF GRASS SEED MIX, E-MAT (6" MIN. TOPSOIL), & FERTILIZER TYPE B (AS DIRECTED BY ENGINEER)

** PROVIDE WHEN THE TERRACE WIDTH IS 3' AND LESS

TYPICAL FINISHED SECTION - FITCHRONA ROAD

UNDER MILITARY RIDGE STATE TRAIL
STA 48+25 'FN' - STA 48+75 'FN'



* PROVIDE WHEN THE TERRACE WIDTH IS 3' AND LESS

TYPICAL FINISHED SECTION - FITCHRONA ROAD

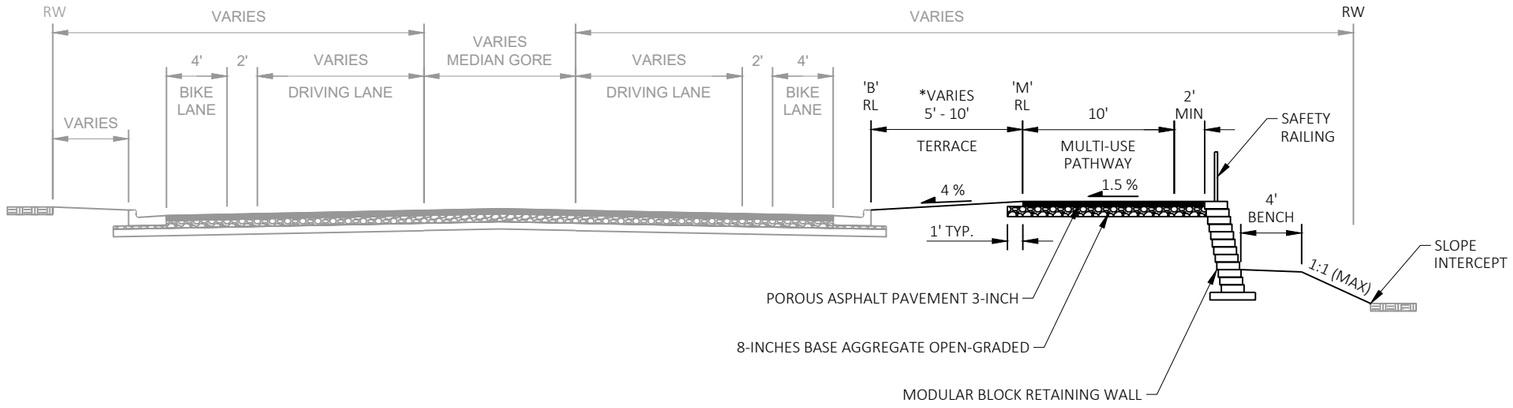
UNDER VERONA ROAD
STA 49+75 'FN' - STA 51+75 'FN'

THE CITY OF Fitchburg PUBLIC WORKS

TYPICAL SECTIONS
FITCHRONA ROAD

PROJECT NO.: 60703122	SHEET NO.: C-210	SCALE: 1 IN:10 FT	DATE: JULY 2024
		REVISION: 100% PLANS	

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\Sheets\Plan\020301-ts.dwg Layout: 020307-ts User: czecha Plotted: Jul 11, 2024 - 1:05pm



* LIMITS OF TURF GRASS SEED MIX, E-MAT (6" MIN. TOPSOIL), & FERTILIZER TYPE B (AS DIRECTED BY ENGINEER)

TYPICAL FINISHED SECTION - FITCHRONA ROAD

STA 53+74'FN' - 55+49'FN'

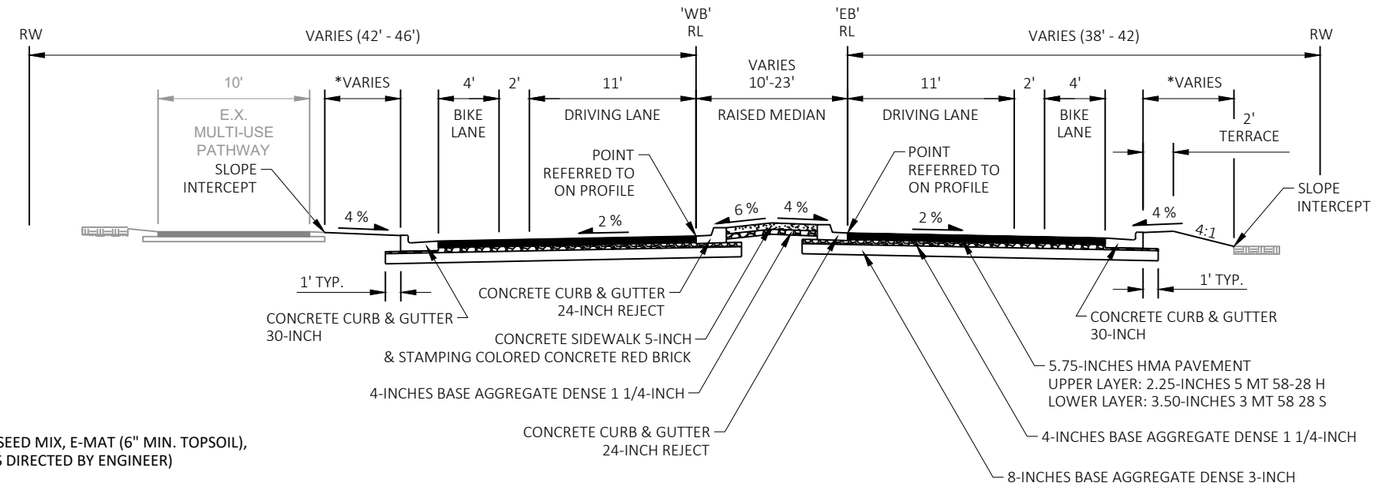
THE CITY OF Fitchburg PUBLIC WORKS

TYPICAL SECTIONS

FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE: 1 IN:10 FT
SHEET NO.: **C-211**	DATE: JULY 2024
	REVISION: 100% PLANS

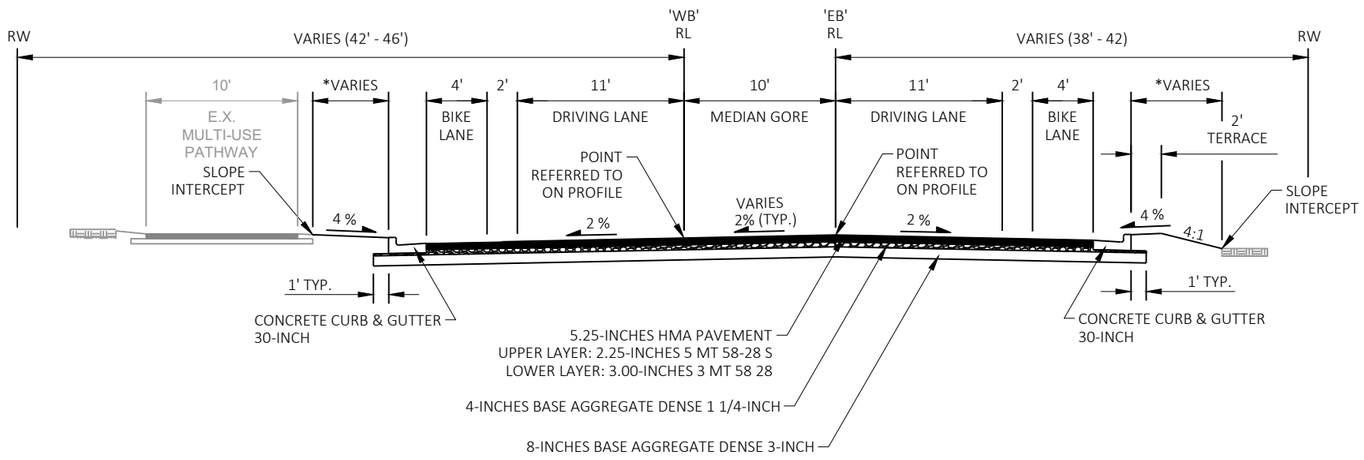
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* LIMITS OF TURF GRASS SEED MIX, E-MAT (6" MIN. TOPSOIL), & FERTILIZER TYPE B (AS DIRECTED BY ENGINEER)

TYPICAL FINISHED SECTION - LACY ROAD

STA 20+00 'EB' - 21+18 'EB'
STA 20+08 'WB' - 21+18 'WB'



* LIMITS OF TURF GRASS SEED MIX, E-MAT (6" MIN. TOPSOIL), & FERTILIZER TYPE B (AS DIRECTED BY ENGINEER)

TYPICAL FINISHED SECTION - LACY ROAD

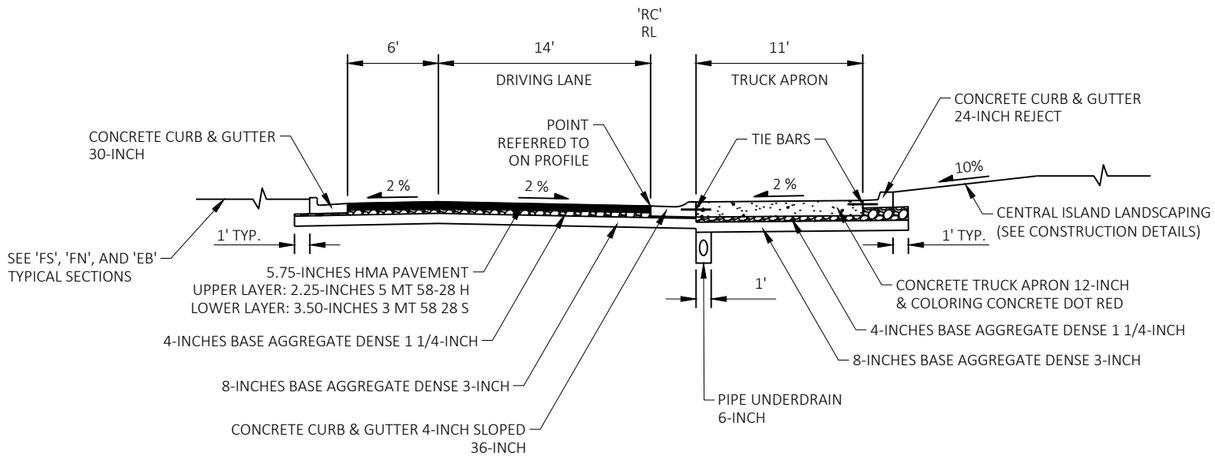
STA 21+18 'EB' - 24+62'EB'
STA 21+18 'WB' - 24+62'WB'

THE CITY OF Fitchburg PUBLIC WORKS

TYPICAL SECTIONS
LACY ROAD

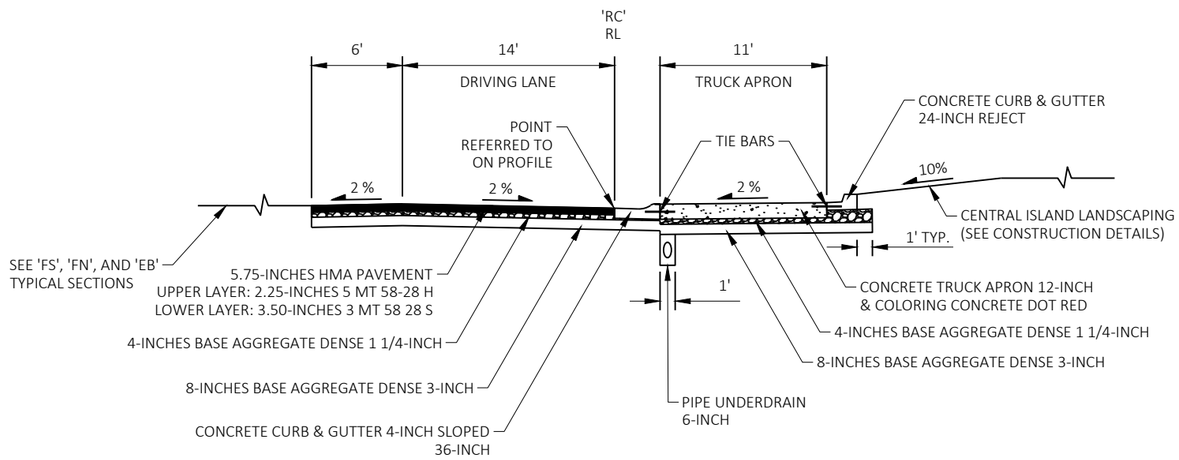
PROJECT NO.: 60703122	SCALE: 1 IN:10 FT	DATE: JULY 2024	REVISION: 100% PLANS
SHEET NO.: **C-212**			

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TYPICAL FINISHED SECTION - FITCHRONA ROAD

ROUNDABOUT
STA 10+00 'RC' - STA 10+12 'RC'
STA 10+69 'RC' - STA 10+79 'RC'
STA 11+42 'RC' - STA 11+53 'RC'



TYPICAL FINISHED SECTION - FITCHRONA ROAD

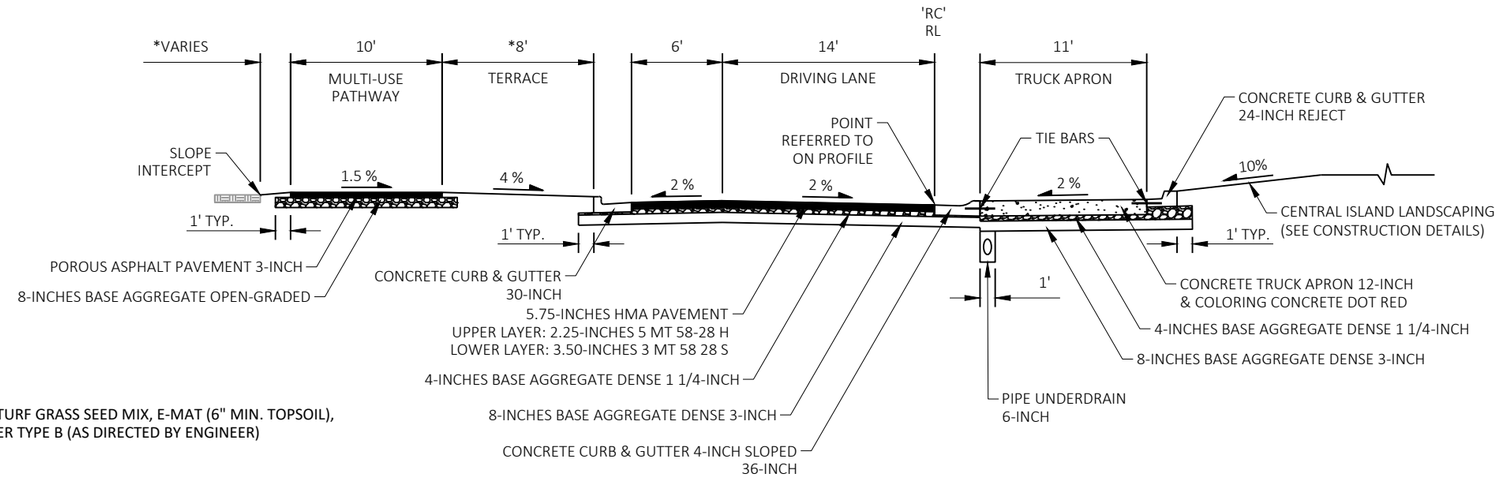
ROUNDABOUT
STA 10+12 'RC' - STA 10+69 'RC'
STA 10+79 'RC' - STA 11+42 'RC'
STA 11+53 'RC' - STA 11+88 'RC'

THE CITY OF Fitchburg PUBLIC WORKS

TYPICAL SECTIONS
ROUNDABOUT

PROJECT NO.: 60703122	SCALE: 1 IN:10 FT	
SHEET NO.: C-213	DATE: JULY 2024	REVISION: 100% PLANS

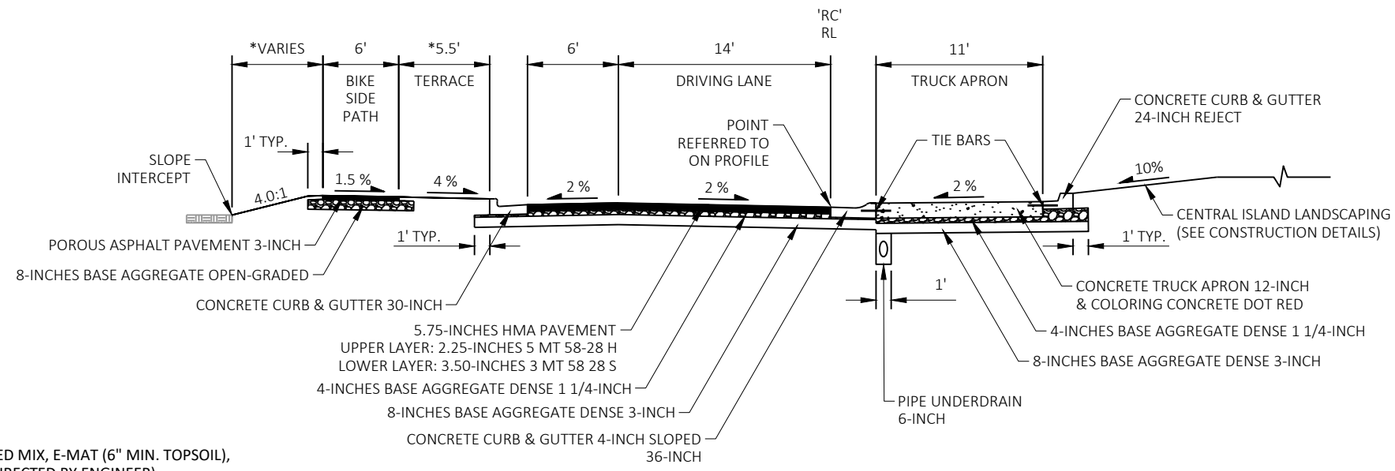
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* LIMITS OF TURF GRASS SEED MIX, E-MAT (6" MIN. TOPSOIL), & FERTILIZER TYPE B (AS DIRECTED BY ENGINEER)

TYPICAL FINISHED SECTION - FITCHRONA ROAD

ROUNDABOUT
STA 10+25 'RC' - STA 11+30 'RC'



* LIMITS OF TURF GRASS SEED MIX, E-MAT (6" MIN. TOPSOIL), & FERTILIZER TYPE B (AS DIRECTED BY ENGINEER)

TYPICAL FINISHED SECTION - FITCHRONA ROAD

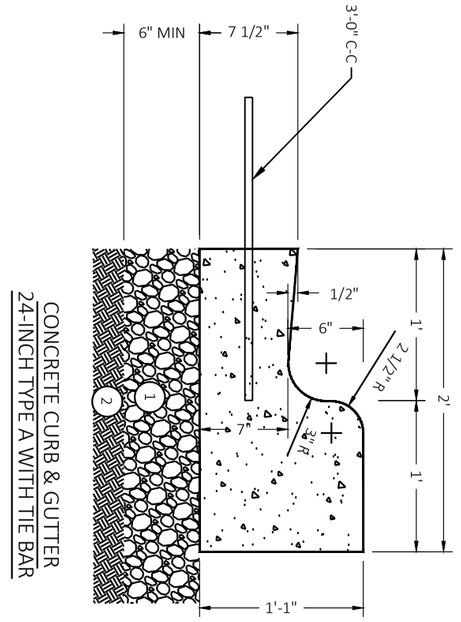
ROUNDABOUT
STA 11+88 'RC' - STA 12+39 'RC'

THE CITY OF Fitchburg PUBLIC WORKS

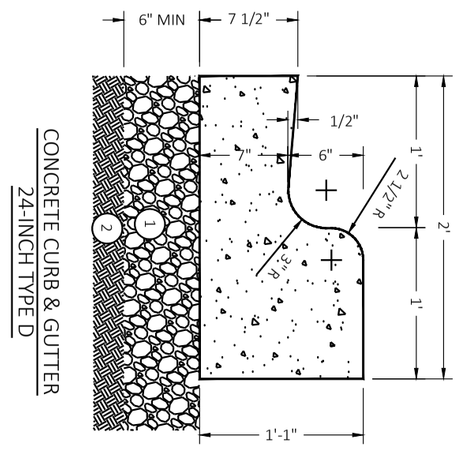
TYPICAL SECTIONS
ROUNDABOUT

PROJECT NO.: 60703122	SCALE: 1 IN:10 FT	DATE: JULY 2024	REVISION: 100% PLANS
SHEET NO.: **C-214**			

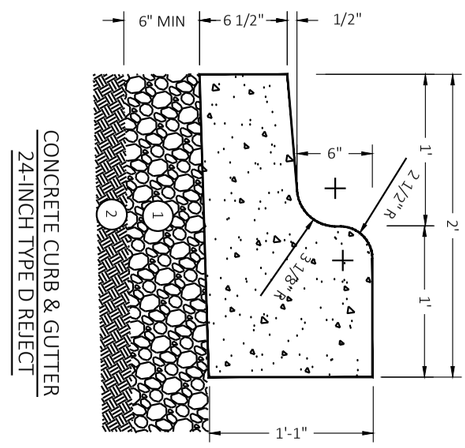
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CONCRETE CURB & GUTTER
24-INCH TYPE A WITH TIE BAR

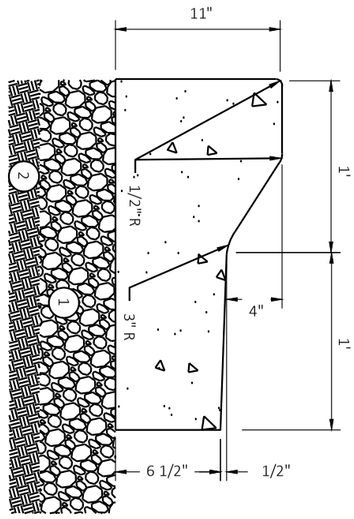


CONCRETE CURB & GUTTER
24-INCH TYPE D

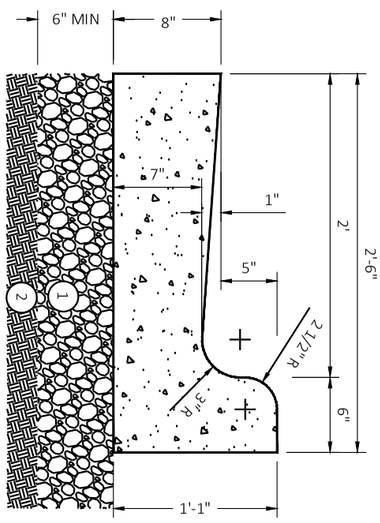


CONCRETE CURB & GUTTER
24-INCH TYPE D REJECT

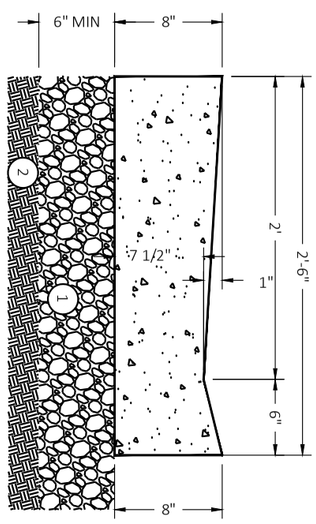
1. DENSE GRADED BASE 1-1/4" (TYP.), SHALL BE PROVIDED 12-INCHES BEYOND BACK OF CURB
2. COMPACTED SUB BASE



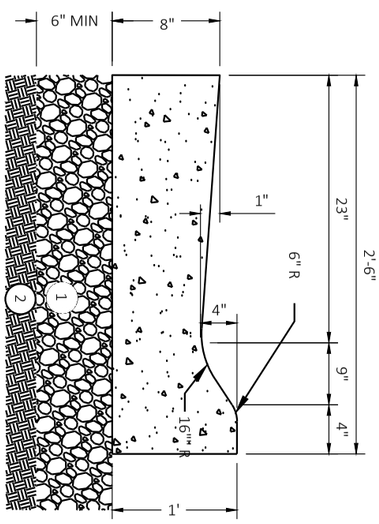
CONCRETE CURB & GUTTER
24-INCH TYPE D MOUNTABLE
REJECT



CONCRETE CURB & GUTTER
30-INCH TYPE D

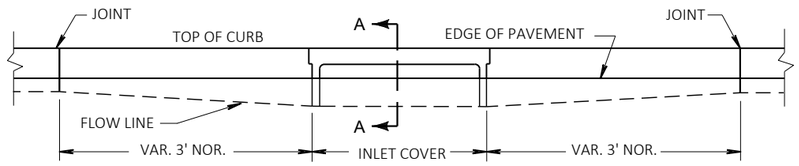


CONCRETE CURB & GUTTER
30-INCH TYPE D DRIVEWAY SECTION
(PAID FOR AS CONCRETE CURB & GUTTER
30-INCH TYPE D)

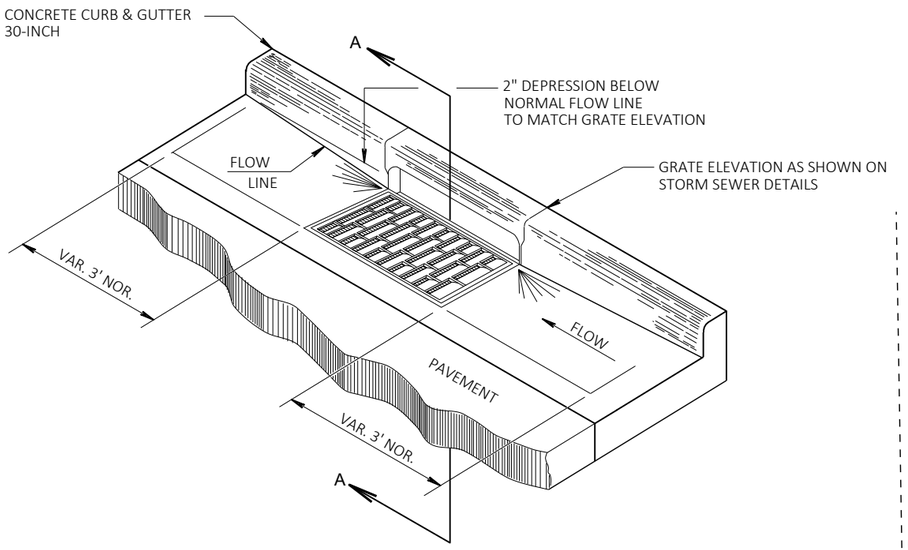


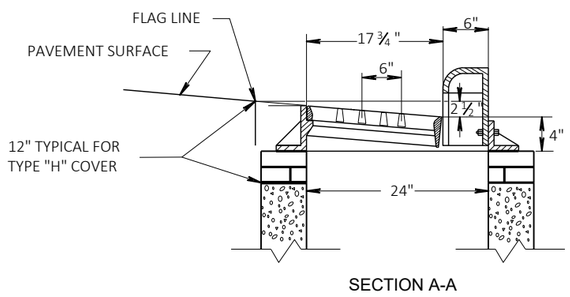
CONCRETE CURB & GUTTER 4-INCH
SLOPED 36-INCH TYPE R

PROJECT NO.: 60703122	SCALE:	CONSTRUCTION DETAILS FITCHRONA ROAD	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-215**	DATE: JULY 2024		
	REVISION: 100% PLANS		



ELEVATION

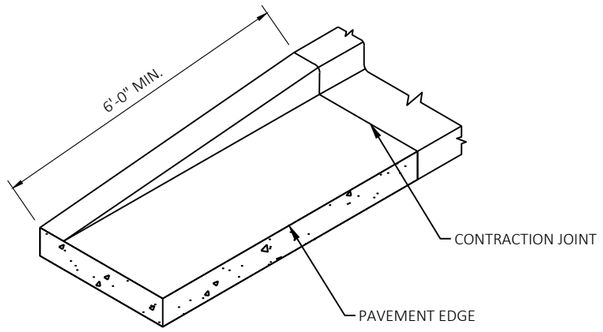




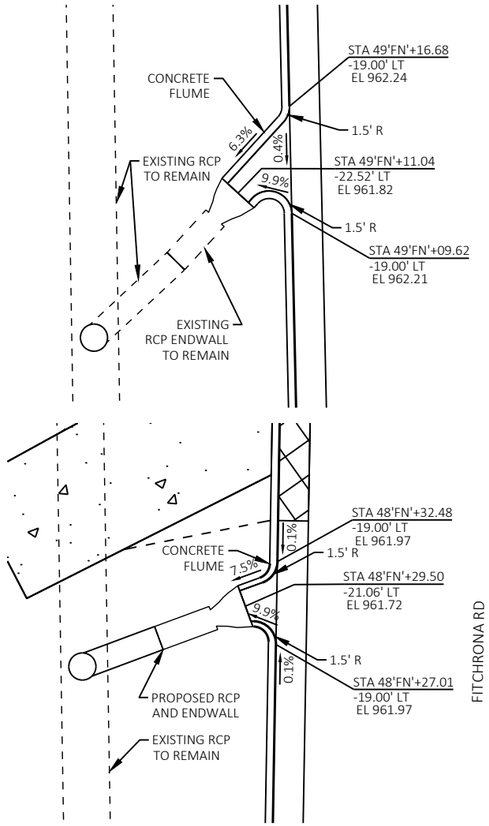
SECTION A-A

DETAIL OF CURB AND GUTTER AT INLETS

(TYPE 3-H INLET SHOWN)

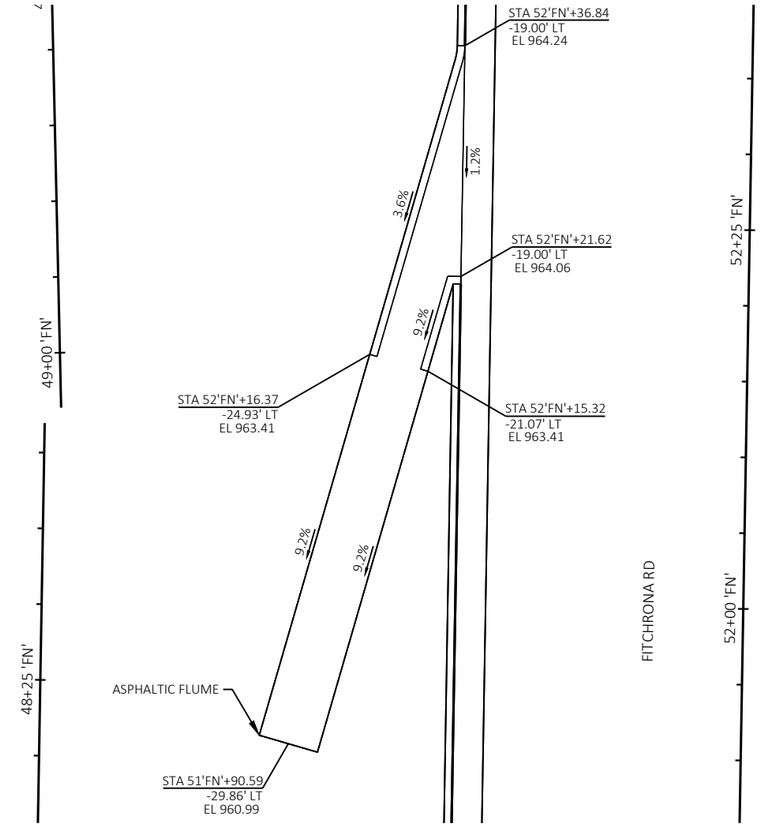


END SECTION CURB AND GUTTER DETAIL



CONCRETE FLUME DETAIL

STA 49+15'FN', LT
STA 48+30'FN', LT



ASPHALTIC FLUME DETAIL

STA 52+00'FN', LT

THE CITY OF Fitchburg PUBLIC WORKS

CONSTRUCTION DETAILS
FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE:
SHEET NO.: C-216	DATE: JULY 2024
	REVISION: 100% PLANS

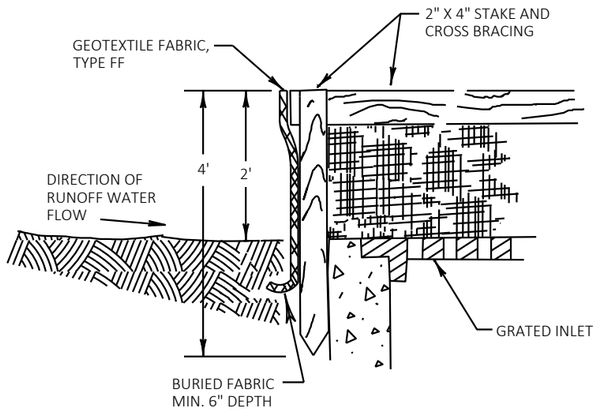
File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\021001-cd.dwg, Layout: 216, User: MelotiL, Plotted: Jul 12, 2024 - 9:10am

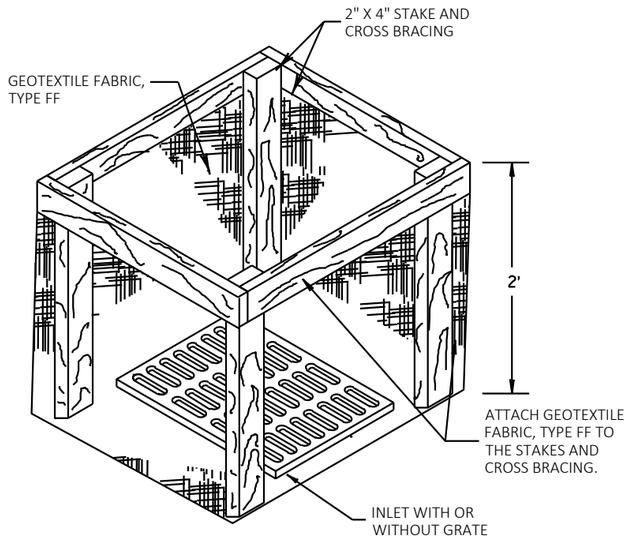
INLET PROTECTION, TYPE A

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT DIRECTION OF THE ENGINEER.

THE MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET MUST BE REMOVED IMMEDIATELY.





FRAMED INLET PROTECTION

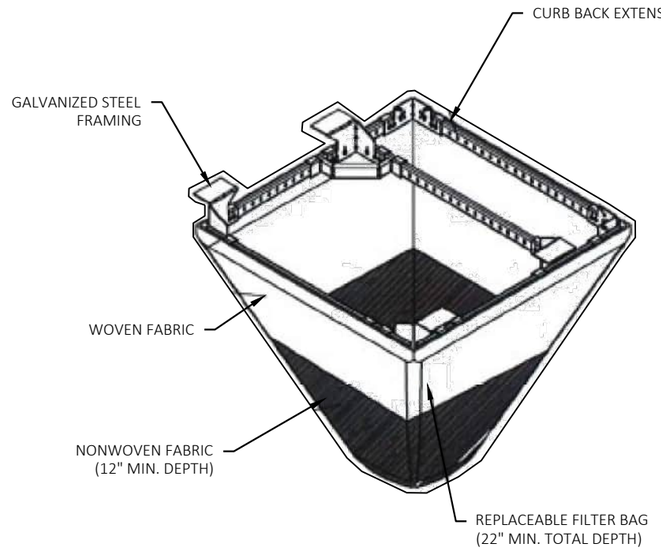
INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT DIRECTION OF THE ENGINEER.

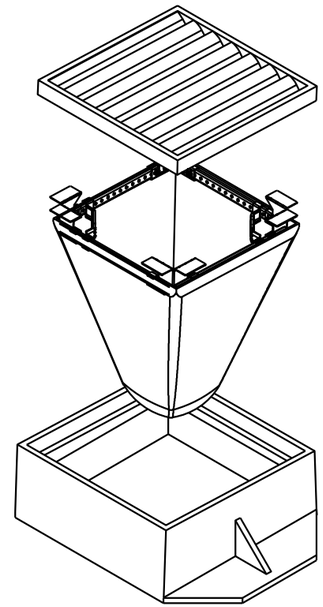
THE MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET MUST BE REMOVED IMMEDIATELY.

INSTALLATION:

1. REMOVE GRATE.
2. DROP INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE.
3. REPLACE GRATE.





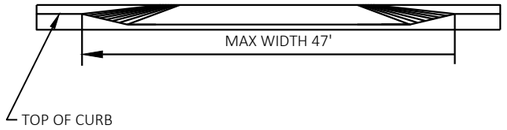
THE CITY OF Fitchburg PUBLIC WORKS

CONSTRUCTION DETAILS
FITCHRONA ROAD

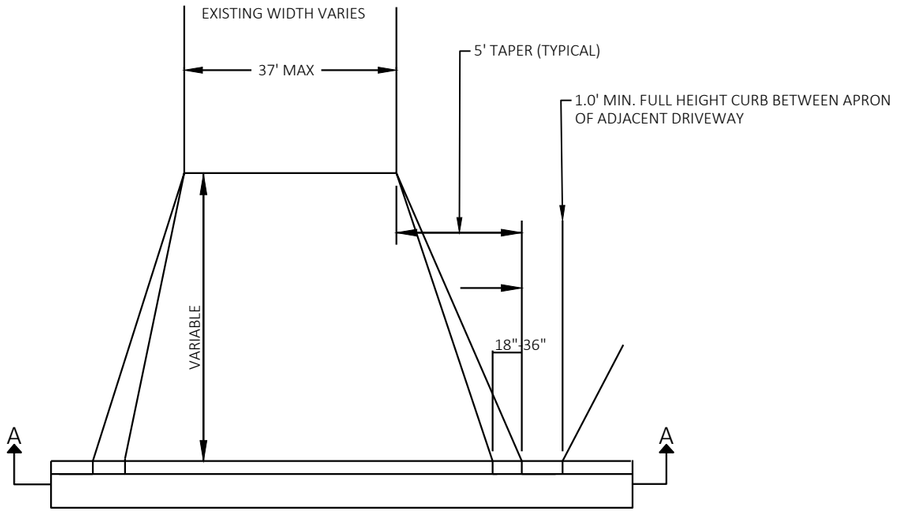
PROJECT NO.: 60703122
SCALE:
SHEET NO.: C-217
DATE: JULY 2024
REVISION: 100% PLANS

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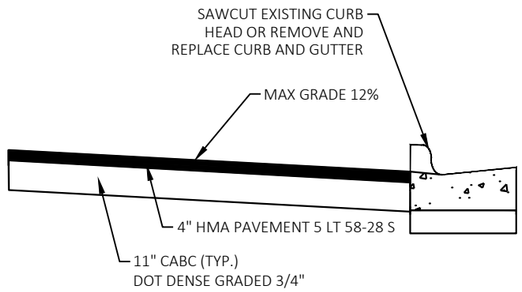
COMMERCIAL DRIVEWAY DETAIL
ASPHALT



SECTION A-A

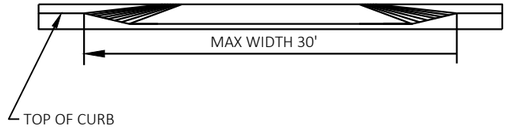


PLAN

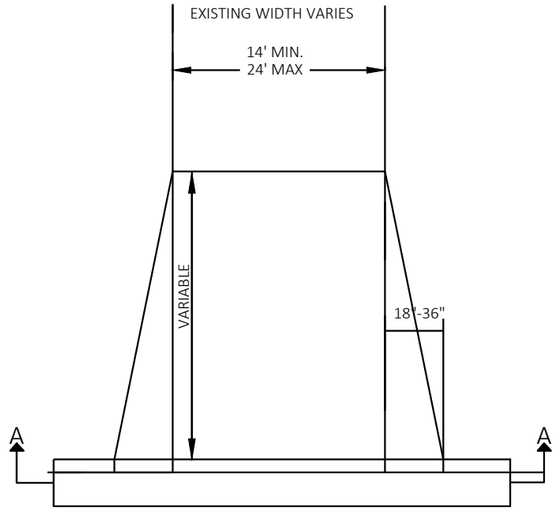


PROFILE

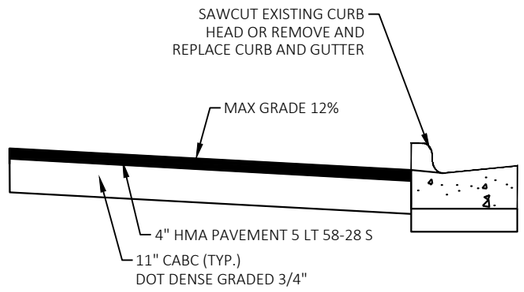
RESIDENTIAL DRIVEWAY DETAIL
ASPHALT



SECTION A-A



PLAN



PROFILE

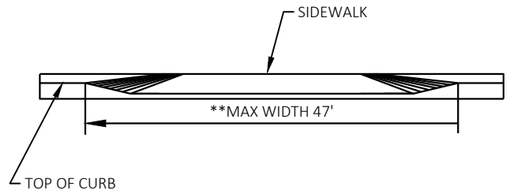
THE CITY OF Fitchburg PUBLIC WORKS

CONSTRUCTION DETAILS
FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE:	DATE: JULY 2024	REVISION: 100% PLANS
SHEET NO.: **C-218**			

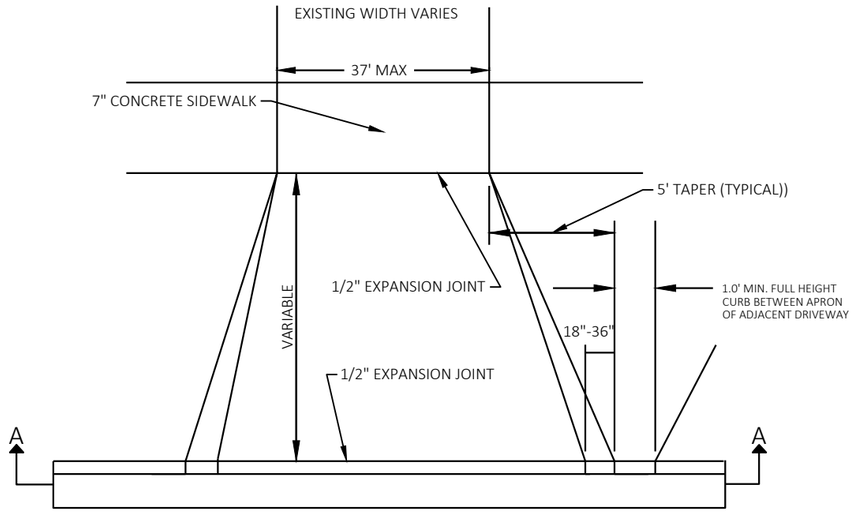
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COMMERCIAL DRIVEWAY DETAIL
CONCRETE

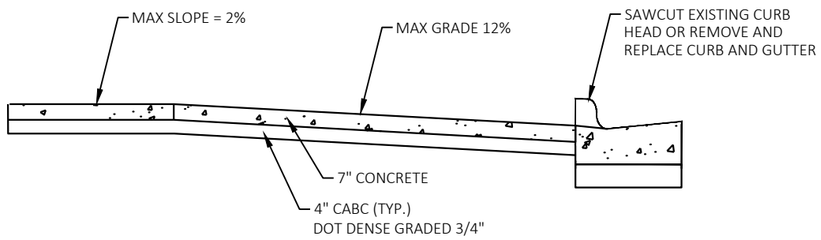


SECTION A-A

**APPLICANT MAY REQUEST AND ADMINISTRATIVE VARIANCE FOR A COMMERCIAL OR INDUSTRIAL CURB OPENING (EXCLUDING TAPERS) THAT IS GREATER THAN 37' IN WIDTH BY PROVIDING DOCUMENTATION PER CITY ORDINANCE 27-402(B).

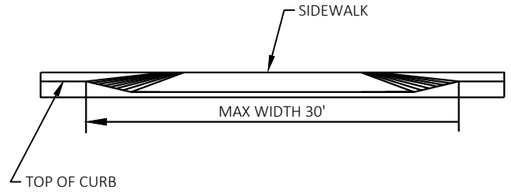


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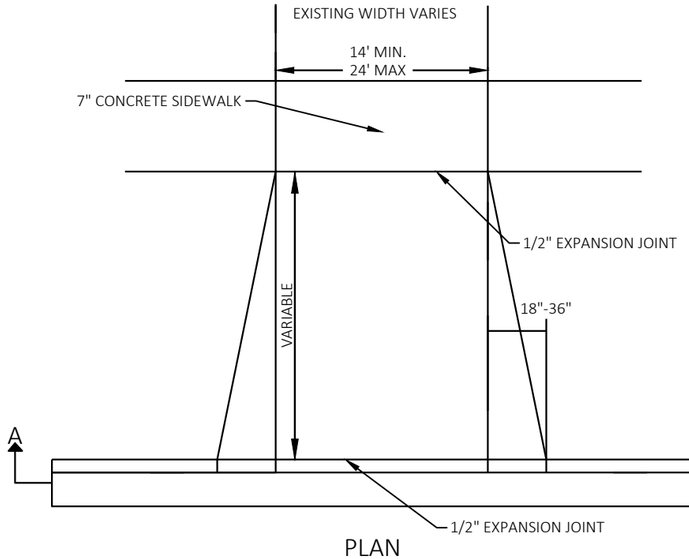


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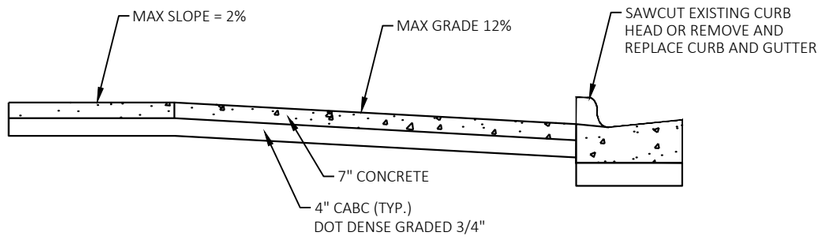
RESIDENTIAL DRIVEWAY DETAIL
CONCRETE



SECTION A-A



PLAN



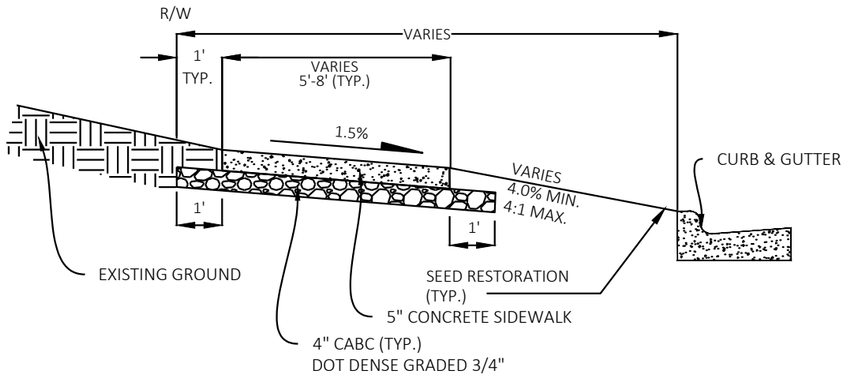
PROFILE

THE CITY OF Fitchburg PUBLIC WORKS

CONSTRUCTION DETAILS
FITCHRONA ROAD

SCALE:	
DATE:	JULY 2024
REVISION:	100% PLANS
PROJECT NO.:	60703122
SHEET NO.:	C-219

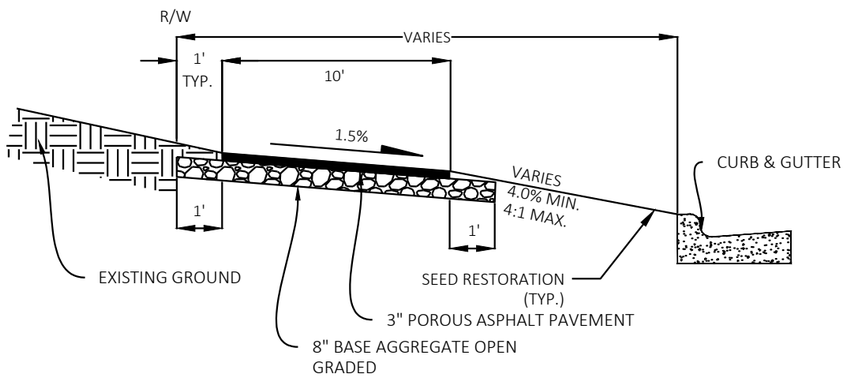
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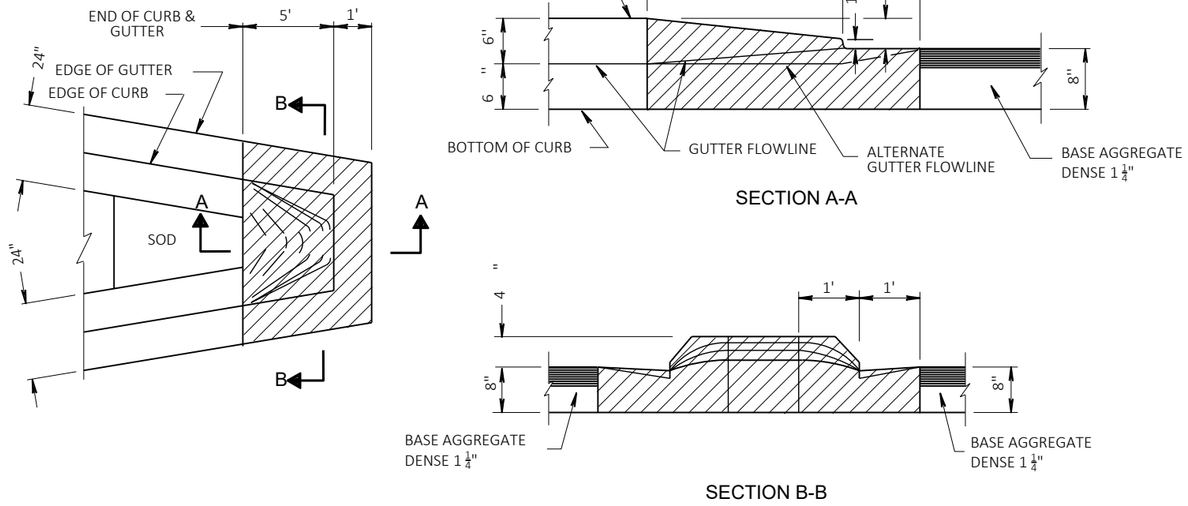
SIDEWALK TYPICAL SECTION

GENERAL NOTES FOR ALL SIDEWALK

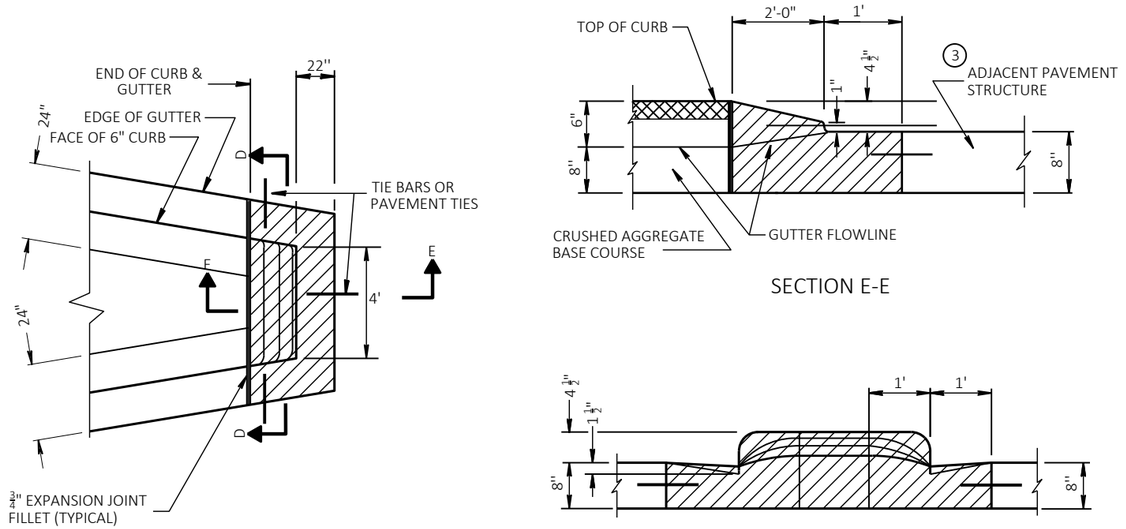
1. SIDEWALK THICKNESS SHALL BE 7-INCHES THROUGH DRIVEWAYS, 7-INCHES AT RAMPS, AND 5-INCHES FOR ALL PUBLIC SIDEWALK.
2. SIDEWALK CROSS-SLOPE SHALL BE 1.5% AND NOT EXCEED 2.0%.
3. PROVIDE A 1/2" EXPANSION JOINT AT ALL RAMP LOCATIONS, THROUGH DRIVEWAYS, AGAINST THE CURB AND GUTTER, AT RADII, AND EVERY 200' OF THE SIDEWALK.
4. CONSTRUCTION FORMS SHALL BE EQUAL TO OR GREATER THAN THE SIDEWALK THICKNESS.



MULTI-USE PATH TYPICAL SECTION



CONCRETE MEDIAN SLOPED NOSE TYPE 1



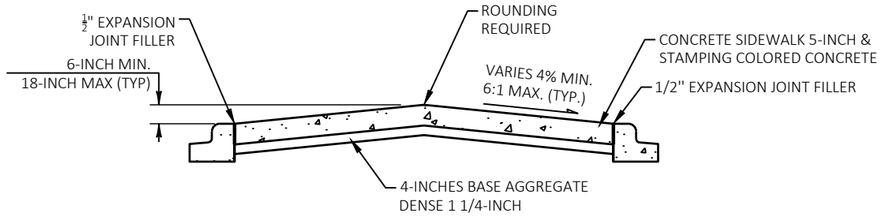
CONCRETE MEDIAN SLOPED NOSE TYPE 2

THE CITY OF Fitchburg PUBLIC WORKS

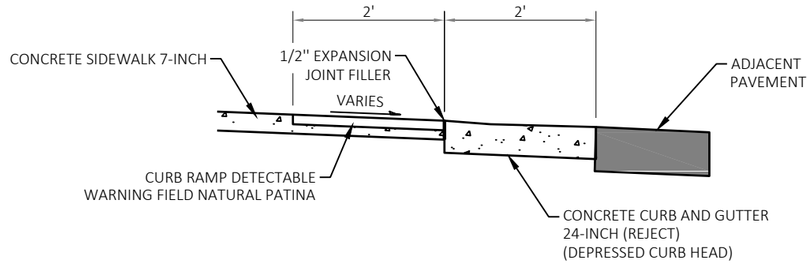
CONSTRUCTION DETAILS
FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE:
SHEET NO.: C-220	DATE: JULY 2024
	REVISION: 100% PLANS

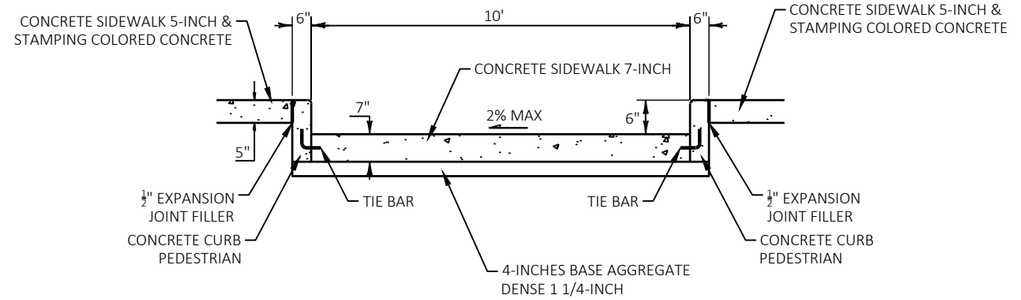
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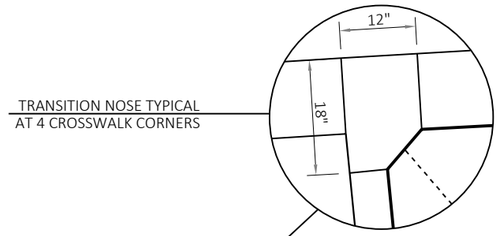
SECTION A-A

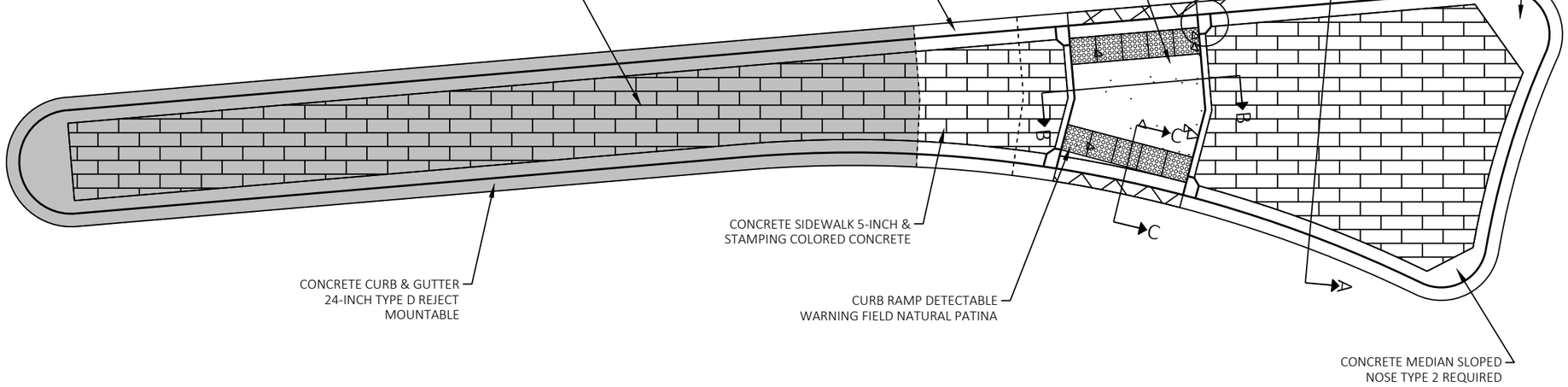


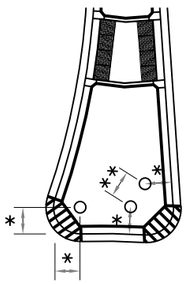
SECTION C-C



SECTION B-B







CENTER AND SPLITTER ISLAND SIGN LOCATION DETAIL (TYP.)

* DISTANCE TO BE LAID OUT IN THE FIELD BASED ON SIGN SIZE. TWO FOOT MINIMUM CLEARANCE BETWEEN THE EDGE OF SIGN AND THE FACE OF CURB.

** SEE A4-4 SIGN PLATE FOR POST SPACING REQUIREMENTS

THE CITY OF Fitchburg PUBLIC WORKS

CONSTRUCTION DETAILS

FITCHRONA ROAD

SCALE:

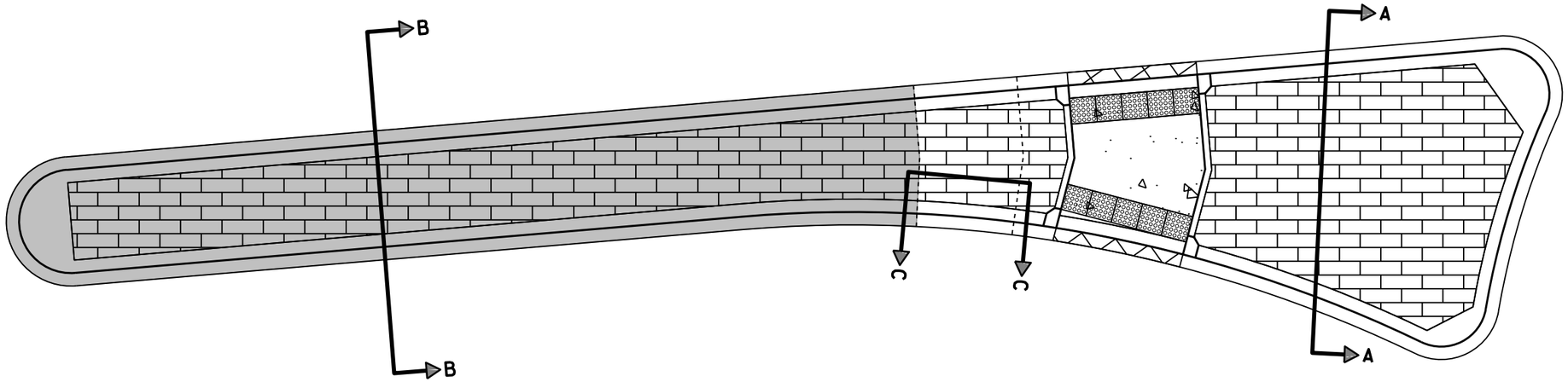
DATE: JULY 2024

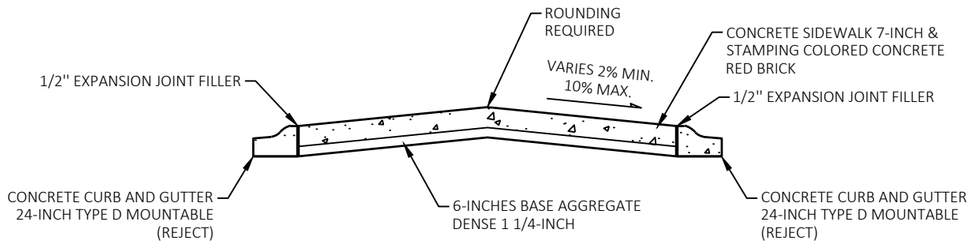
REVISION: 100% PLANS

PROJECT NO.: 60703122

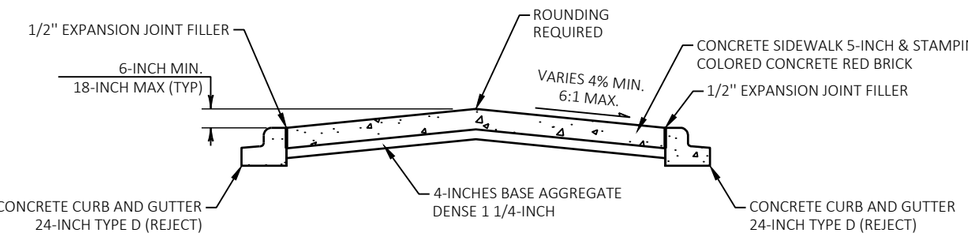
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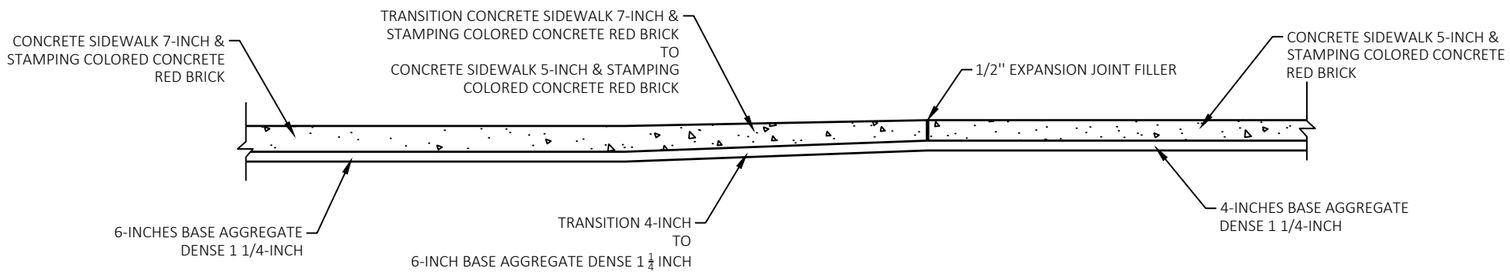




SECTION B-B



SECTION A-A



SECTION C-C

MEDIAN TRANSITION

THE CITY OF Fitchburg PUBLIC WORKS

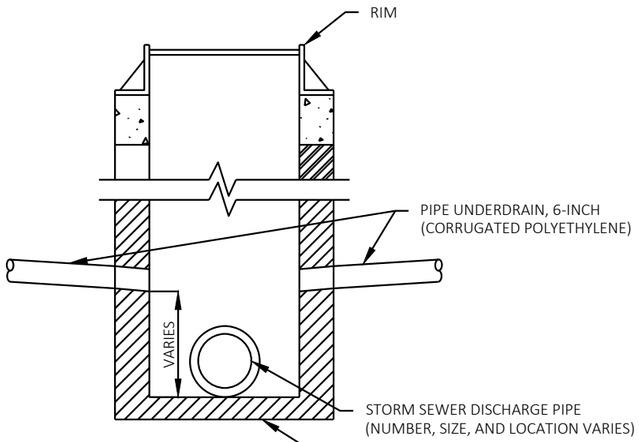
CONSTRUCTION DETAILS
FITCHRONA ROAD

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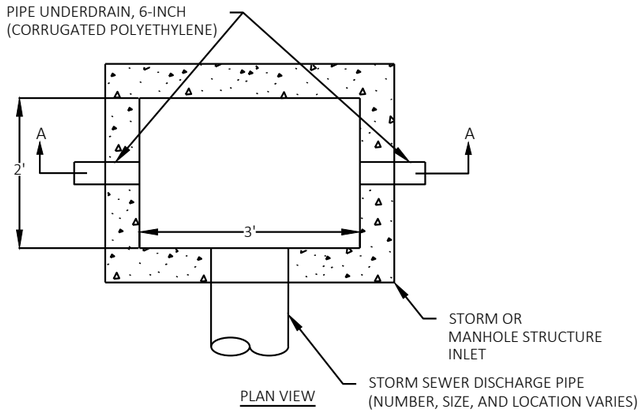
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UNDERDRAIN OUTFALL AT INLET

1. CONNECTIONS TO INLETS IN ROUNDABOUT MEDIAN SHALL USE PIPE UNDERDRAIN, 6-INCH (CORRUGATED POLYETHYLENE)
2. PROVIDE CORED OPENINGS FOR PIPE UNDERDRAIN, 6-INCH
3. SEE TYPICAL SECTIONS AND UTILITIES FOR PIPE UNDERDRAIN LOCATIONS

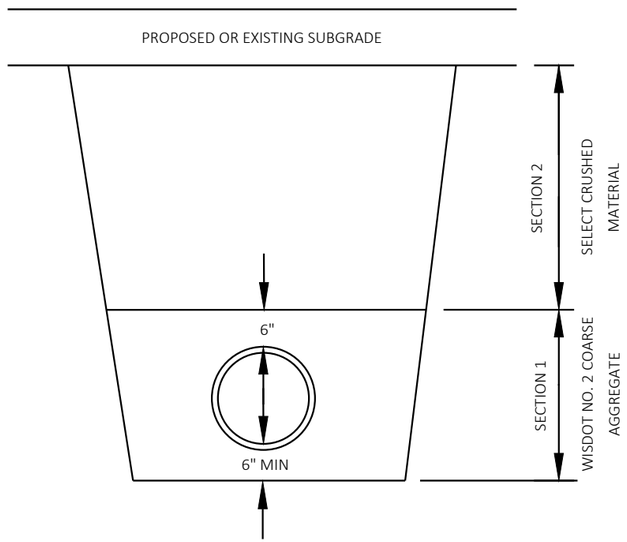


SECTION A-A



PLAN VIEW

PIPE UNDERDRAIN TRENCH

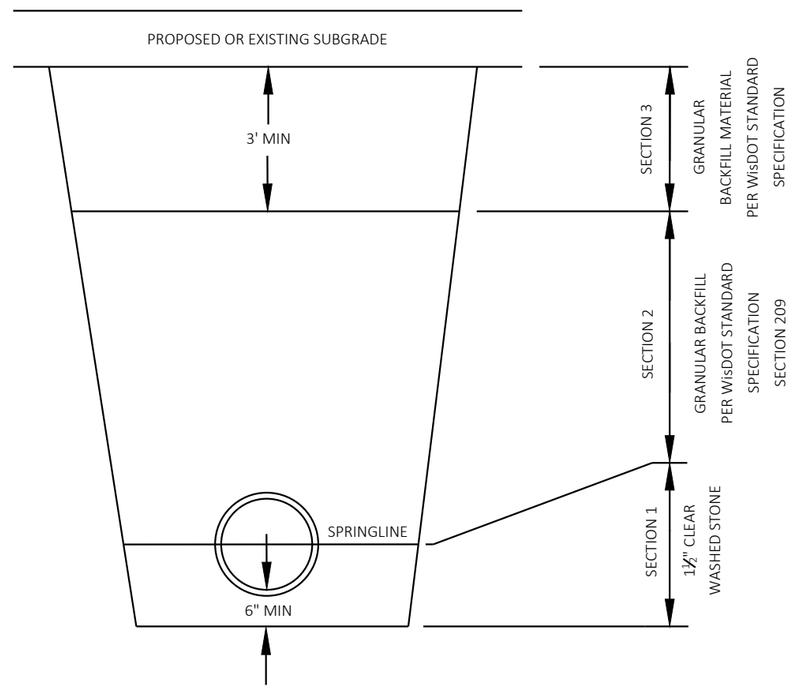


STANDARD TRENCH COMPACTION
ALL BACKFILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12" BEFORE COMPACTION UNLESS AUTHORIZED BY THE ENGINEER DUE TO THE CHARACTER OF THE MATERIAL AND THE COMPACTING EQUIPMENT. EACH LIFT SHALL BE MECHANICALLY COMPACTED TO THE REQUIRED DENSITY PRIOR TO PLACING SUCCEEDING LIFTS OF BACKFILL MATERIAL.

SECTION 1:
MECHANICALLY COMPACTED BEDDING AS REQUIRED BY THE SPECIFICATIONS. COMPACTION ACHIEVED WITH SMALLER PLATE COMPACTOR.

SECTION 2:
MINIMUM COMPACTION 90% MAXIMUM DENSITY. COMPACTION OF SELECT CRUSHED MATERIAL WITH BOMAG OR HOE-PAC SHALL NOT BEGIN UNTIL THE DEPTH OF SELECT CRUSHED MATERIAL IS TWO (2) FEET ABOVE THE TOP OF PIPE.

STORM SEWER TRENCH



STANDARD TRENCH COMPACTION
ALL BACKFILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12" BEFORE COMPACTION UNLESS AUTHORIZED BY THE ENGINEER DUE TO THE CHARACTER OF THE MATERIAL AND THE COMPACTING EQUIPMENT. EACH LIFT SHALL BE MECHANICALLY COMPACTED TO THE REQUIRED DENSITY PRIOR TO PLACING SUCCEEDING LIFTS OF BACKFILL MATERIAL.

SECTION 1:
MECHANICALLY COMPACTED BEDDING AS REQUIRED BY THE SPECIFICATIONS. COMPACTION ACHIEVED WITH SMALLER PLATE COMPACTOR.

SECTION 2:
MINIMUM COMPACTION 90% MAXIMUM DENSITY. COMPACTION OF BACKFILL WITH BOMAG OR HOE-PAC SHALL NOT BEGIN UNTIL THE DEPTH OF BACKFILL MATERIAL IS TWO (2) FEET ABOVE THE TOP OF PIPE.

SECTION 3:
MINIMUM COMPACTION 95% MAXIMUM DENSITY.

THE CITY OF Fitchburg PUBLIC WORKS

CONSTRUCTION DETAILS
FITCHRONA ROAD

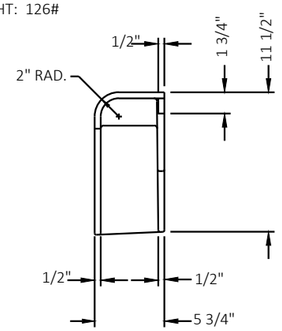
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DATE: JULY 2024
REVISION: 100% PLANS
PROJECT NO.: 60703122
SHEET NO.: C-223

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CURB BOX



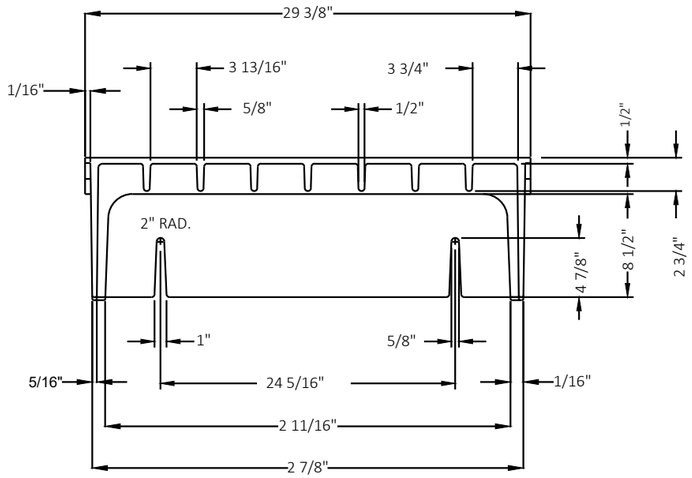
MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B
FINISH: NO PAINT
WEIGHT: 126#



SIDE VIEW

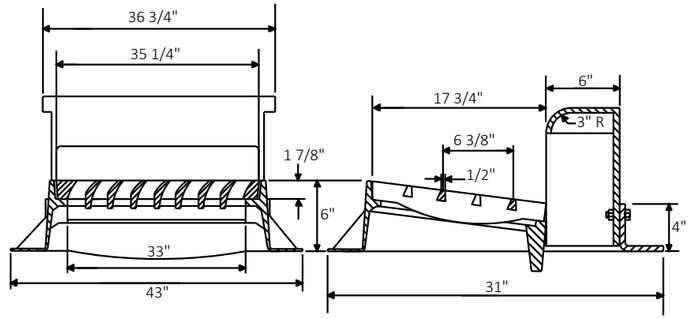


TOP VIEW

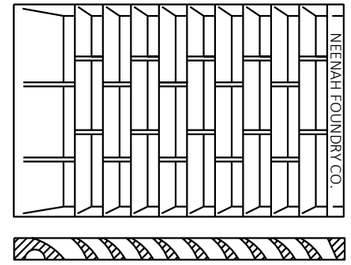


FRONT VIEW

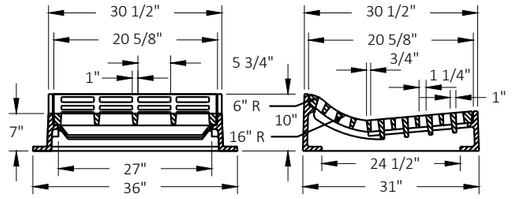
INLET COVERS



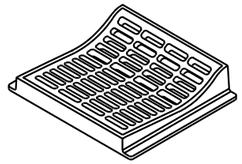
TYPE "H"
USE NEENAH R-3067-7004-L (VANE GRATE)

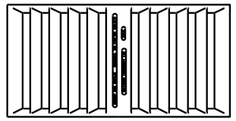


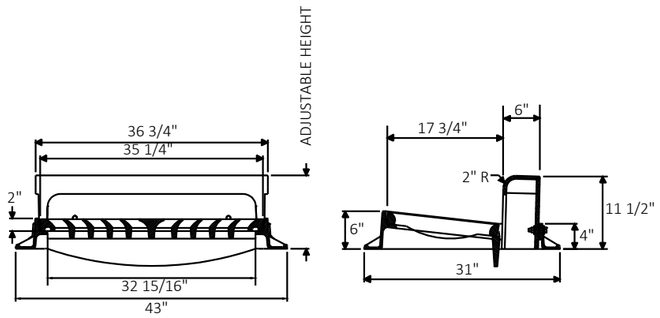
VANE GRATE OPENINGS



TYPE "T"
USE NEENAH R-3501-R







TYPE "VB"
USE NEENAH R-3067-7004-VB (TWO-WAY VANE GRATE)

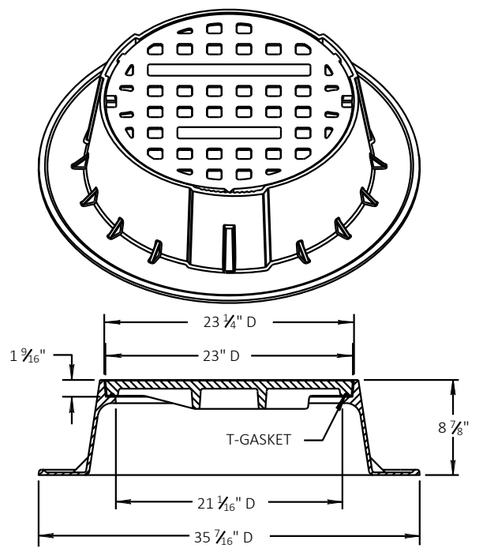
THE CITY OF Fitchburg PUBLIC WORKS

CONSTRUCTION DETAILS
FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE:	DATE: JULY 2024	REVISION: 100% PLANS
SHEET NO.: **C-224**			

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\Sheets\Plan\021001-cd.dwg Layout: 224 User: MelotiKL Plotted: Jul 12, 2024 - 9:11am

MANHOLE COVERS



TYPE "J" SPECIAL

(NOTED AS TYPE J-S)

USE NEENAH R-1550 (WITH TYPE "B" NON-ROCKING, SELF-SEALING SEWER ACCESS STRUCTURE LIDS WITH CONCEALED PIPE HOLES)

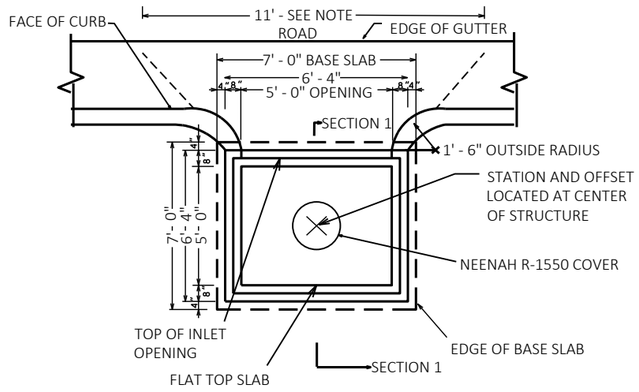
GENERAL NOTES:

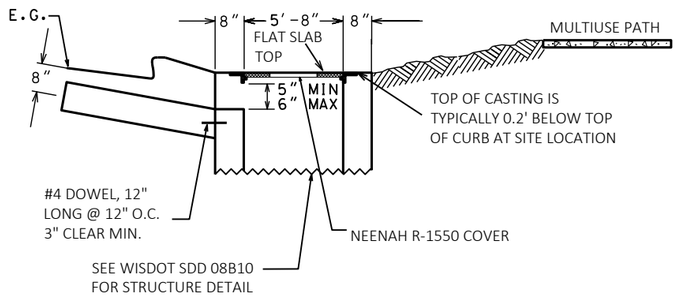
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

TERRACE INLET 5X5-FT
(N.T.S.)



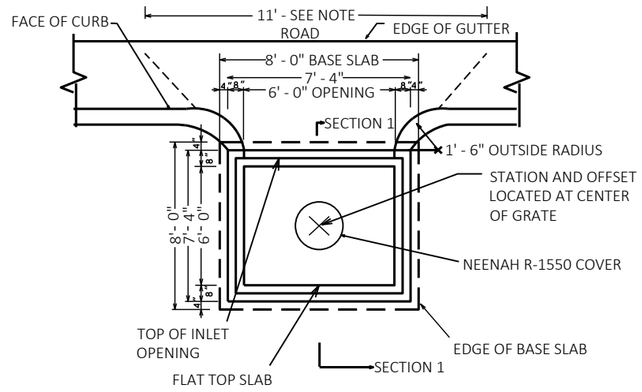


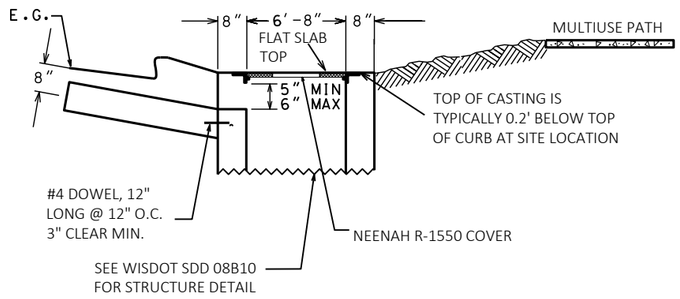
SECTION 1

GENERAL NOTES:

CONTRACTOR SHALL BE REQUIRED TO HAND POUR AND FORM THE LIMITS OF THE CURB ASSOCIATED WITH THE STRUCTURE UNLESS SPECIFICALLY APPROVED BY THE CONSTRUCTION ENGINEER.

MANHOLE 6X6-FT
(N.T.S.)





SECTION 1

GENERAL NOTES:

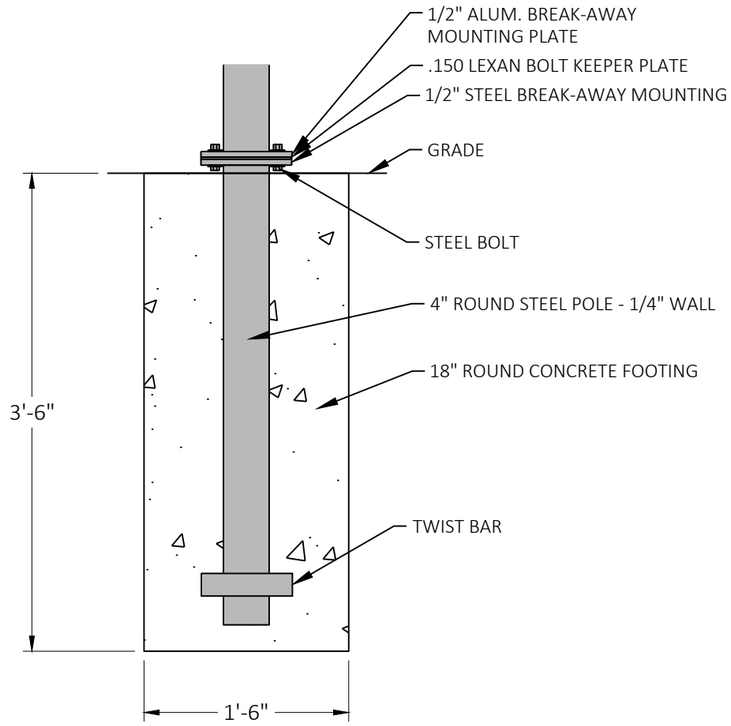
CONTRACTOR SHALL BE REQUIRED TO HAND POUR AND FORM THE LIMITS OF THE CURB ASSOCIATED WITH THE STRUCTURE UNLESS SPECIFICALLY APPROVED BY THE CONSTRUCTION ENGINEER.

THE CITY OF Fitchburg PUBLIC WORKS

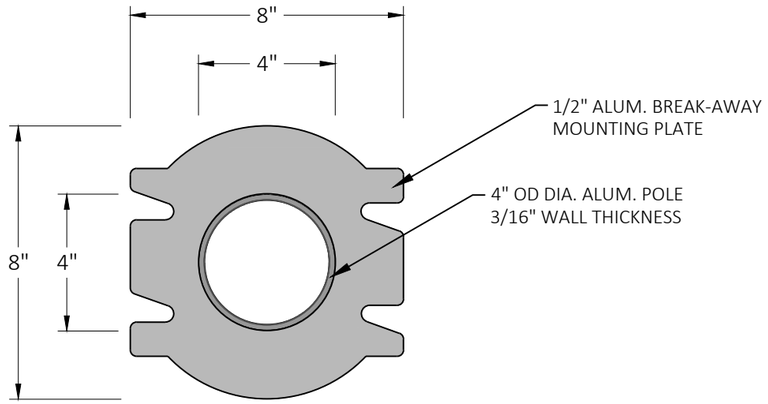
CONSTRUCTION DETAILS
FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE:
SHEET NO.: C-225	DATE: JULY 2024
	REVISION: 100% PLANS

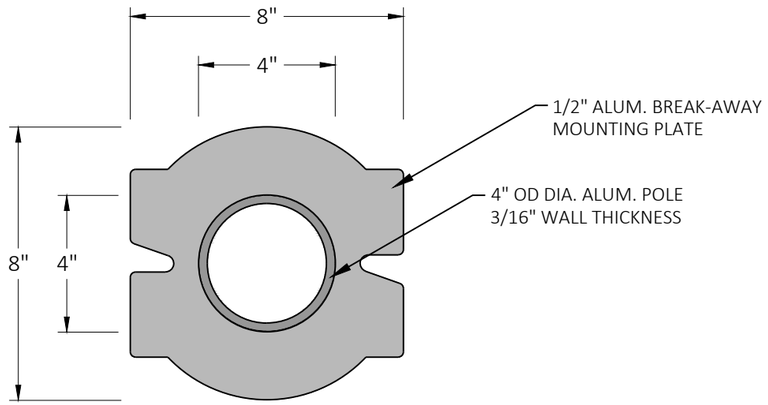
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DIRECTIONAL SIGN - FOOTING DETAIL



SMALL & MEDIUM SIZE SIGN - BREAK-AWAY MOUNTING PLATE DETAIL



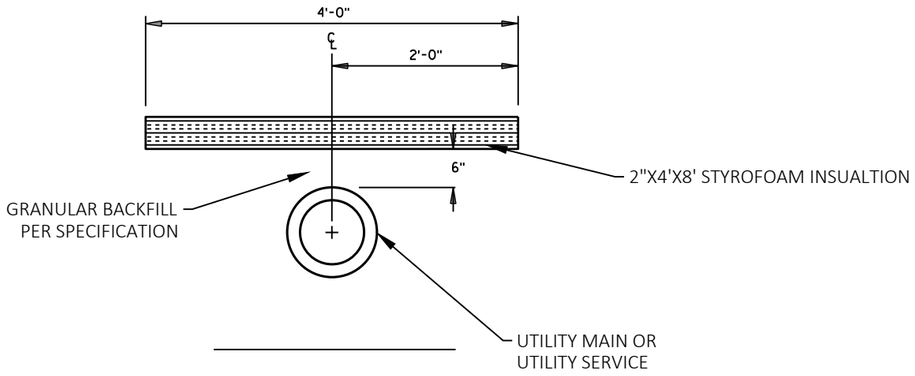
LARGE SIZE SIGN - BREAK-AWAY MOUNTING PLATE DETAIL

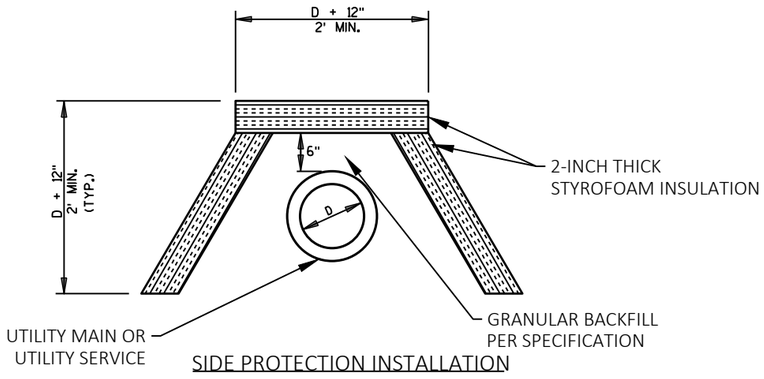
THE CITY OF Fitchburg PUBLIC WORKS

CONSTRUCTION DETAILS
FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE:	DATE: JULY 2024	REVISION: 100% PLANS
SHEET NO.: **C-226**			

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\021001-cd.dwg Layout: 226 User: MelotiKL Plotted: Jul 12, 2024 - 9:11am





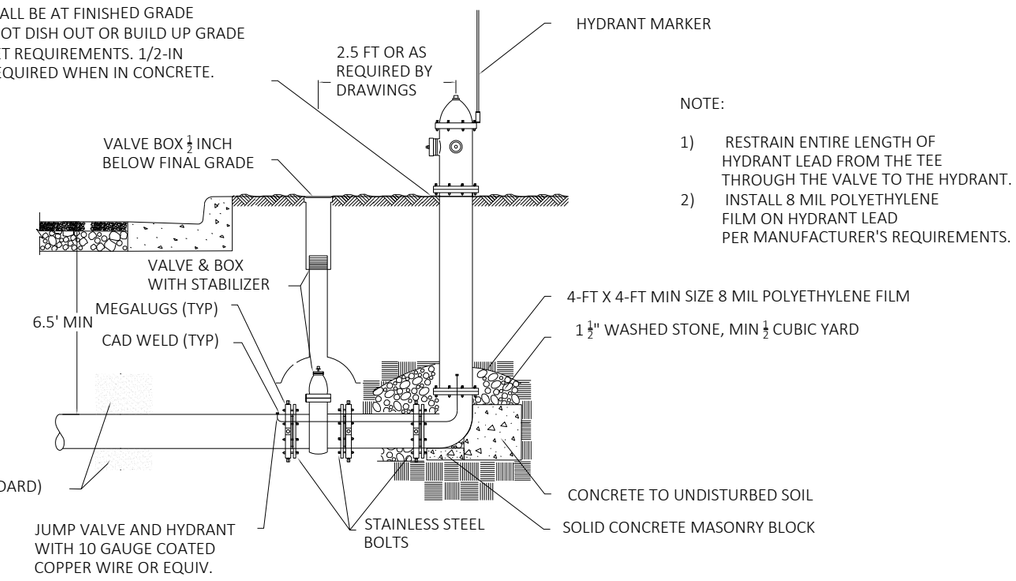
SIDE PROTECTION INSTALLATION

PIPE INSULATION DETAIL
NTS

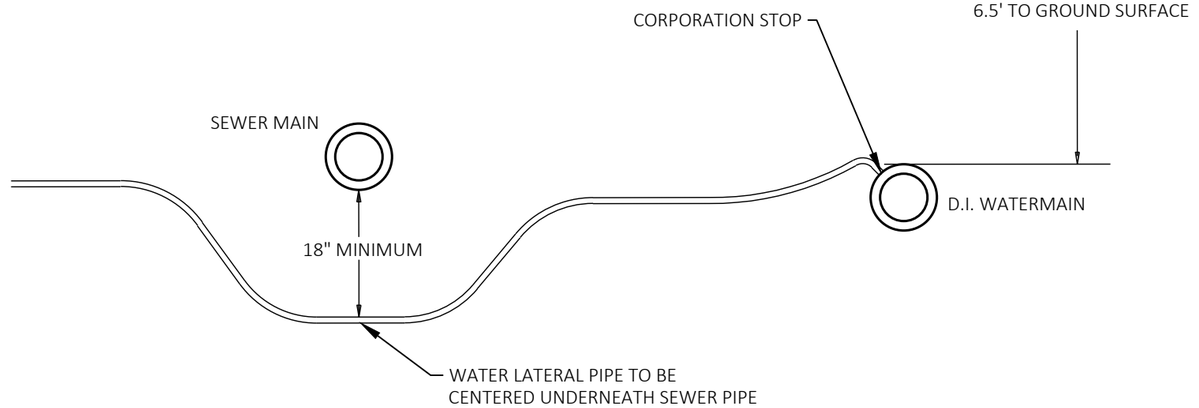
GENERAL NOTES:
1. THE SIDE PROTECTION INSTALLATION SHALL BE USED WHERE FROST WILL PENETRATE BELOW THE PIPE INVERT.
2. SEE SPECIFICATIONS FOR INSULATION LAYER THICKNESS.
3. SEE PLAN AND PROFILE SHEETS FOR INSULATION LOCATIONS.

FIRE HYDRANT

BURY LINE ON HYDRANT SHALL BE AT FINISHED GRADE OR WITHIN +/- 0.2 FT. DO NOT DISH OUT OR BUILD UP GRADE AROUND HYDRANT TO MEET REQUIREMENTS. 1/2-IN EXPANSION JOINT FILLER REQUIRED WHEN IN CONCRETE.



NOTE:
1) RESTRAIN ENTIRE LENGTH OF HYDRANT LEAD FROM THE TEE THROUGH THE VALVE TO THE HYDRANT.
2) INSTALL 8 MIL POLYETHYLENE FILM ON HYDRANT LEAD PER MANUFACTURER'S REQUIREMENTS.



SEWER AND WATER LATERAL CROSSING
NTS

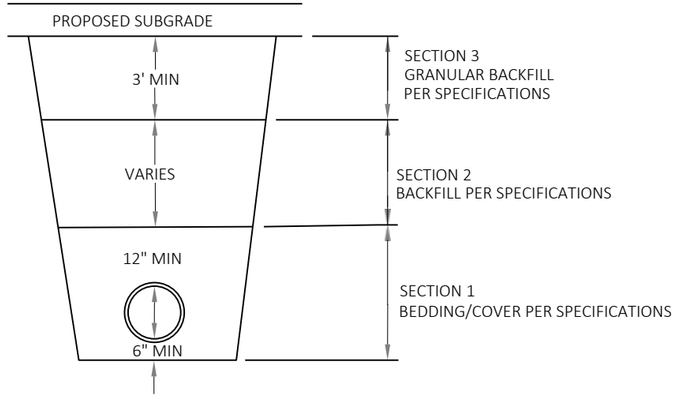
THE CITY OF Fitchburg PUBLIC WORKS

CONSTRUCTION DETAILS
FITCHRONA ROAD

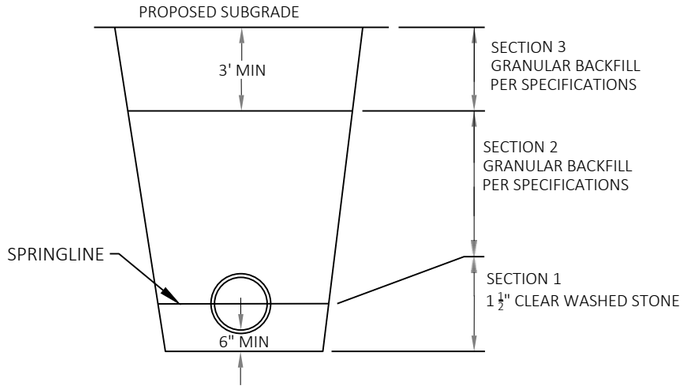
PROJECT NO.: 60703122	SCALE:
SHEET NO.: C-227	DATE: JULY 2024
	REVISION: 100% PLANS

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SANITARY SEWER AND WATER MAIN TRENCH



STORM SEWER TRENCH



STANDARD TRENCH COMPACTION

ALL BACKFILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 18" BEFORE COMPACTION UNLESS AUTHORIZED BY THE ENGINEER DUE TO THE CHARACTER OF THE MATERIAL AND THE COMPACTION EQUIPMENT. EACH LIFT SHALL BE MECHANICALLY COMPACTED TO THE REQUIRED DENSITY PRIOR TO PLACING SUCCEEDING LIFTS OF BACKFILL MATERIAL.

SECTION 1

MECHANICALLY COMPACTED BEDDING AS REQUIRED BY THE SPECIFICATIONS. COMPACTION ACHIEVED WITH SMALLER PLATE COMPACTOR.

SECTION 2

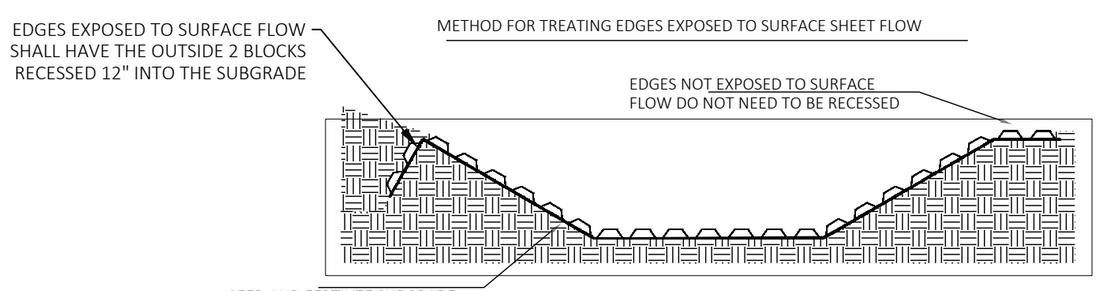
MINIMUM COMPACTION 90% MAXIMUM DENSITY. COMPACTION OF BACKFILL WITH BOMAG OR HOE-PAC SHALL NOT BEGIN UNTIL THE DEPTH OF BACKFILL MATERIALS IS TWO (2) FEET ABOVE THE TOP OF PIPE.

SECTION 3

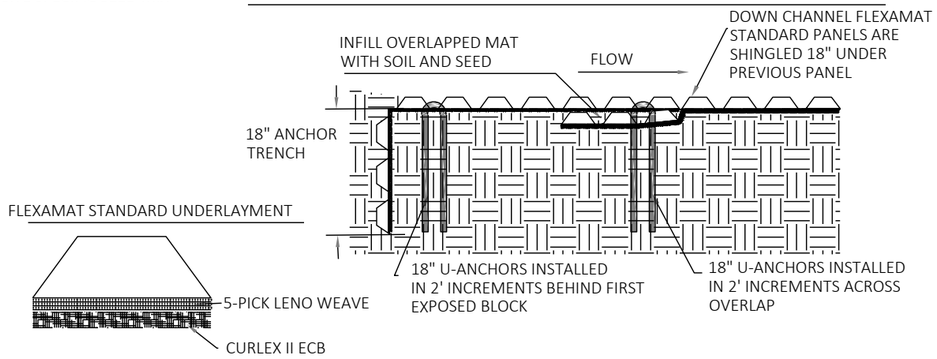
MINIMUM COMPACTION 95% MAXIMUM DENSITY.

FLEXAMAT INSTALLATION

METHOD FOR TREATING EDGES EXPOSED TO SURFACE SHEET FLOW



LEADING EDGE ANCHOR TRENCH AND OVERLAP SEAMS PERPENDICULAR TO FLOW



NOTE:

1. FLEXAMAT SHALL BE INSTALLED TO MANUFACTURER'S GUIDELINES AND STANDARDS.

THE CITY OF Fitchburg PUBLIC WORKS

CONSTRUCTION DETAILS
FITCHRONA ROAD

SCALE:

DATE: JULY 2024

REVISION: 100% PLANS

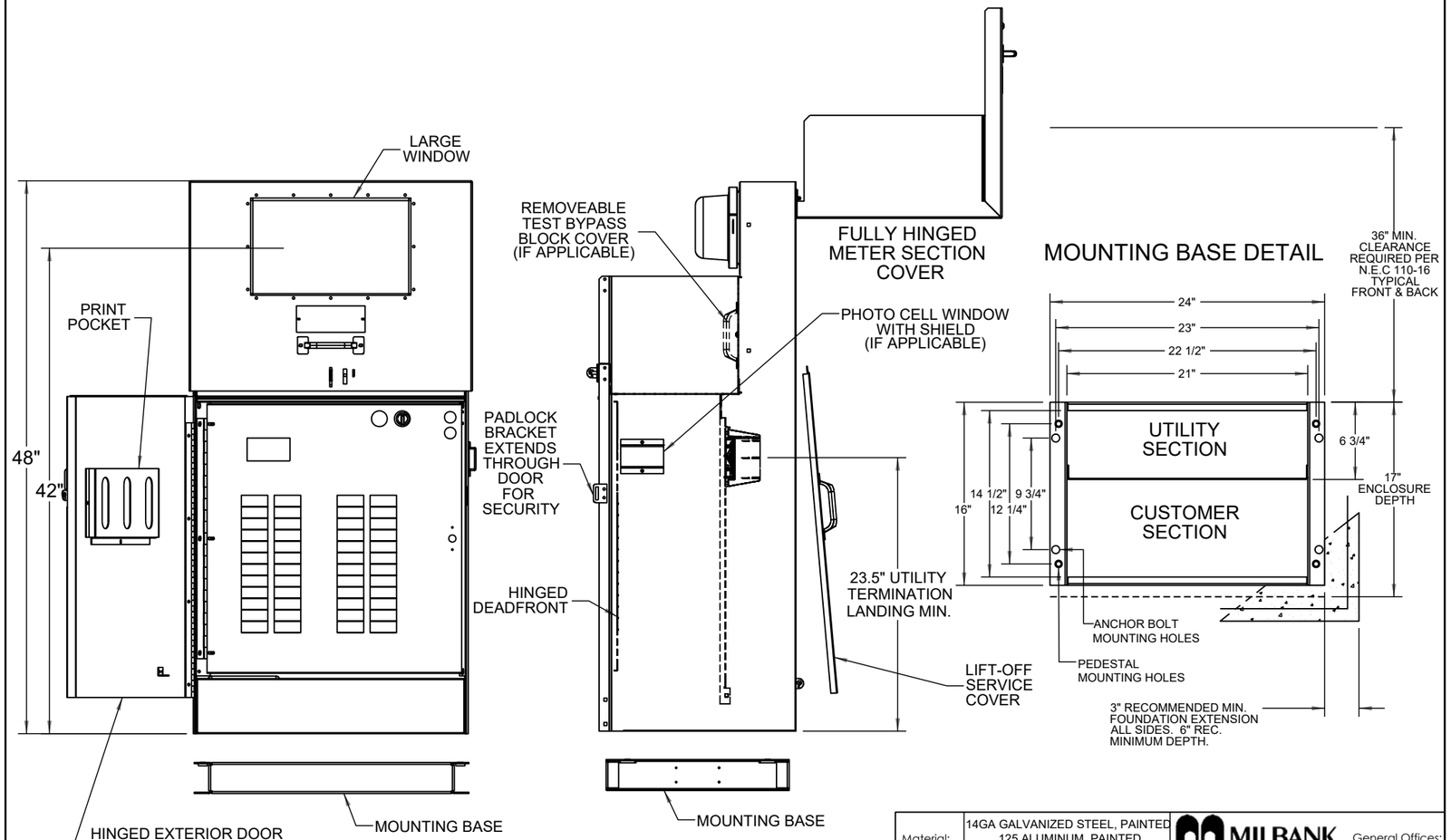
PROJECT NO.: 60703122

SHEET NO.: C-228

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B-Size WE Outline

24" COMMERCIAL PEDESTAL



(4) 5/8-11 X 18" ANCHOR BOLTS RECOMMENDED

**	01-18-10	FIRST RELEASE	TB				

Material:	14GA GALVANIZED STEEL, PAINTED .125 ALUMINUM, PAINTED 14GA STAINLESS STEEL	MILBANK MANUFACTURING CO.	General Offices: Kansas City, MO
Finish:		Title:	24" WIDE METERED PEDESTAL SINGLE METER, CENTERED
Tolerances: Unless Specified Otherwise X.X ±.1 X.XX ±.03 X.XXX ±.015 X° ±2°	Third Angle Projection	Catalog No.:	
		Ref:	
Scale: NTS	Checked By:	Drawing No.:	B-Size WE Outline
Drawn By: TB	Approved By:	Date: 01-18-10	Sheet 1 of 1

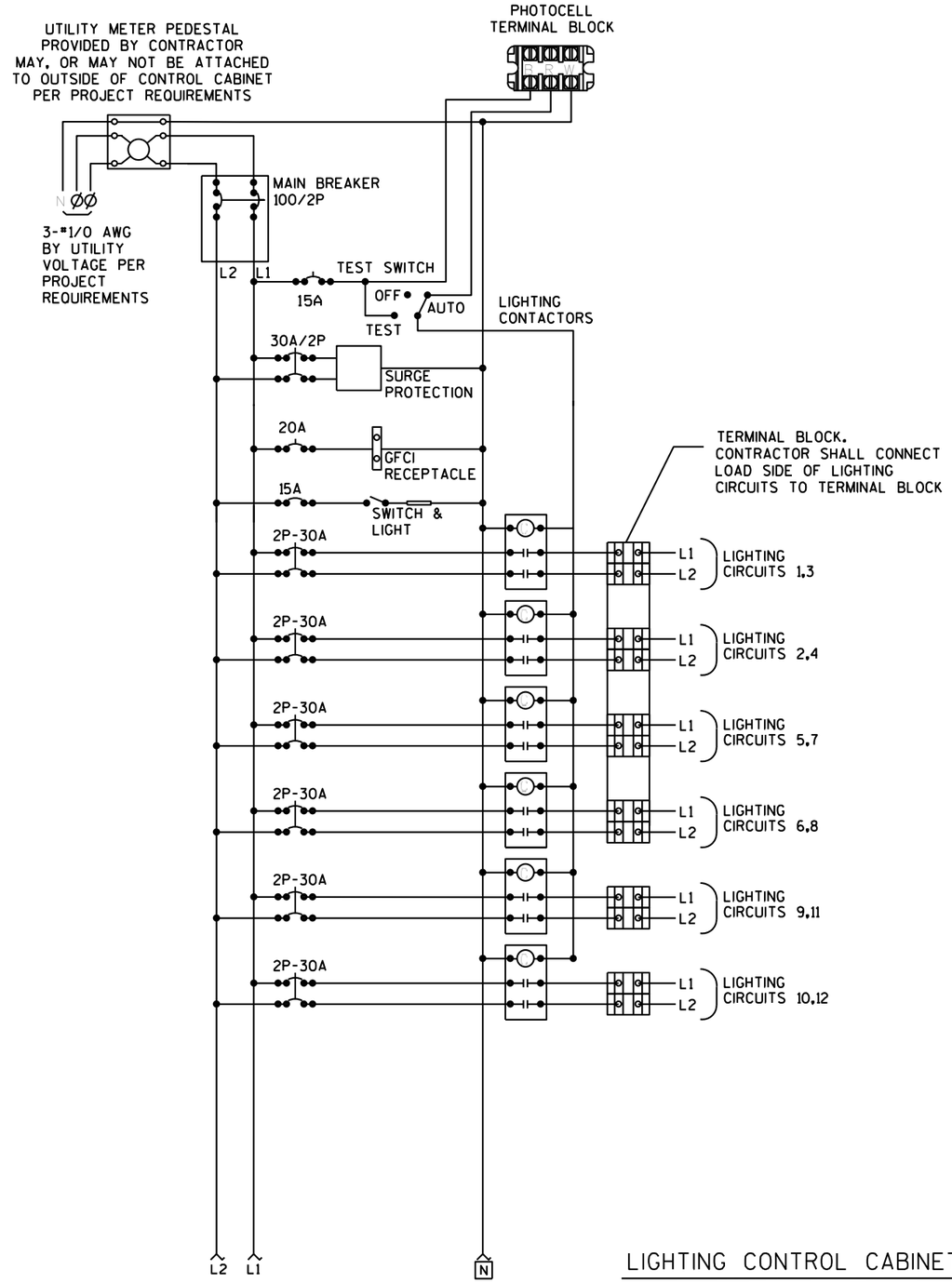
THE CITY OF Fitchburg PUBLIC WORKS

LIGHTING DETAIL

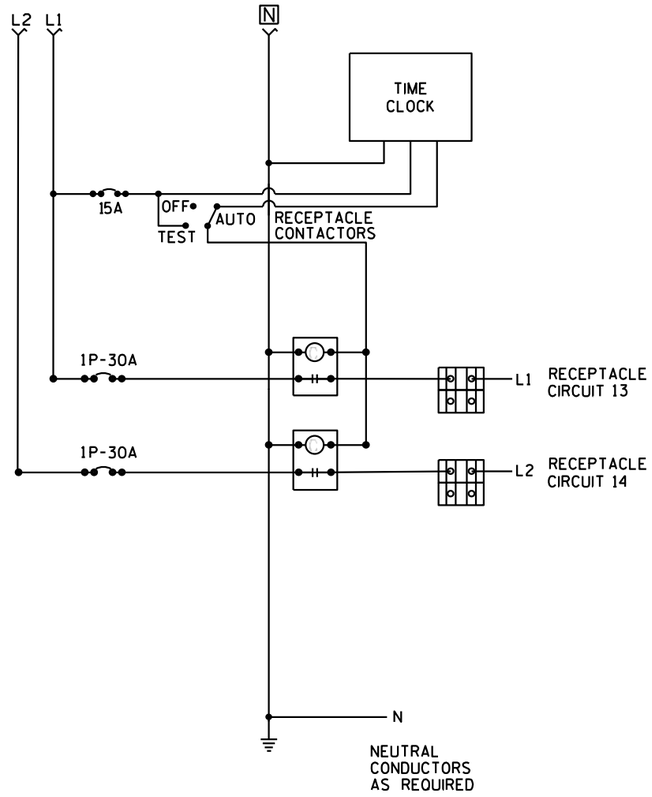
FITCHRONA / LACY ROAD

PROJECT NO.: 60703122	SCALE: N/A		
SHEET NO.: C-229	DATE: JULY 2024	REVISION: 100% PLANS	

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CONTROL CABINET SCHEMATIC



LIGHTING CONTROL CABINET - WIRING

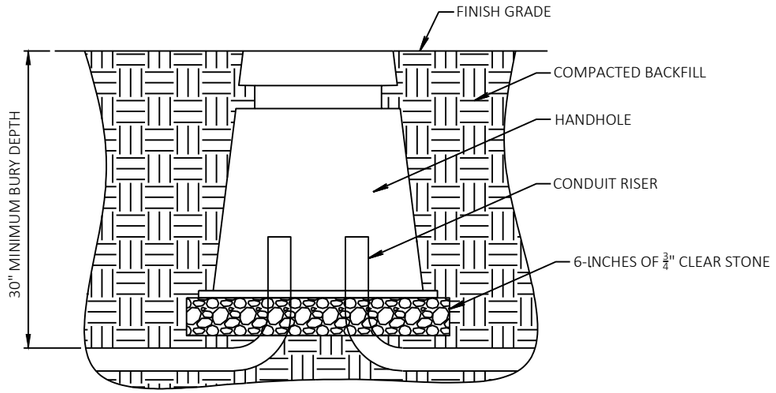
THE CITY OF Fitchburg PUBLIC WORKS

LIGHTING DETAIL

FITCHRONA / LACY ROAD

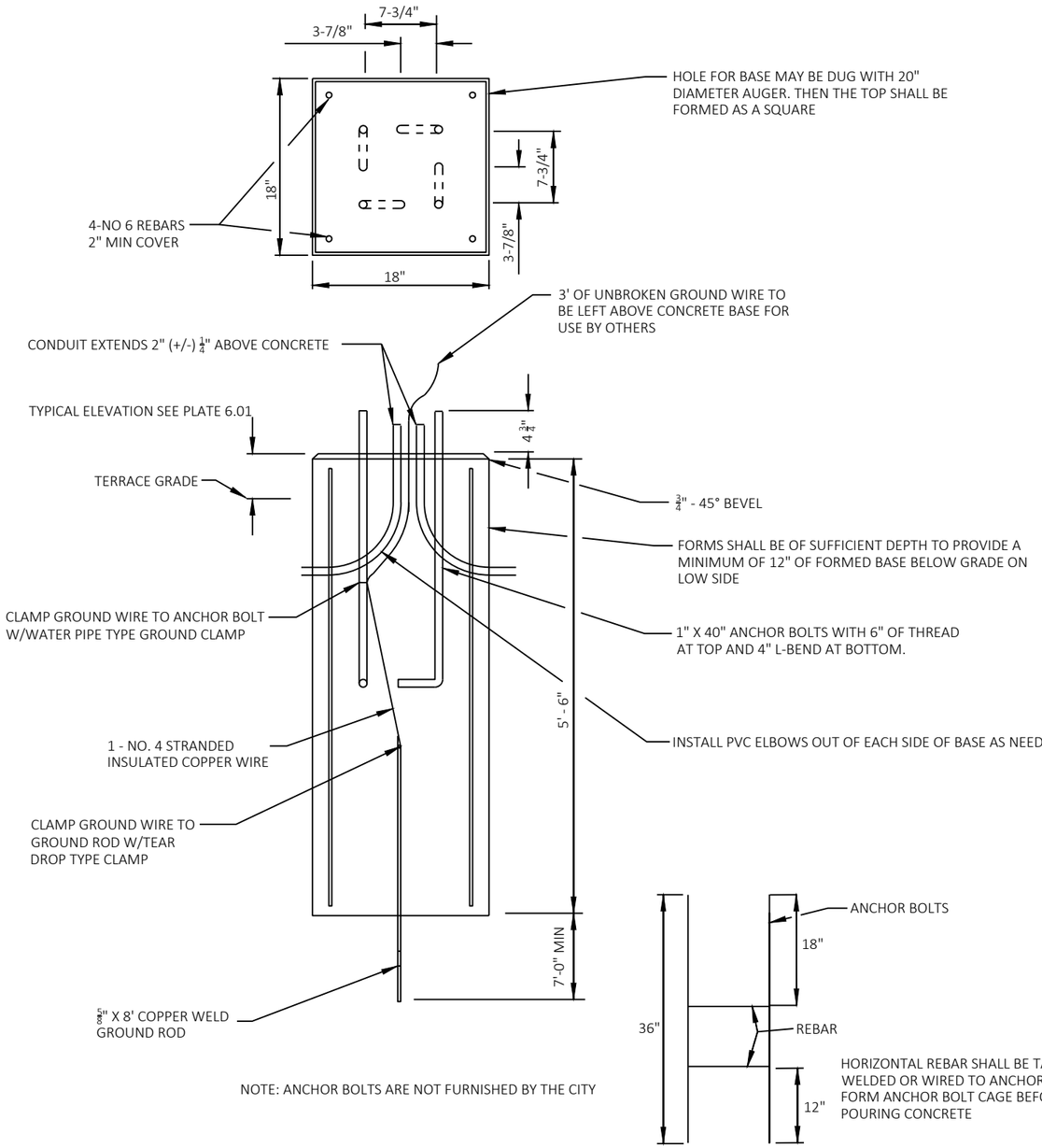
PROJECT NO.: 60703122	SCALE: N/A
SHEET NO.: C-230	DATE: JULY 2024
	REVISION: 100% PLANS

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HANDHOLES TYPE I
POLYMER CONCRETE DETAIL

LID SHALL READ "STREET LIGHTS" AND HAVE STAINLESS STEEL BOLTS



NOTE: ANCHOR BOLTS ARE NOT FURNISHED BY THE CITY

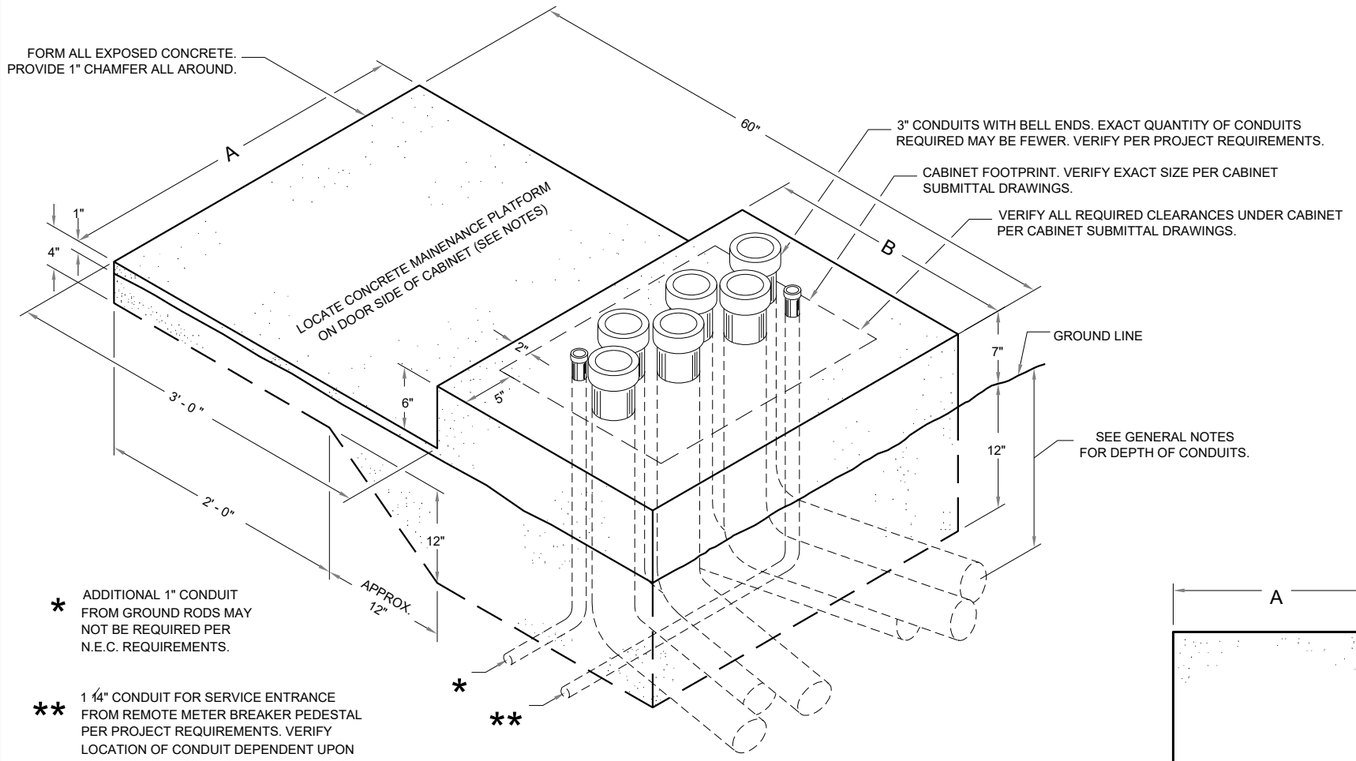
CONCRETE BASE, TYPE LB3

THE CITY OF Fitchburg PUBLIC WORKS

LIGHTING DETAIL
FITCHRONA / LACY ROAD

SCALE: N/A	DATE: JULY 2024	REVISION: 100% PLANS
PROJECT NO.: 60703122	SHEET NO.: C-231	

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\Sheets\Plan\023601-lp.dwg Layout: Detail 3 User: james.jeninga Plotted: Jul 10, 2024 - 2:21pm



* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

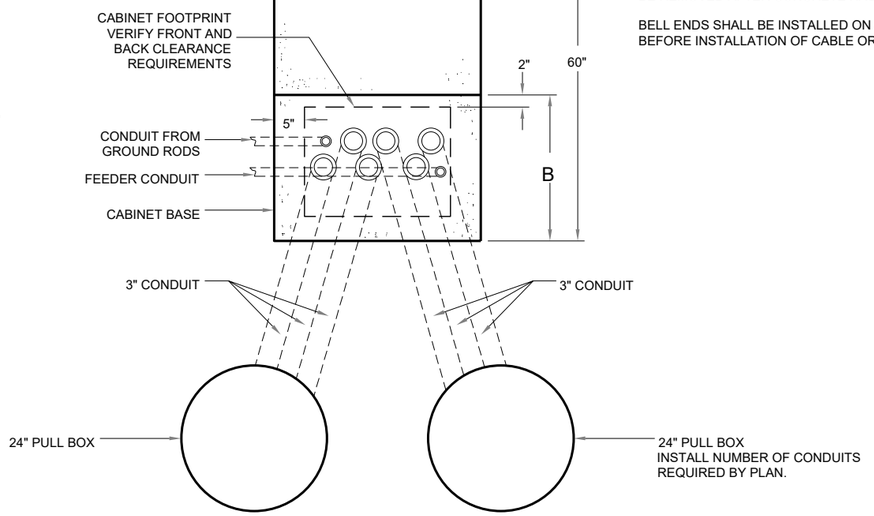
** 1 ¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS		MAXIMUM 3" CONDUITS
		A	B	
L24	24"	34"	24"	4



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NON - METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U. L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS UNLESS DETERMINED BY THE ENGINEER IN THE FIELD.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NON - METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON - METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCHES MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUIT EXITING THE CONCRETE BASE SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCH MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

THE CITY OF Fitchburg PUBLIC WORKS

LIGHTING DETAIL

FITCHRONA / LACY ROAD

SCALE: N/A

DATE: JULY 2024

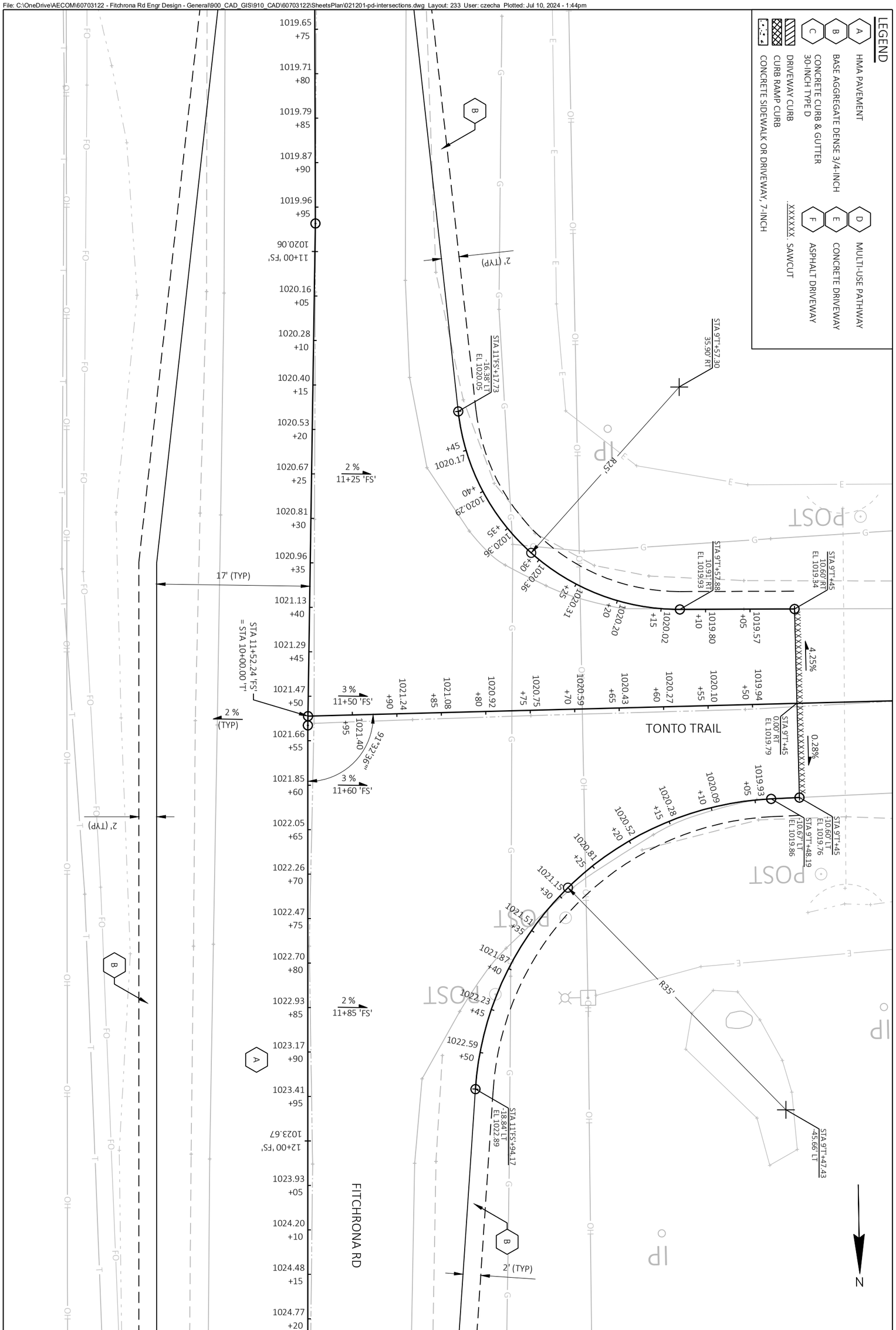
REVISION: 100% PLANS

PROJECT NO.: 60703122

SHEET NO.: **C-232**

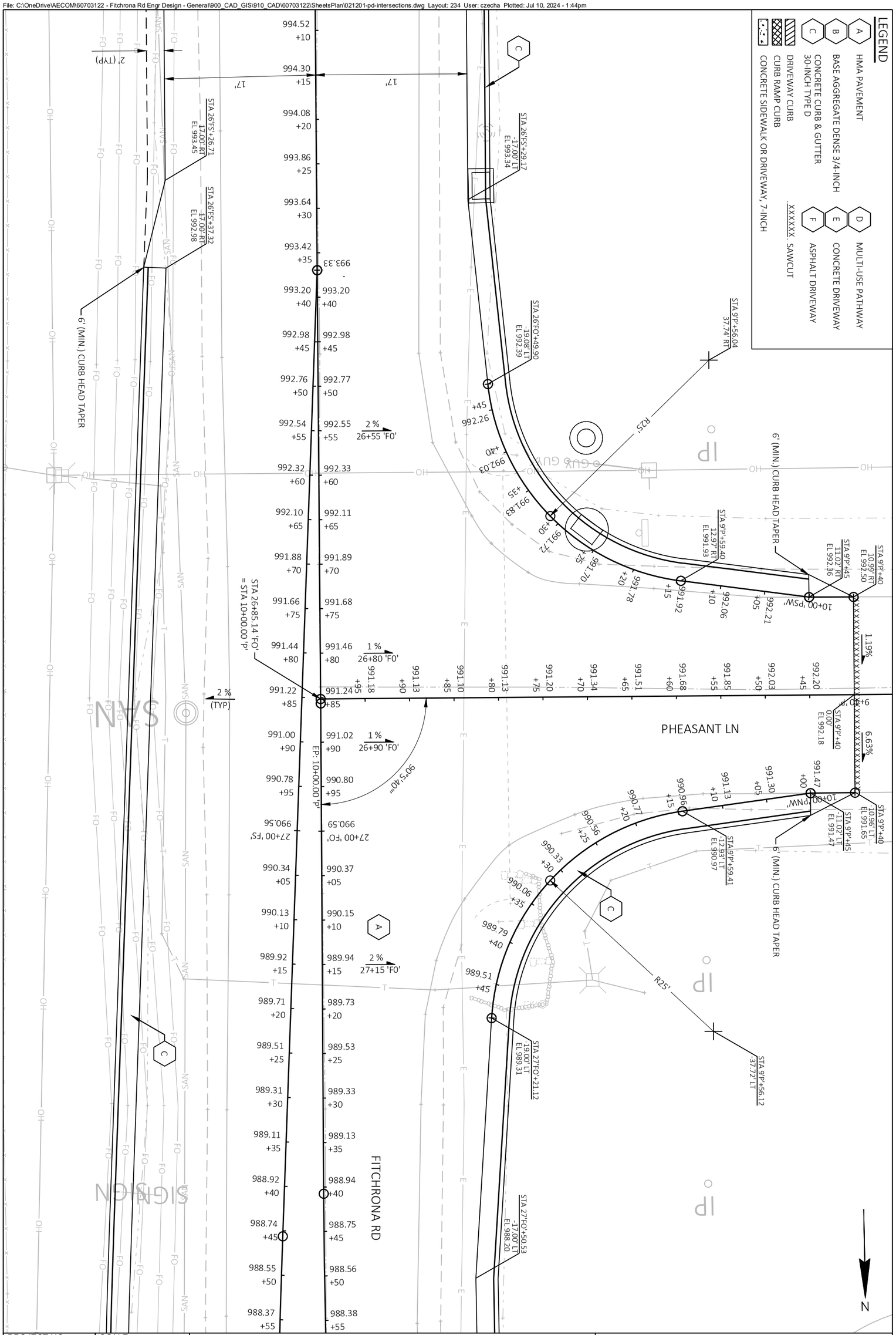
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PROJECT NO.: 60703122	SCALE: 1 IN: 20 FT	PLAN DETAILS - INTERSECTIONS
SHEET NO.: **C-233**	DATE: JULY 2024	FITCHRONA ROAD
	REVISION: 100% PLANS	THE CITY OF Fitchburg PUBLIC WORKS

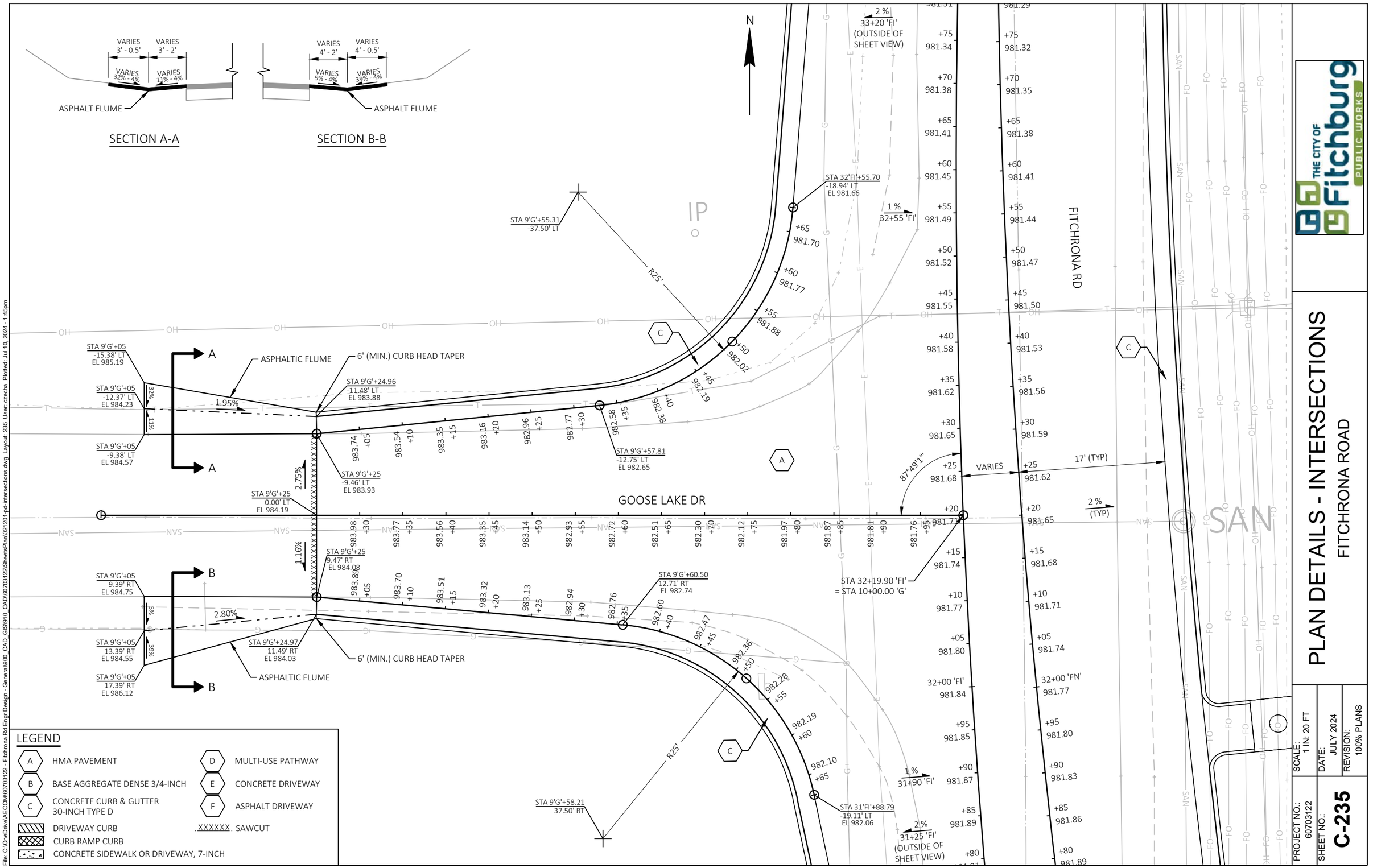
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PROJECT NO.: 60703122	SCALE: 1 IN: 20 FT	PLAN DETAILS - INTERSECTIONS	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: C-234	DATE: JULY 2024	FITCHRONA ROAD	
	REVISION: 100% PLANS		

SECTION A-A

SECTION B-B



LEGEND

A	HMA PAVEMENT	D	MULTI-USE PATHWAY
B	BASE AGGREGATE DENSE 3/4-INCH	E	CONCRETE DRIVEWAY
C	CONCRETE CURB & GUTTER 30-INCH TYPE D	F	ASPHALT DRIVEWAY
	DRIVEWAY CURB	XXXXXX	SAWCUT
	CURB RAMP CURB		
	CONCRETE SIDEWALK OR DRIVEWAY, 7-INCH		

THE CITY OF Fitchburg PUBLIC WORKS

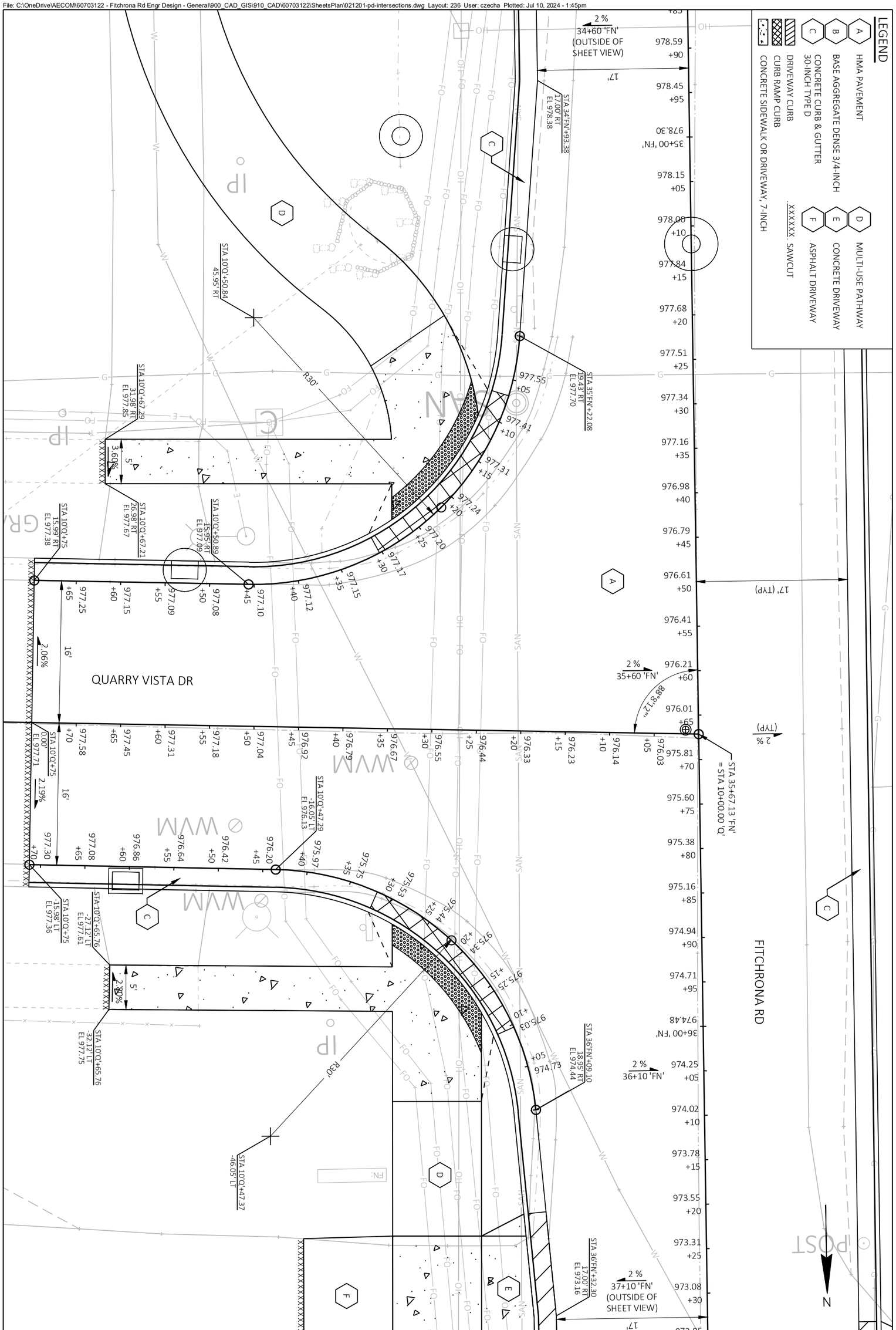
PLAN DETAILS - INTERSECTIONS

FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE: 1 IN: 20 FT
SHEET NO.: C-235	DATE: JULY 2024
	REVISION: 100% PLANS

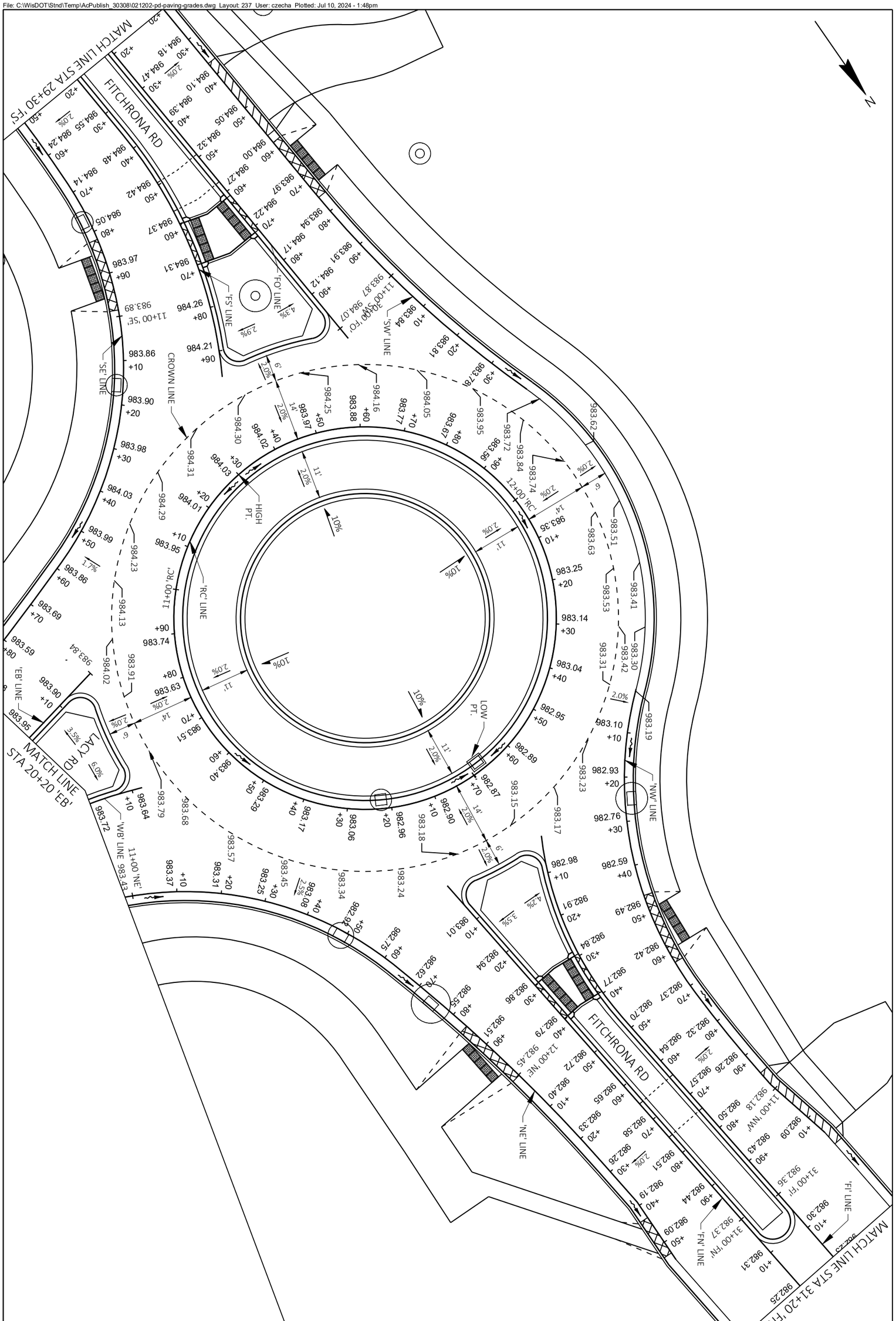
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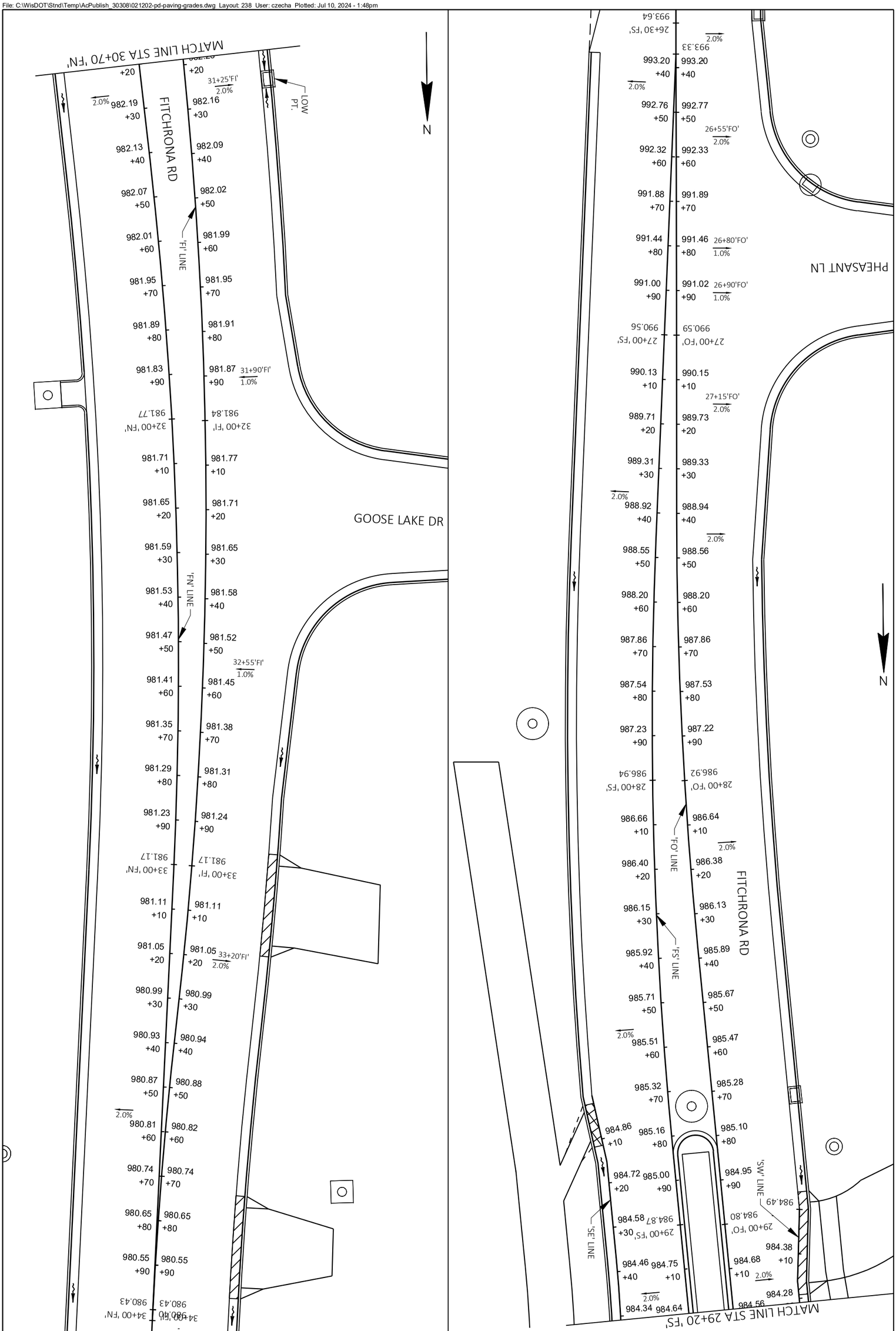
PROJECT NO.: 60703122	SCALE: 1 IN: 20 FT	PLAN DETAILS - INTERSECTIONS	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-236**	DATE: JULY 2024	FITCHRONA ROAD	
	REVISION: 100% PLANS		

File: C:\WisDOT\Stnd\Temp\AcPublish_30308\021202-pd-paving-grades.dwg Layout: 237 User: czecha Plotted: Jul 10, 2024 - 1:48pm



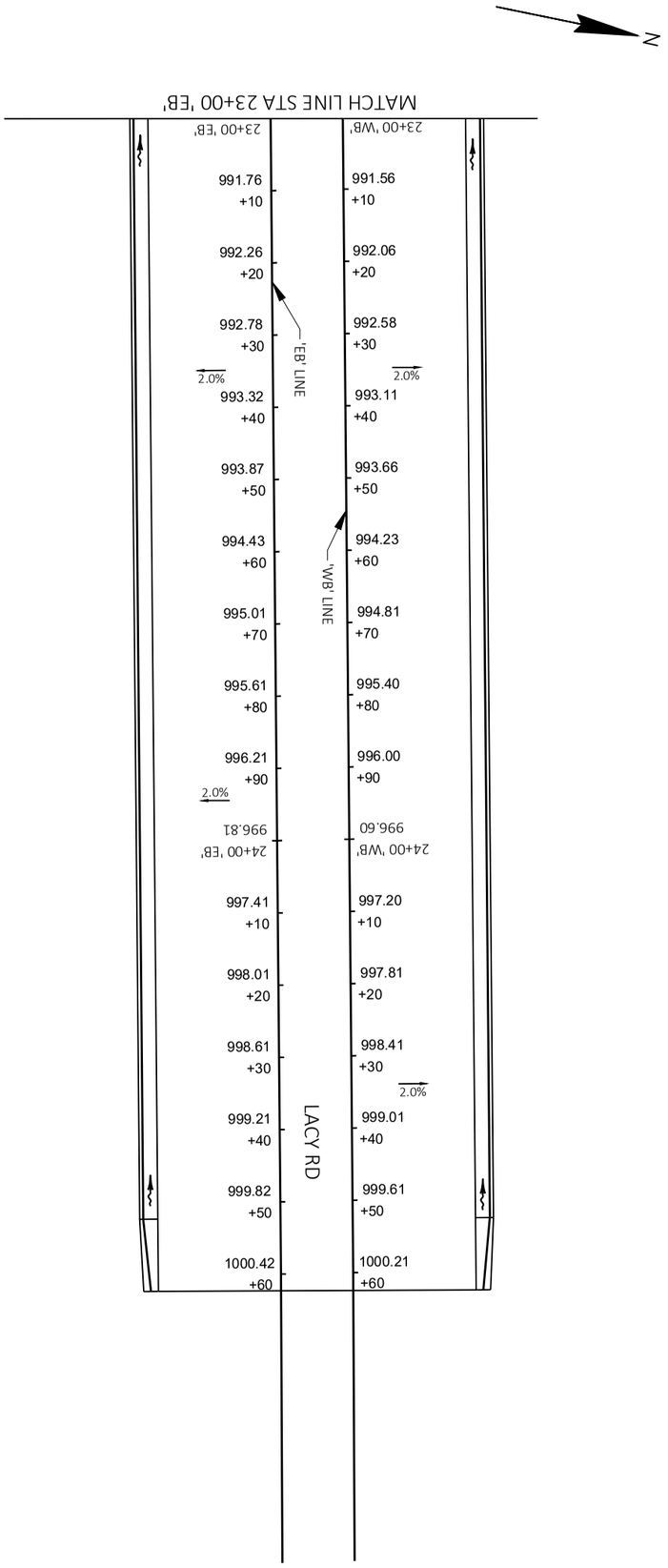
PROJECT NO.: 60703122	SCALE: 1 IN:20 FT	PLAN DETAIL: PAVING GRADES	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-237**	DATE: JULY 2024	FITCHRONA ROAD	
	REVISION: 100% PLANS		

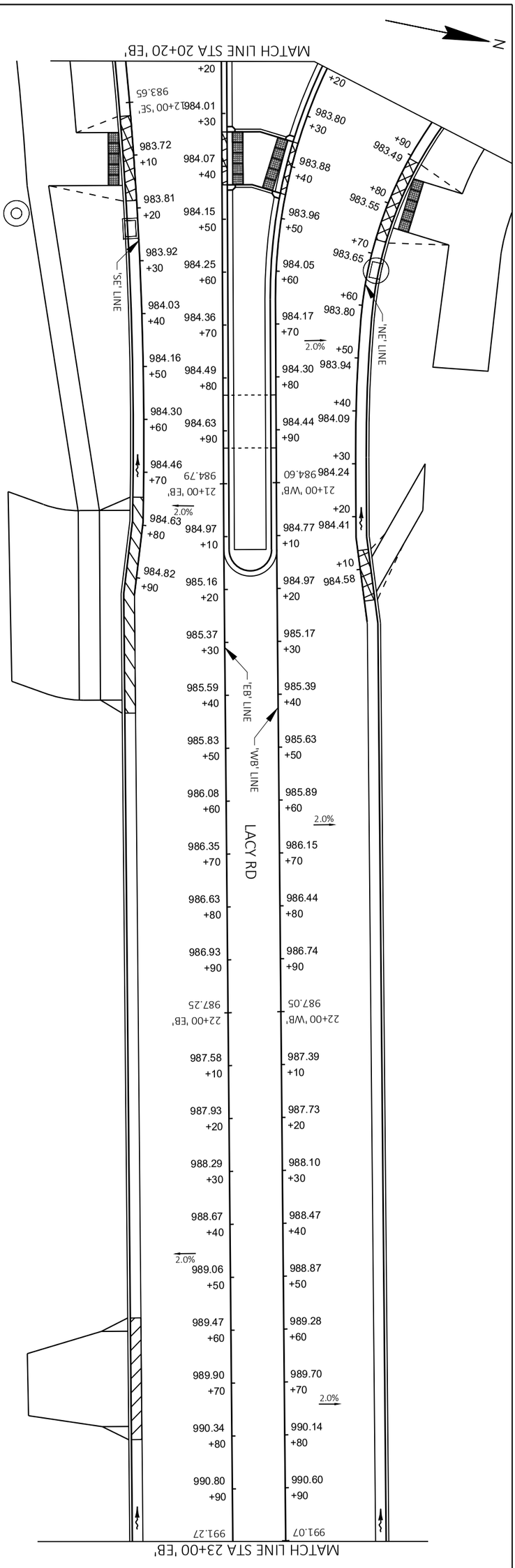
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PROJECT NO.: 60703122	SCALE: 1 IN:20 FT	PLAN DETAIL: PAVING GRADES
SHEET NO.: **C-238**	DATE: JULY 2024	FITCHRONA ROAD
	REVISION: 100% PLANS	THE CITY OF Fitchburg PUBLIC WORKS

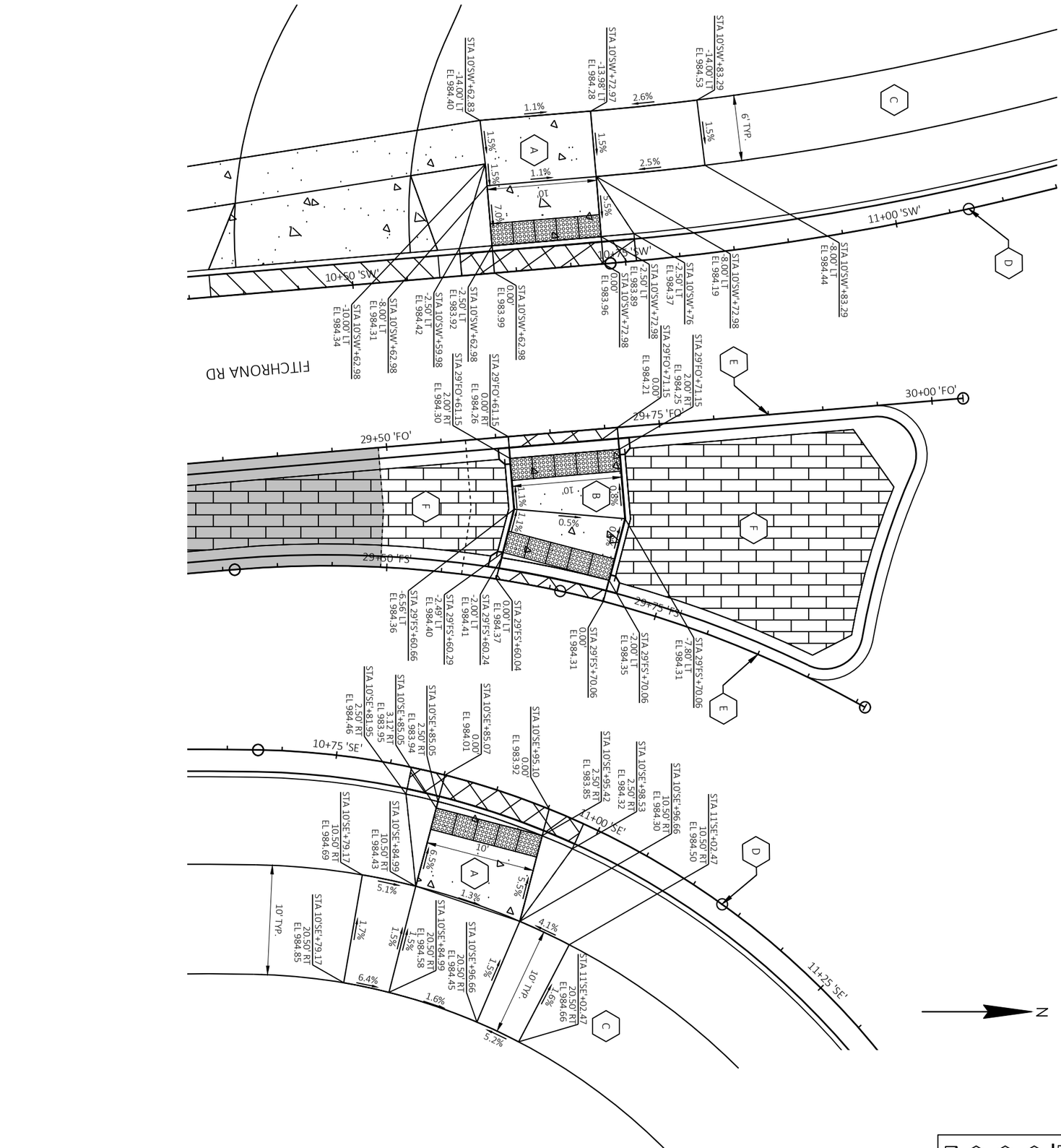
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PROJECT NO.: 60703122	SCALE: 1 IN:20 FT	PLAN DETAIL: PAVING GRADES	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-239**	DATE: JULY 2024	LACY ROAD	
	REVISION: 100% PLANS		

File: C:\WisDOT\Stnd\Temp\AcPublish_2516\021203-pd-curb-ramps.dwg Layout: 240 User: czecha Plotted: Jul 10, 2024 - 1:14pm

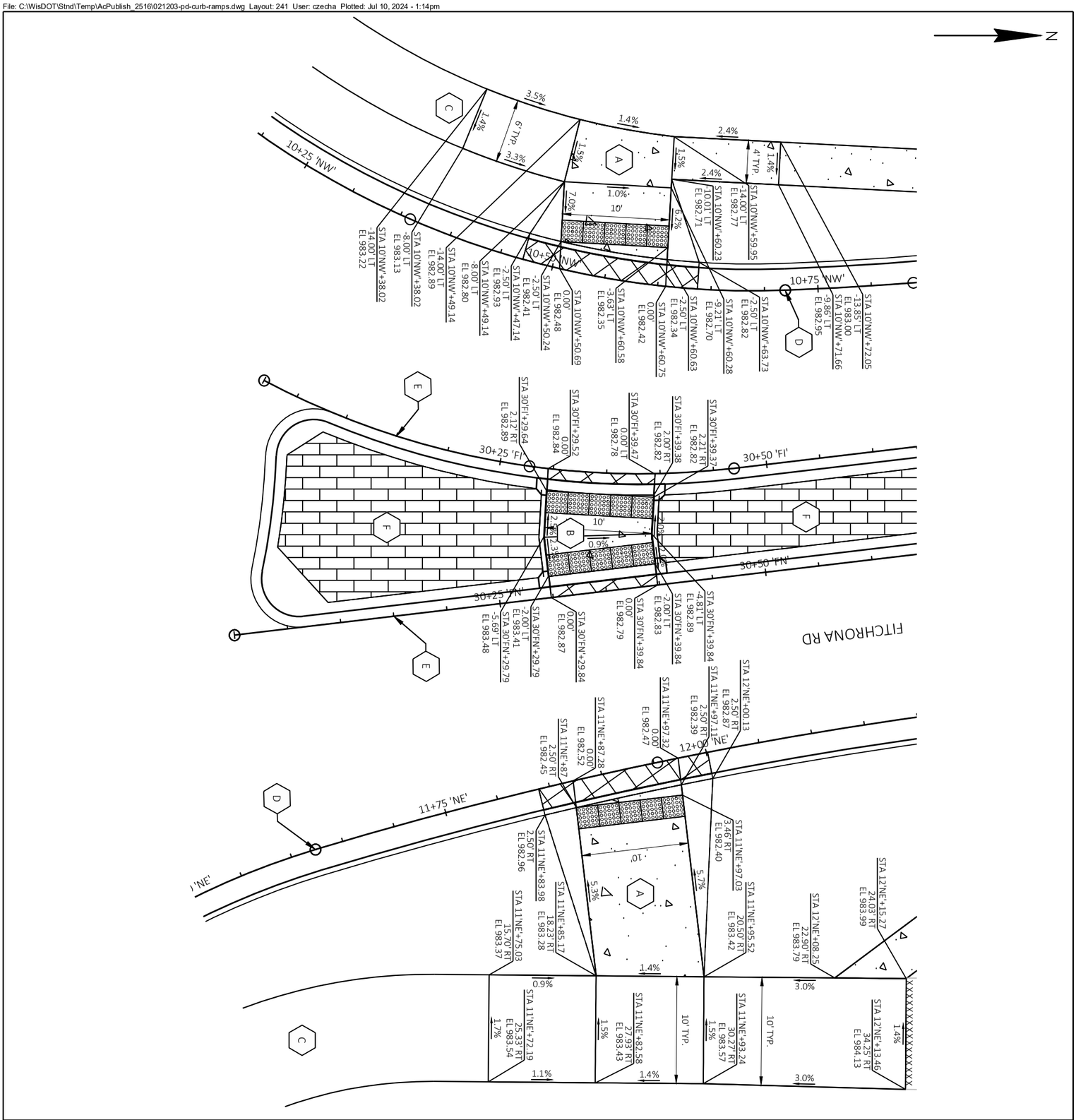


LEGEND

- A — CONCRETE SIDEWALK 7-INCH
- B — CONCRETE SIDEWALK 5-INCH
- C — POROUS ASPHALT PAVEMENT (MULTI-USE PATHWAY)
- CONCRETE SIDEWALK
- D — CONCRETE CURB & GUTTER 30-INCH TYPE D
- E — CONCRETE CURB & GUTTER 24-INCH TYPE D REJECT
- F — CONCRETE SIDEWALK 5-INCH & STAMPING COLORED CONCRETE RED BRICK
- CURB RAMP CURB

PROJECT NO.: 60703122	SCALE: 1 IN: 10 FT	PLAN DETAILS - CURB RAMPS FITCHRONA ROAD - SOUTH
SHEET NO.: **C-240**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

File: C:\WisDOT\Stnd\Temp\AcPublish_2516\021203-pd-curb-ramps.dwg Layout: 241 User: czecha Plotted: Jul 10, 2024 - 1:14pm



LEGEND

A	CONCRETE SIDEWALK 7-INCH
B	CONCRETE SIDEWALK 5-INCH
C	POROUS ASPHALT PAVEMENT (MULTI-USE PATHWAY)
	CONCRETE SIDEWALK
D	CONCRETE CURB & GUTTER 30-INCH TYPE D
E	CONCRETE CURB & GUTTER 24-INCH TYPE D REJECT
F	CONCRETE SIDEWALK 5-INCH & STAMPING COLORED CONCRETE RED BRICK
	CURB RAMP CURB

PROJECT NO.: 60703122	SCALE: 1 IN: 10 FT	PLAN DETAILS - CURB RAMPS FITCHRONA ROAD - NORTH
SHEET NO.: **C-241**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

N

LEGEND

- A — CONCRETE SIDEWALK 7-INCH
- B — CONCRETE SIDEWALK 5-INCH
- C — POROUS ASPHALT PAVEMENT (MULTI-USE PATHWAY)
- CONCRETE SIDEWALK
- D — CONCRETE CURB & GUTTER 30-INCH TYPE D
- E — CONCRETE CURB & GUTTER 24-INCH TYPE D REJECT
- F — CONCRETE SIDEWALK 5-INCH & STAMPING COLORED CONCRETE RED BRICK
- CURB RAMP CURB

STA 10'NE'+90.03
21.89' RT
EL 984.12

STA 10'NE'+78.74
23.34' RT
EL 984.24

STA 10'NE'+48.84
24.64' RT
EL 985.57

STA 10'NE'+88.17
12.00' RT
EL 983.97

STA 10'NE'+88.17
12.00' RT
EL 983.97

STA 10'NE'+86.26
2.50' RT
EL 983.44

STA 10'NE'+76.24
13.52' RT
EL 984.13

STA 10'NE'+49.05
14.19' RT
EL 985.34

STA 10'NE'+89.36
2.50' RT
EL 983.91

STA 10'NE'+75.89
3.48' RT
EL 983.52

STA 10'NE'+85.84
0.00'
EL 983.51

STA 10'NE'+75.91
2.50' RT
EL 983.50

STA 10'NE'+75.78
0.00'
EL 983.57

STA 10'NE'+72.75
2.50' RT
EL 984.03

STA 10'NE'+29.95
13.12' RT
EL 985.50

STA 10'NE'+21.13
12.64' RT
EL 985.60

STA 10'NE'+13.63
8.71' RT
EL 984.99

STA 10'NE'+16.73
5.48' RT
EL 984.90

STA 10'NE'+03.93
2.50' RT
EL 985.11

STA 10'NE'+13.56
2.50' RT
EL 984.94

STA 10'NE'+12.06
2.50' RT
EL 984.49

STA 10'NE'+12.06
0.00'
EL 984.55

STA 10'NE'+05.43
2.50' RT
EL 984.60

STA 10'NE'+05.43
0.00'
EL 984.66

STA 20'EB'+35.13
-12.52' LT
EL 983.88

STA 20'EB'+33.48
-7.25' LT
EL 983.98

STA 20'WB'+35.44
0.00'
EL 983.84

STA 20'WB'+45.45
0.00'
EL 983.92

STA 20'WB'+45.25
2.00' RT
EL 983.96

STA 20'WB'+45.20
2.50' RT
EL 983.97

STA 20'EB'+33.48
-2.00' LT
EL 984.07

STA 20'EB'+33.48
0.00'
EL 984.03

STA 20'EB'+43.48
0.00'
EL 984.10

STA 20'EB'+43.48
-2.00' LT
EL 984.14

STA 20'EB'+43.48
-5.72' LT
EL 984.06

LACY RD

STA 12'SE'+18.56
2.50' RT
EL 984.22

STA 12'SE'+15.70
0.00'
EL 983.77

STA 12'SE'+05.68
0.00'
EL 983.69

STA 12'SE'+02.49
2.50' RT
EL 984.09

STA 12'SE'+15.55
2.50' RT
EL 983.70

STA 12'SE'+05.50
2.50' RT
EL 983.62

STA 12'SE'+15.52
3.16' RT
EL 983.71

STA 12'SE'+04.91
10.50' RT
EL 984.06

STA 11'SE'+94.77
10.50' RT
EL 984.17

STA 12'SE'+15.03
11.17' RT
EL 984.21

STA 12'SE'+14.71
16.46' RT
EL 984.29

STA 12'SE'+24.26
15.56' RT
EL 984.62

STA 12'SE'+04.91
20.50' RT
EL 984.21

STA 11'SE'+94.77
20.50' RT
EL 984.34

STA 12'SE'+14.45
20.50' RT
EL 984.35

STA 12'SE'+24.68
19.54' RT
EL 984.70

THE CITY OF Fitchburg PUBLIC WORKS

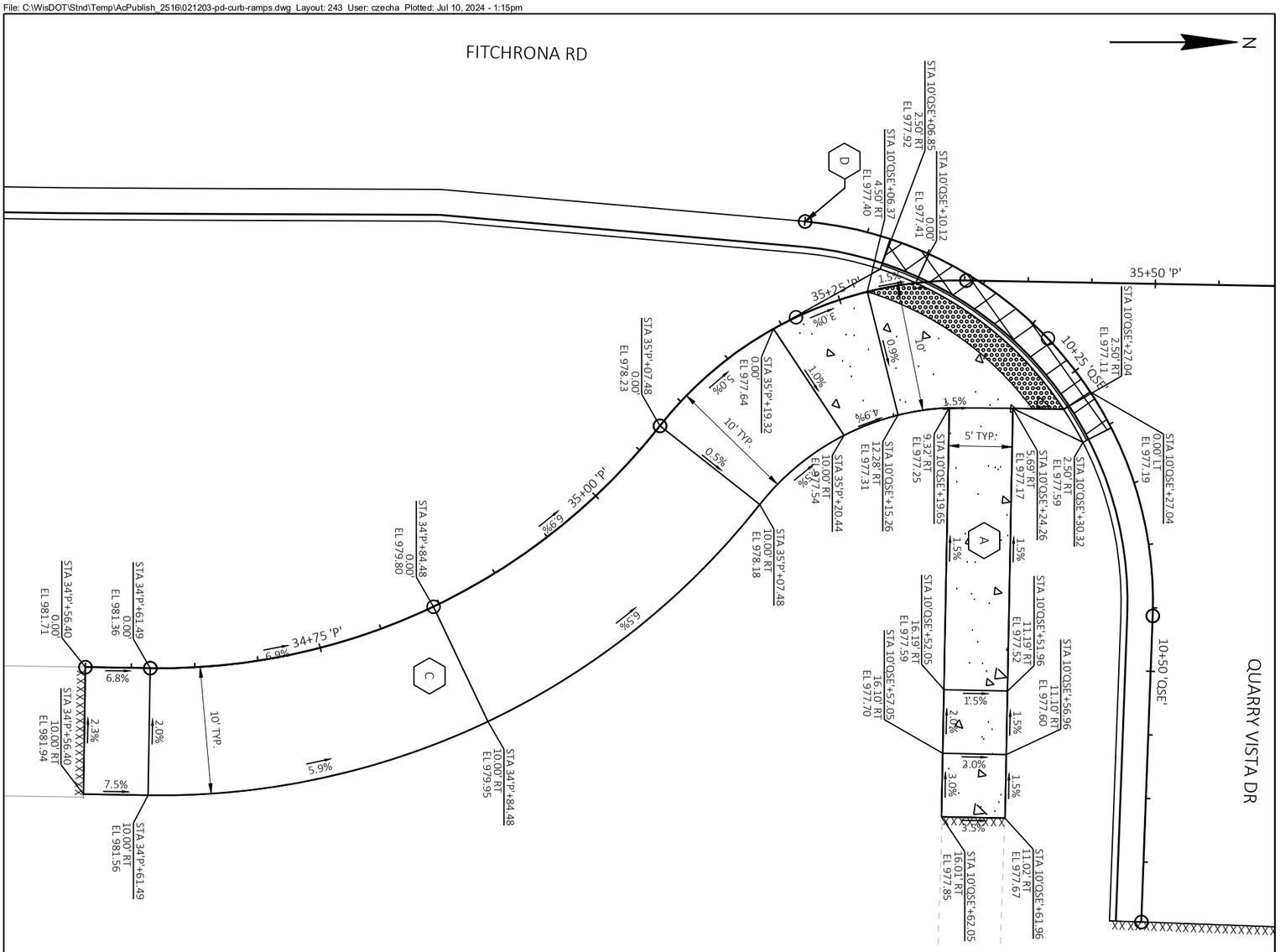
PLAN DETAILS - CURB RAMPS

LACY ROAD

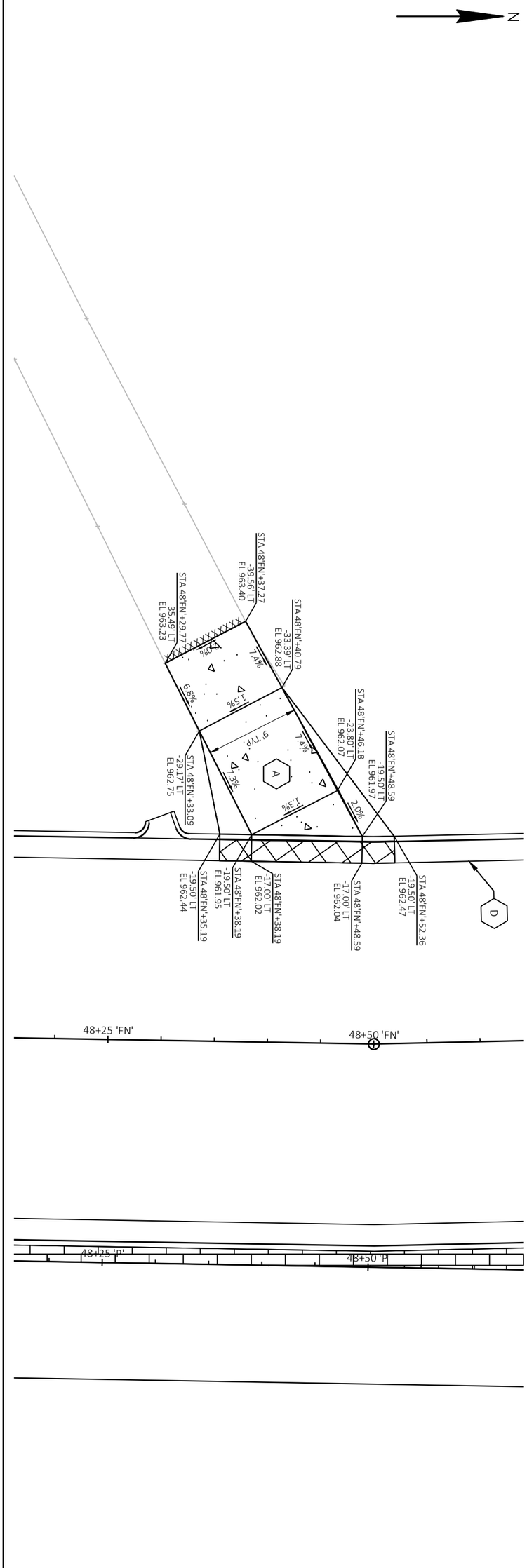
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DATE:	JULY 2024
REVISION:	100% PLANS
PROJECT NO.:	60703122
SHEET NO.:	C-242

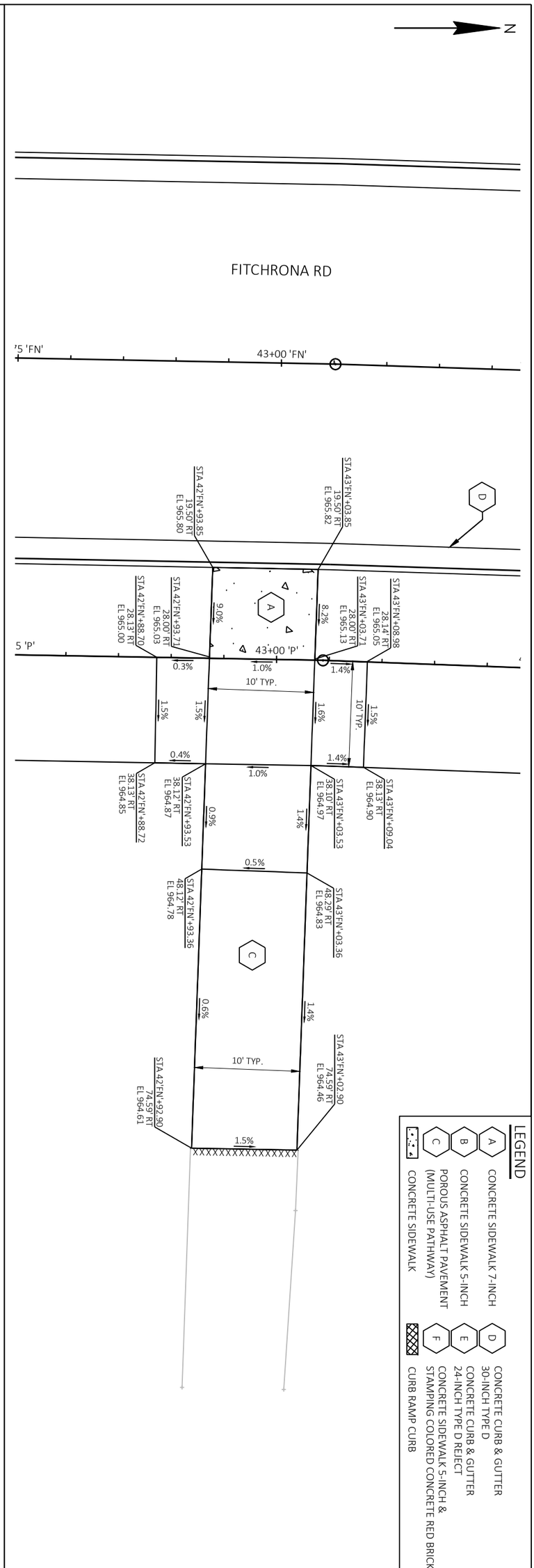
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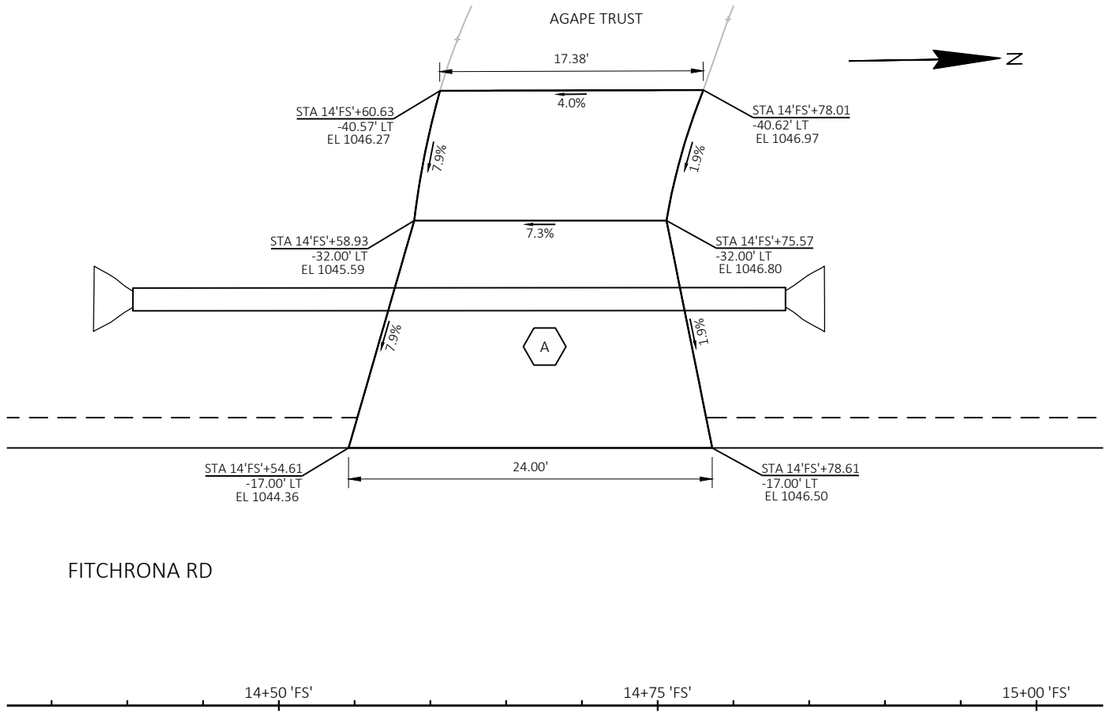


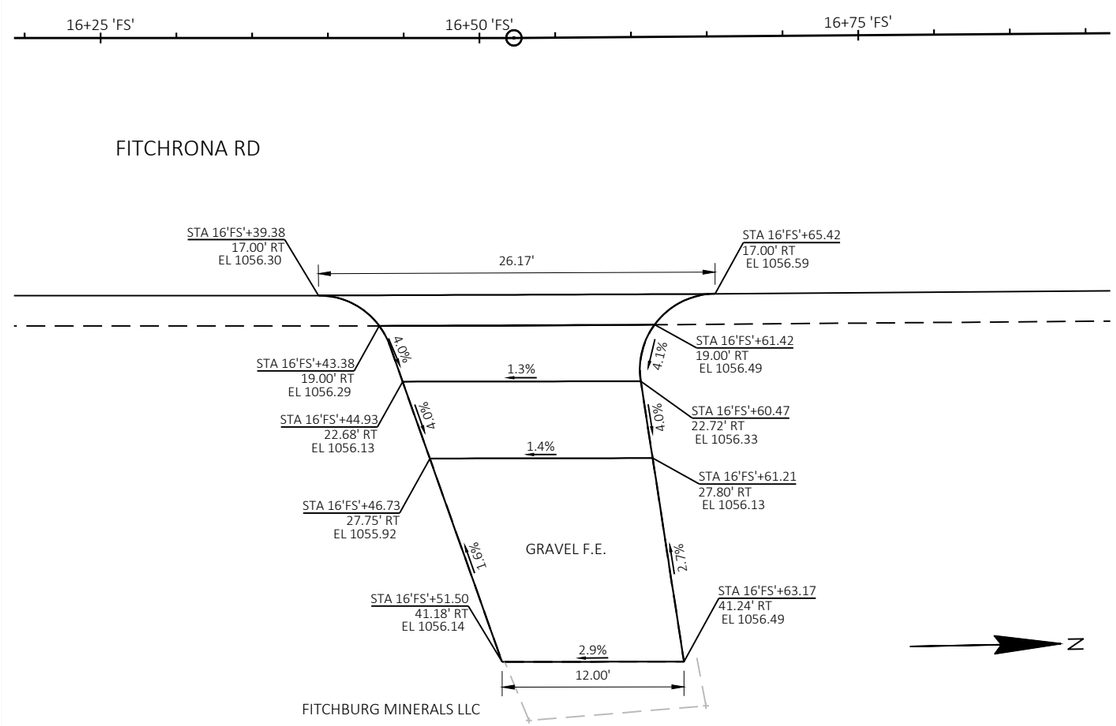
PROJECT NO.: 60703122	SCALE: 1 IN: 10 FT	PLAN DETAILS - CURB RAMPS QUARRY VISTA DRIVE
SHEET NO.: **C-243**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

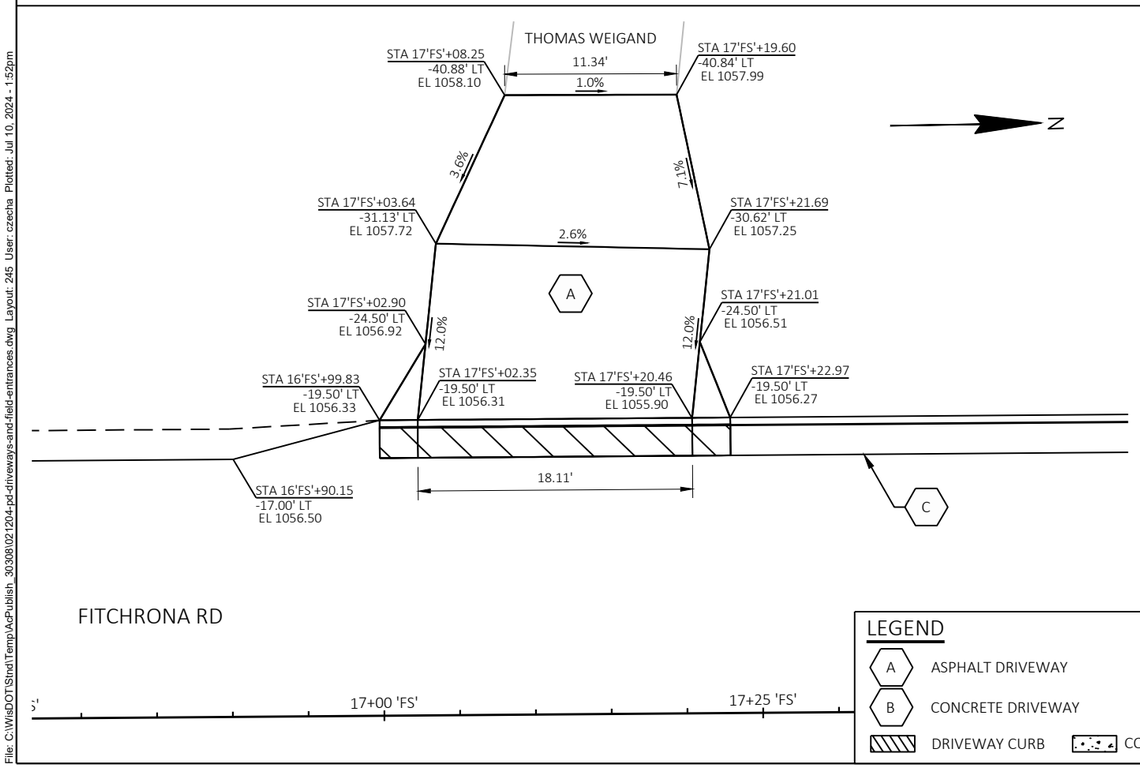


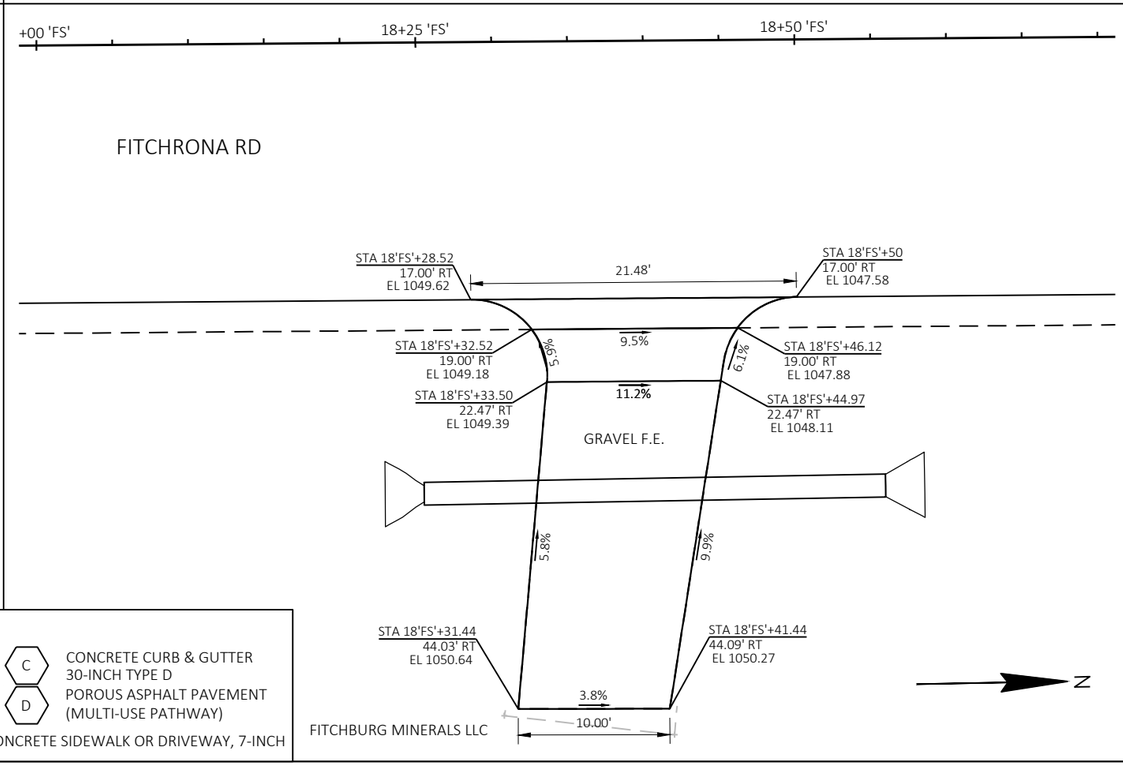


PROJECT NO.: 60703122	SCALE: 1 IN: 10 FT	PLAN DETAILS - CURB RAMPS QUARRY RIDGE MOUNTAIN BIKE TRAIL AND MILITARY RIDGE STATE TRAIL
SHEET NO.: **C-244**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	









LEGEND

A	ASPHALT DRIVEWAY	C	CONCRETE CURB & GUTTER 30-INCH TYPE D
B	CONCRETE DRIVEWAY	D	POROUS ASPHALT PAVEMENT (MULTI-USE PATHWAY)
	DRIVEWAY CURB		CONCRETE SIDEWALK OR DRIVEWAY, 7-INCH

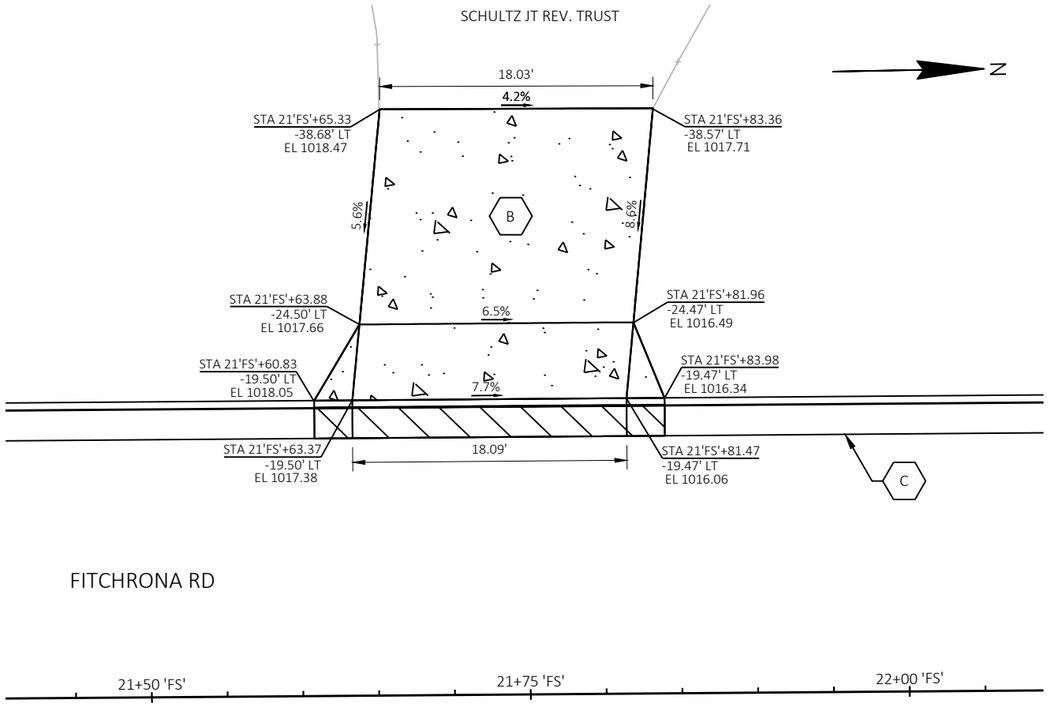
THE CITY OF Fitchburg PUBLIC WORKS

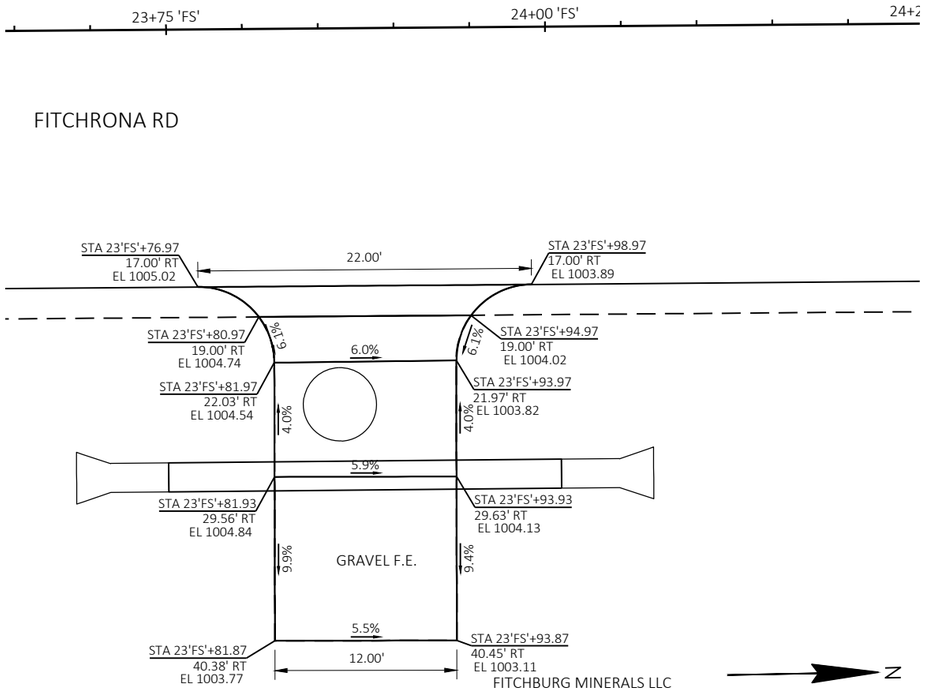
PLAN DETAILS - DRIVEWAYS

FITCHRONA ROAD

SCALE:	1 IN. 10 FT
DATE:	JULY 2024
REVISION:	100% PLANS
PROJECT NO.:	60703122
SHEET NO.:	C-245

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LEGEND

- A — ASPHALT DRIVEWAY
- B — CONCRETE DRIVEWAY
- C — CONCRETE CURB & GUTTER 30-INCH TYPE D
- D — POROUS ASPHALT PAVEMENT (MULTI-USE PATHWAY)
- DRIVEWAY CURB
- CONCRETE SIDEWALK OR DRIVEWAY, 7-INCH

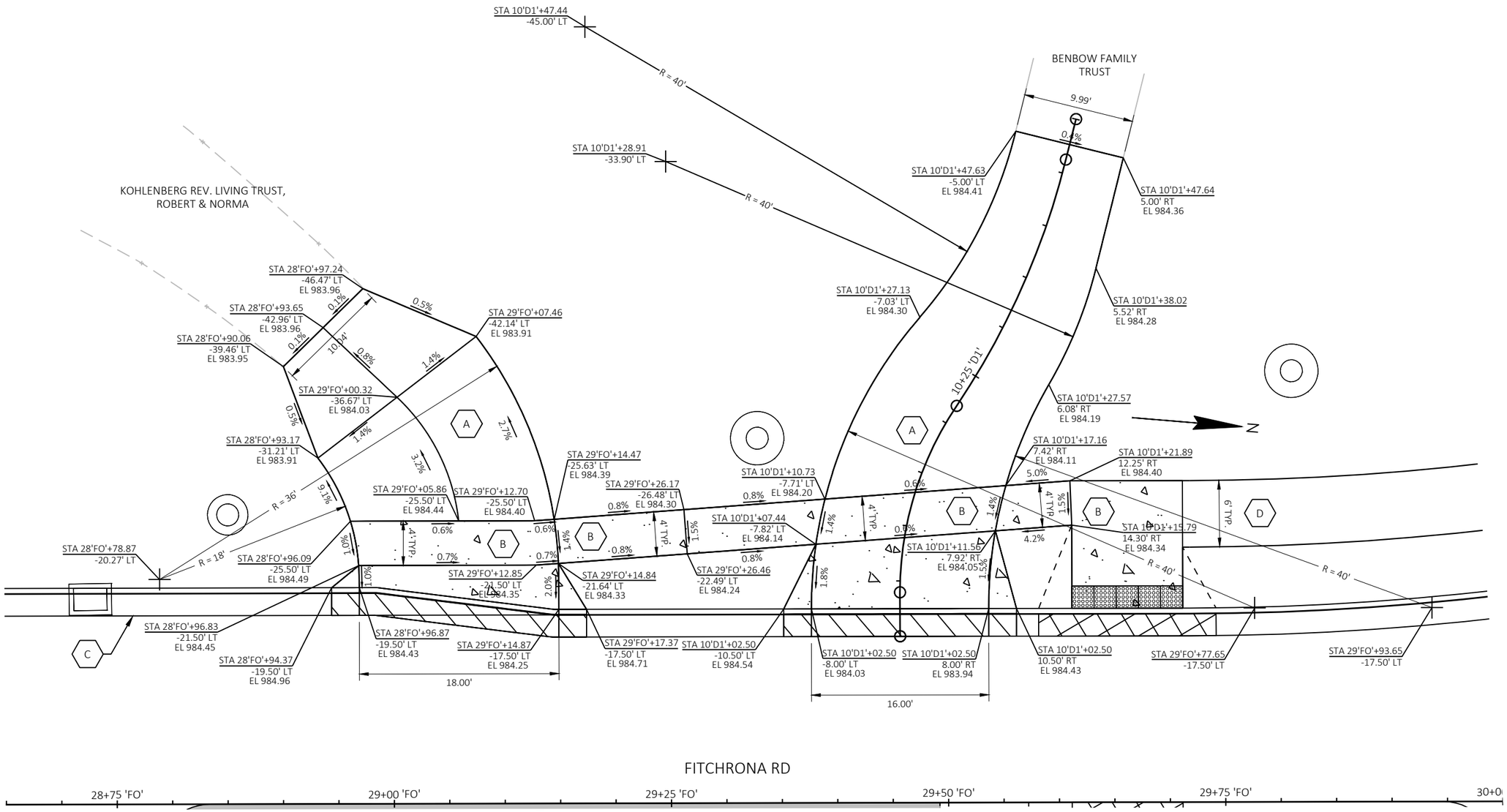
THE CITY OF Fitchburg PUBLIC WORKS

PLAN DETAILS - DRIVEWAYS

FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE: 1 IN: 10 FT
SHEET NO.: C-246	DATE: JULY 2024
	REVISION: 100% PLANS

File: C:\WisDOT\Sndt\Temp\AcPublish_30308\02\204-pd-driveways-and-field-entrances.dwg Layout: 246 User: czecha Plotted: Jul 10, 2024 - 1:53pm



PLAN DETAILS - DRIVEWAYS

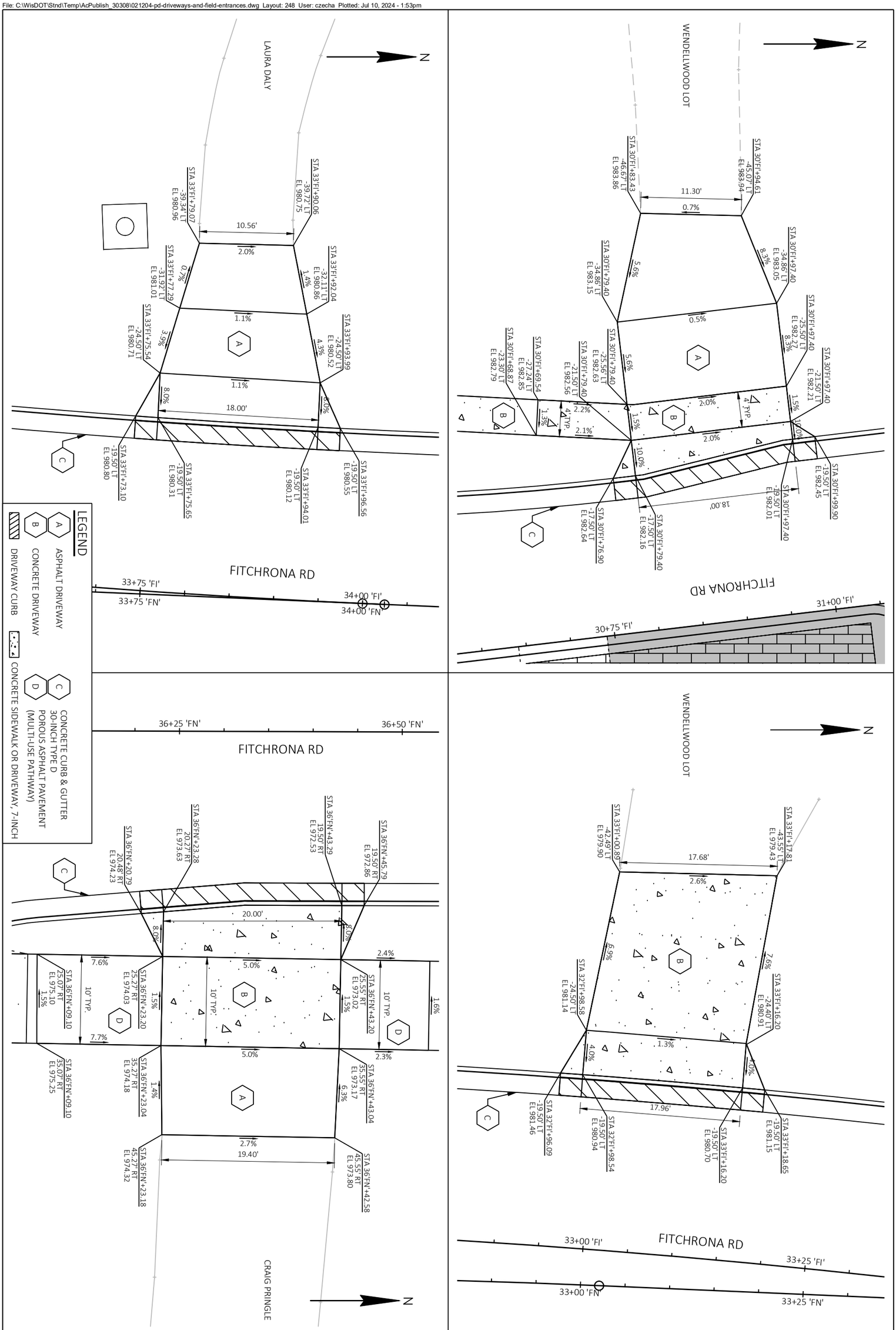
FITCHRONA ROAD

THE CITY OF Fitchburg PUBLIC WORKS

SCALE:	1 IN: 10 FT
DATE:	JULY 2024
REVISION:	100% PLANS
PROJECT NO.:	60703122
SHEET NO.:	C-247

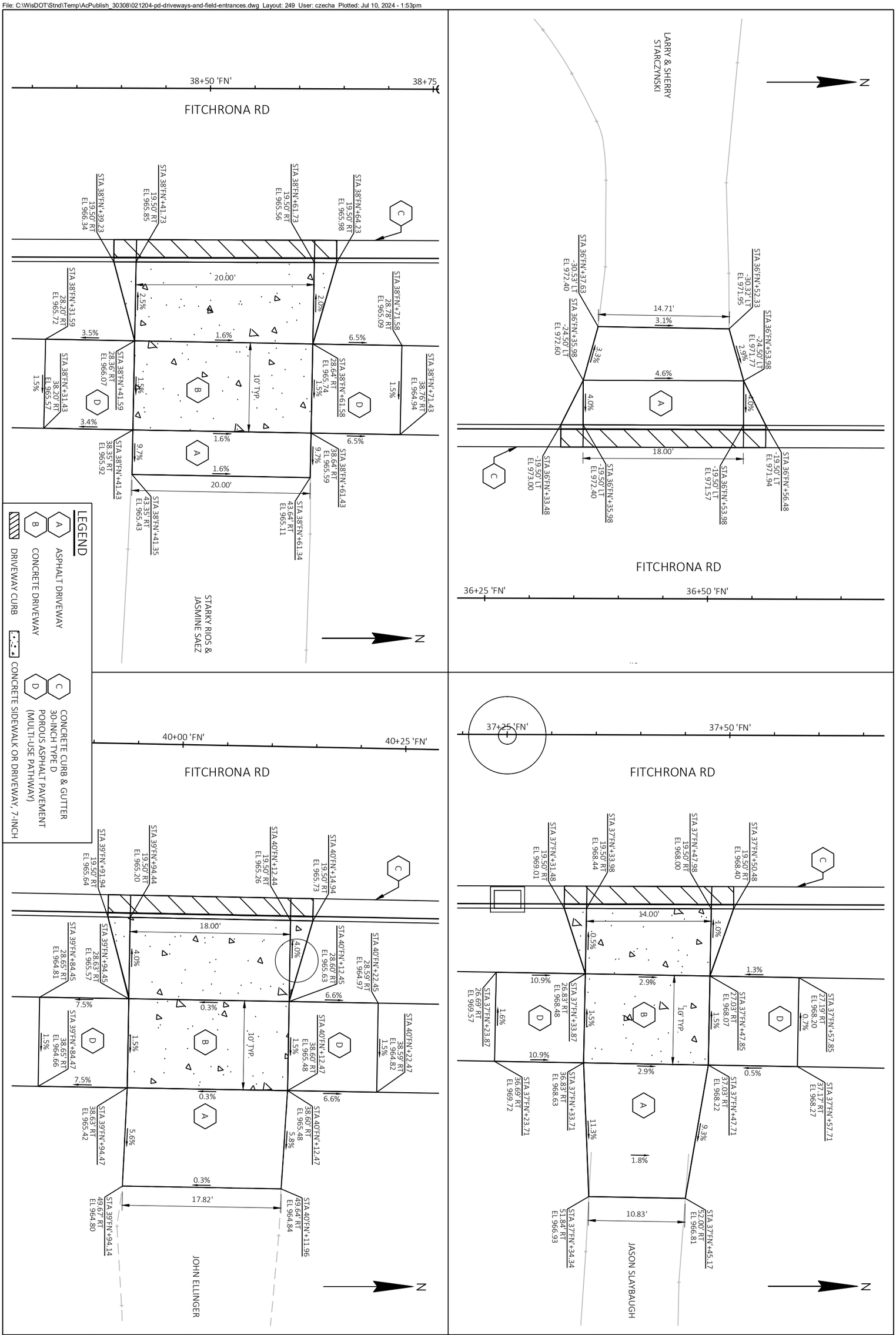
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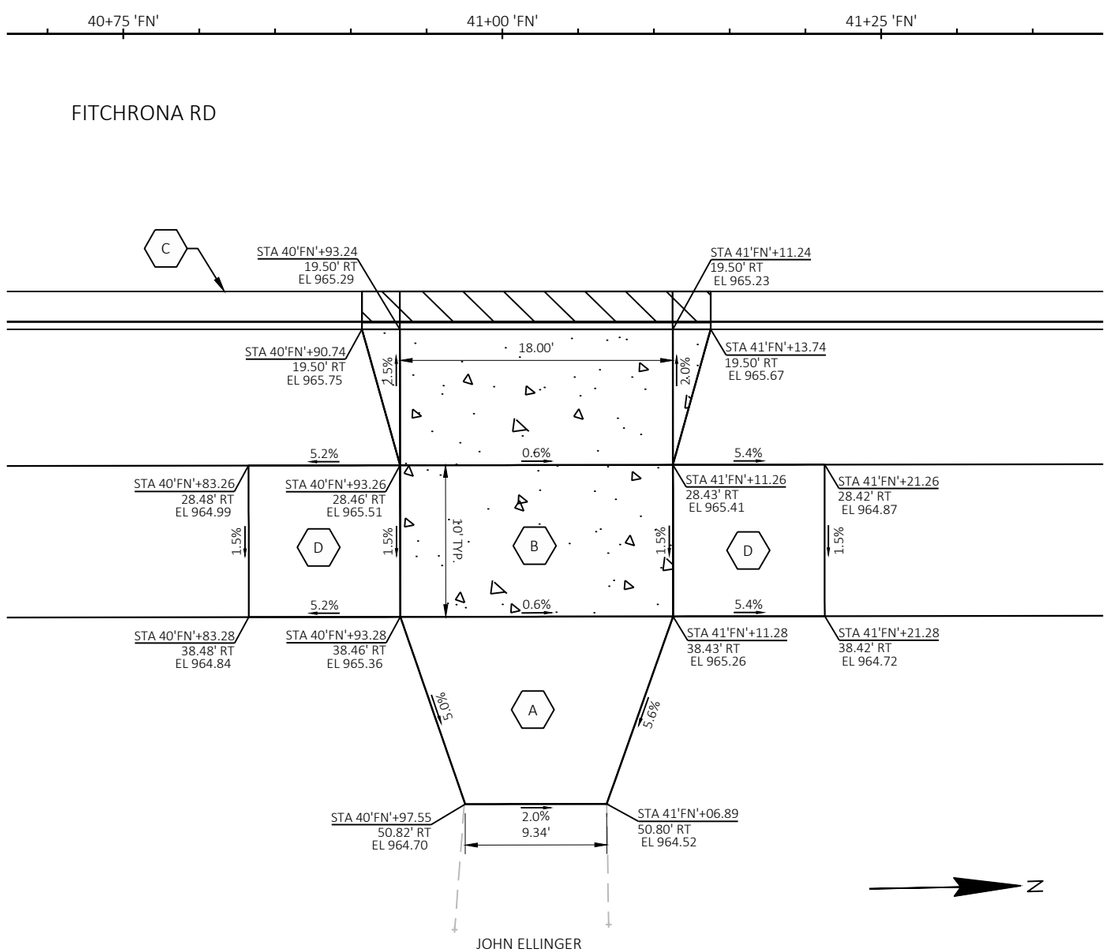


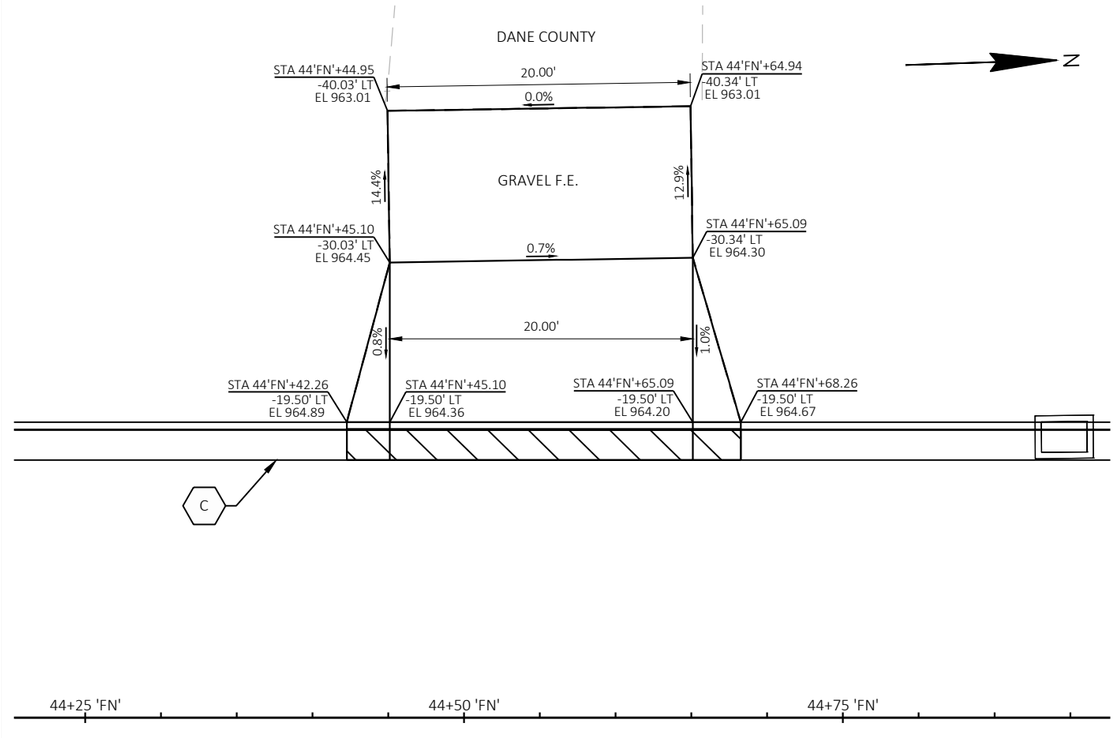
PROJECT NO.: 60703122	SCALE: 1 IN: 10 FT	# PLAN DETAILS - DRIVEWAYS
SHEET NO.: **C-248**	DATE: JULY 2024	FITCHRONA ROAD
	REVISION: 100% PLANS	THE CITY OF Fitchburg PUBLIC WORKS

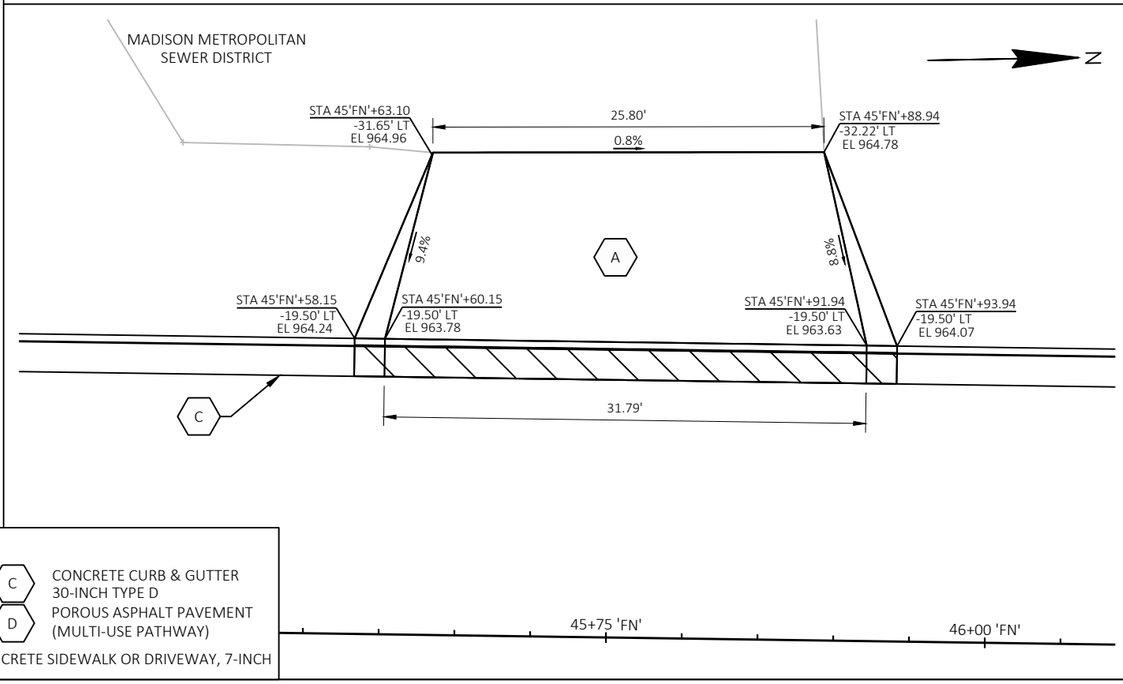
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PROJECT NO.: 60703122	SCALE: 1 IN: 10 FT	PLAN DETAILS - DRIVEWAYS
SHEET NO.: **C-249**	DATE: JULY 2024	FITCHRONA ROAD
	REVISION: 100% PLANS	THE CITY OF Fitchburg PUBLIC WORKS







LEGEND

A	ASPHALT DRIVEWAY	C	CONCRETE CURB & GUTTER 30-INCH TYPE D
B	CONCRETE DRIVEWAY	D	POROUS ASPHALT PAVEMENT (MULTI-USE PATHWAY)
	DRIVEWAY CURB		CONCRETE SIDEWALK OR DRIVEWAY, 7-INCH

THE CITY OF Fitchburg PUBLIC WORKS

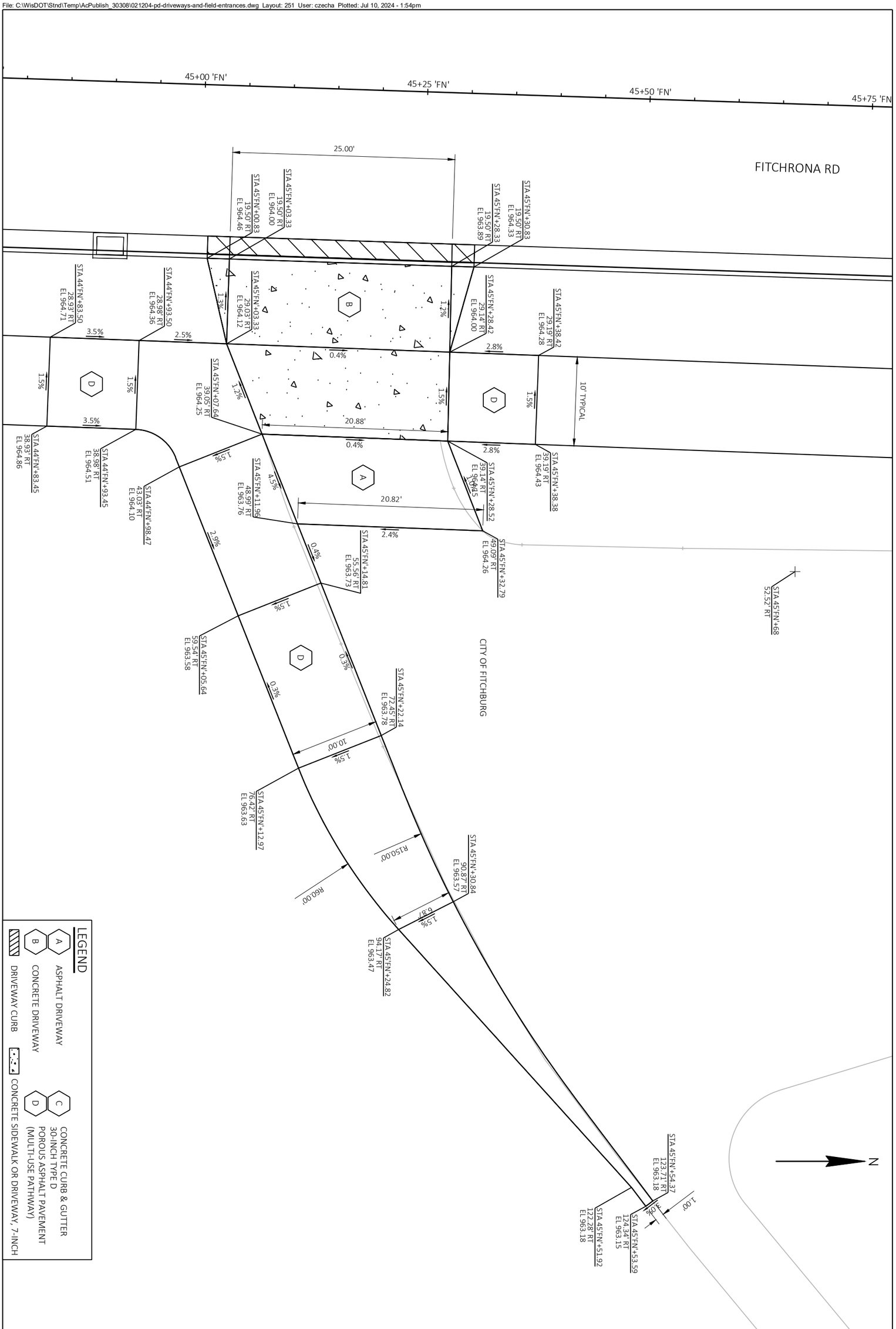
PLAN DETAILS - DRIVEWAYS

FITCHRONA ROAD

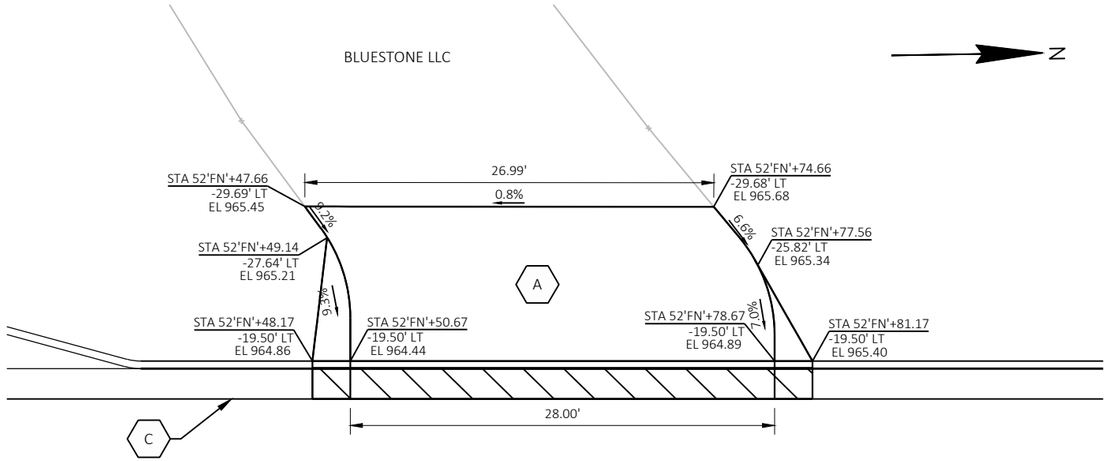
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DATE:	JULY 2024
REVISION:	100% PLANS
PROJECT NO.:	60703122
SHEET NO.:	C-250

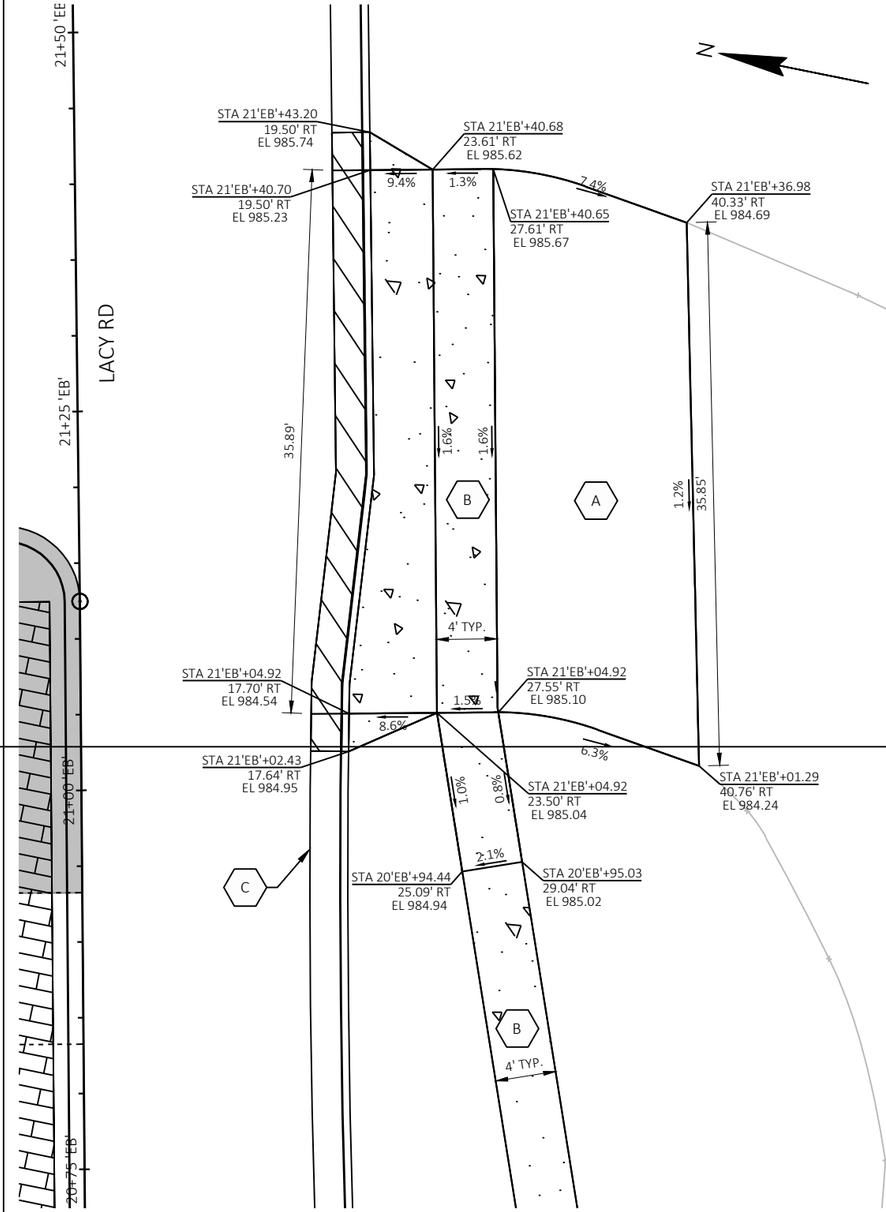
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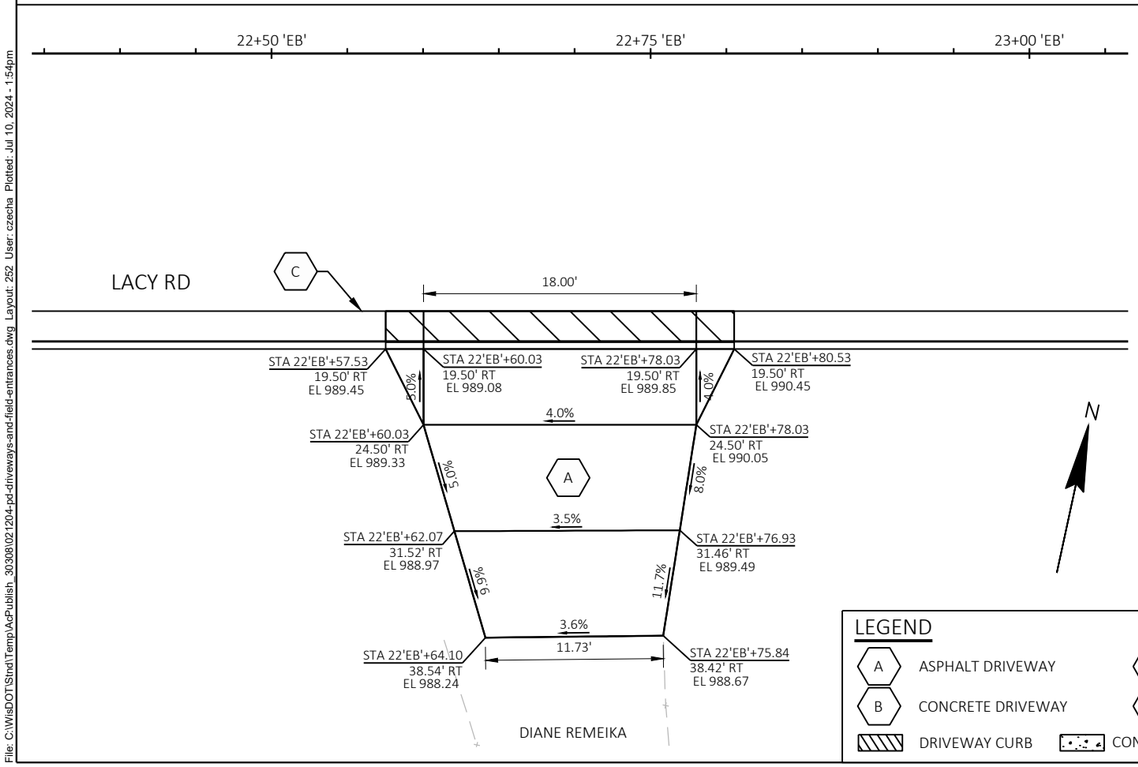
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PROJECT NO.: 60703122	SCALE: 1 IN: 10 FT	PLAN DETAILS - DRIVEWAYS	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-251**	DATE: JULY 2024	FITCHRONA ROAD	
	REVISION: 100% PLANS		







LEGEND

A	ASPHALT DRIVEWAY	C	CONCRETE CURB & GUTTER 30-INCH TYPE D
B	CONCRETE DRIVEWAY	D	POROUS ASPHALT PAVEMENT (MULTI-USE PATHWAY)
	DRIVEWAY CURB		CONCRETE SIDEWALK OR DRIVEWAY, 7-INCH

THE CITY OF Fitchburg PUBLIC WORKS

PLAN DETAILS - DRIVEWAYS

FITCHRONA ROAD AND LACY ROAD

PROJECT NO.: 60703122	SHEET NO.: C-252	SCALE: 1 IN: 10 FT	DATE: JULY 2024
		REVISION: 100% PLANS	

File: C:\WisDOTStnd\Temp\AcPublish_30308\021204-pd-driveways-and-field-entrances.dwg Layout: 252 User: czecha Plotted: Jul 10, 2024 - 1:54pm

FROSTWOOD FARM VI LLC

TONTO TRAIL

LOUIS HOFFMAN ESTATES

AGAPE TRUST

N

END CONSTRUCTION
STA. 9+45.00 'T'
MATCH EXISTING
SAW CUT REQ'D

REMOVE EXISTING CMP
CULVERT

TLE

E.X. RW

BEGIN PROJECT
STA. 10+65.00'FS'
MATCH EXISTING
SAW CUT REQ'D

ONA ROAD

11+00 'FS'

12+00 'FS'

13+00 'FS'

FITCHRONA RD

14+00 'FS'

FITCHRONA ROAD

15+00 'FS'

MATCH LINE STA 15+25 'FS'

E.X. RW

TLE

E.X. UTILITY EASEMENT

FITCHBURG MINERALS LLC

REMOVALS LEGEND

- REMOVING ASPHALTIC SURFACE (PAID FOR AS EXCAVATION COMMON)
- REMOVING FENCE
- CLEARING
- SLOPE INTERCEPTS
- SAWCUT
- TREE REMOVAL

AGAPE TRUST

MICHAEL & BRENDA PITTERLE

N

THOMAS WEIGAND

TLE

E.X. RW

MATCH LINE STA 15+25 'FS'

16+00 'FS'

17+00 'FS'

18+00 'FS'

FITCHRONA RD

19+00 'FS'

20+00 'FS'

MATCH LINE STA 20+50 'FS'

E.X. RW

TLE

E.X. UTILITY EASEMENT

REMOVE EXISTING CMP
CULVERT

FITCHBURG MINERALS LLC

THE CITY OF Fitchburg PUBLIC WORKS

REMOVALS
FITCHRONA ROAD

PROJECT NO.: 60703122

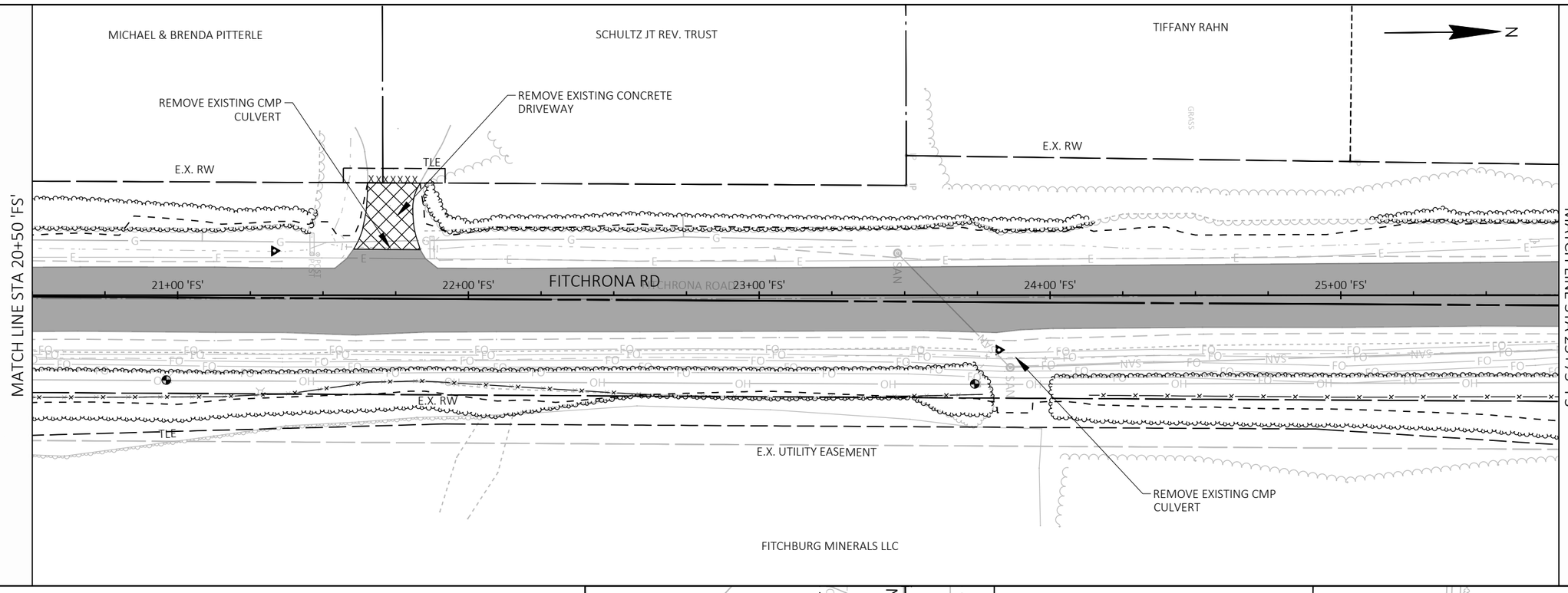
SHEET NO.: C-253

SCALE: 1 IN:40 FT

DATE: JULY 2024

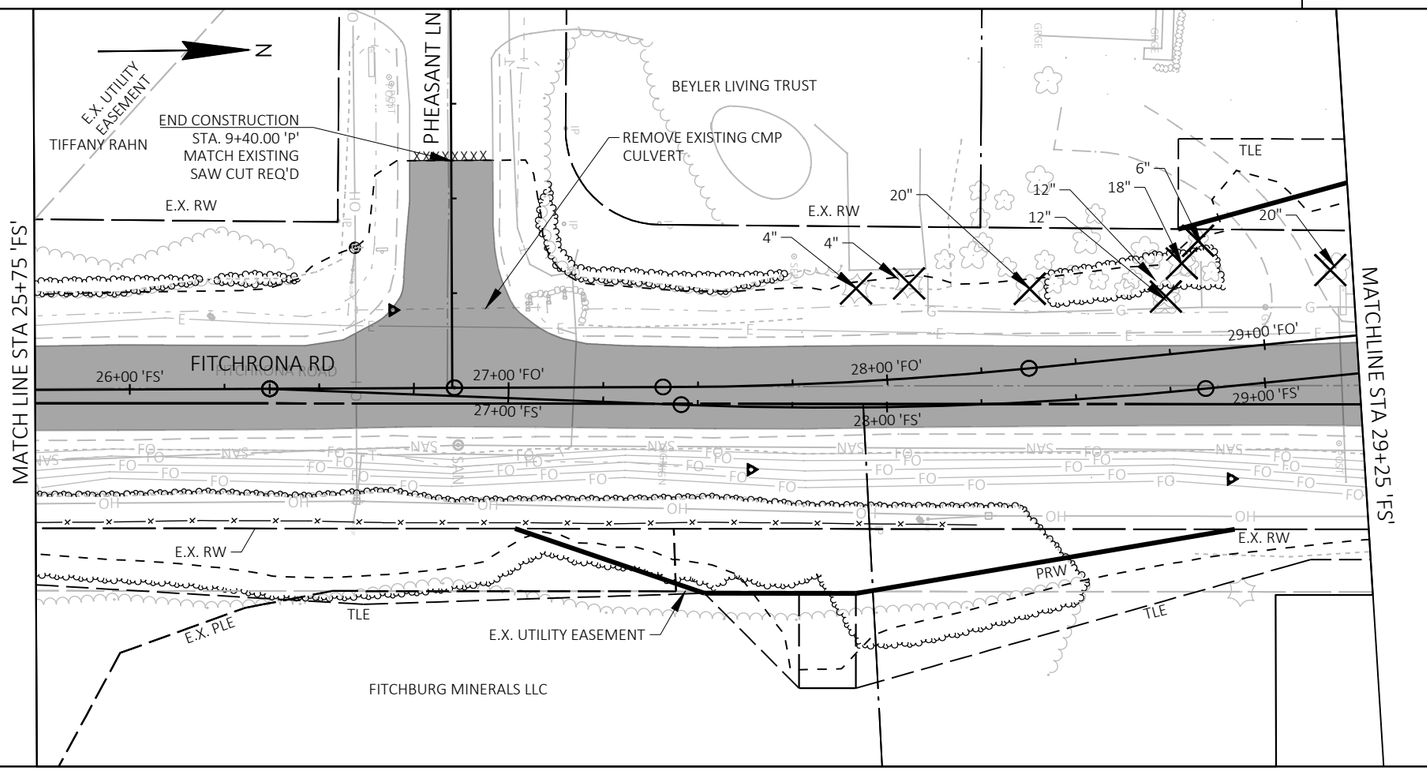
REVISION: 100% PLANS

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\Sheets\Plan\021501-rm.dwg Layout: 050201-pn User: czecha Plotted: Jul 11, 2024 - 12:44pm



REMOVALS LEGEND

- REMOVING ASPHALTIC SURFACE (PAID FOR AS EXCAVATION COMMON)
- REMOVING FENCE
- CLEARING
- SLOPE INTERCEPTS
- XXXXXXXX SAWCUT
- TREE REMOVAL

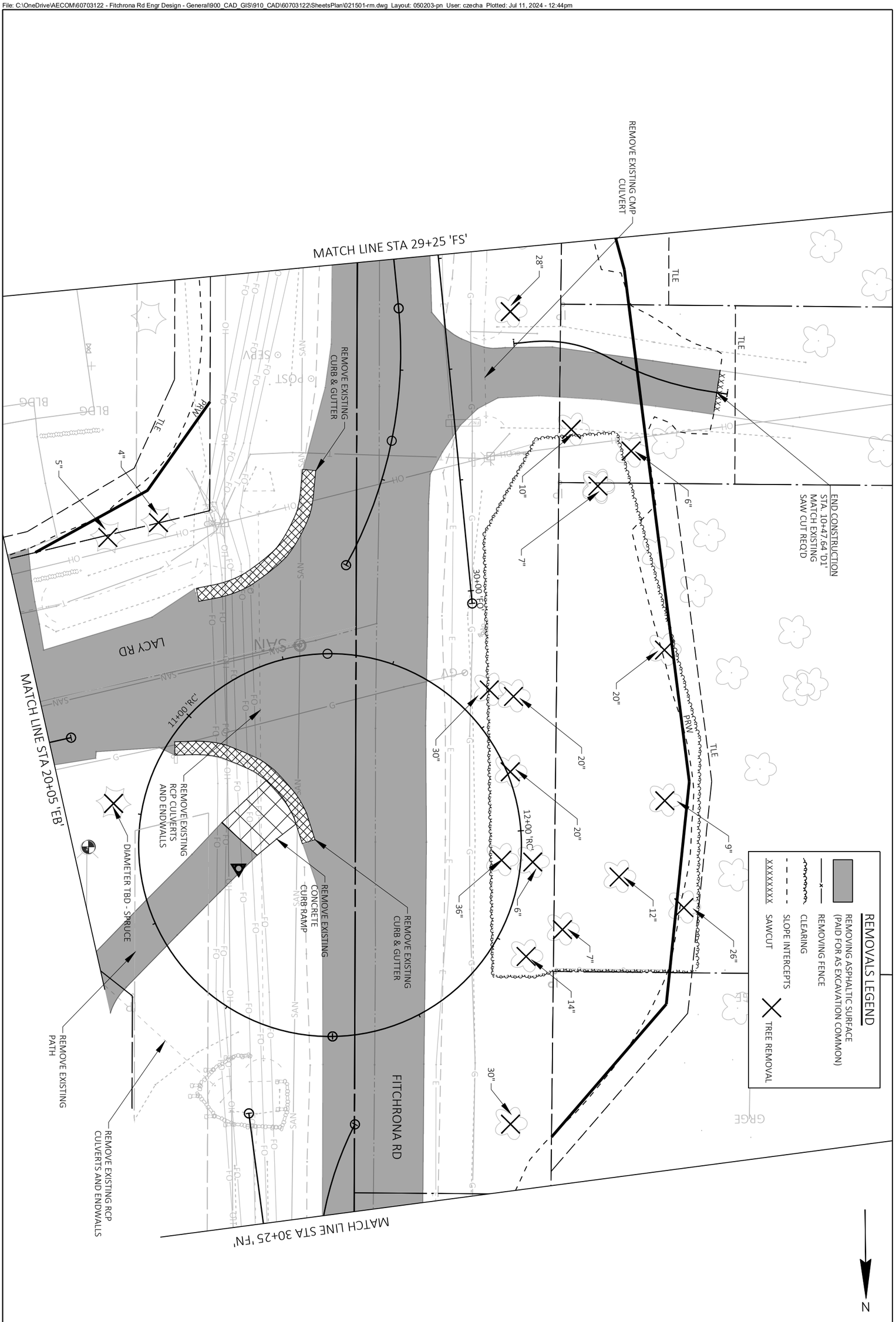


REMOVALS
FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE: 1 IN:40 FT
SHEET NO.: C-254	DATE: JULY 2024
	REVISION: 100% PLANS

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PROJECT NO.: 60703122	SCALE: 1 IN:20 FT	REMOVALS ROUNDABOUT	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-255**	DATE: JULY 2024		
	REVISION: 100% PLANS		

REMOVALS LEGEND

- REMOVING ASPHALTIC SURFACE (PAID FOR AS EXCAVATION COMMON)
- REMOVING FENCE
- CLEARING
- SLOPE INTERCEPTS
- XXXXXXXX SAWCUT
- TREE REMOVAL

END CONSTRUCTION
STA. 9+25.00 'G'
MATCH EXISTING
SAW CUT REQ'D

WENDELLWOOD LOT

E.X. RW

TLE

GOOSE LAKE DR

4"

10"

8"

18"

PLE

WENDELLWOOD LOT

REMOVE EXISTING
CONCRETE DRIVEWAY

LAURA DALY

N

MATCHLINE STA 30+25 'FN'

31+00 'FI'

31+00 'FN'

32+00 'FI'

32+00 'FN'

33+00 'FI'

33+00 'FN'

34+00 'FI'

34+00 'FN'

FITCHRONA ROAD

FITCHRONA RD

MATCH LINE STA 35+00 'FN'

REMOVE EXISTING 42"
CMP CULVERT
AND ENDWALLS

REMOVE AND REPLACE
EXISTING 12" RCP CULVERT
AND ENDWALLS

E.X. RW

CITY OF FITCHBURG

P.L.

REMOVE EXISTING PATH

E.X. UTILITY EASEMENT

FRED-ELAN LLC

REMOVE EXISTING PATH

MATCH LINE STA 35+00 'FN'

E.X. RW

TLE

36+00 'FN'

37+00 'FN'

38+00 'FN'

39+00 'FN'

40+00 'FN'

REMOVE EXISTING
CURB & GUTTER

REMOVE
EXISTING
ENDWALL

P.L.

TLE

REMOVE EXISTING PATH

TLE

REMOVE EXISTING
CONCRETE
CURB RAMPS

END CONSTRUCTION
STA. 10+75.00 'Q'
MATCH EXISTING
SAW CUT REQ'D

QUARRY VISTA DR

11+00 'Q'

REMOVE EXISTING 12" RCP STORM PIPE AND INLET AT STA 11+32 'Q', 18' LT. ABANDON EXISTING 12" RCP UNDER QUARRY VISTA DRIVE USING FLOWABLE FILL. POUR NEW CURB AND GUTTER THROUGH EXISTING INLET AT STA 11+32 'Q', 18' LT. REPLACE PAVEMENT WITHIN A 2' OFFSET FROM EXISTING CURB AND GUTTER FLANGE LINE.

CRAIG PRINGLE

JASON SLAYBAUGH

TLE

E.X. UTILITY EASEMENT

STARKY RIOS & JASMINE SAEZ

JOHN ELLINGER

MATCH LINE STA 40+25 'FN'

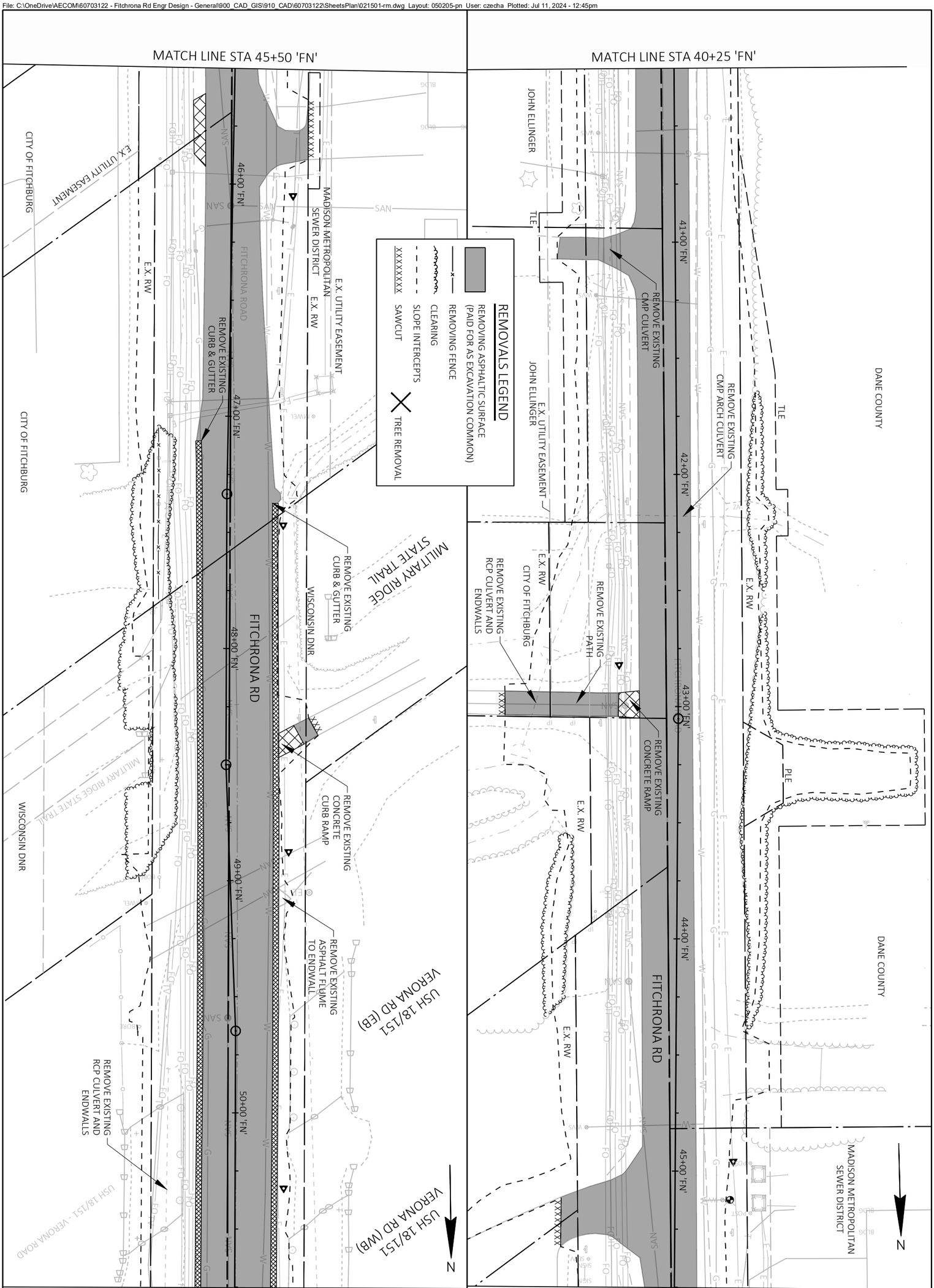
THE CITY OF Fitchburg PUBLIC WORKS

REMOVALS
FITCHRONA ROAD

SCALE:	1 IN:40 FT
DATE:	JULY 2024
REVISION:	100% PLANS
PROJECT NO.:	60703122
SHEET NO.:	C-256

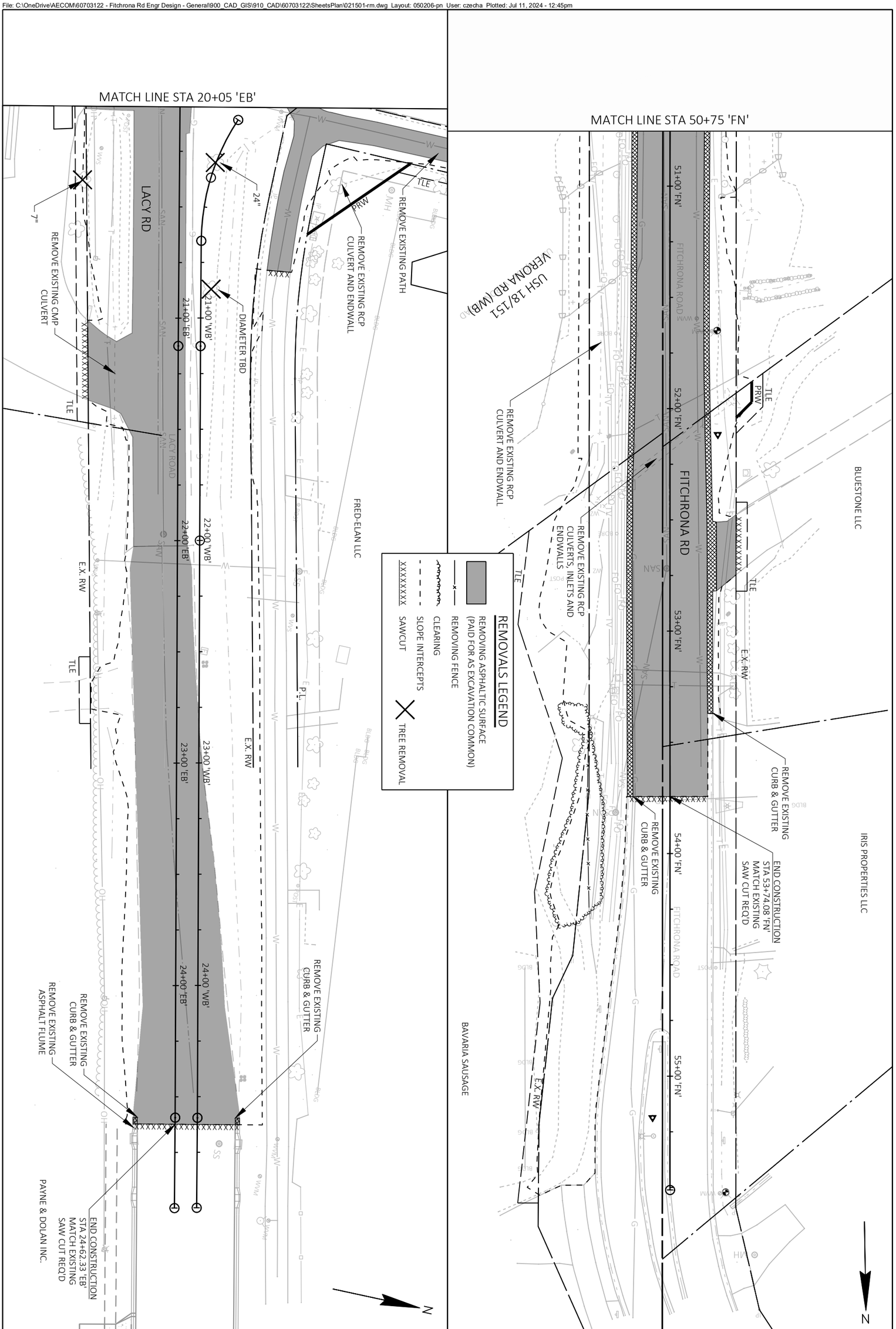
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File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\021501-rm.dwg Layout: 050205-pn User: czecha Plotted: Jul 11, 2024 - 12:45pm

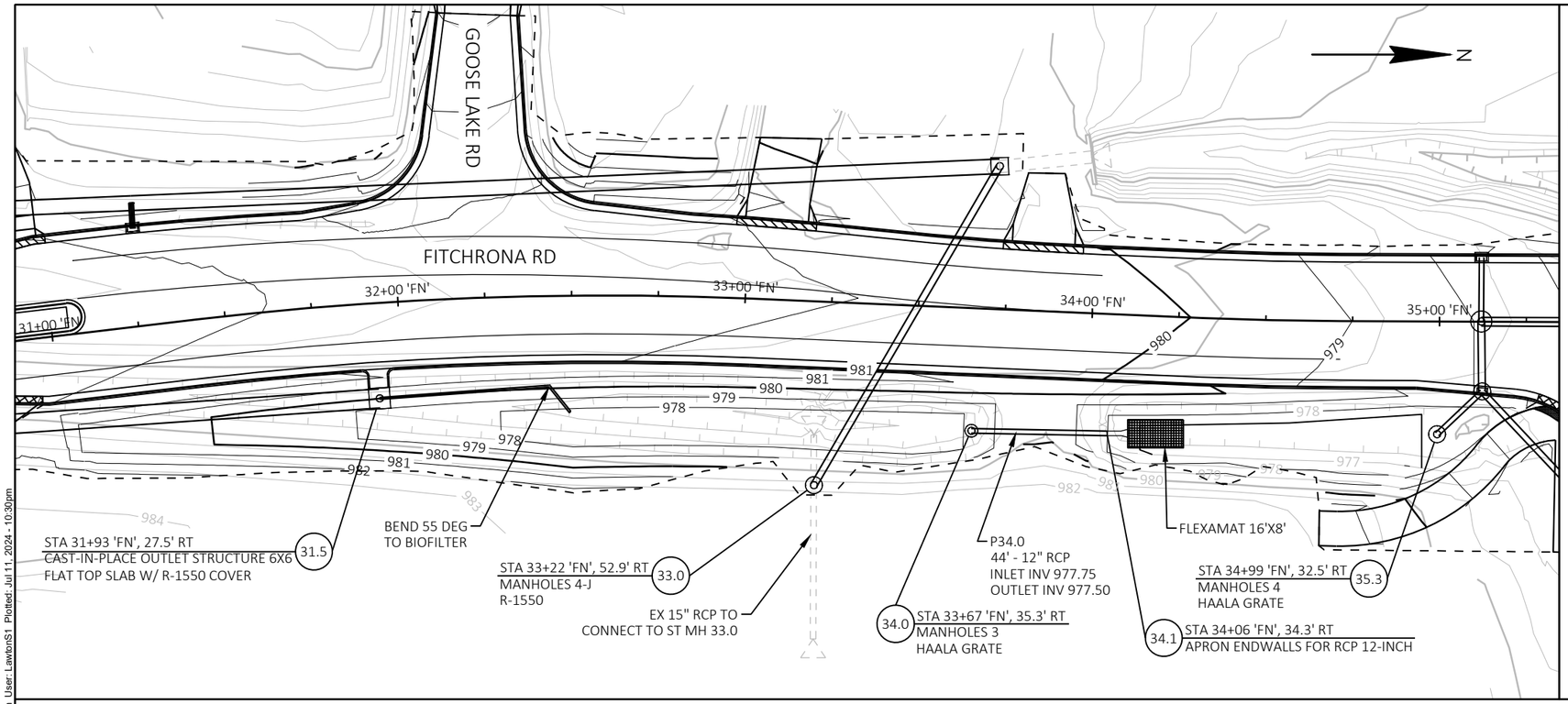


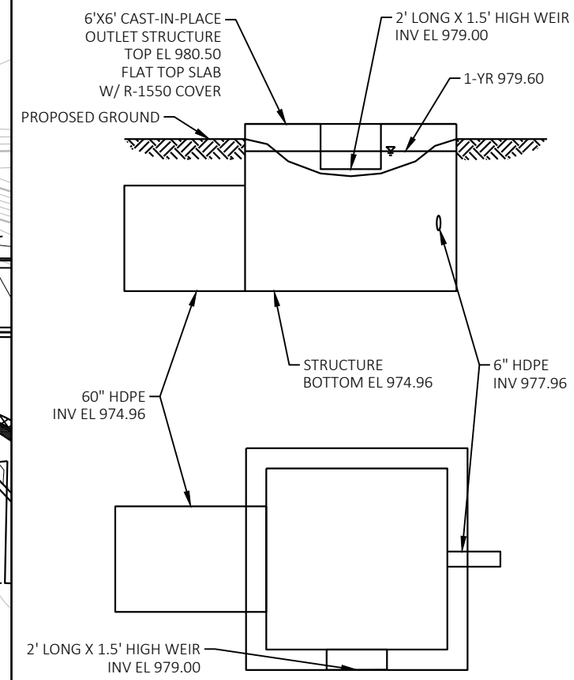
PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	REMOVALS FITCHRONA ROAD	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-257**	DATE: JULY 2024		
	REVISION: 100% PLANS		

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\6070322\SheetsPlan\021501-rm.dwg Layout: 050206-pn User: czecha Plotted: Jul 11, 2024 - 12:45pm

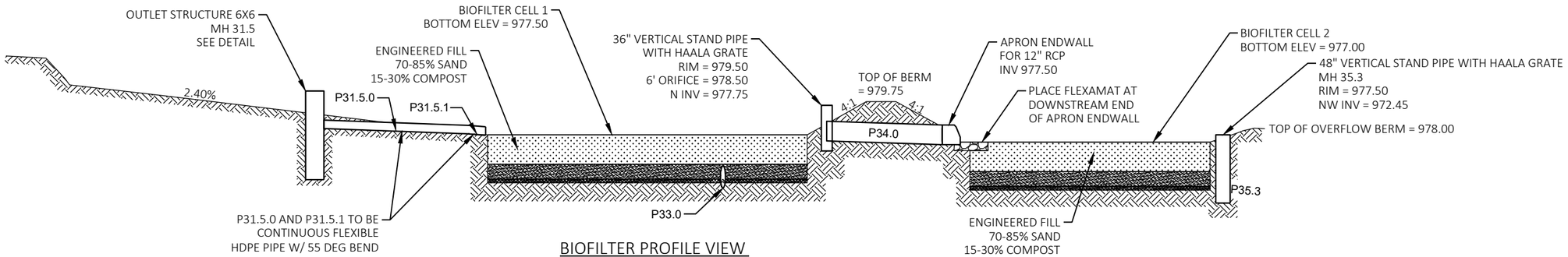


PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	# REMOVALS FITCHRONA ROAD AND LACY ROAD
SHEET NO.: **C-258**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

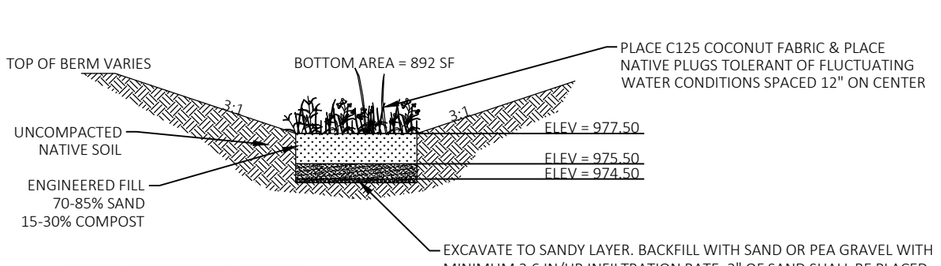




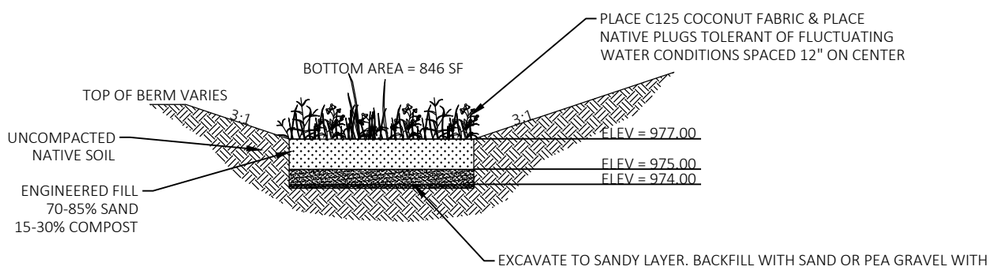
MH 31.5 OUTLET STRUCTURE 6X6 DETAIL
NOT TO SCALE



BIOFILTER PROFILE VIEW
NOT TO SCALE



BIOFILTER CELL 1 DETAIL
NOT TO SCALE



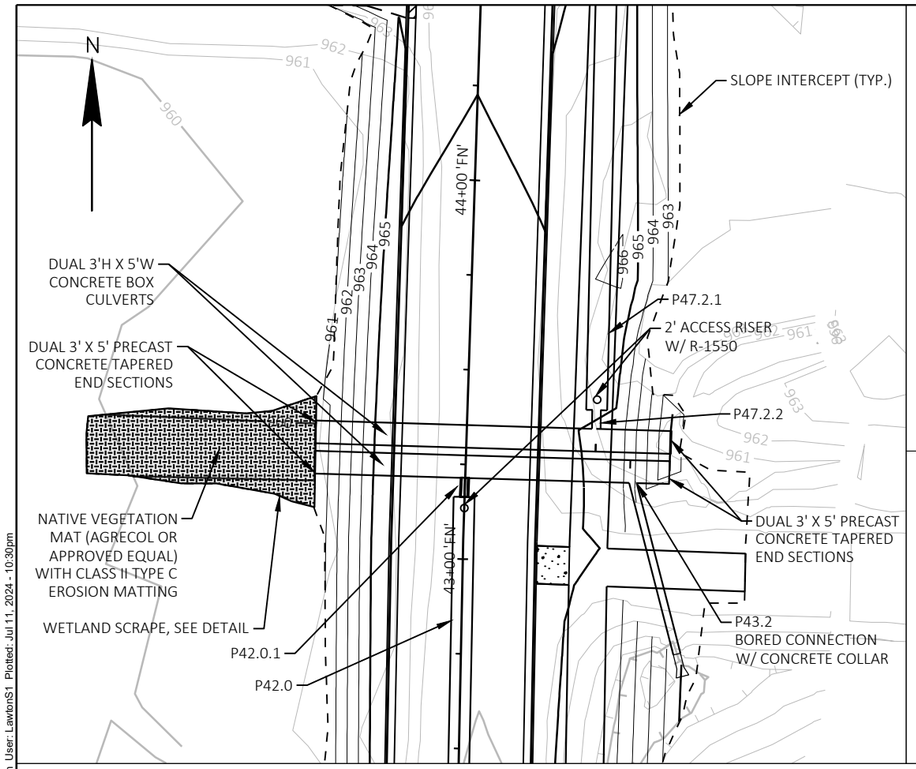
BIOFILTER CELL 2 DETAIL
NOT TO SCALE

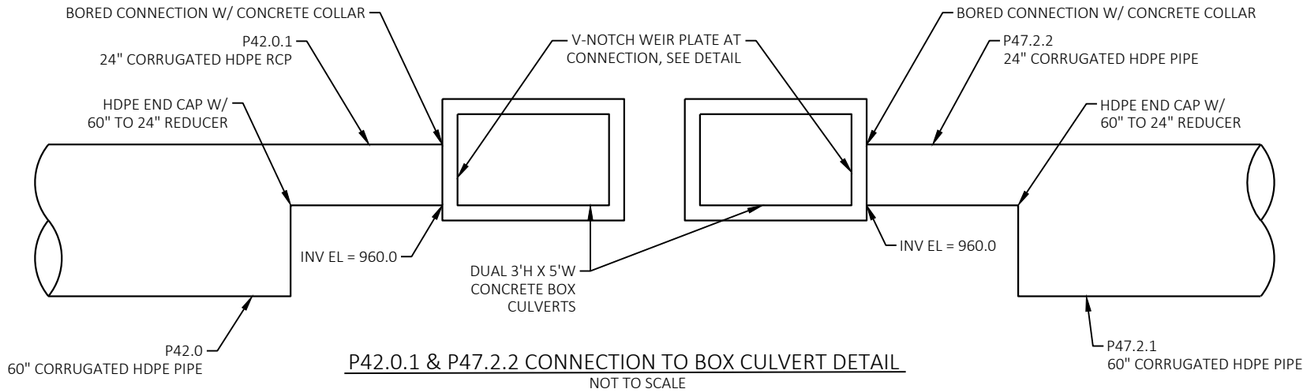
THE CITY OF Fitchburg PUBLIC WORKS

BIOFILTER DETAILS
FITCHRONA ROAD

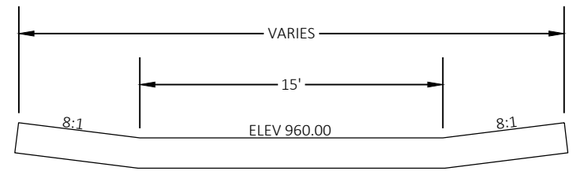
SCALE: 1 IN:40 FT
DATE: JULY 2024
REVISION: 100% PLANS
PROJECT NO.: 60703122
SHEET NO.: C-259

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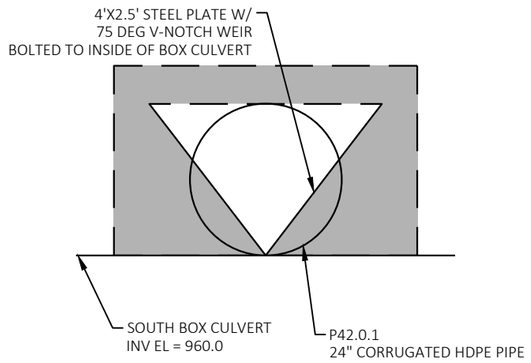




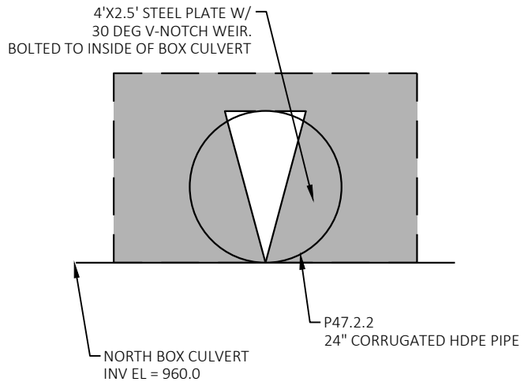
P42.0.1 & P47.2.2 CONNECTION TO BOX CULVERT DETAIL
NOT TO SCALE



WETLAND SCRAPE SECTION DETAIL
NOT TO SCALE



P42.0.1 V-NOTCH WEIR PLATE DETAIL
NOT TO SCALE



P47.2.2 V-NOTCH WEIR PLATE DETAIL
NOT TO SCALE

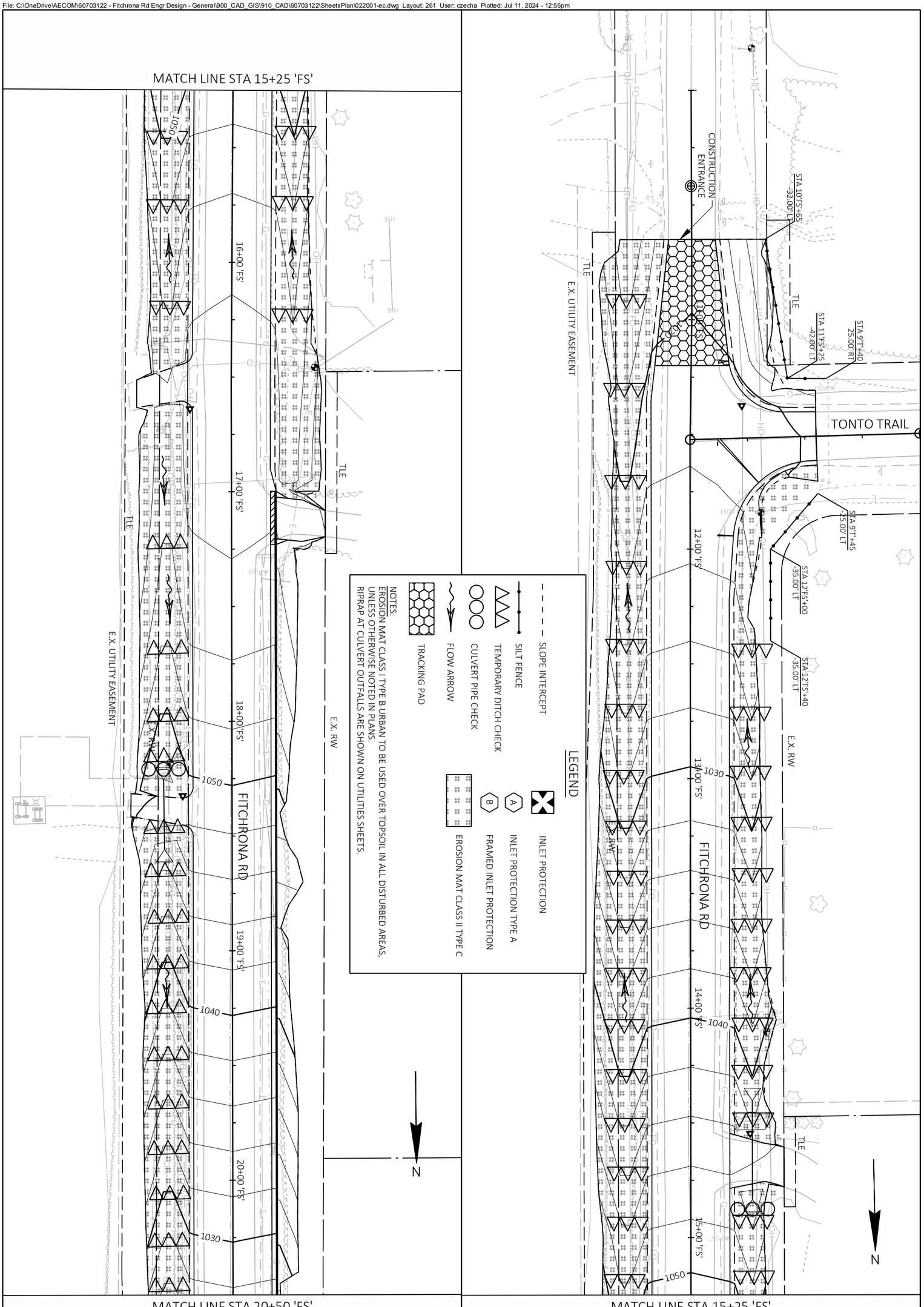
THE CITY OF Fitchburg PUBLIC WORKS

WETLAND SCRAPE DETAILS
FITCHRONA ROAD

SCALE:	1 IN:40 FT
DATE:	JULY 2024
REVISION:	100% PLANS
PROJECT NO.:	60703122
SHEET NO.:	C-260

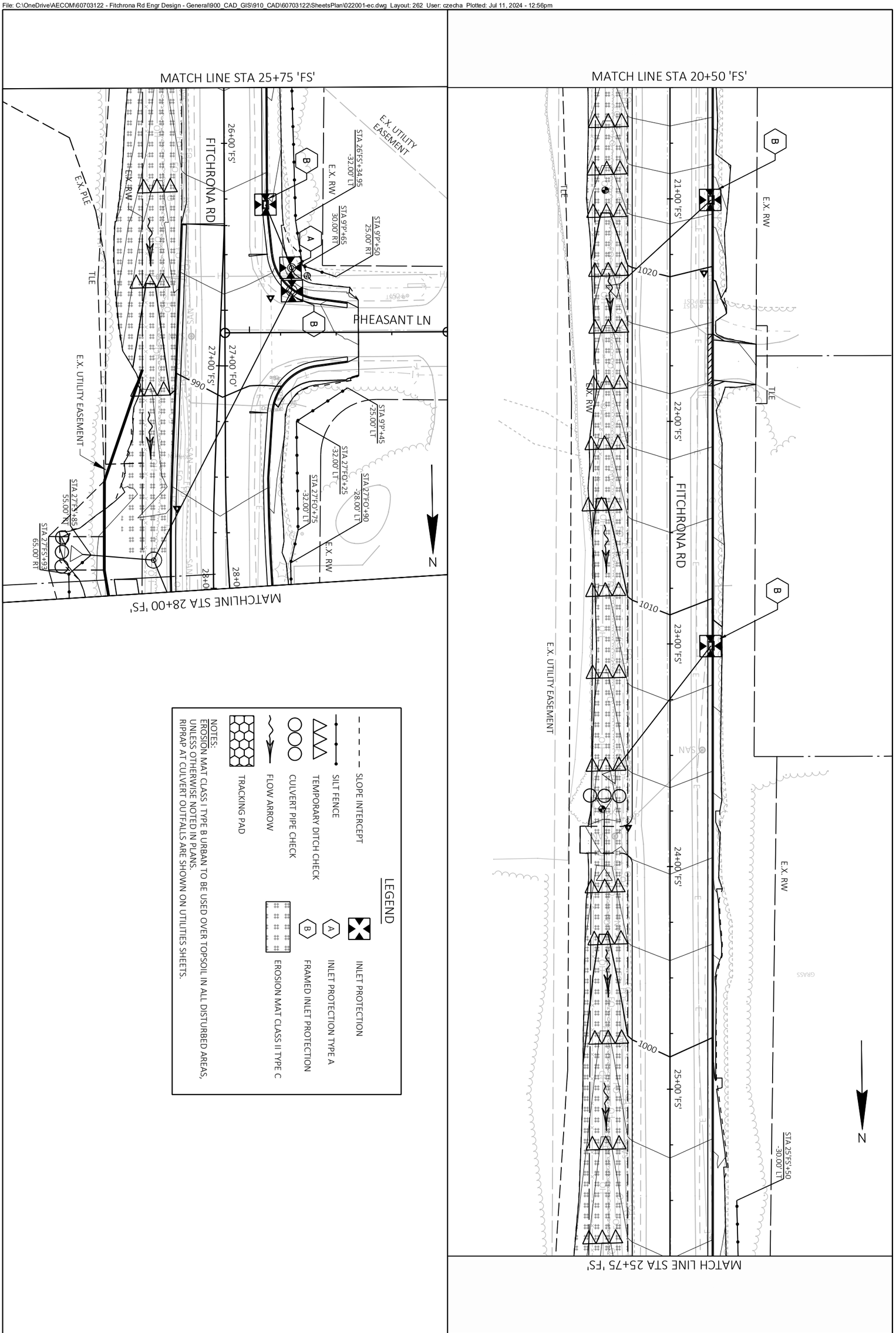
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File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\022001-ec.dwg Layout: 261 User: czecha Plotted: Jul 11, 2024 - 12:56pm



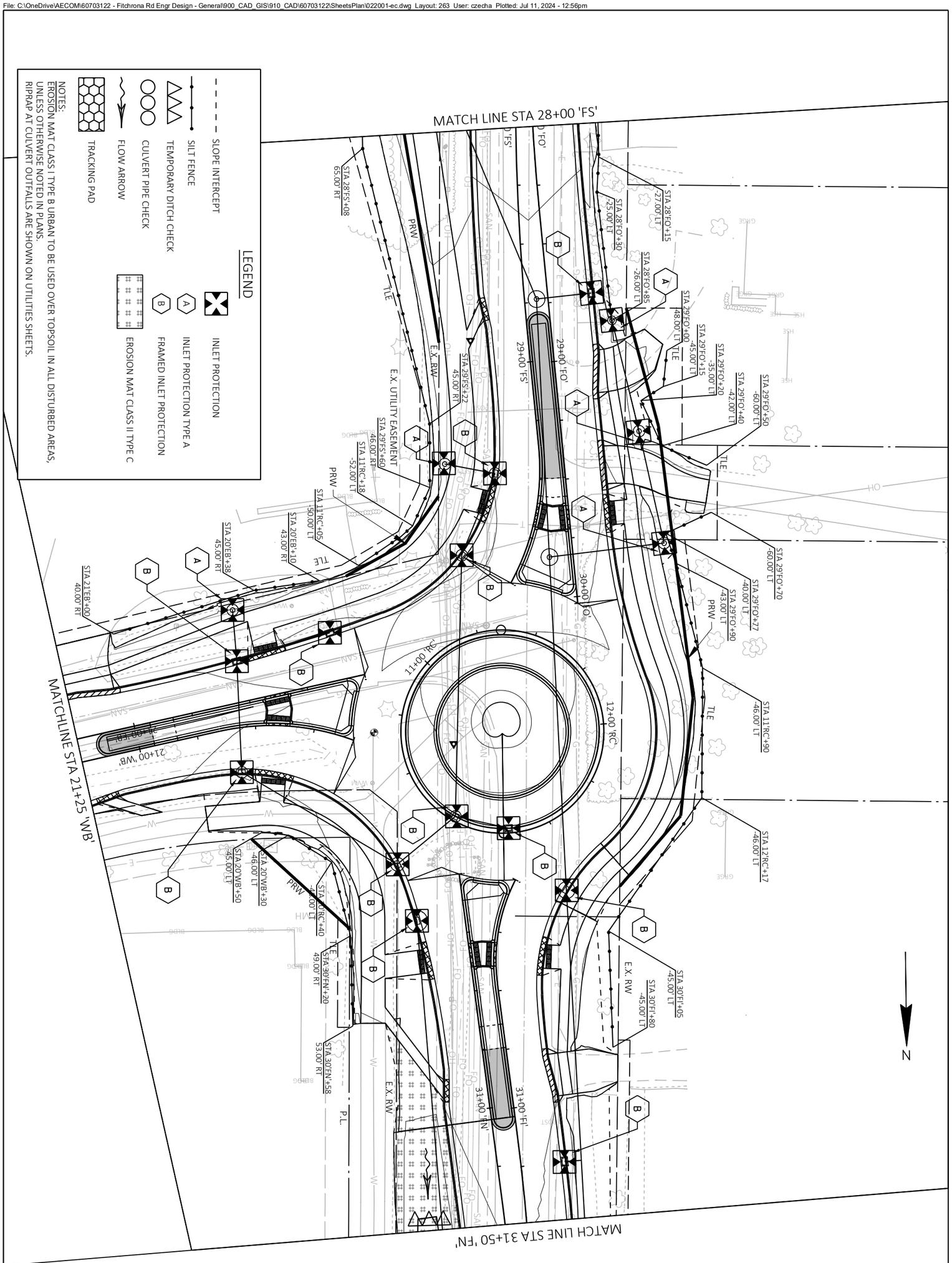
PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	EROSION CONTROL	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-261**	DATE: JULY 2024	FITCHRONA ROAD	
	REVISION: 100% PLANS		

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\022001-ec.dwg Layout: 262 User: czecha Plotted: Jul 11, 2024 - 12:56pm



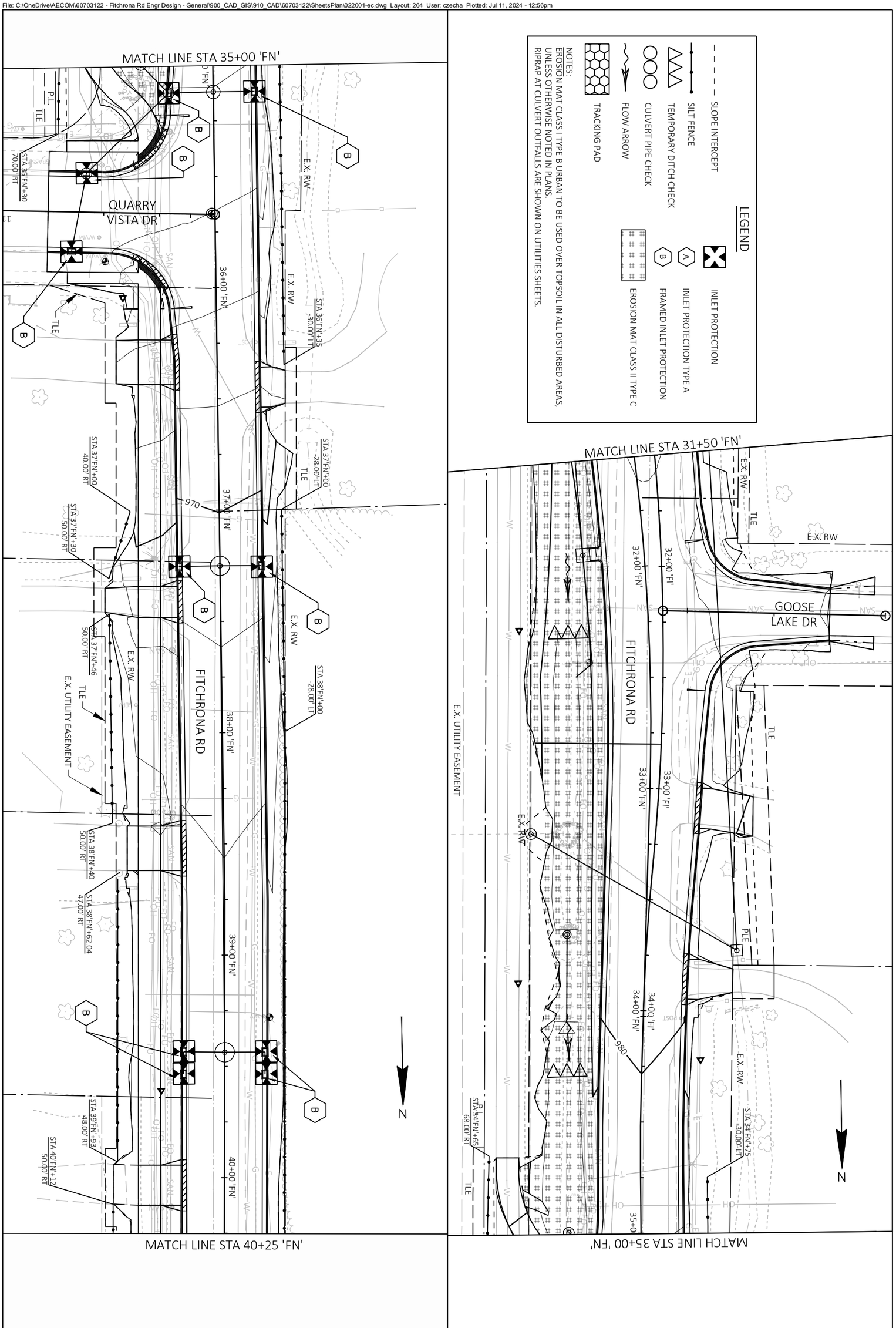
PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	EROSION CONTROL FITCHRONA ROAD	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-262**	DATE: JULY 2024		
	REVISION: 100% PLANS		

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\022001-ec.dwg Layout: 263 User: czecha Plotted: Jul 11, 2024 - 12:56pm



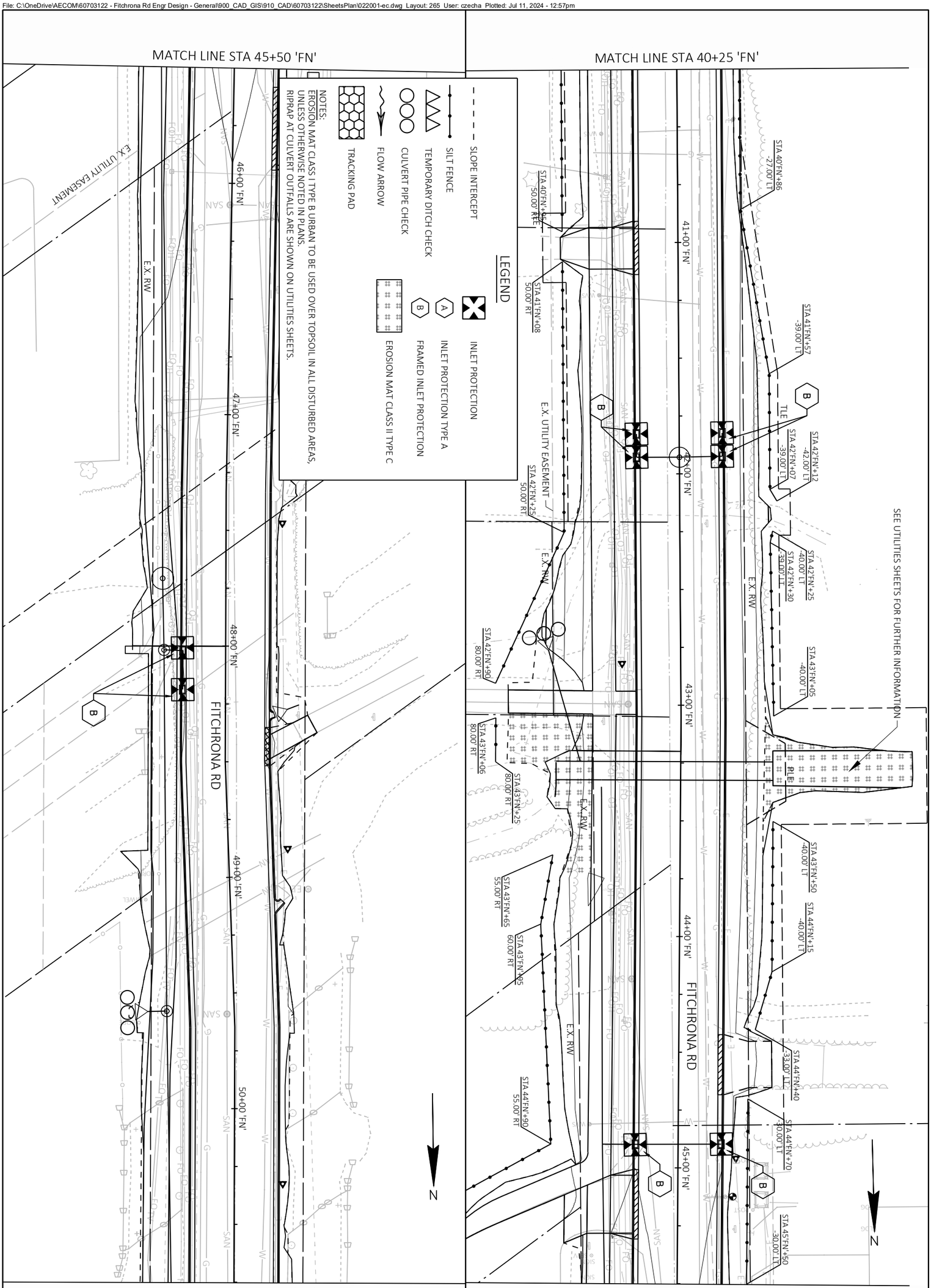
PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	EROSION CONTROL ROUNDABOUT	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-263**	DATE: JULY 2024		
	REVISION: 100% PLANS		

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\022001-ec.dwg Layout: 264 User: czecha Plotted: Jul 11, 2024 - 12:56pm



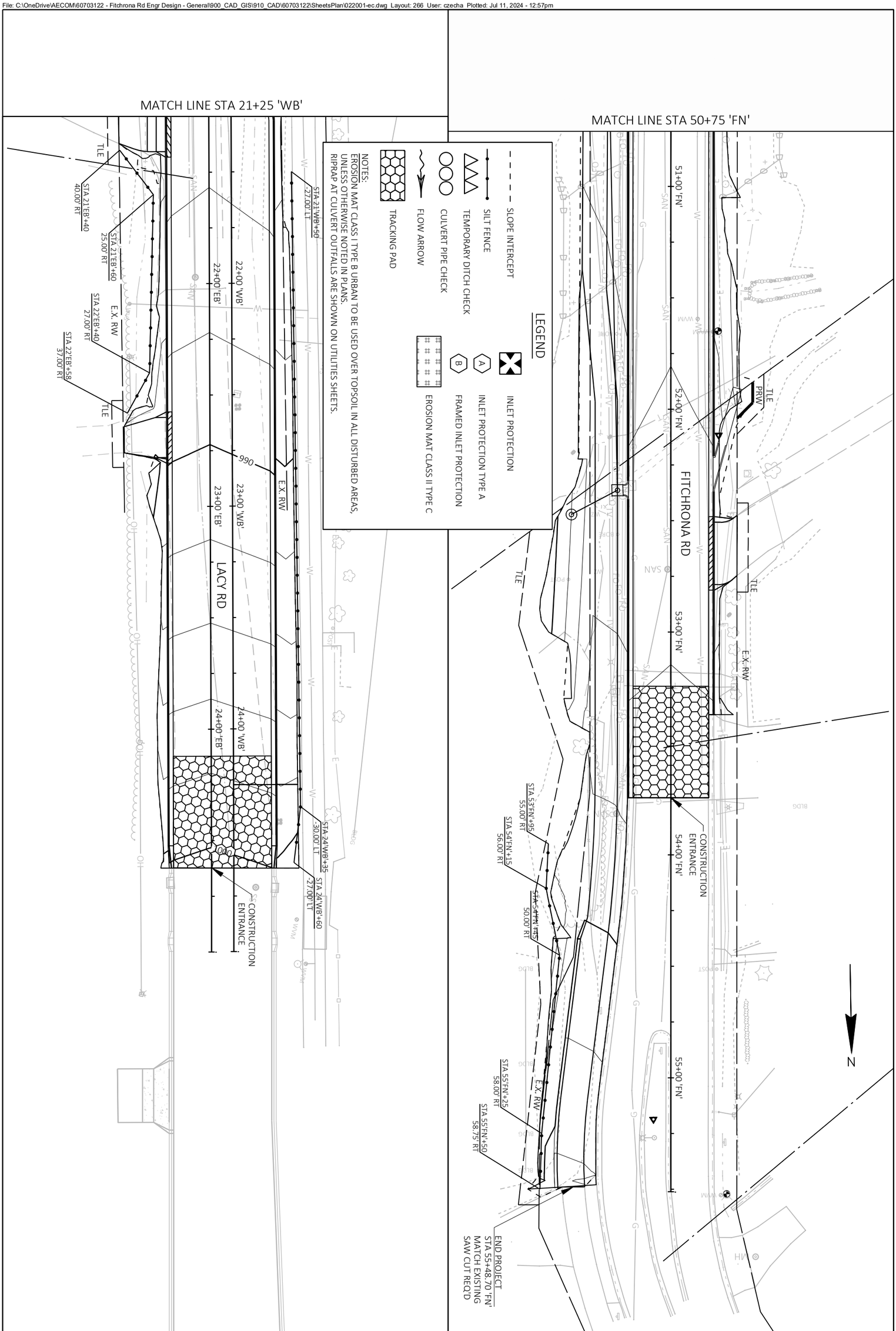
PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	EROSION CONTROL	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-264**	DATE: JULY 2024	FITCHRONA ROAD	
	REVISION: 100% PLANS		

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\022001-ec.dwg Layout: 265 User: czecha Plotted: Jul 11, 2024 - 12:57pm

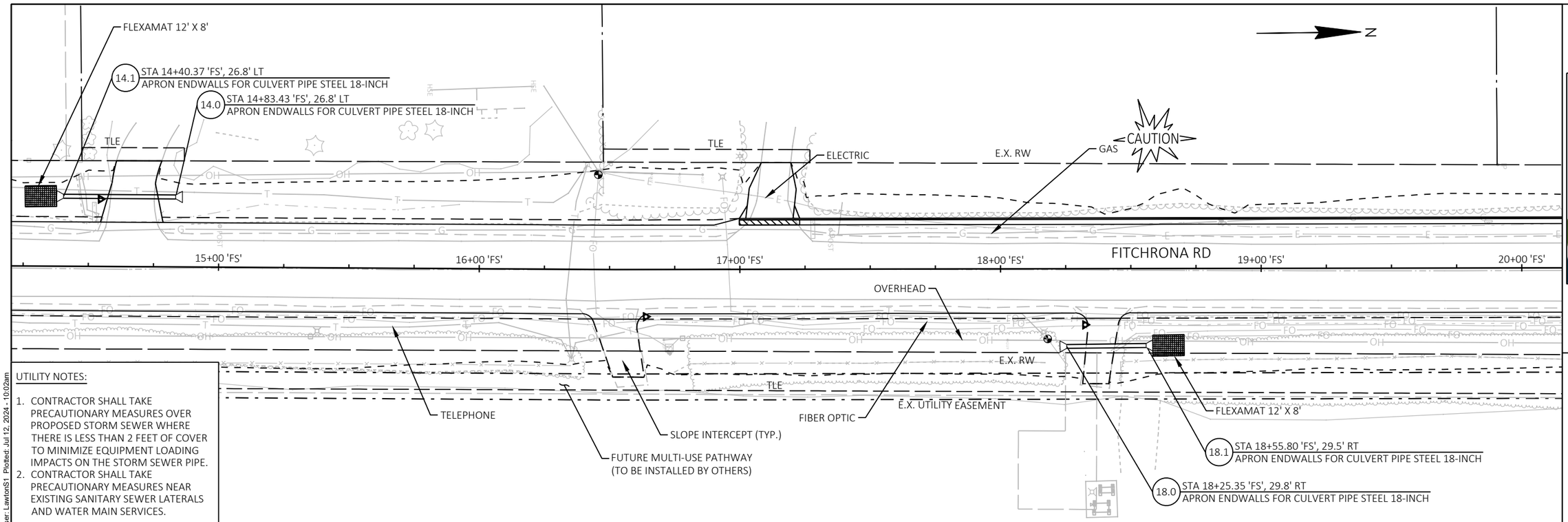


PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	EROSION CONTROL	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-265**	DATE: JULY 2024	FITCHRONA ROAD	
	REVISION: 100% PLANS		

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\022001-ec.dwg Layout: 266 User: czecha Plotted: Jul 11, 2024 - 12:57pm

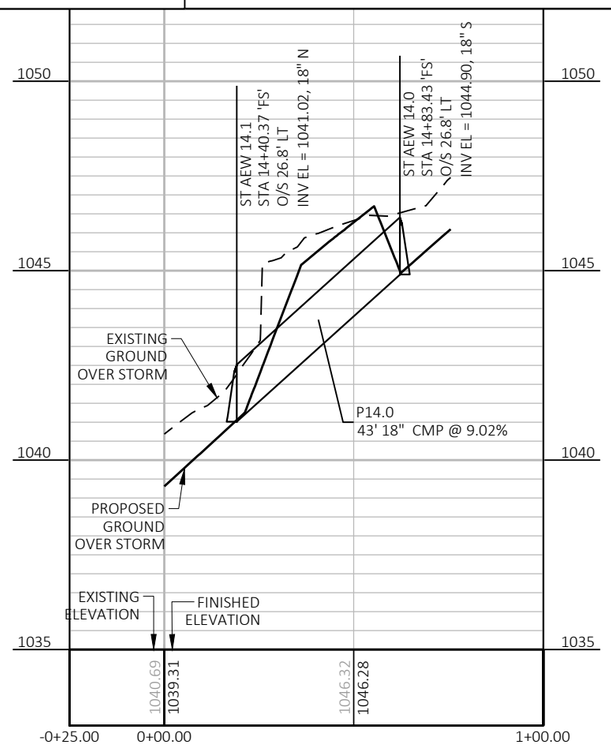


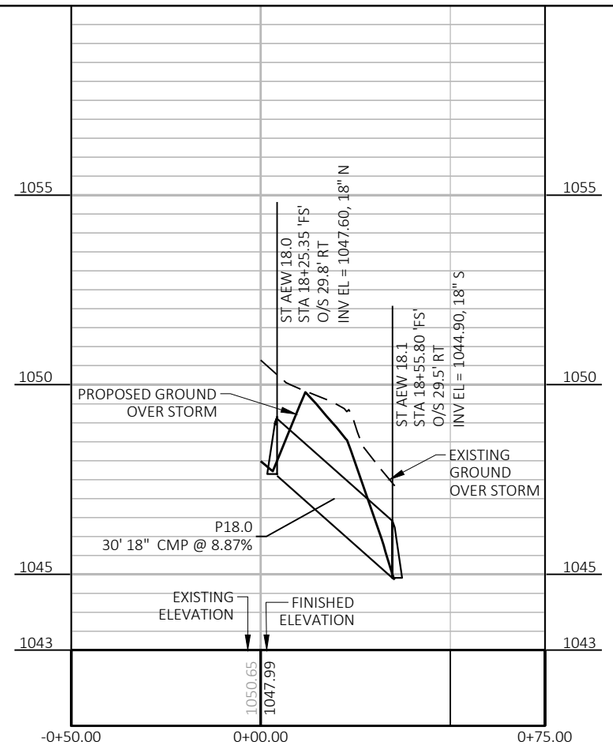
PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	EROSION CONTROL FITCHRONA ROAD AND LACY ROAD
SHEET NO.: **C-266**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	



UTILITY NOTES:

1. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES OVER PROPOSED STORM SEWER WHERE THERE IS LESS THAN 2 FEET OF COVER TO MINIMIZE EQUIPMENT LOADING IMPACTS ON THE STORM SEWER PIPE.
2. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES NEAR EXISTING SANITARY SEWER LATERALS AND WATER MAIN SERVICES.





THE CITY OF Fitchburg PUBLIC WORKS

UTILITIES
FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	
SHEET NO.: C-267	DATE: JULY 2024	REVISION: 100% PLANS

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\022501-ss.dwg Layout: 022501-ss User: LawtonS1 Plotted: Jul 12, 2024 - 10:02am

N

21.0 STA 21+00.44 'FS', 18.5' LT
CATCH BASINS 2x3-H
R-3067-7004-L

STA 23+00.76 'FS', 18.5' LT 23.0
CATCH BASINS 2x3-H
R-3067-7004-L

CAUTION

E.X. RW

TLE

GAS

ELECTRIC

ADJUST MH
SAN MH 671-13
EX RIM EL = 1005.97
PR RIM EL = 1006.60

E.X. RW

RECONSTRUCT MH
SAN MH 671-12
EX RIM EL = 1004.68
PR RIM EL = 1004.39
REMOVE CONE SECTION AS NECESSARY TO REACH GRADE

E.X. UTILITY EASEMENT

E.X.

21+00 'FS' 22+00 'FS' FITCHRONA RD FITCHRONA ROAD 23+00 'FS' 24+00 'FS' 25+00 'FS' 26+00 'FS'

SANITARY SEWER

E.X. RW

TLE

STA 21+38.12 'FS', 22.4' RT 21.1
APRON ENDWALLS FOR RCP 15-INCH

FLEXAMAT 12' X 8'

FUTURE MULTI-USE PATHWAY
(TO BE INSTALLED BY OTHERS)

SLOPE INTERCEPT (TYP.)

FIBER OPTIC

E.X. UTILITY EASEMENT

STA 23+56.27 'FS', 24.4' RT 23.1
APRON ENDWALLS FOR RCP 15-INCH

FLEXAMAT 8' X 8'

STA 23+74.95 'FS', 29.5' RT 24.0
APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH

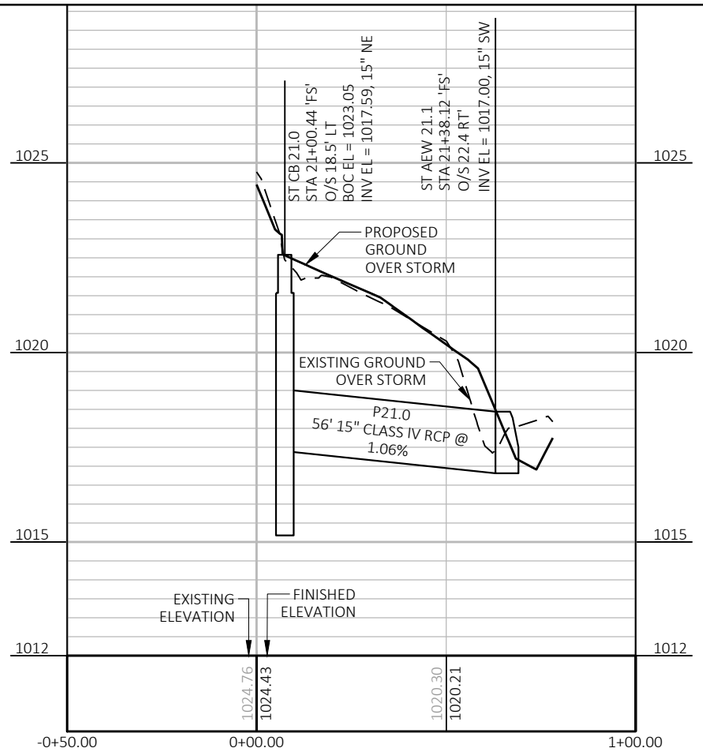
STA 24+00.86 'FS', 29.5' RT 24.1
APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH

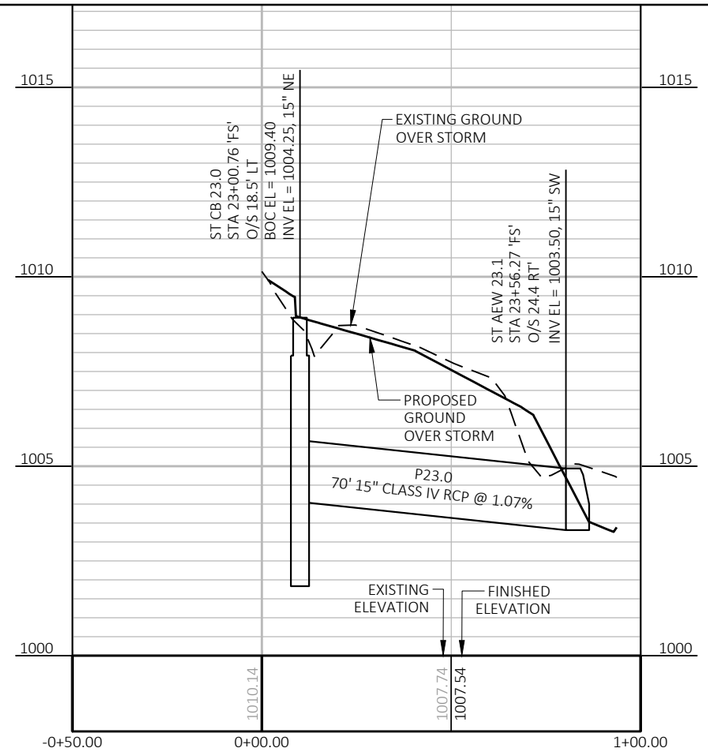
OVERHEAD

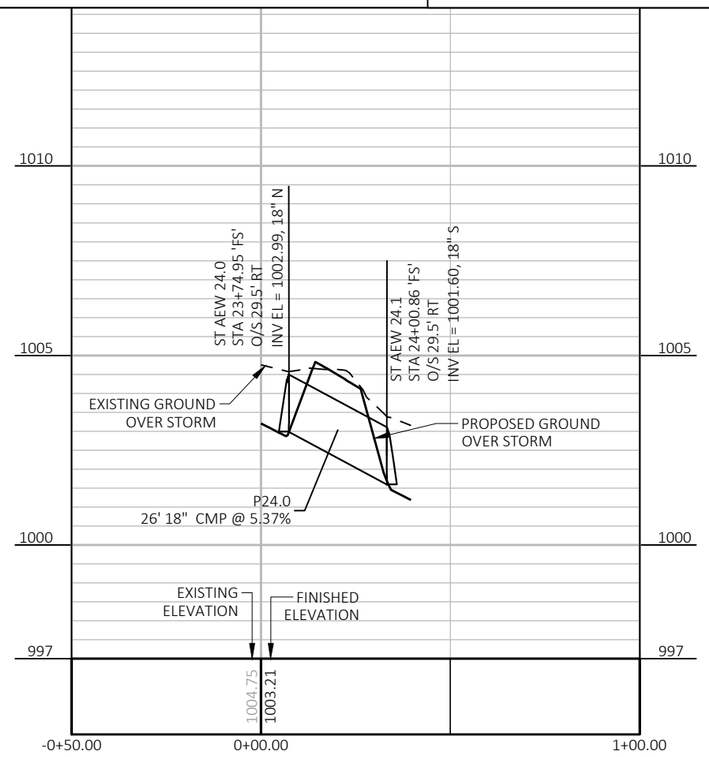
FLEXAMAT
16' X 8'

UTILITY NOTES:

1. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES OVER PROPOSED STORM SEWR WHERE THERE IS LESS THAN 2 FEET OF COVER TO MINIMIZE EQUIPMENT LOADING IMPACTS ON THE STORM SEWER PIPE.
2. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES NEAR EXISTING SANITARY SEWER LATERALS AND WATER MAIN SERVICES.







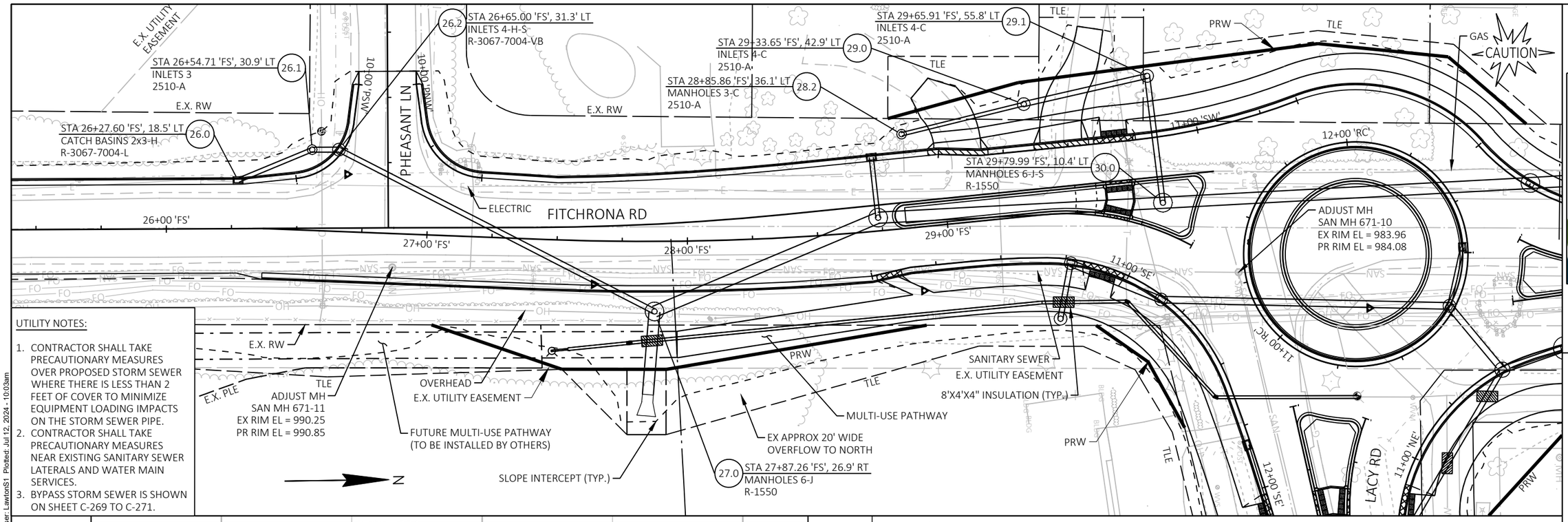
THE CITY OF Fitchburg PUBLIC WORKS

UTILITIES
FITCHRONA ROAD

SCALE: 1 IN:40 FT
DATE: JULY 2024
REVISION: 100% PLANS

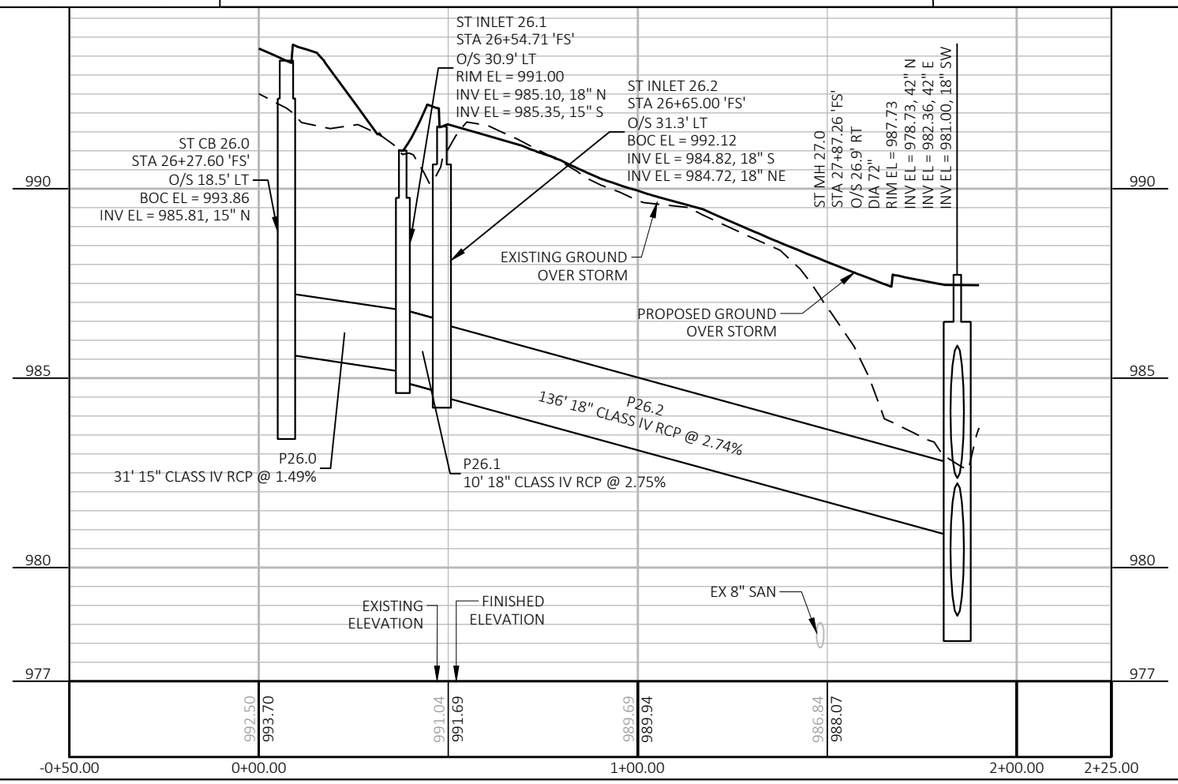
PROJECT NO.: 60703122
SHEET NO.: C-268

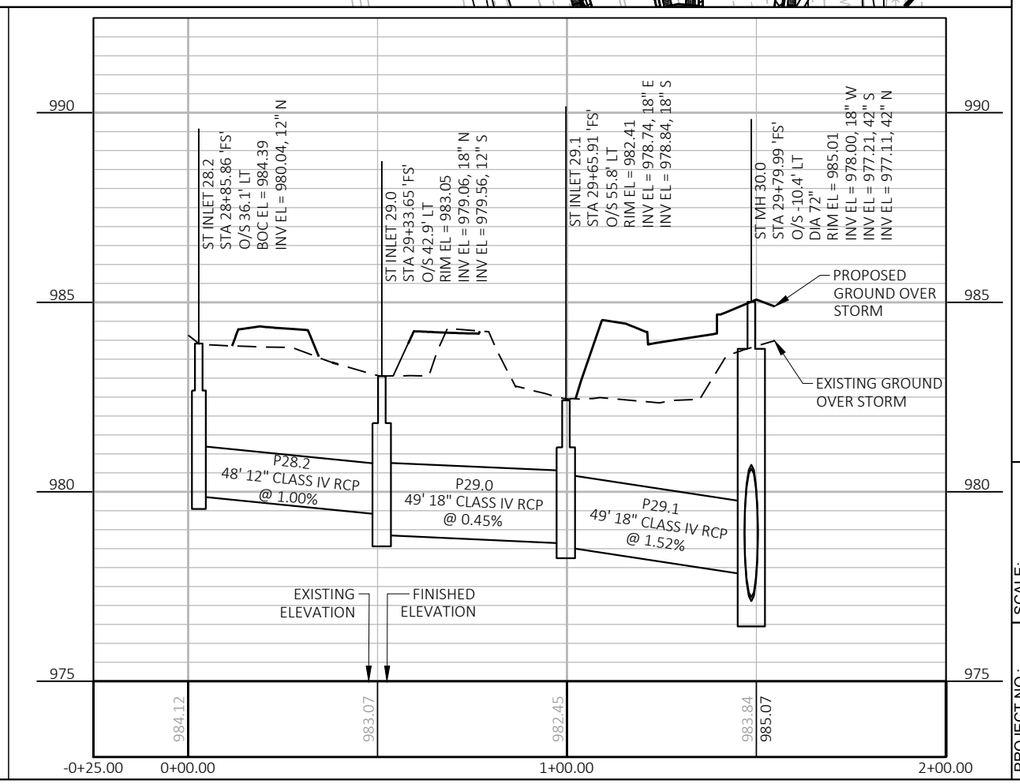
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UTILITY NOTES:

1. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES OVER PROPOSED STORM SEWER WHERE THERE IS LESS THAN 2 FEET OF COVER TO MINIMIZE EQUIPMENT LOADING IMPACTS ON THE STORM SEWER PIPE.
2. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES NEAR EXISTING SANITARY SEWER LATERALS AND WATER MAIN SERVICES.
3. BYPASS STORM SEWER IS SHOWN ON SHEET C-269 TO C-271.



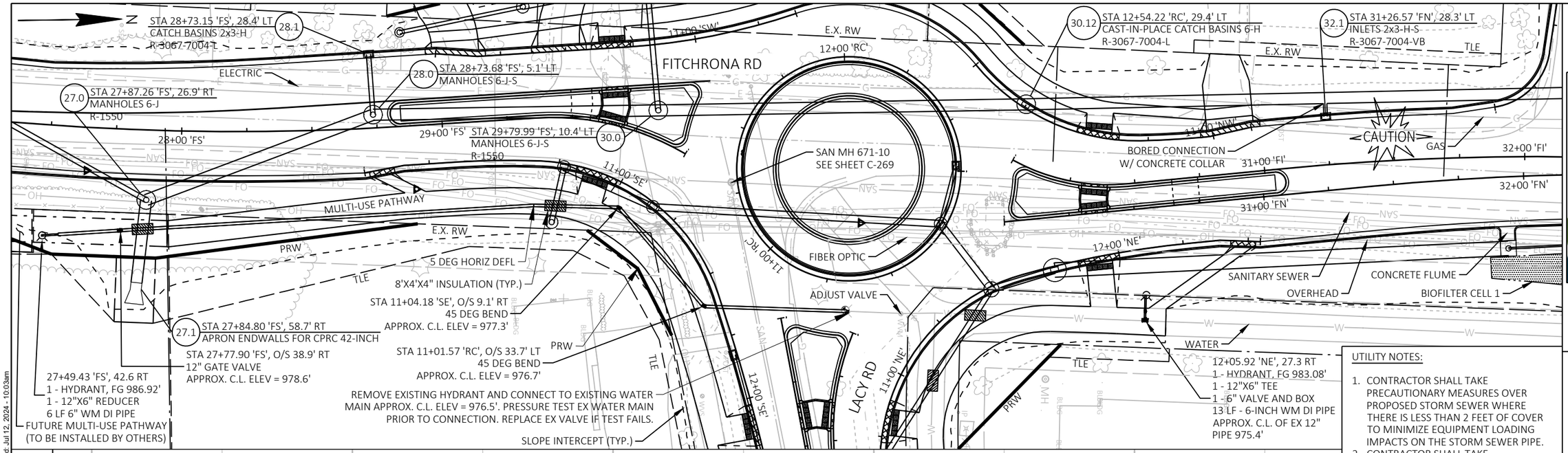


THE CITY OF Fitchburg PUBLIC WORKS

UTILITIES
FITCHRONA ROAD

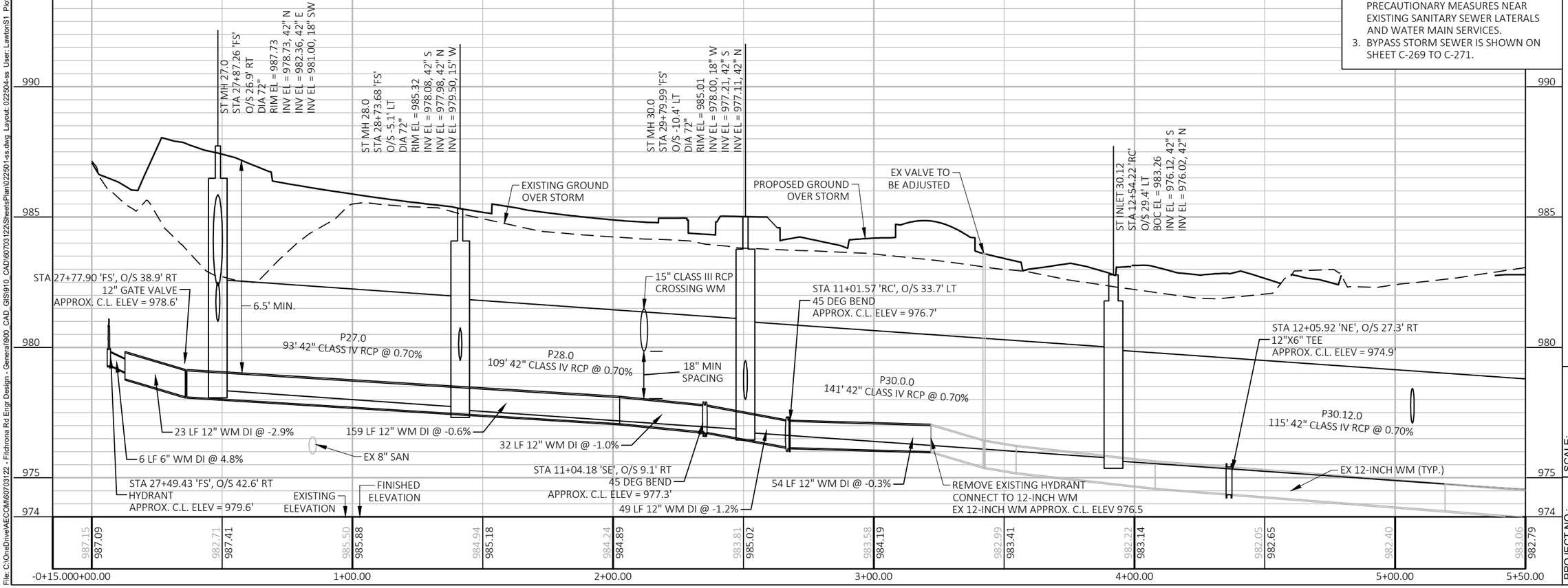
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UTILITY NOTES:

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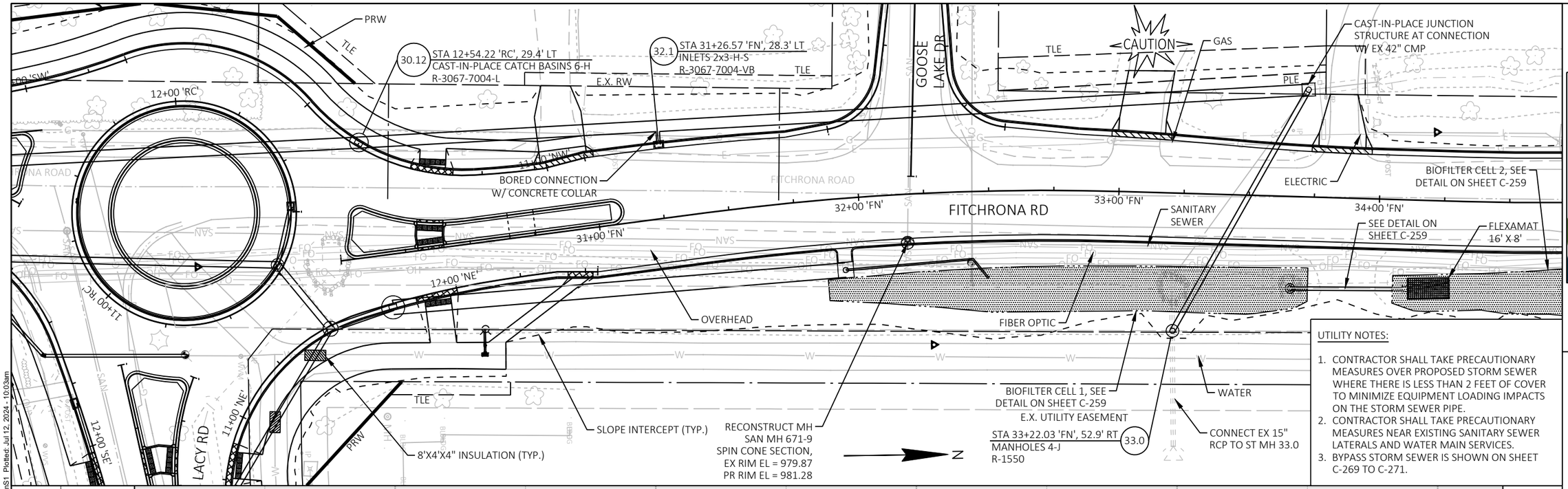
THE CITY OF Fitchburg PUBLIC WORKS

UTILITIES
FITCHRONA ROAD

SCALE: 1 IN:40 FT
DATE: JULY 2024
REVISION: 100% PLANS

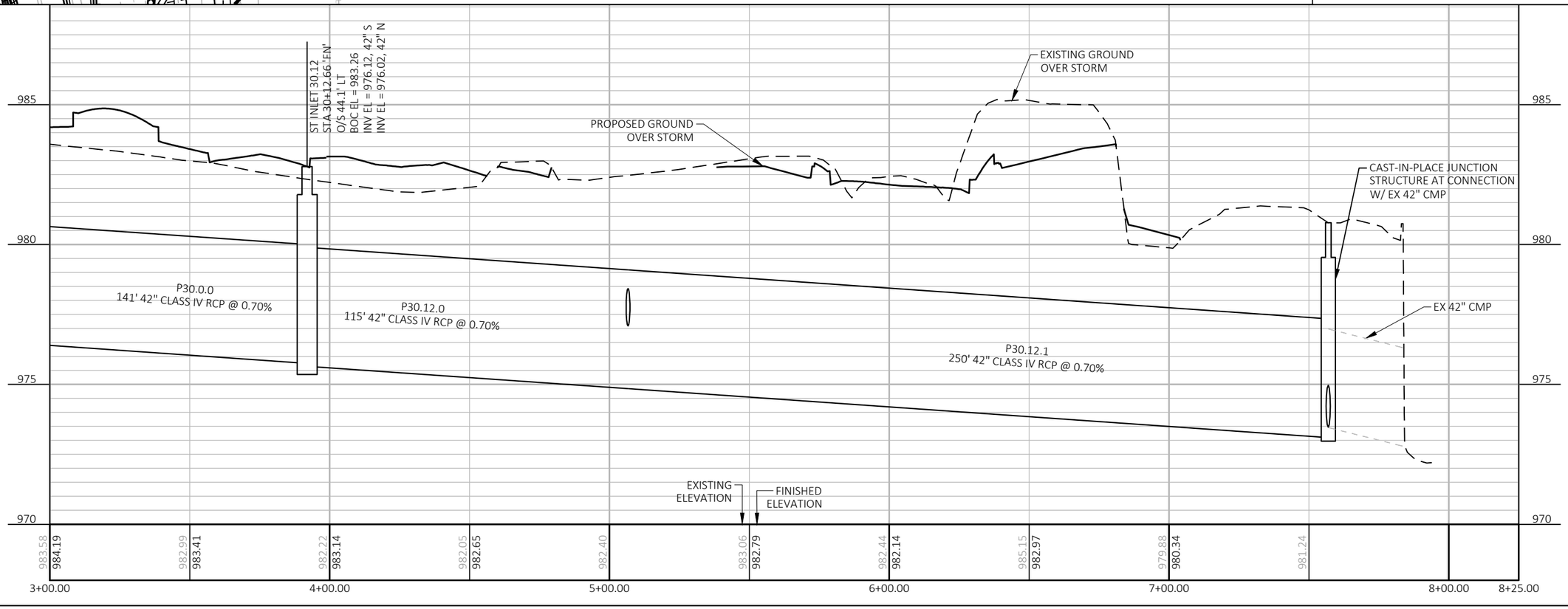
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UTILITY NOTES:

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3. BYPASS STORM SEWER IS SHOWN ON SHEET C-269 TO C-271.

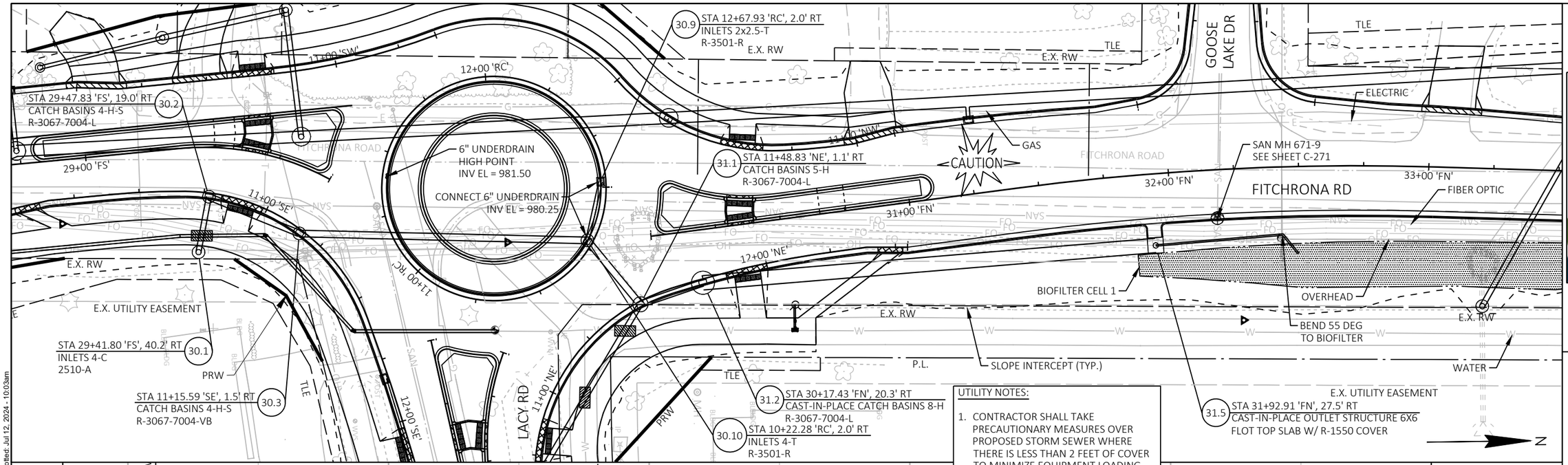


THE CITY OF Fitchburg PUBLIC WORKS

UTILITIES
FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	
SHEET NO.: C-271	DATE: JULY 2024	REVISION: 100% PLANS

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THE CITY OF Fitchburg PUBLIC WORKS

UTILITIES
FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	
SHEET NO.: C-272	DATE: JULY 2024	REVISION: 100% PLANS

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UTILITY NOTES:

1. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES OVER PROPOSED STORM SEWER WHERE THERE IS LESS THAN 2 FEET OF COVER TO MINIMIZE EQUIPMENT LOADING IMPACTS ON THE STORM SEWER PIPE.
2. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES NEAR EXISTING SANITARY SEWER LATERALS AND WATER MAIN SERVICES.

N

31.2 STA 30+17.43 'FN', 20.3' RT
CAST-IN-PLACE CATCH BASINS 8-H
R-3067-7004-L

31.1 STA 11+48.83 'NE', 1.1' RT
CATCH BASINS 5-H
R-3067-5004-L

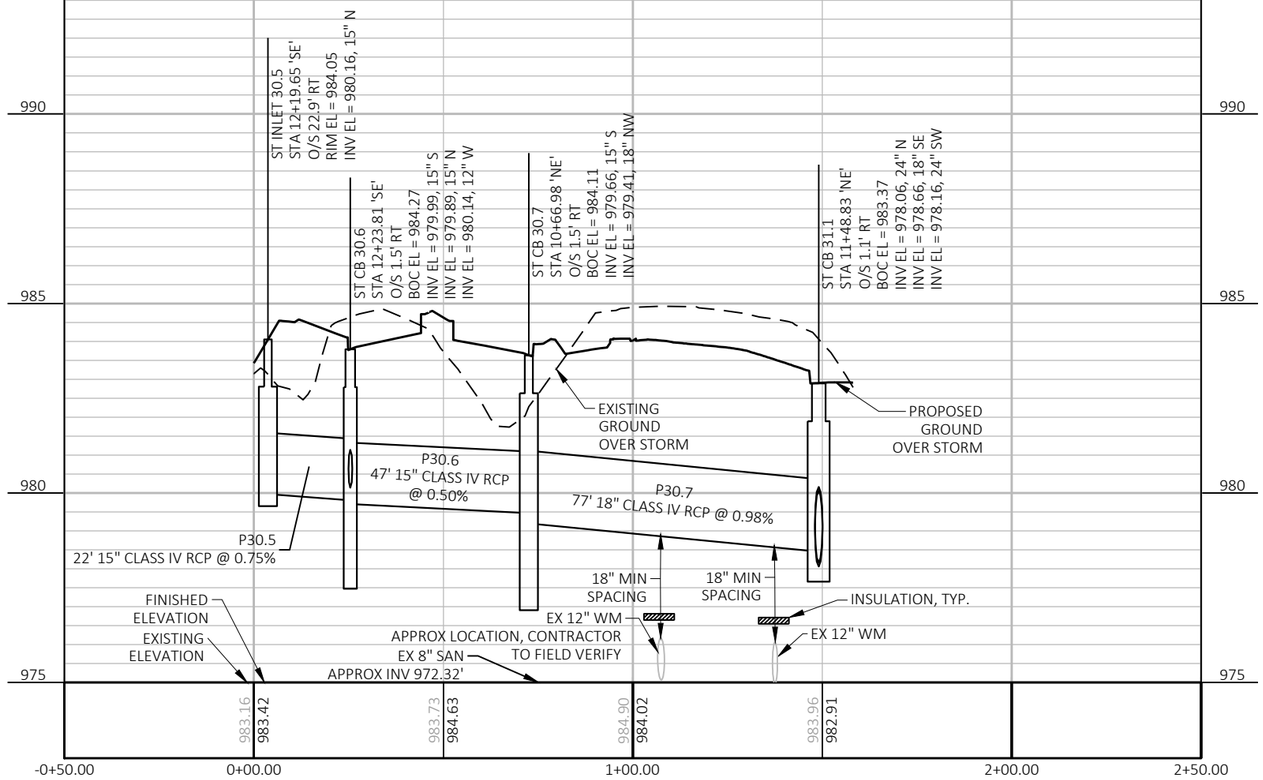
30.7 STA 10+66.98 'NE', 1.5' RT
CATCH BASINS 4-H
R-3067-7004-L

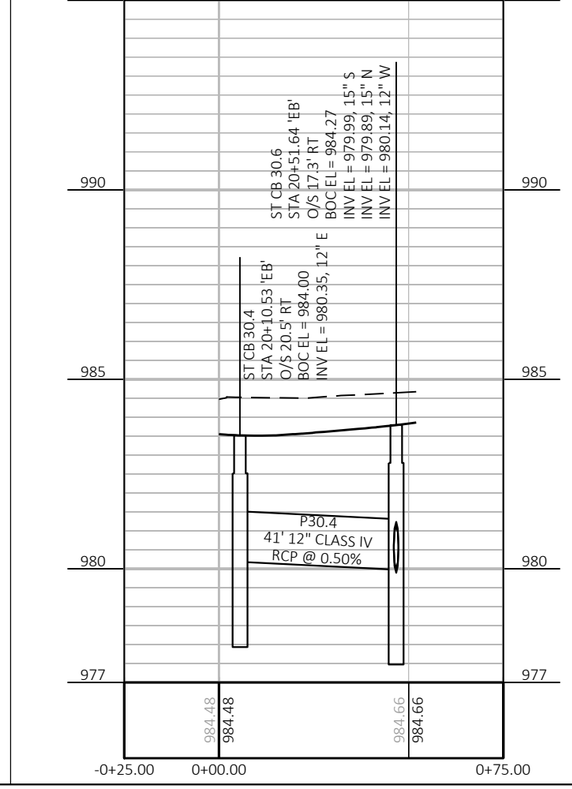
30.6 STA 12+23.81 'SE', 1.5' RT
CATCH BASINS 2x3-H
R-3067-7004-L

30.5 STA 12+19.65 'SE', 22.9' RT
INLETS 4-C
2510-A

30.4 STA 11+82.49 'SE', 1.5' RT
CATCH BASINS 2x3-H
R-3067-7004-VB

PRW
TLE
FIBER OPTIC
ELECTRIC
WATER
GAS
P.L.
E.X. RW
CAUTION
FITCHRONA RD
LACY RD
LACY ROAD
12+00 'RC'
11+00 'NE'
11+00 'SW'
11+00 'RC'
11+00 'SE'
12+00 'SE'
21+00 'WB'
21+00 'EB'
22+00 'WB'
22+00 'EB'
23+00 'WB'
23+00 'EB'
24+00 'WB'
24+00 'EB'
SANITARY SEWER
ADJUST MH
SAN MH 447-1
EX RIM EL = 987.15
PR RIM EL = 987.03
OVERHEAD
SLOPE INTERCEPT (TYP.)



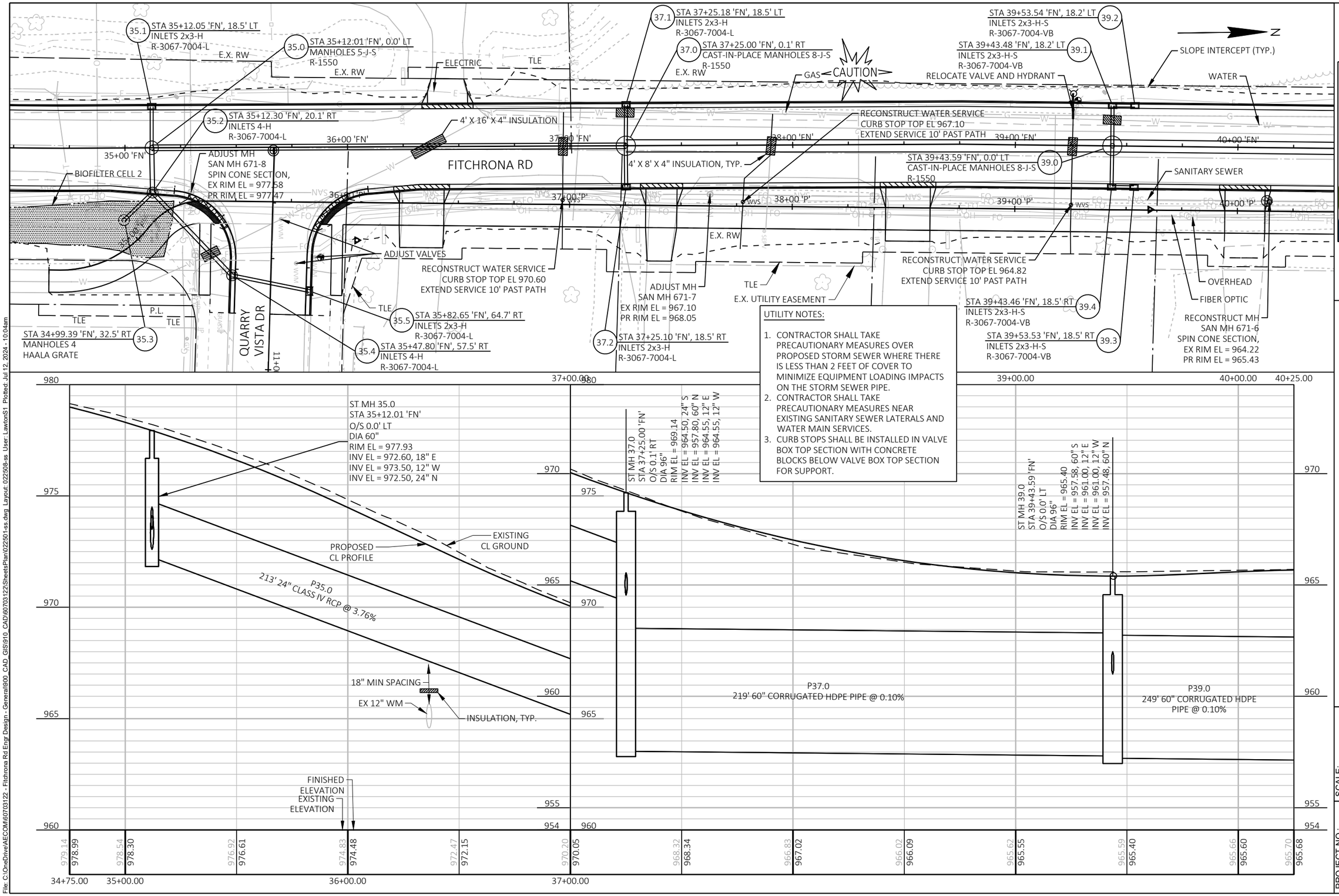


THE CITY OF Fitchburg PUBLIC WORKS

UTILITIES
FITCHRONA ROAD

PROJECT NO.: 60703122
SHEET NO.: C-273
SCALE: 1 IN:40 FT
DATE: JULY 2024
REVISION: 100% PLANS

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UTILITY NOTES:

1. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES OVER PROPOSED STORM SEWER WHERE THERE IS LESS THAN 2 FEET OF COVER TO MINIMIZE EQUIPMENT LOADING IMPACTS ON THE STORM SEWER PIPE.
2. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES NEAR EXISTING SANITARY SEWER LATERALS AND WATER MAIN SERVICES.
3. CURB STOPS SHALL BE INSTALLED IN VALVE BOX TOP SECTION WITH CONCRETE BLOCKS BELOW VALVE BOX TOP SECTION FOR SUPPORT.

THE CITY OF Fitchburg PUBLIC WORKS

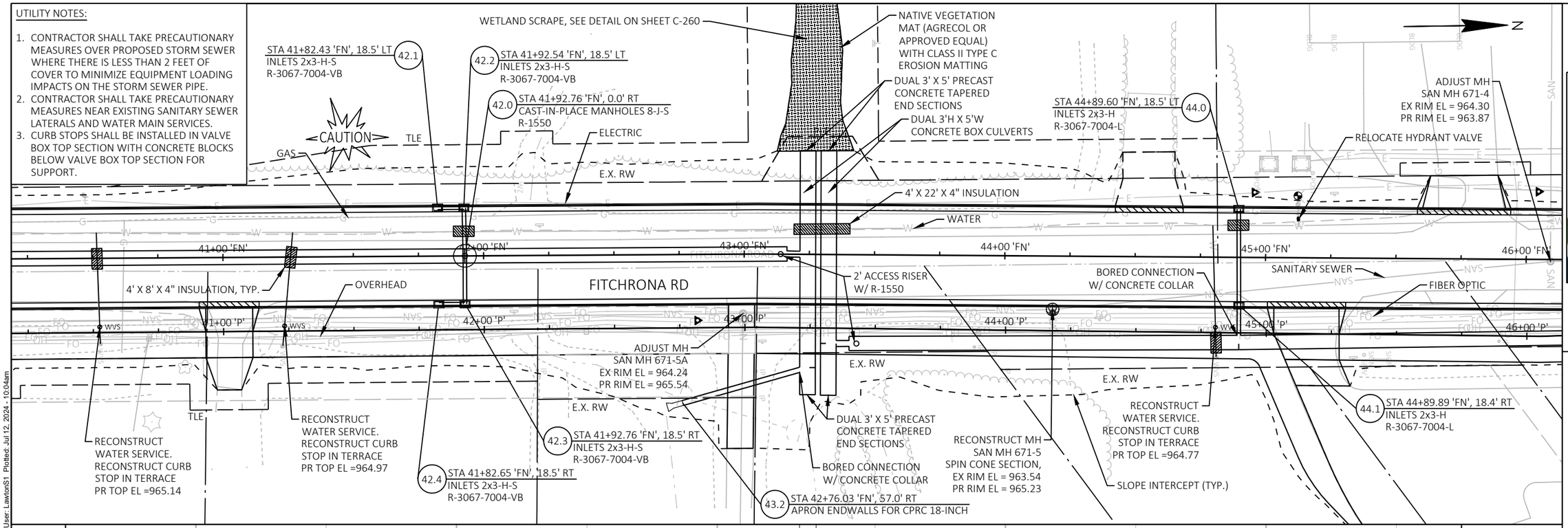
UTILITIES
FITCHRONA ROAD

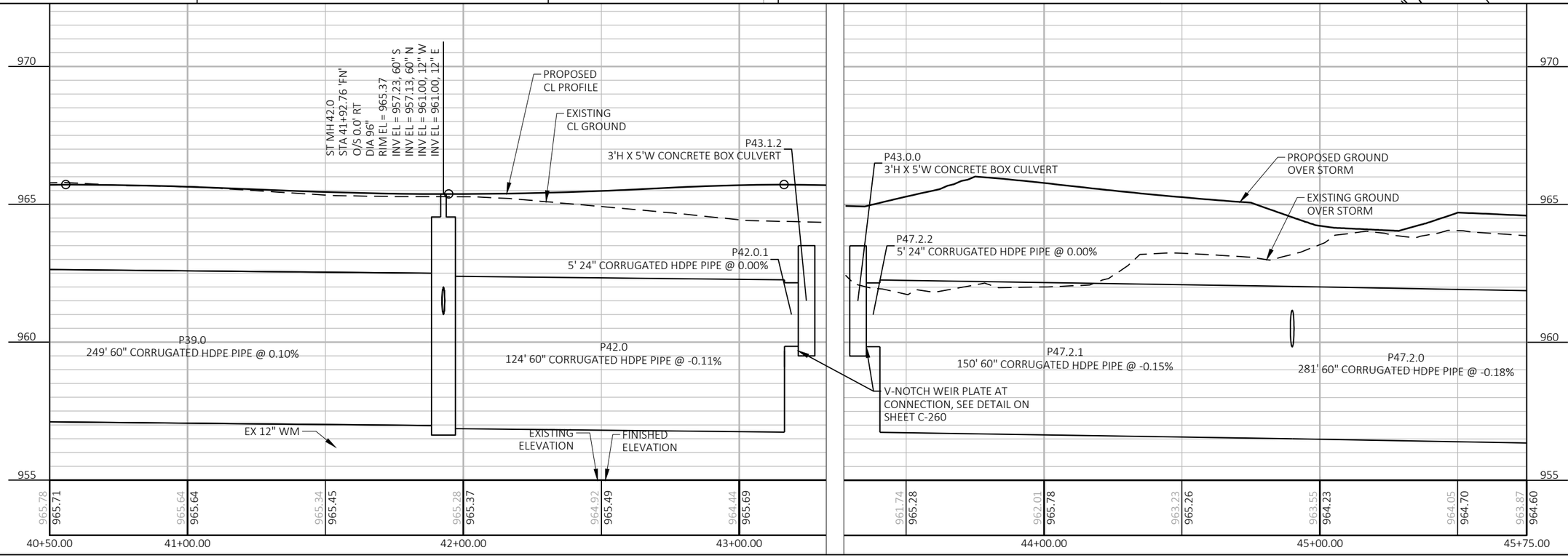
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DATE: JULY 2024
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UTILITY NOTES:

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THE CITY OF Fitchburg PUBLIC WORKS

UTILITIES
FITCHRONA ROAD

SCALE:	1 IN:40 FT
DATE:	JULY 2024
REVISION:	100% PLANS
PROJECT NO.:	60703122
SHEET NO.:	C-275

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UTILITY NOTES:

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N

CORE 24-INCH HOLE IN TOP OF EX 30-INCH PIPE. ADD MORTAR CONNECTION W/ ADJUSTING RINGS AND R-1550 COVER

48.1 STA 48+27.30 'FN', 26.7' LT
APRON ENDWALLS FOR RCP 15-INCH

2-FOOT WIDE PAVED FLUME TO EX ENDWALL

ADJUST MH
SAN MH 671-3
EX RIM EL = 962.71
PR RIM EL = 962.70

SLOPE INTERCEPT (TYP.)

E.X. UTILITY EASEMENT

ELECTRIC

E.X. RW

CORED 15-INCH PIPE CONNECTION W/ CONCRETE COLLAR

WATER

FITCHRONA RD

MMSD 20" DI FM

SANITARY SEWER

MMSD 36" PCCP FM

GAS

CAUTION

46+00 'FN' 47+00 'FN' 48+00 'FN' 49+00 'FN' 50+00 'FN' 51+00 'FN'

46+00 'P' 47+00 'P' 48+00 'P' 49+00 'P' 50+00 'P' 51+00 'P'

E.X. RW

E.X. UTILITY EASEMENT

OVERHEAD

ADJUST MH
SAN MH 671-4
EX RIM EL = 964.30
PR RIM EL = 963.87

STA 47+70.81 'FN', 27.3' RT
CAST-IN-PLACE MANHOLES 8-J-S
R-1550
47.0

STA 48+02.00 'FN', 18.5' RT
INLETS 2x3-H-S
R-3067-7004-VB
48.4

STA 48+01.71 'FN', 26.6' RT
MANHOLES 4-J-S
R-1550
48.0

48.3 STA 48+18.86 'FN', 18.5' RT
INLETS 2x3-H-S
R-3067-7004-VB

49.0 STA 49+56.78 'FN', 29.1' RT
MANHOLES 4-J-S
R-1550

49.1 STA 49+56.66 'FN', 37.3' RT
APRON ENDWALLS FOR RCP 12-INCH

FIBER OPTIC

CONTRACTOR SHALL CONTACT RAY SCHNEIDER (608-347-3628 OR RAYS@MADSEWER.ORG) FIVE DAYS PRIOR TO CROSSING MMSD FACILITIES TO ARRANGE FOR INSPECTION OF CROSSINGS

ST MH 47.0
STA 47+70.81 'FN'
O/S 27.3' RT
DIA 96"
RIM EL = 962.81
INV EL = 956.25, 60" S
INV EL = 958.80, 24" N

ST MH 48.0
STA 48+01.71 'FN'
O/S 26.6' RT
DIA 48"
RIM EL = 962.65
INV EL = 959.06, 24" N
INV EL = 958.95, 24" S
INV EL = 959.32, 12" W

EXISTING GROUND OVER STORM

PROPOSED GROUND OVER STORM

P47.2.0
281' 60" CORRUGATED HDPE PIPE @ -0.18%

P48.5
31' 24" CLASS IV RCP @ 0.50%

P49.0
156' 24" CLASS IV RCP @ 0.27%

P52.4.0
278' 24" CLASS IV RCP @ 0.32%

MMSD 20" DI FM CROSSING
APPROX INV EL = 953.50
APPROX TOP EL = 955.17

EXISTING ELEVATION

FINISHED ELEVATION

963.87	964.60	963.82	964.45	963.89	964.03	963.11	963.52	963.37	963.01	965.25	962.65	971.57	962.63	963.48	962.86	961.55	963.12	964.90	963.35	965.34	963.50	964.18	963.73

970 965 960 955

45+75.00 46+00.00 47+00.00 48+00.00 49+00.00 50+00.00 51+00.00

THE CITY OF Fitchburg PUBLIC WORKS

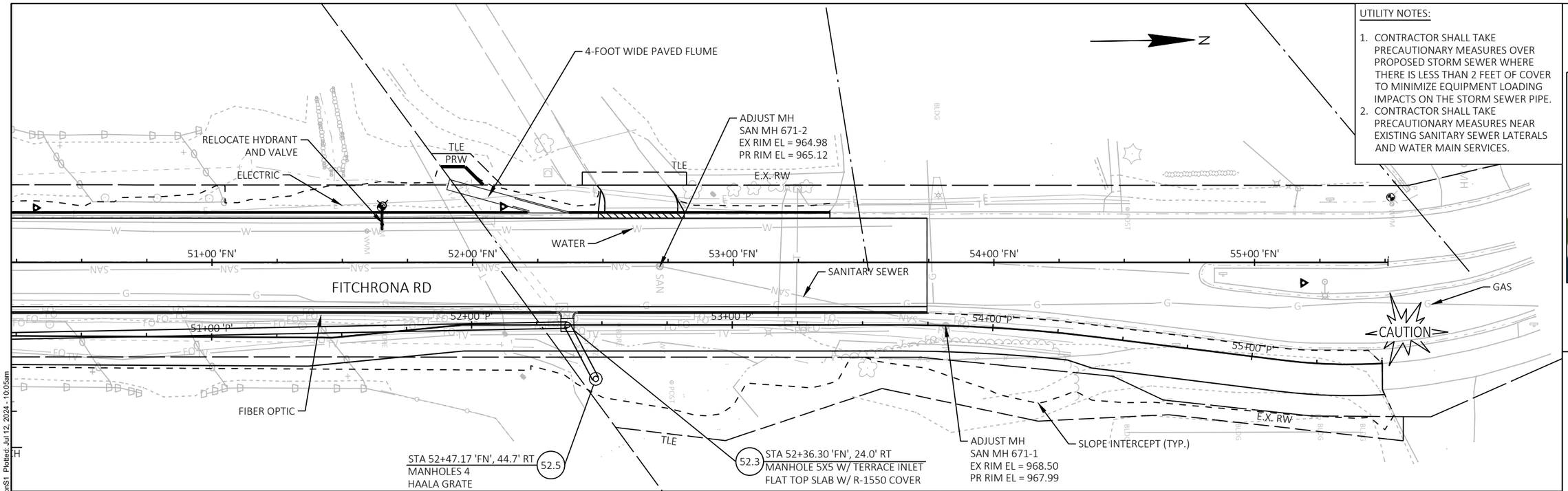
UTILITIES
FITCHRONA ROAD

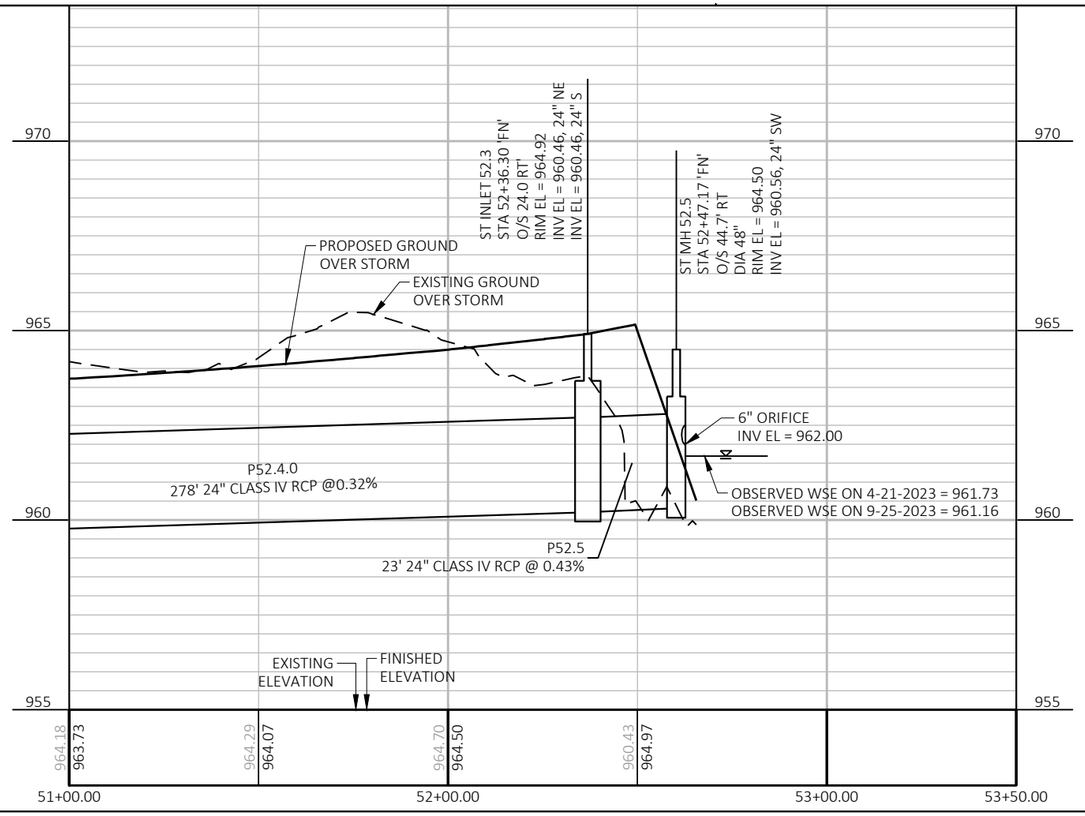
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SHEET NO.: C-276			

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UTILITY NOTES:

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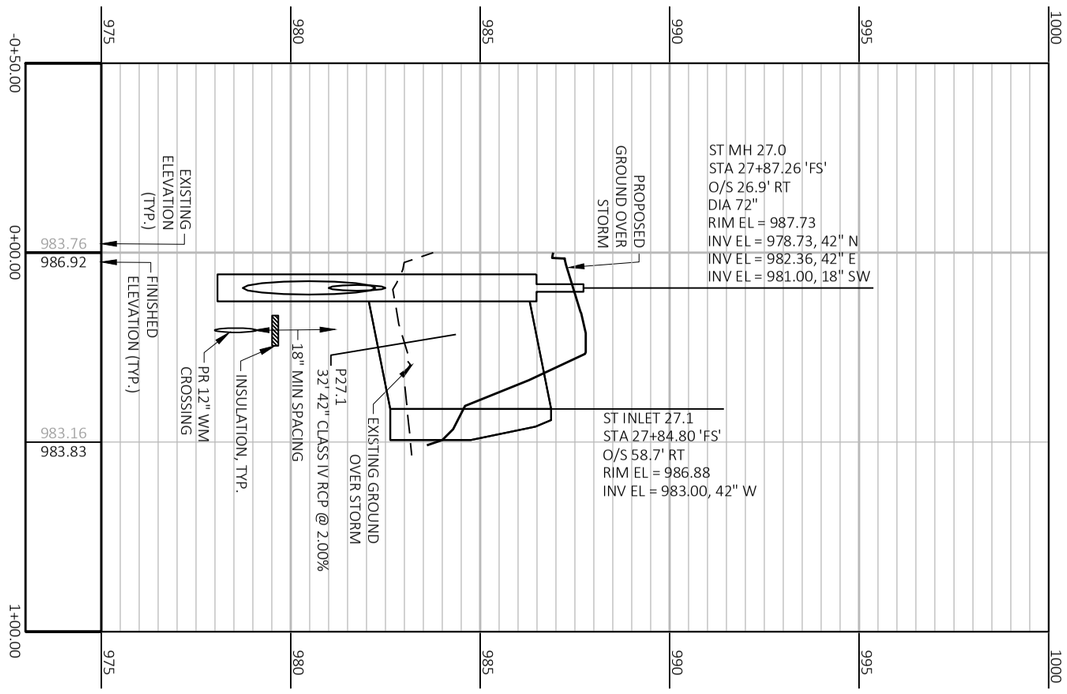


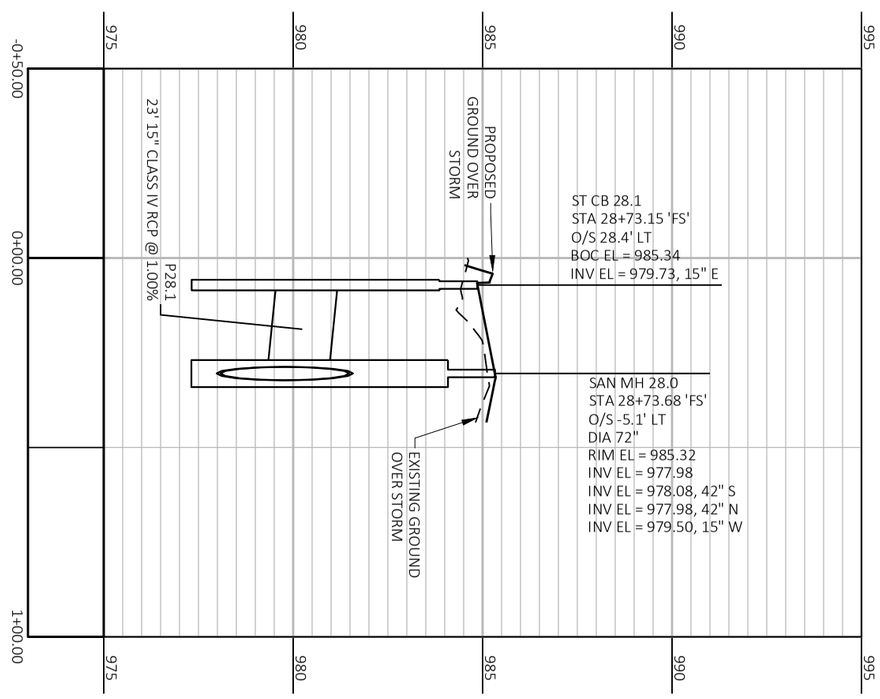
THE CITY OF Fitchburg PUBLIC WORKS

UTILITIES
FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE: 1 IN:40 FT
SHEET NO.: C-277	DATE: JULY 2024
	REVISION: 100% PLANS

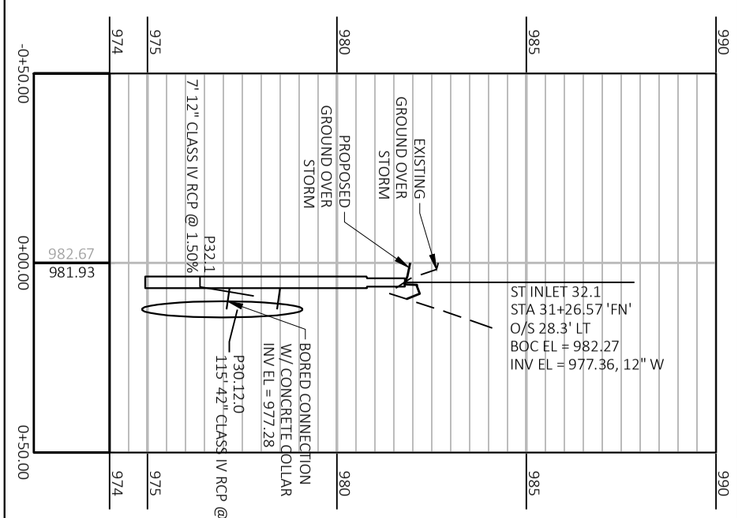
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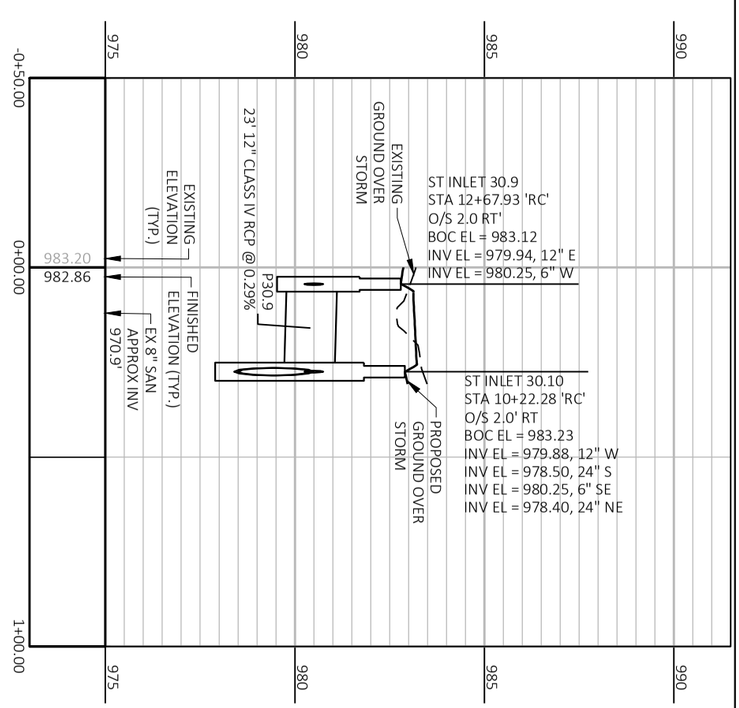


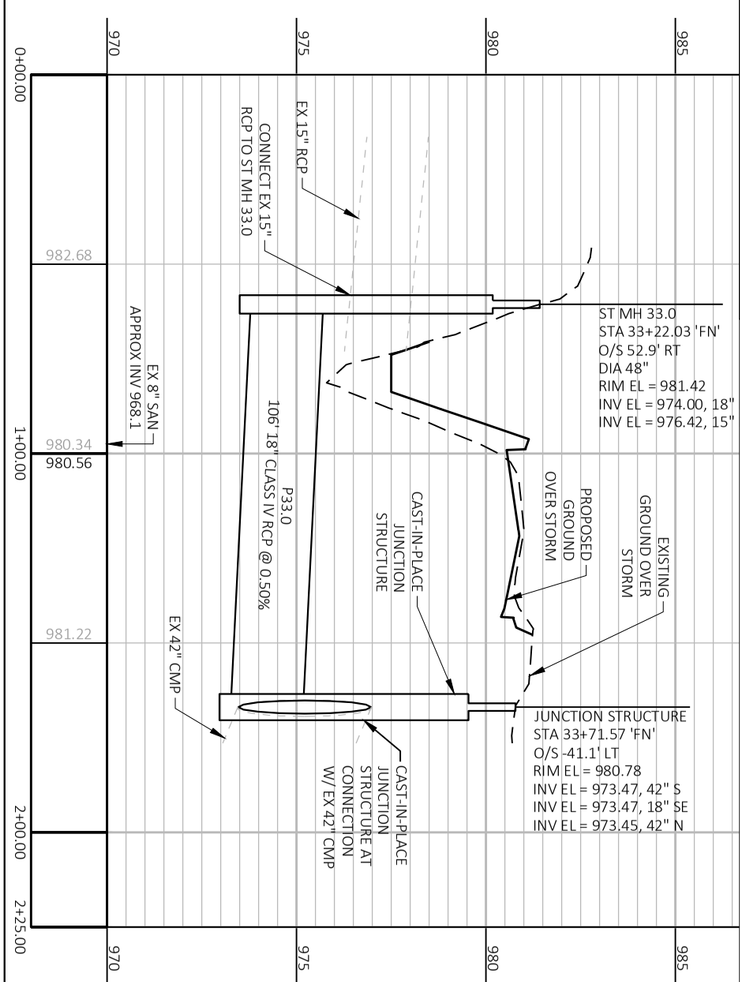


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SHEET NO.: **C-278**	DATE: JULY 2024		
	REVISION: 100% PLANS		

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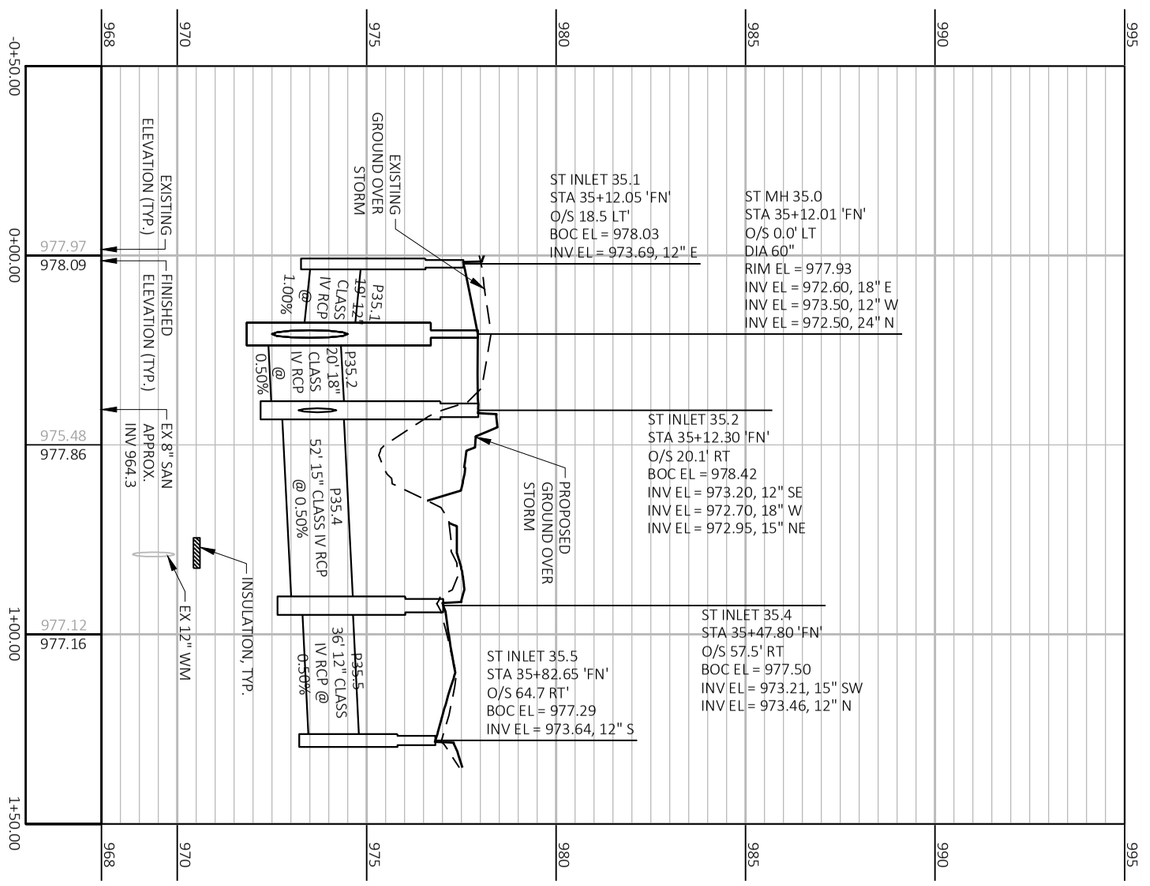


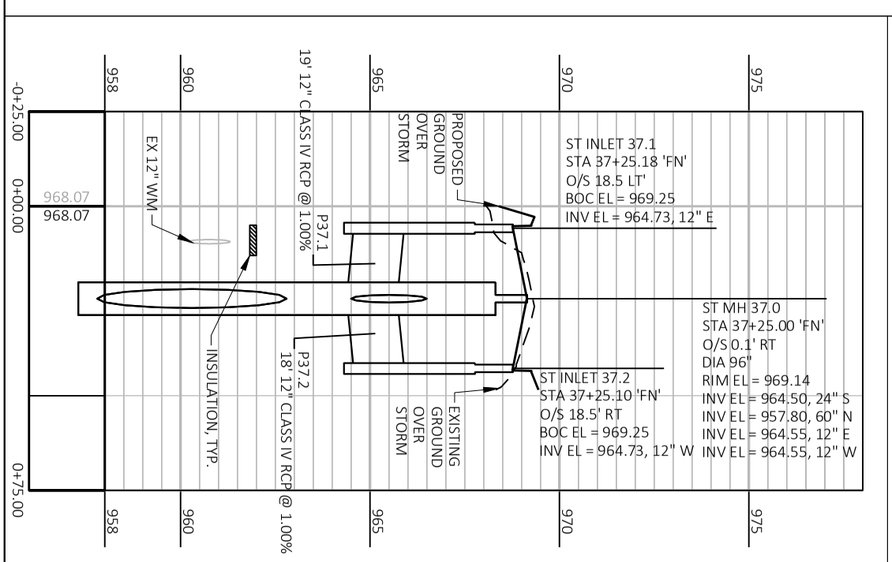


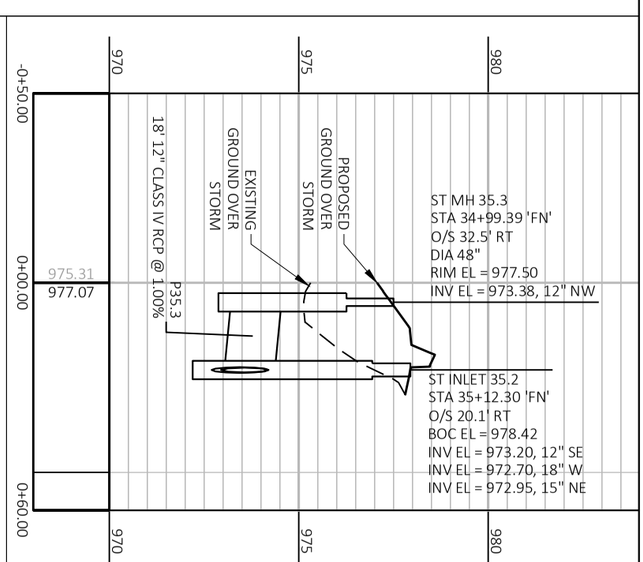


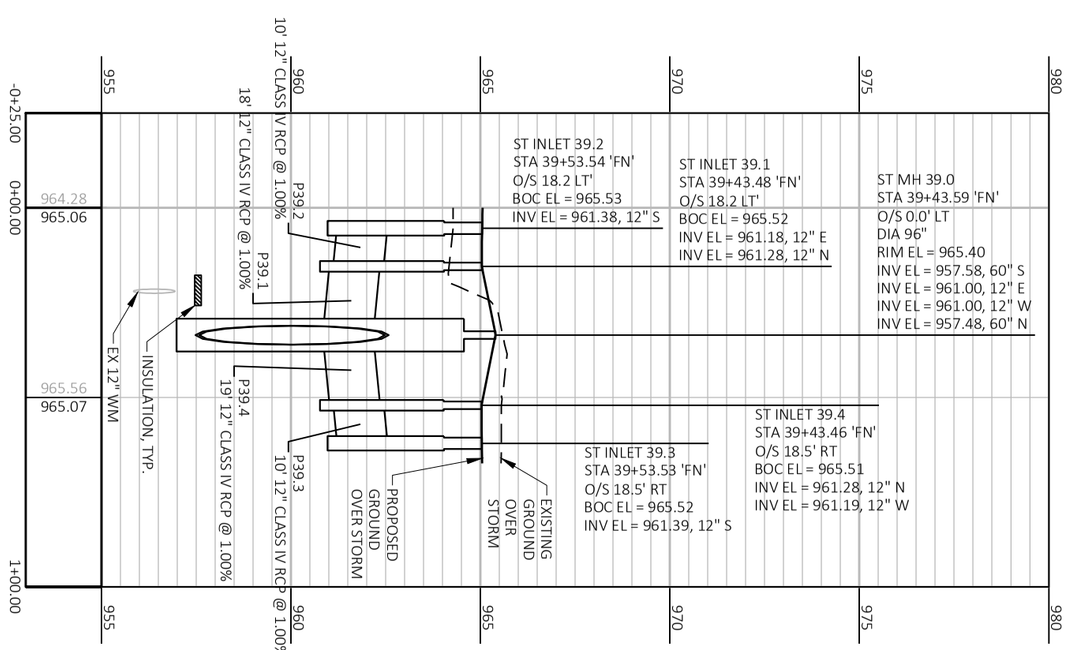
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SHEET NO.: **C-279**	DATE: JULY 2024	
	REVISION: 100% PLANS	THE CITY OF Fitchburg PUBLIC WORKS

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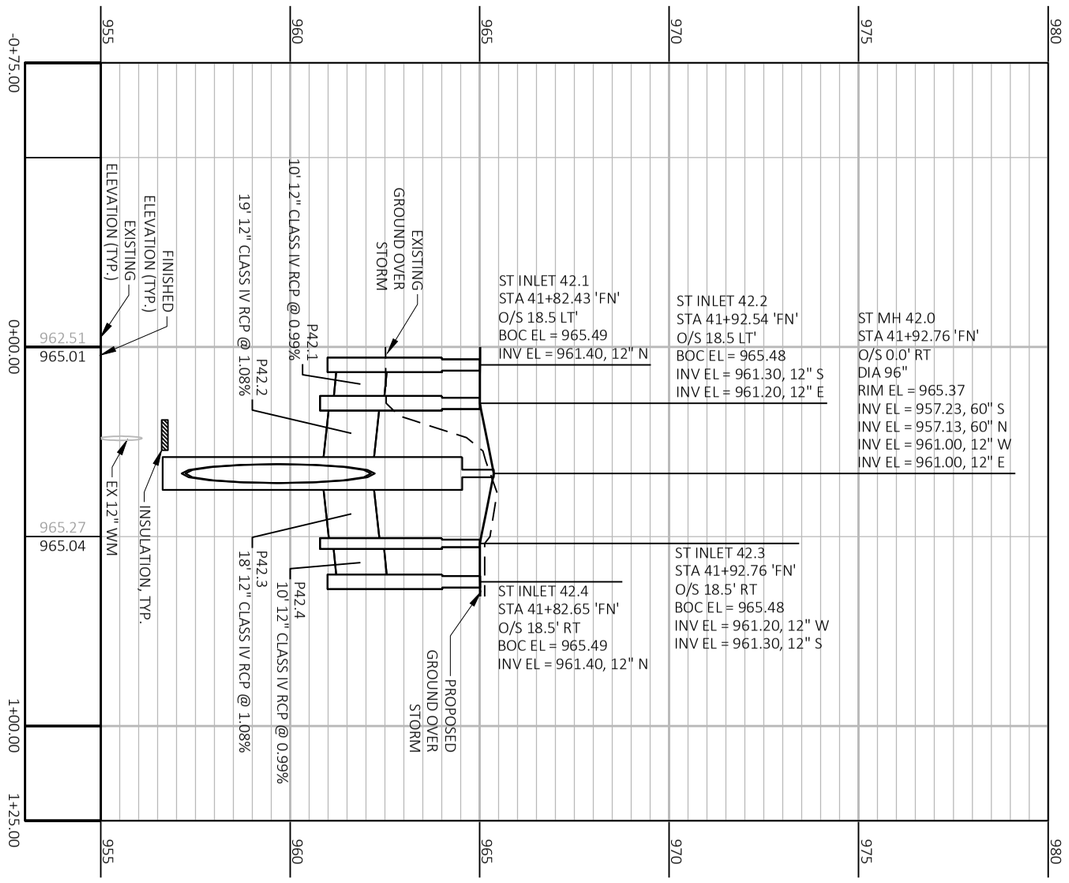


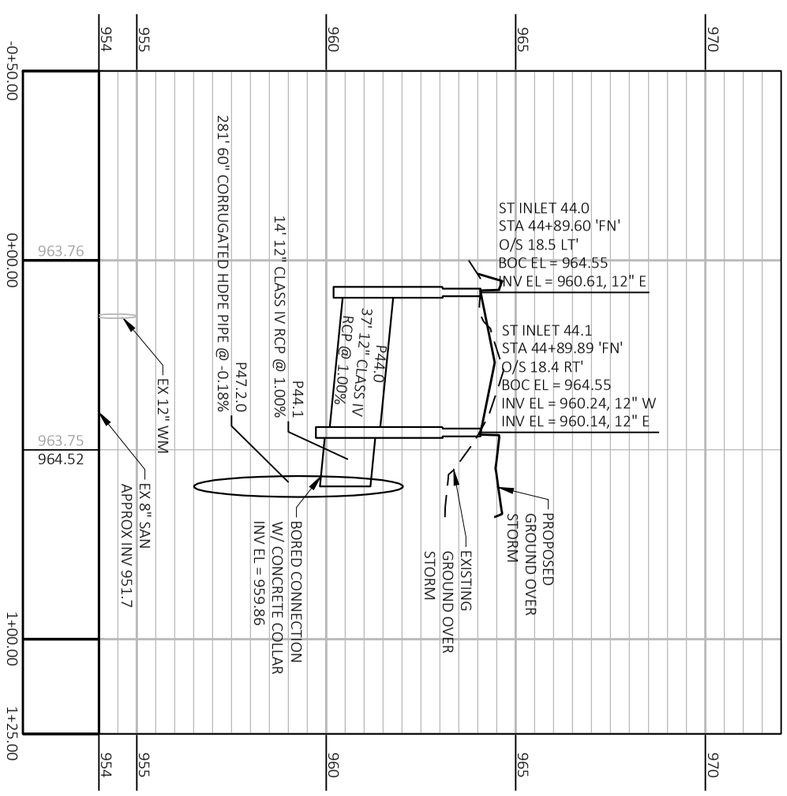


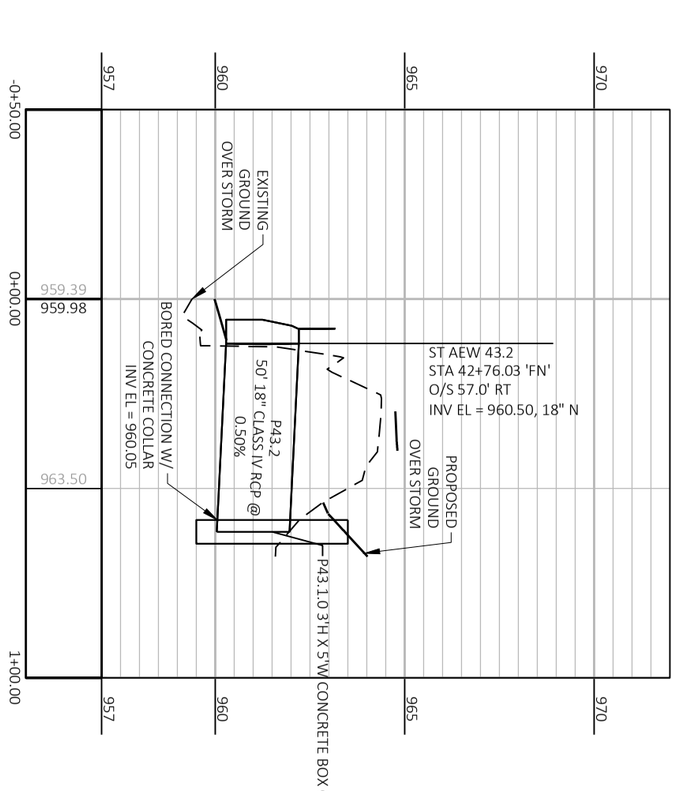




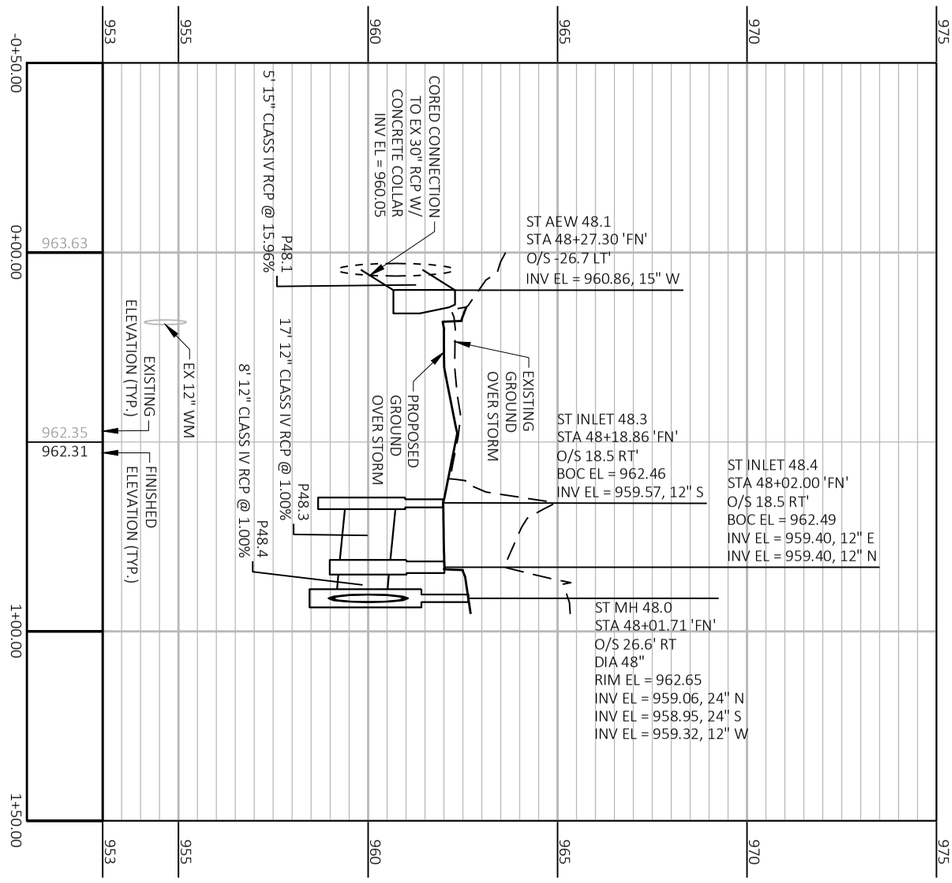
PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	UTILITIES FITCHRONA ROAD	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-280**	DATE: JULY 2024		
	REVISION: 100% PLANS		

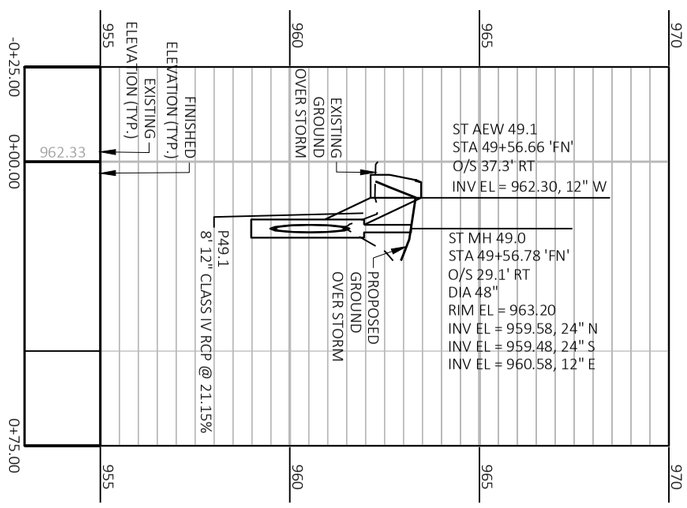






PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	UTILITIES FITCHRONA ROAD
SHEET NO.: **C-281**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

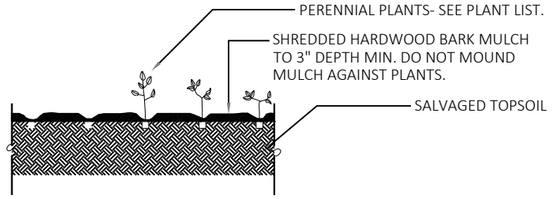


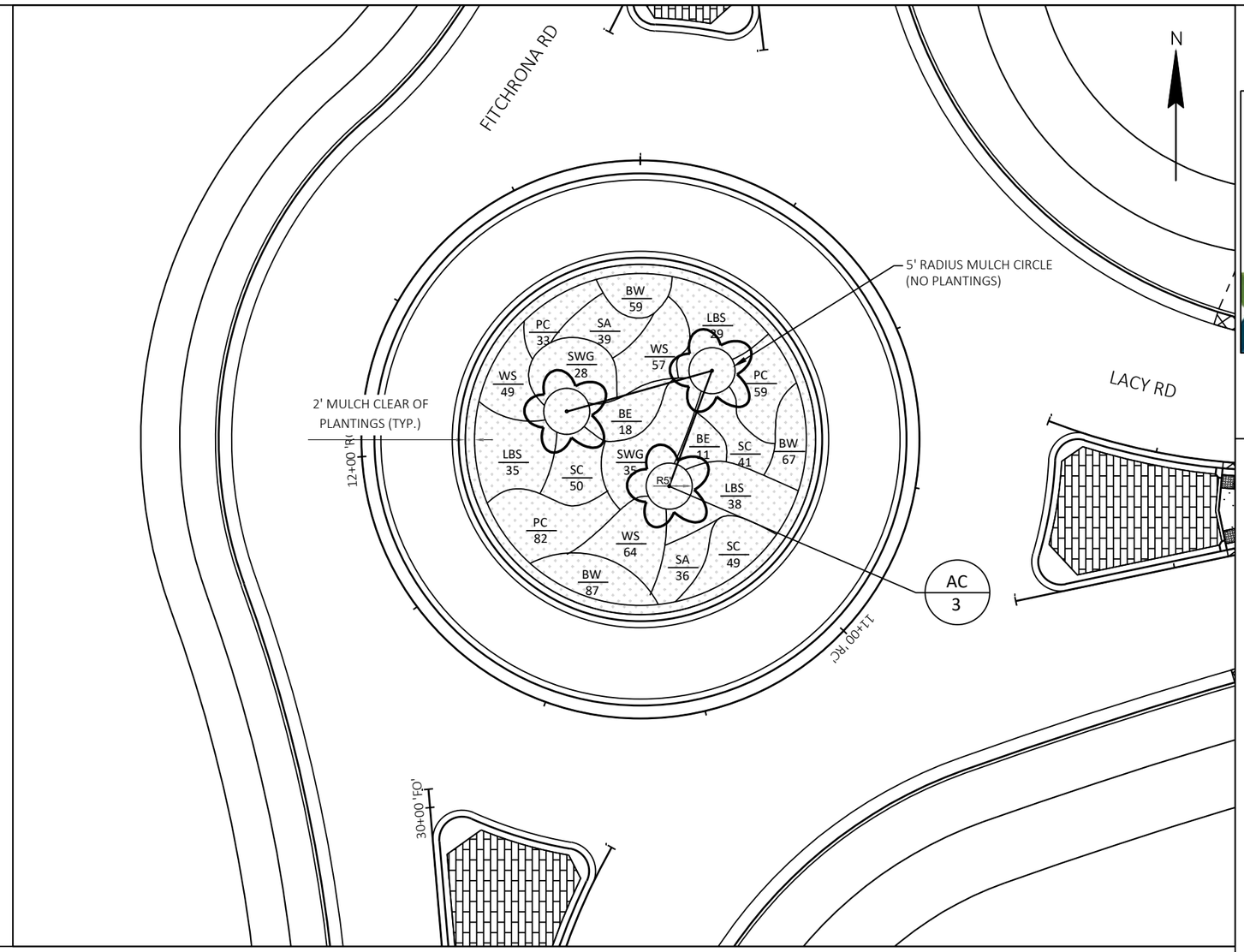


PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	UTILITIES FITCHRONA ROAD	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-282**	DATE: JULY 2024		
	REVISION: 100% PLANS		

PERENNIAL PLANTING DETAIL

NOTES:
-KEEP CONTAINERS ON PLANTS UNTIL READY TO INSTALL TO MINIMIZE ROOT DAMAGE FROM EXPOSURE TO AIR. GENTLY LOOSEN ROOTS ON ROOTBOUND PLANTS. SEVERELY ROOTBOUND PLANTS WILL BE REJECTED.
-WATER PLANTS THOROUGHLY AFTER PLANTING TO SETTLE SOIL.





LACY/SEMINOLE RAB - PLANT LIST						
PLANT TYPE	QTY	SYMBOL	COMMON NAME	LATIN NAME	CONDITION	SPACING
Small Tree	3	AC	Amelanchier x grandiflora 'Aumtumn Brillance'	Amalanchier x grandiflora ' Grandiflora'	B&B, 6', multi-stem	Per Plan
Perennial	29	BE	Bergamot (3-5' tall) -purple	Mondara fostulosa	B&B, 6', multi-stem	36" O.C. staggered
Perennial	213	BW	Butterfly Weed (1-2' tall) - orange	Asclepias tuberosa	1 GAL	18" O.C staggered
Perennial	170	WS	Western Sunflower (2-3' tall) - yellow	Helianthus occidentalis	1 GAL	24" O.C staggered
Perennial	174	PC	Purple Coneflower (3-4' tall) -purple	Echinacea purpea	1 GAL	24" O.C staggered
Perennial	75	SA	Sky Blue Aster (2-3' tall) -lavendar	Symphyotrichum oolentangiense	1 GAL	24" O.C staggered
Perennial	140	SC	Stiff Coreopsis (2-3' tall) - yellow	Coreopsis palmata	1 GAL	24" O.C staggered
Ornamental Grass	102	LBS	Little Bluestem (2-3' tall)	Schizachyrium scoparium	1 GAL	36" O.C. staggered
Ornamental Grass	63	SWG	Switchgrass (3-6' tall)	Panicum virgatum 'Heavy Metal'	1 GAL	36" O.C. staggered
Mulch	4,537 SF	---	Shredded Hardwood Bark Mulch	---	---	---

LEGEND

DECIDUOUS SMALL TREE

HARDWOOD BARK MULCH

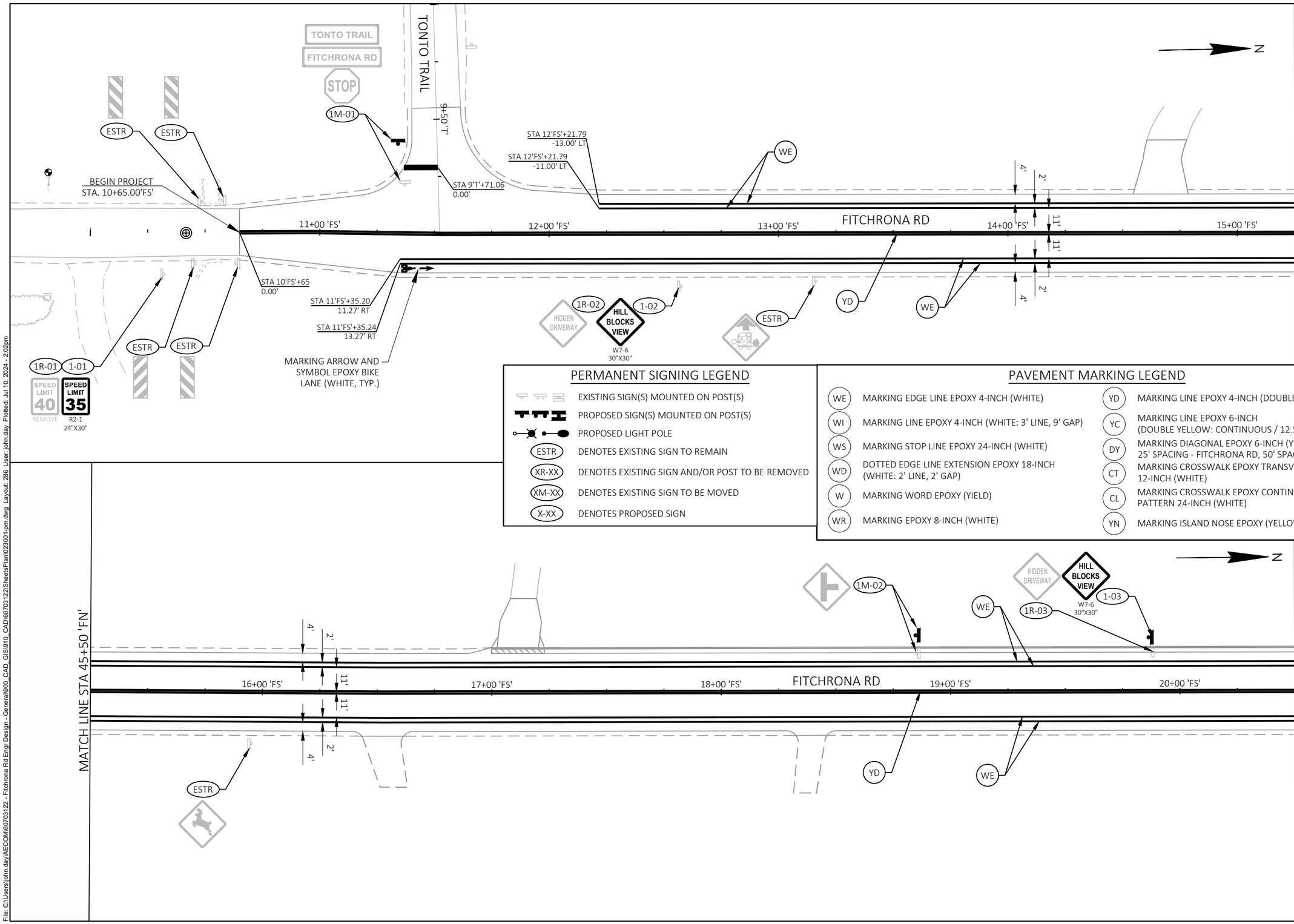
ABC / XX — PLANT SYMBOL / QUANTITY

THE CITY OF Fitchburg PUBLIC WORKS

LANDSCAPING
FITCHRONA ROAD

SCALE: 1 IN:20 FT
DATE: JULY 2024
REVISION: 100% PLANS
PROJECT NO.: 60703122
SHEET NO.: C-285

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PERMANENT SIGNING LEGEND

- EXISTING SIGN(S) MOUNTED ON POST(S)
- PROPOSED SIGN(S) MOUNTED ON POST(S)
- PROPOSED LIGHT POLE
- (ESTR) DENOTES EXISTING SIGN TO REMAIN
- (XR-XX) DENOTES EXISTING SIGN AND/OR POST TO BE REMOVED
- (XM-XX) DENOTES EXISTING SIGN TO BE MOVED
- (X-XX) DENOTES PROPOSED SIGN

PAVEMENT MARKING LEGEND

- (WE) MARKING EDGE LINE EPOXY 4-INCH (WHITE)
- (WI) MARKING LINE EPOXY 4-INCH (WHITE: 3' LINE, 9' GAP)
- (WS) MARKING STOP LINE EPOXY 24-INCH (WHITE)
- (WD) DOTTED EDGE LINE EXTENSION EPOXY 18-INCH (WHITE: 2' LINE, 2' GAP)
- (W) MARKING WORD EPOXY (YIELD)
- (WR) MARKING EPOXY 8-INCH (WHITE)
- (YD) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (YC) MARKING LINE EPOXY 6-INCH (DOUBLE YELLOW: CONTINUOUS / 12.5' LINE, 37.5' GAP)
- (DY) MARKING DIAGONAL EPOXY 6-INCH (YELLOW: 25' SPACING - FITCHRONA RD, 50' SPACING - LACY RD)
- (CT) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (CL) MARKING CROSSWALK EPOXY CONTINENTAL BLOCK PATTERN 24-INCH (WHITE)
- (YN) MARKING ISLAND NOSE EPOXY (YELLOW)

THE CITY OF Fitchburg PUBLIC WORKS

PERMANENT SIGNING & PAVEMENT MARKING

FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE: 1 IN:40 FT
SHEET NO.: C-286	DATE: JULY 2024
	REVISION: 100% PLANS

File: C:\Users\john.day\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\Sheets\Plan\023001-pm.dwg Layout: 286 User: john.day Plotted: Jul 10, 2024 - 2:02pm

PAVEMENT MARKING LEGEND

WE	MARKING EDGE LINE EPOXY 4-INCH (WHITE)	YD	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
WI	MARKING LINE EPOXY 4-INCH (WHITE: 3' LINE, 9' GAP)	YC	MARKING LINE EPOXY 6-INCH (DOUBLE YELLOW: CONTINUOUS / 12.5' LINE, 37.5' GAP)
WS	MARKING STOP LINE EPOXY 24-INCH (WHITE)	DY	MARKING DIAGONAL EPOXY 6-INCH (YELLOW: 25' SPACING - FITCHRONA RD, 50' SPACING - LACY RD)
WD	DOTTED EDGE LINE EXTENSION EPOXY 18-INCH (WHITE: 2' LINE, 2' GAP)	CT	MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
W	MARKING WORD EPOXY (YIELD)	CL	MARKING CROSSWALK EPOXY CONTINENTAL BLOCK PATTERN 24-INCH (WHITE)
WR	MARKING EPOXY 8-INCH (WHITE)	YN	MARKING ISLAND NOSE EPOXY (YELLOW)

PERMANENT SIGNING LEGEND

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THE CITY OF Fitchburg PUBLIC WORKS

PERMANENT SIGNING & PAVEMENT MARKING

FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	
SHEET NO.: C-287	DATE: JULY 2024	REVISION: 100% PLANS

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PERMANENT SIGNING LEGEND

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PAVEMENT MARKING LEGEND

(WE)	MARKING EDGE LINE EPOXY 4-INCH (WHITE)	(YD)	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
(WI)	MARKING LINE EPOXY 4-INCH (WHITE: 3' LINE, 9' GAP)	(YC)	MARKING LINE EPOXY 6-INCH (DOUBLE YELLOW: CONTINUOUS / 12.5' LINE, 37.5' GAP)
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(WD)	DOTTED EDGE LINE EXTENSION EPOXY 18-INCH (WHITE: 2' LINE, 2' GAP)	(CT)	MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
(W)	MARKING WORD EPOXY (YIELD)	(CL)	MARKING CROSSWALK EPOXY CONTINENTAL BLOCK PATTERN 24-INCH (WHITE)
(WR)	MARKING EPOXY 8-INCH (WHITE)	(YN)	MARKING ISLAND NOSE EPOXY (YELLOW)

THE CITY OF Fitchburg PUBLIC WORKS

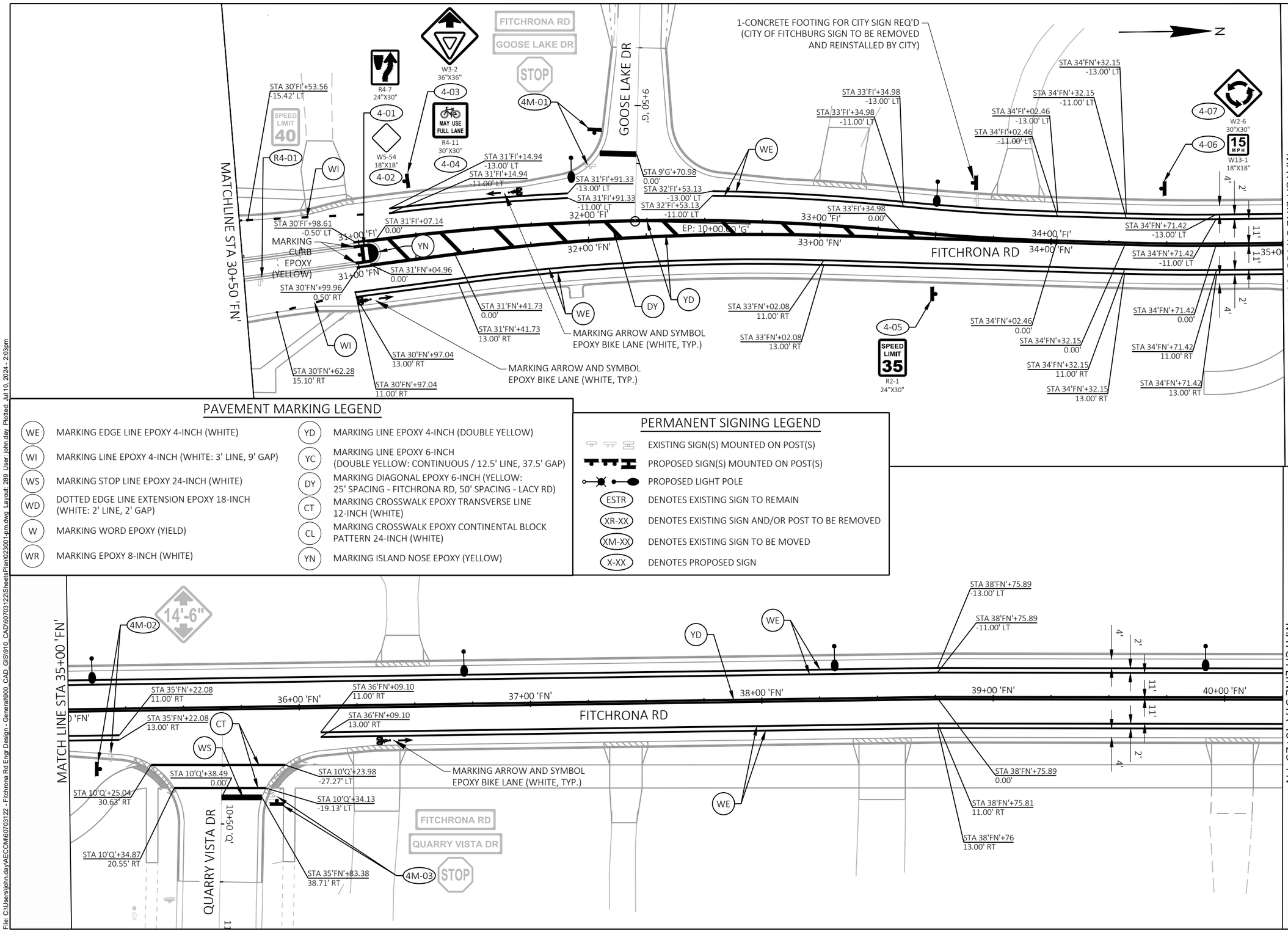
PERMANENT SIGNING & PAVEMENT MARKING

FITCHRONA ROAD

SCALE: 1 IN:20 FT
DATE: JULY 2024
REVISION: 100% PLANS

PROJECT NO.: 60703122
SHEET NO.: C-288

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PAVEMENT MARKING LEGEND

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THE CITY OF Fitchburg PUBLIC WORKS

PERMANENT SIGNING & PAVEMENT MARKING

FITCHRONA ROAD

SCALE: 1 IN:40 FT

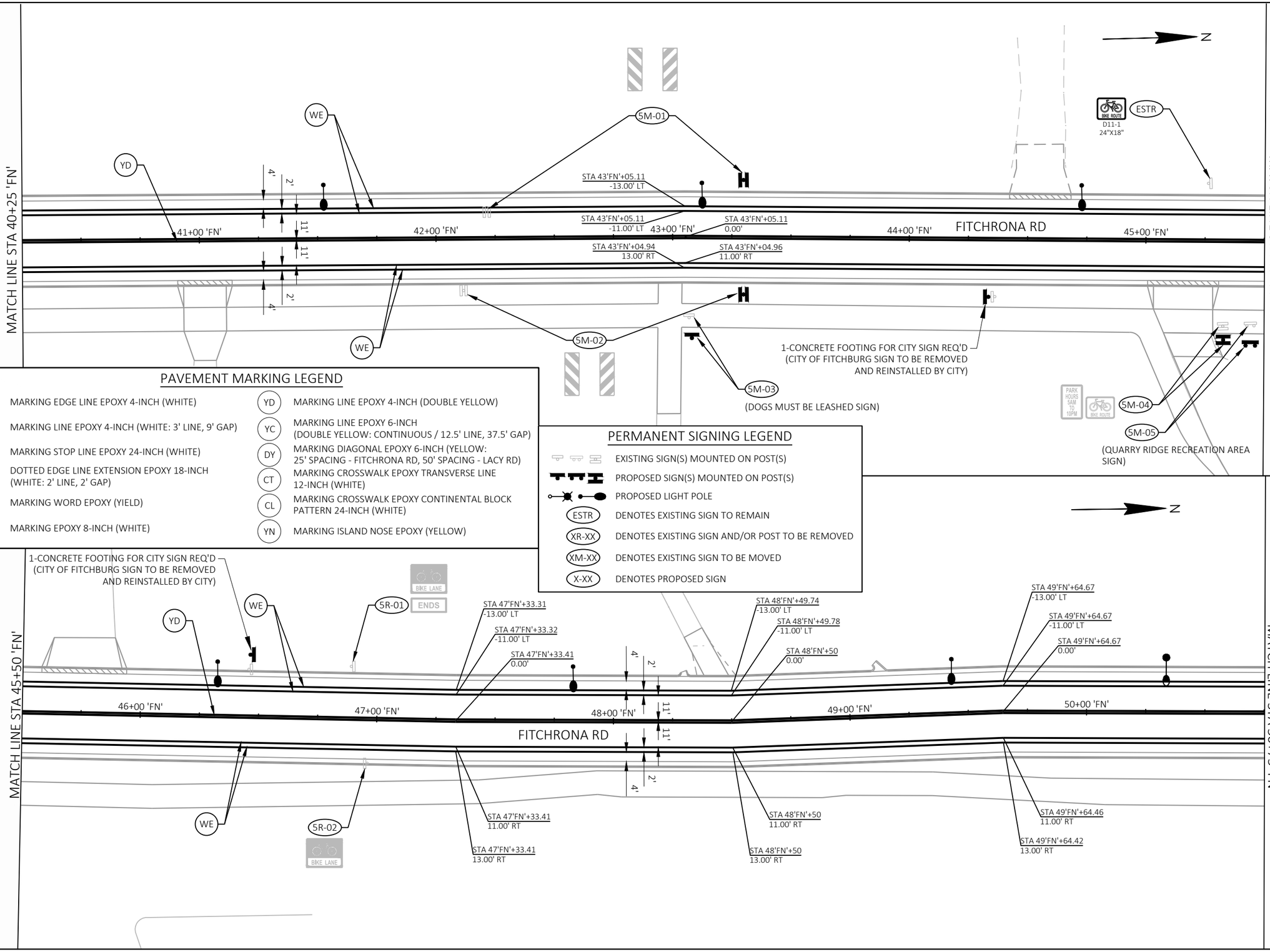
DATE: JULY 2024

REVISION: 100% PLANS

PROJECT NO.: 60703122

SHEET NO.: C-289

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THE CITY OF Fitchburg PUBLIC WORKS

PERMANENT SIGNING & PAVEMENT MARKING

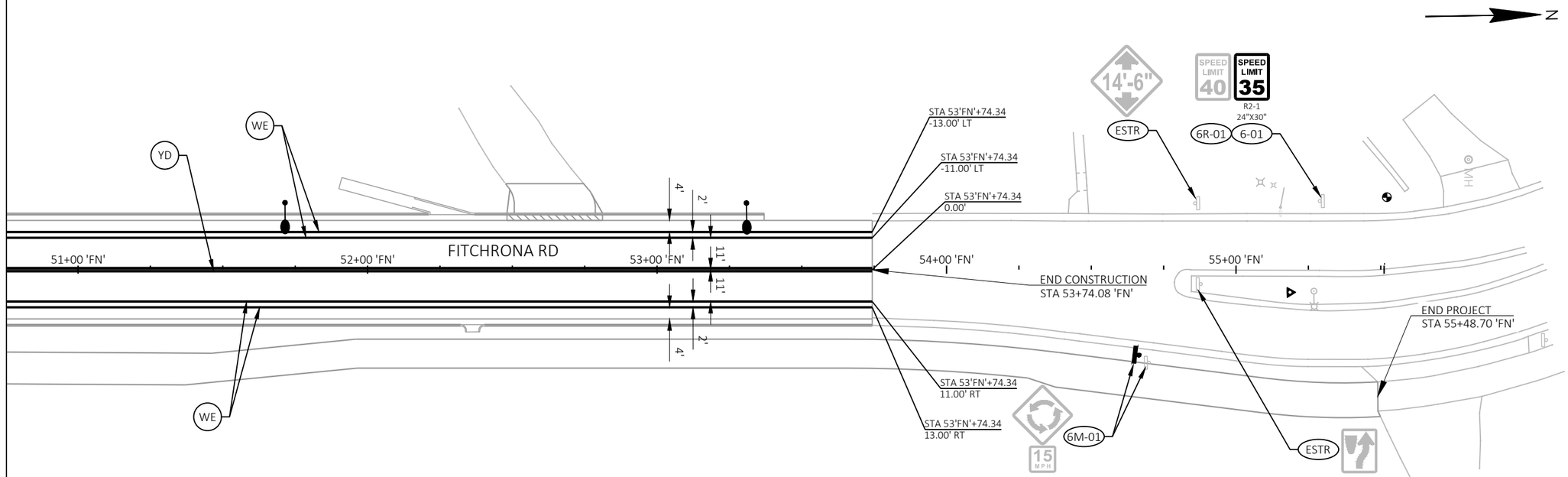
FITCHRONA ROAD

SCALE: 1 IN:40 FT	DATE: JULY 2024	REVISION: 100% PLANS

PROJECT NO.: 60703122

SHEET NO.: **C-290**

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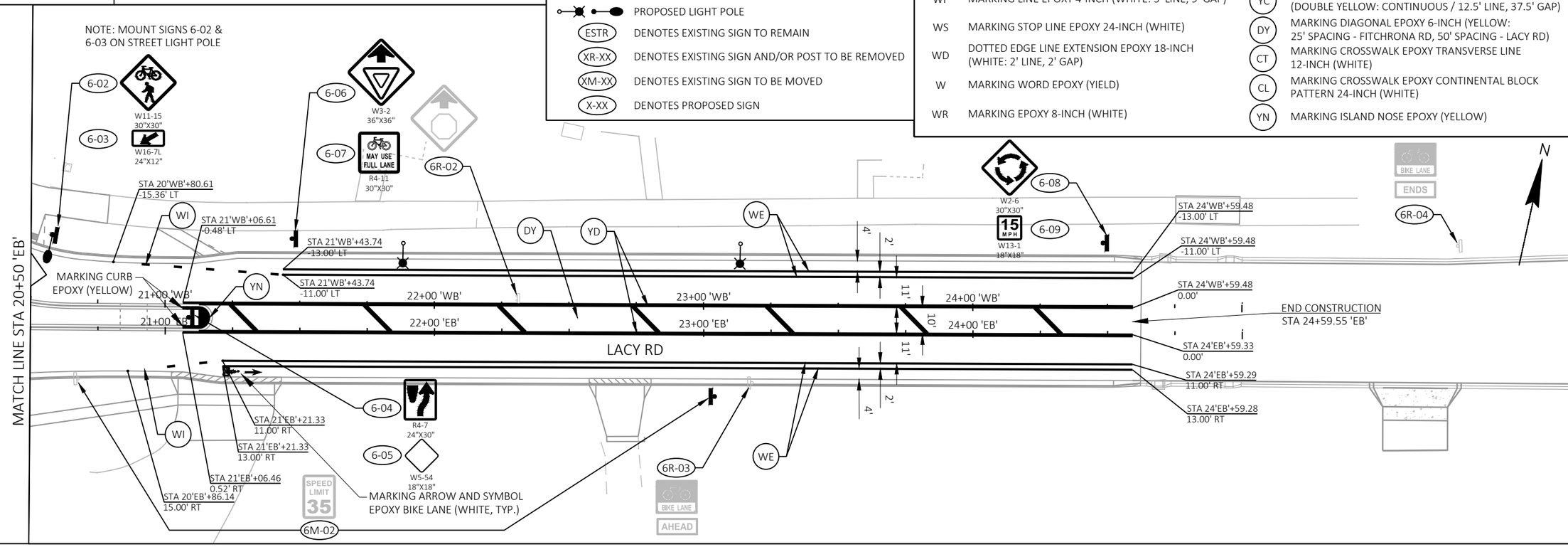


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THE CITY OF Fitchburg PUBLIC WORKS

PERMANENT SIGNING & PAVEMENT MARKING

FITCHRONA ROAD

PROJECT NO.: 60703122	SHEET NO.: C-291	SCALE: 1 IN:40 FT	DATE: JULY 2024
			REVISION: 100% PLANS

File: C:\Users\john.day\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\Sheets\Plan\023001-pm.dwg Layout: 291 User: john.day Plotted: Jul 10, 2024 - 2:03pm

SIGNING MOVES & REMOVALS

SIGN #	SIGN CODE	MOVING SIGNS TYPE II EACH	REMOVING SIGNS TYPE II EACH	MOVING SMALL SIGN SUPPORTS EACH	REMOVING SMALL SIGN SUPPORTS EACH	SIGN MOUNTED ON / SAME POST AS	DESCRIPTION
1R-01	R2-1	---	1	---	---	---	SPEED LIMIT 40 MPH
1-R02	CUSTOM	---	1	--	1	---	HIDDEN DRIVEWAY
1-R03	CUSTOM	---	1	--	1	---	HIDDEN DRIVEWAY
1M-01	R1-1	1	---	1	---	---	STOP SIGN
	D3-1	1	---	---	---	1M-01	STREET SIGN: FITCHRONA RD
	D3-1	1	---	---	---	1M-01	STREET SIGN: TONTO TRAIL
1M-02	W2-2R	1	---	1	---	---	SIDE ROAD RIGHT ANGLE SYMBOL
2R-01	R2-1	---	1	---	---	---	SPEED LIMIT 40 MPH
2M-01	R1-1	1	---	1	---	---	STOP SIGN
	D3-1	1	---	---	---	2M-01	STREET SIGN: PHEASANT LA
	D3-1	1	---	---	---	2M-01	STREET SIGN: FITCHRONA RD
3R-01	R12-53	---	1	---	1	---	WEIGHT LIMIT CLASS B
3R-02	W1-7	---	1	---	1	---	TWO-DIRECTION LARGE ARROW
3R-03	R1-1	---	1	1	1	---	STOP SIGN
	D3-1	---	1	---	---	3R-03	STREET SIGN: FITCHRONA RD
	D3-1	---	1	---	---	3R-03	STREET SIGN: LACY RD
R4-01	R2-1	---	1	---	1	---	SPEED LIMIT 40 MPH
4M-01	R1-1	1	---	1	---	---	STOP SIGN
	D3-1	1	---	---	---	4M-01	STREET SIGN: GOOSE LAKE DR
	D3-1	1	---	---	---	4M-01	STREET SIGN: FITCHRONA RD
4M-02	W12-2	1	---	1	---	---	LOW CLEARANCE SYMBOL
4M-03	R1-1	1	---	1	---	---	STOP SIGN
	D3-1	1	---	---	---	4M-03	STREET SIGN: QUARRY VISTA DR
	D3-1	1	---	---	---	4M-03	STREET SIGN: FITCHRONA RD
5M-01	W5-52R	1	---	1	---	---	BRIDGE HASH MARKS
	W5-52L	1	---	---	---	5M-01	BRIDGE HASH MARKS
5M-02	W5-52R	1	---	1	---	---	BRIDGE HASH MARKS
	W5-52L	1	---	---	---	5M-02	BRIDGE HASH MARKS
5M-03	CUSTOM	1	---	1	---	---	DOGS MUST BE LEASHED
5M-04	D11-1	1	---	1	---	---	BIKE ROUTE W/ SYMBOL
	R7-2 MOD	1	---	---	---	5M-04	PARK HOURS 5AM TO 10PM
5M-05	CUSTOM	1	---	1	---	---	QUARRY RIDGE RECREATION AREA
5R-01	R3-17BP	---	1	---	1	---	BIKE LANE
	R3-17	---	1	---	---	5R-01	ENDS
5R-02	R3-17BP	---	1	---	1	---	BIKE LANE
6R-01	R2-1	---	1	---	---	---	SPEED LIMIT 40 MPH
6M-01	W2-6	1	---	---	---	---	ROUNDABOUT AHEAD
	W13-1	1	---	---	---	6M-01	ADVISORY SPEED PLATE (YELLOW BACK)
6M-02	R2-1	1	---	1	---	---	SPEED LIMIT 35 MPH
6R-02	W3-1	---	1	---	2	---	STOP AHEAD
6R-03	R3-17	---	1	---	1	---	BIKE LANE
	R3-17AP	---	1	---	---	6R-03	AHEAD
6R-04	R3-17	---	1	---	1	---	BIKE LANE
	R3-17BP	---	1	---	---	6R-04	ENDS
PROJECT TOTAL		**25**	**19**	**13**	**12**		

THE CITY OF Fitchburg PUBLIC WORKS

PERMANENT SIGNING & PAVEMENT MARKING

FITCHRONA ROAD

PROJECT NO.: 60703122

SCALE:

DATE: JULY 2024

REVISION: 100% PLANS

SHEET NO.: **C-292**

File: C:\Users\john.day\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\0223001-pm.dwg Layout: 292 User: john.day Plotted: Jul 10, 2024 - 2:03pm

PERMANENT SIGNING

SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE W		SIGN SIZE H	SIGNS TYPE II REFLECTIVE H SF	SIGNS TYPE II REFLECTIVE SH SF	SIGNS TYPE II REFLECTIVE F SF	POSTS WOOD 4X4-INCH 12-FT EACH	POSTS WOOD 4X4-INCH 16-FT EACH	POSTS GALVANIZED STEEL 2 3/8-INCH DIAMETER 10-FT EACH	POSTS GALVANIZED STEEL 2 3/8-INCH DIAMETER 11-FT EACH	POSTS GALVANIZED STEEL 2 3/8-INCH DIAMETER 14-FT EACH	V-LOC SIGN BASE EACH	SIGN MOUNTED ON / SAME POST AS	DESCRIPTION
1-01	R2-1	2S	24	X	30	5.00	---	---	---	---	---	---	---	---	---	SPEED LIMIT 35 MPH
1-02	W7-6	2S	30	X	30	---	---	6.25	---	1	---	---	---	---	---	HILL BLOCKS VIEW
1-03	W7-6	2S	30	X	30	---	---	6.25	---	1	---	---	---	---	---	HILL BLOCKS VIEW
2-01	R2-1	2S	24	X	30	5.00	---	---	---	---	---	---	---	---	---	SPEED LIMIT 35 MPH
2-02	W2-6	2S	30	X	30	---	---	6.25	---	1	---	---	---	---	2-03	ROUNDABOUT AHEAD
2-03	W13-1	2S	18	X	18	---	---	2.25	---	---	---	---	---	---	2-02	ADVISORY SPEED PLATE (YELLOW BACK)
2-04	W5-56	2S	18	X	18	---	2.25	---	1	---	---	---	---	---	---	END OF PATH MARKER
2-05	W3-2	2S	36	X	36	---	---	9.00	---	1	---	---	---	---	2-06	YIELD AHEAD
2-06	R4-11	2S	30	X	30	6.25	---	---	---	---	--	--	--	--	2-05	BIKE MAY USE FULL LANE
2-07	R4-7	2S	24	X	30	5.00	---	---	---	---	---	1	---	1	2-08	KEEP RIGHT
2-08	W5-54	2S	18	X	18	---	---	2.25	---	---	---	---	---	---	2-07	IN ROAD OBJECT MARKET
3-01	W11-15	2S	30	X	30	---	---	6.25	---	1	---	---	---	---	3-02	TRAIL CROSSING (BIKE AND PED SYMBOL)
3-02	W16-7L	2S	24	X	12	---	---	2.00	---	---	---	---	---	---	3-01	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
3-03	D1-1	CUSTOM	88	X	15	9.17	---	---	---	---	2	---	---	2	---	ONE DESTINATION (ARROW): FITCHRONA RD
3-04	R1-2	2S	36	X	31	3.88	---	---	---	---	---	---	1	1	3-05	YIELD
3-05	R6-2R	2S	24	X	30	5.00	---	---	---	---	---	---	---	---	3-04	ONE WAY RIGHT ARROW
3-06	W11-15	2S	30	X	30	---	---	6.25	---	1	---	---	---	---	3-07	TRAIL CROSSING (BIKE AND PED SYMBOL)
3-07	W16-7L	2S	24	X	12	---	---	2.00	---	---	---	---	---	---	3-06	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
3-08	R1-2	2S	36	X	31	3.88	---	---	---	1	---	---	---	---	3-09	YIELD
3-09	R1-54	2S	24	X	15	2.50	---	---	---	---	---	---	---	---	3-08	TO TRAFFIC FROM LEFT
3-10	W11-15	2S	30	X	30	---	---	6.25	---	1	---	---	---	---	3-11	TRAIL CROSSING (BIKE AND PED SYMBOL)
3-11	W16-7L	2S	24	X	12	---	---	2.00	---	---	---	---	---	---	3-10	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
3-12	D1-1	CUSTOM	69	X	15	7.19	---	---	---	---	2	---	---	2	---	ONE DESTINATION (ARROW): LACY ROAD
3-13	R1-2	2S	36	X	31	3.88	---	---	---	---	---	---	1	1	3-14	YIELD
3-14	R6-2R	2S	24	X	30	5.00	---	---	---	---	---	---	---	---	3-13	ONE WAY RIGHT ARROW
3-15	R1-2	2S	36	X	31	3.88	---	---	---	1	---	---	---	---	3-16	YIELD
3-16	R1-54	2S	24	X	15	2.50	---	---	---	---	---	---	---	---	3-15	TO TRAFFIC FROM LEFT
3-17	W11-15	2S	30	X	30	---	---	6.25	---	1	---	---	---	---	3-18	TRAIL CROSSING (BIKE AND PED SYMBOL)
3-18	W16-7L	2S	24	X	12	---	---	2.00	---	---	---	---	---	---	3-17	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
3-19	D1-1	CUSTOM	88	X	15	9.17	---	---	---	---	2	---	---	2	---	ONE DESTINATION (ARROW): FITCHRONA RD
3-20	R1-2	2S	36	X	31	3.88	---	---	---	---	---	---	1	1	3-21	YIELD
3-21	R6-2R	2S	24	X	30	5.00	---	---	---	---	---	---	---	---	3-20	ONE WAY RIGHT ARROW
3-22	W11-15	2S	30	X	30	---	---	6.25	---	---	---	---	---	---	SL007, 3-23	TRAIL CROSSING (BIKE AND PED SYMBOL)
3-23	W16-7L	2S	24	X	12	---	---	2.00	---	---	---	---	---	---	SL007, 3-22	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
3-24	R1-2	2S	36	X	31	3.88	---	---	---	1	---	---	---	---	3-25	YIELD
3-25	R1-54	2S	24	X	15	2.50	---	---	---	---	---	---	---	---	3-24	TO TRAFFIC FROM LEFT
3-26	R6-4B	2S	60	X	24	10.00	---	---	---	2	---	---	---	---	3-27	ROUNDABOUT CHEVRON BANK
3-27	R6-1R	2S	36	X	12	3.00	---	---	---	---	---	---	---	---	3-26	ONE WAY RIGHT ARROW (ROUNDABOUTS)
3-28	R6-4B	2S	60	X	24	10.00	---	---	---	2	---	---	---	---	3-29	ROUNDABOUT CHEVRON BANK
3-29	R6-1R	2S	36	X	12	3.00	---	---	---	---	---	---	---	---	3-28	ONE WAY RIGHT ARROW (ROUNDABOUTS)
3-30	R6-4B	2S	60	X	24	10.00	---	---	---	2	---	---	---	---	3-31	ROUNDABOUT CHEVRON BANK
3-31	R6-1R	2S	36	X	12	3.00	---	---	---	---	---	---	---	---	3-30	ONE WAY RIGHT ARROW (ROUNDABOUTS)
4-01	R4-7	2S	24	X	30	5.00	---	---	---	---	---	1	---	1	4-02	KEEP RIGHT
4-02	W5-54	2S	18	X	18	---	---	2.25	---	---	---	---	---	---	4-01	IN ROAD OBJECT MARKET
4-03	W3-2	2S	36	X	36	---	---	9.00	---	1	---	---	---	---	4-04	YIELD AHEAD
4-04	R4-11	2S	30	X	30	6.25	---	---	---	---	---	---	---	---	4-03	BIKE MAY USE FULL LANE
4-05	R2-1	2S	24	X	30	5.00	---	---	---	1	---	---	---	---	---	SPEED LIMIT 35 MPH
4-06	W13-1	2S	18	X	18	---	---	2.25	---	1	---	---	---	---	4-07	ADVISORY SPEED PLATE (YELLOW BACK)
4-07	W2-6	2S	30	X	30	---	---	6.25	---	---	---	---	---	---	4-06	ROUNDABOUT AHEAD
6-01	R2-1	2S	24	X	30	5.00	---	---	---	---	---	---	---	---	---	SPEED LIMIT 35 MPH
6-02	W11-15	2S	30	X	30	---	---	6.25	---	---	---	---	---	---	SL003, 6-03	TRAIL CROSSING (BIKE AND PED SYMBOL)
6-03	W16-7L	2S	24	X	12	---	---	2.00	---	---	---	---	---	---	SL003, 6-02	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
6-04	R4-7	2S	24	X	30	5.00	---	---	---	---	---	1	---	1	6-05	KEEP RIGHT
6-05	W5-54	2S	18	X	18	---	---	2.25	---	---	---	---	---	---	6-04	IN ROAD OBJECT MARKET
6-06	W3-2	2S	36	X	36	---	---	9.00	---	1	---	---	---	---	6-07	YIELD AHEAD
6-07	R4-11	2S	30	X	30	6.25	---	---	---	---	--	--	--	--	6-06	BIKE MAY USE FULL LANE
6-08	W2-6	2S	30	X	30	---	---	6.25	---	1	---	---	---	---	6-09	ROUNDABOUT AHEAD
6-09	W13-1	2S	18	X	18	---	---	2.25	---	---	---	---	---	---	6-08	ADVISORY SPEED PLATE (YELLOW BACK)
PROJECT TOTAL						**164**	**2**	**121**	**1**	**22**	**6**	**3**	**3**	**12**		

THE CITY OF Fitchburg PUBLIC WORKS

PERMANENT SIGNING & PAVEMENT MARKING

FITCHRONA ROAD

SCALE:

DATE: JULY 2024

REVISION: 100% PLANS

PROJECT NO.: 60703122

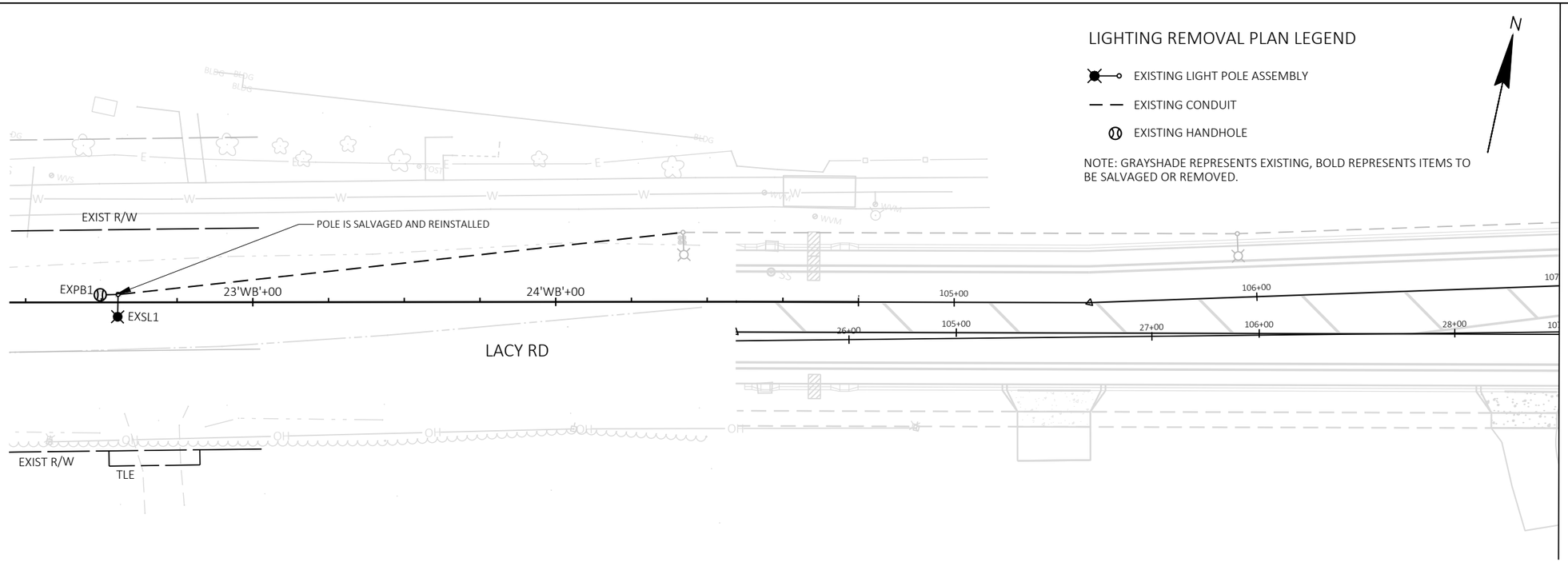
SHEET NO.: **C-293**

File: C:\Users\john.day\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\0223001-pm.dwg Layout: 293 User: john.day Plotted: Jul 10, 2024 - 2:03pm

LIGHTING REMOVAL PLAN LEGEND

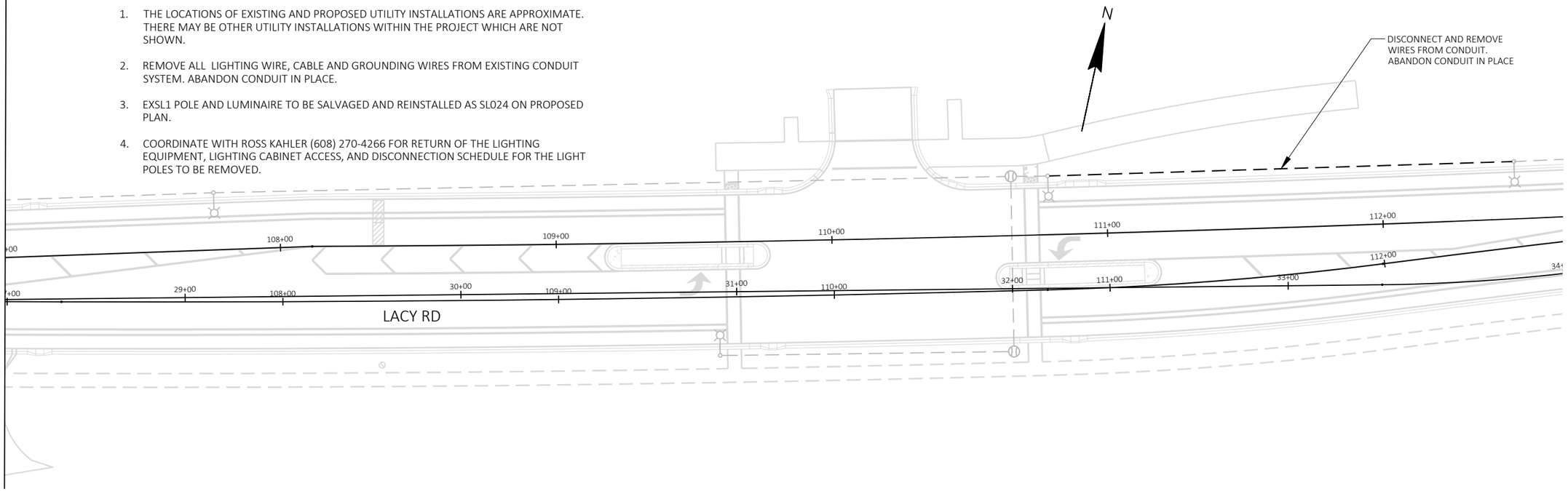
- EXISTING LIGHT POLE ASSEMBLY
- EXISTING CONDUIT
- EXISTING HANDHOLE

NOTE: GRAYSHADE REPRESENTS EXISTING, BOLD REPRESENTS ITEMS TO BE SALVAGED OR REMOVED.



NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. REMOVE ALL LIGHTING WIRE, CABLE AND GROUNDING WIRES FROM EXISTING CONDUIT SYSTEM. ABANDON CONDUIT IN PLACE.
3. EXSL1 POLE AND LUMINAIRE TO BE SALVAGED AND REINSTALLED AS SL024 ON PROPOSED PLAN.
4. COORDINATE WITH ROSS KAHLER (608) 270-4266 FOR RETURN OF THE LIGHTING EQUIPMENT, LIGHTING CABINET ACCESS, AND DISCONNECTION SCHEDULE FOR THE LIGHT POLES TO BE REMOVED.



THE CITY OF Fitchburg PUBLIC WORKS

LIGHTING REMOVAL PLAN

FITCHRONA / LACY ROAD

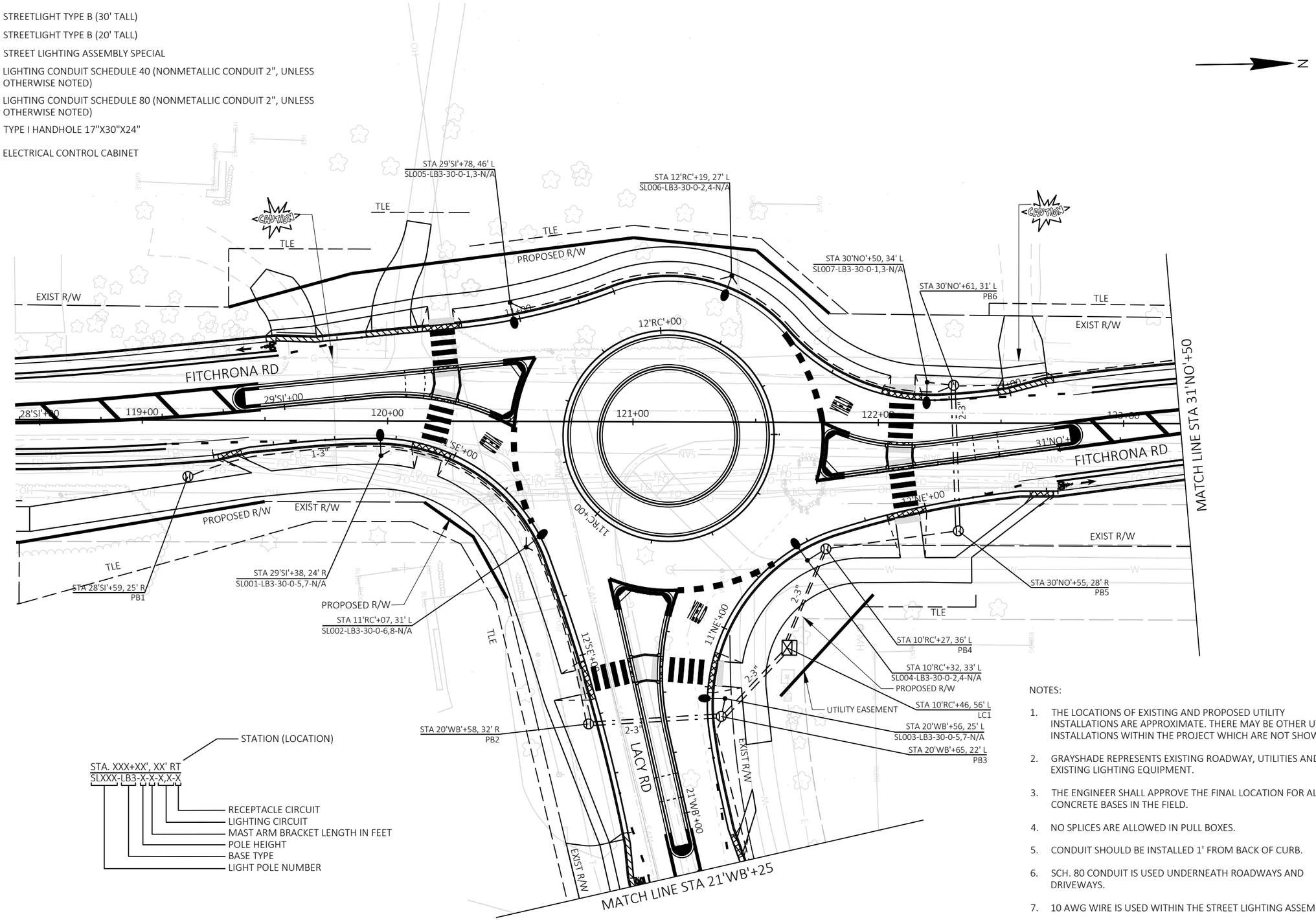
SCALE: 1 IN:40 FT
DATE: JULY 2024
REVISION: 100% PLANS

PROJECT NO.: 60703122
SHEET NO.: **C-294**

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\Sheets\Plan\023601-lp.dwg Layout: 023601-lr User: james.leininga Plotted: Jul 10, 2024 - 2:15pm

LIGHTING PLAN LEGEND

- STREETLIGHT TYPE B (30' TALL)
- STREETLIGHT TYPE B (20' TALL)
- STREET LIGHTING ASSEMBLY SPECIAL
- LIGHTING CONDUIT SCHEDULE 40 (NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED)
- LIGHTING CONDUIT SCHEDULE 80 (NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED)
- TYPE I HANDHOLE 17"X30"X24"
- ELECTRICAL CONTROL CABINET



STA. XXX+XX', XX' RT — STATION (LOCATION)
SLXXX-LB3-X-X-X,X-X
- RECEPTACLE CIRCUIT
- LIGHTING CIRCUIT
- MAST ARM BRACKET LENGTH IN FEET
- POLE HEIGHT
- BASE TYPE
- LIGHT POLE NUMBER

NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. GRAYSHADE REPRESENTS EXISTING ROADWAY, UTILITIES AND EXISTING LIGHTING EQUIPMENT.
3. THE ENGINEER SHALL APPROVE THE FINAL LOCATION FOR ALL CONCRETE BASES IN THE FIELD.
4. NO SPLICES ARE ALLOWED IN PULL BOXES.
5. CONDUIT SHOULD BE INSTALLED 1' FROM BACK OF CURB.
6. SCH. 80 CONDUIT IS USED UNDERNEATH ROADWAYS AND DRIVEWAYS.
7. 10 AWG WIRE IS USED WITHIN THE STREET LIGHTING ASSEMBLIES.

THE CITY OF Fitchburg PUBLIC WORKS

LIGHTING PLAN
FITCHRONA ROAD

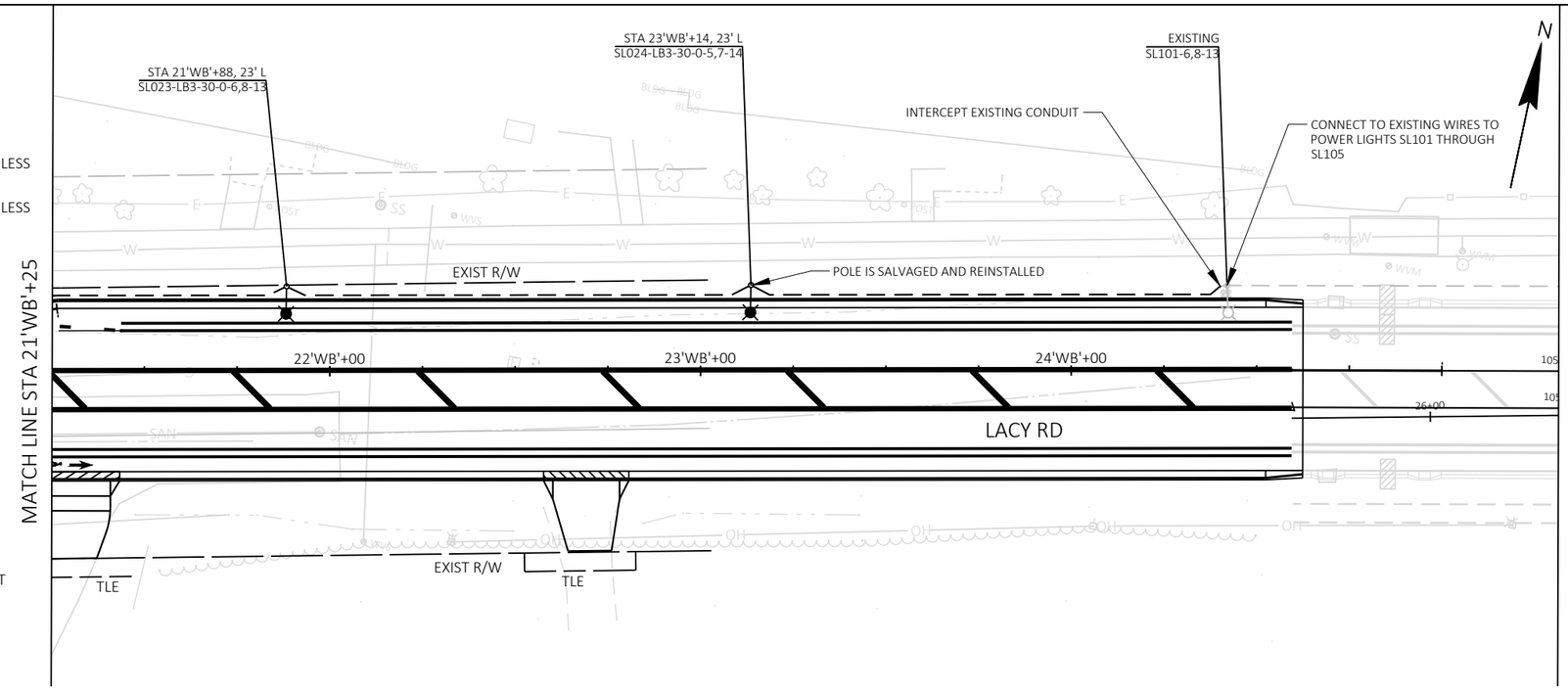
SCALE: 1 IN:40 FT	DATE: JULY 2024	REVISION: 100% PLANS
PROJECT NO.: 60703122	SHEET NO.: C-295	

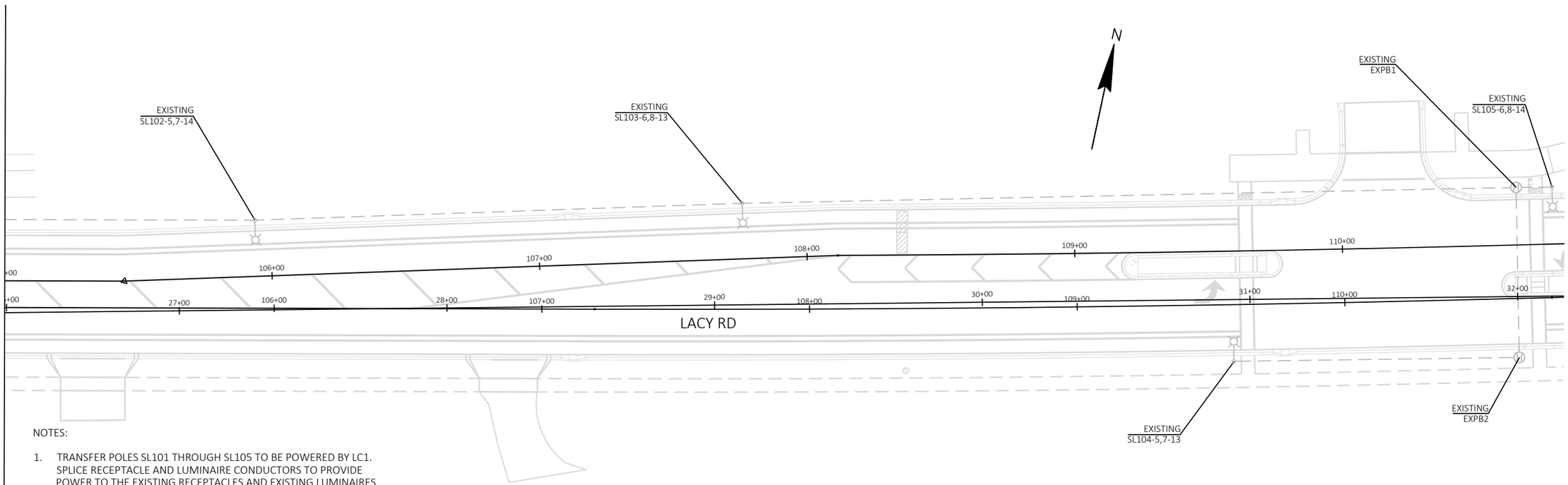
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LIGHTING PLAN LEGEND

- STREETLIGHT TYPE B (30' TALL)
- STREETLIGHT TYPE B (20' TALL)
- STREET LIGHTING ASSEMBLY SPECIAL
- LIGHTING CONDUIT SCHEDULE 40 (NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED)
- LIGHTING CONDUIT SCHEDULE 80 (NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED)
- TYPE I HANDHOLE 17"X30"X24"
- ELECTRICAL CONTROL CABINET

STA. XXX+XX', XX' RT (STATION (LOCATION))
SLXXX-LB3-X-X-X,X-X
- RECEPTACLE CIRCUIT
- LIGHTING CIRCUIT
- MAST ARM BRACKET LENGTH IN FEET
- POLE HEIGHT
- BASE TYPE
- LIGHT POLE NUMBER





NOTES:

1. TRANSFER POLES SL101 THROUGH SL105 TO BE POWERED BY LC1. SPLICE RECEPTACLE AND LUMINAIRE CONDUCTORS TO PROVIDE POWER TO THE EXISTING RECEPTACLES AND EXISTING LUMINAIRES BEING TRANSFERRED TO CONTROLLER LC1.

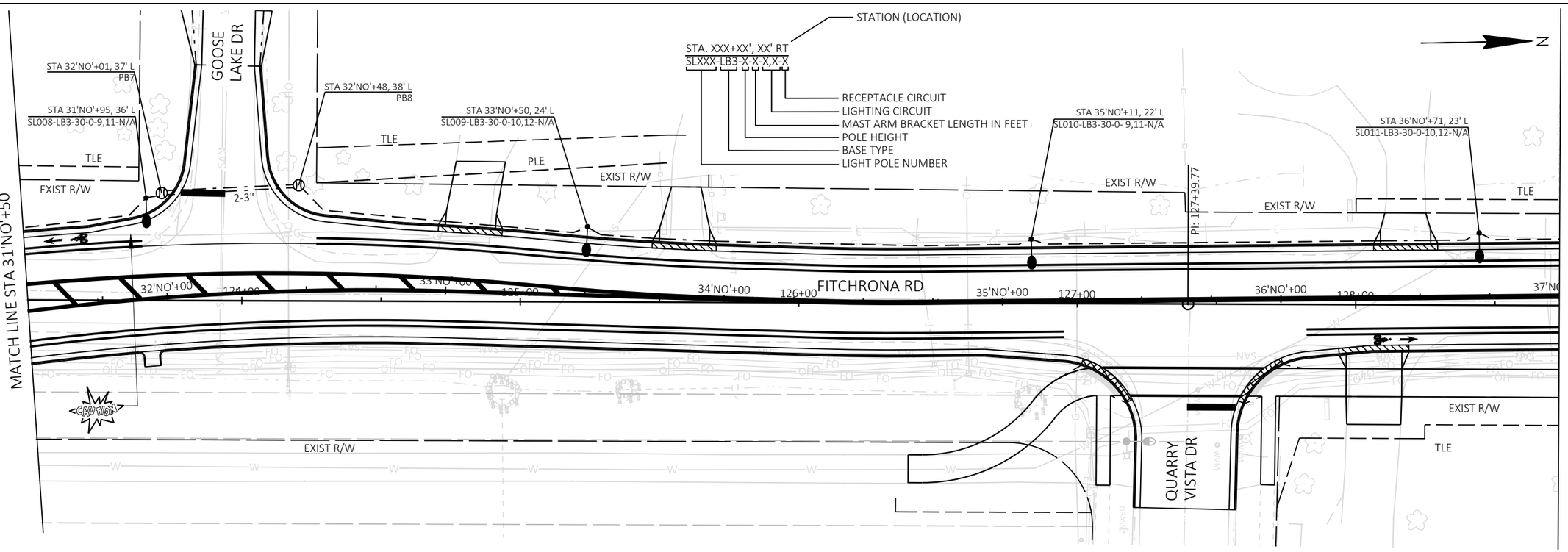
THE CITY OF Fitchburg PUBLIC WORKS

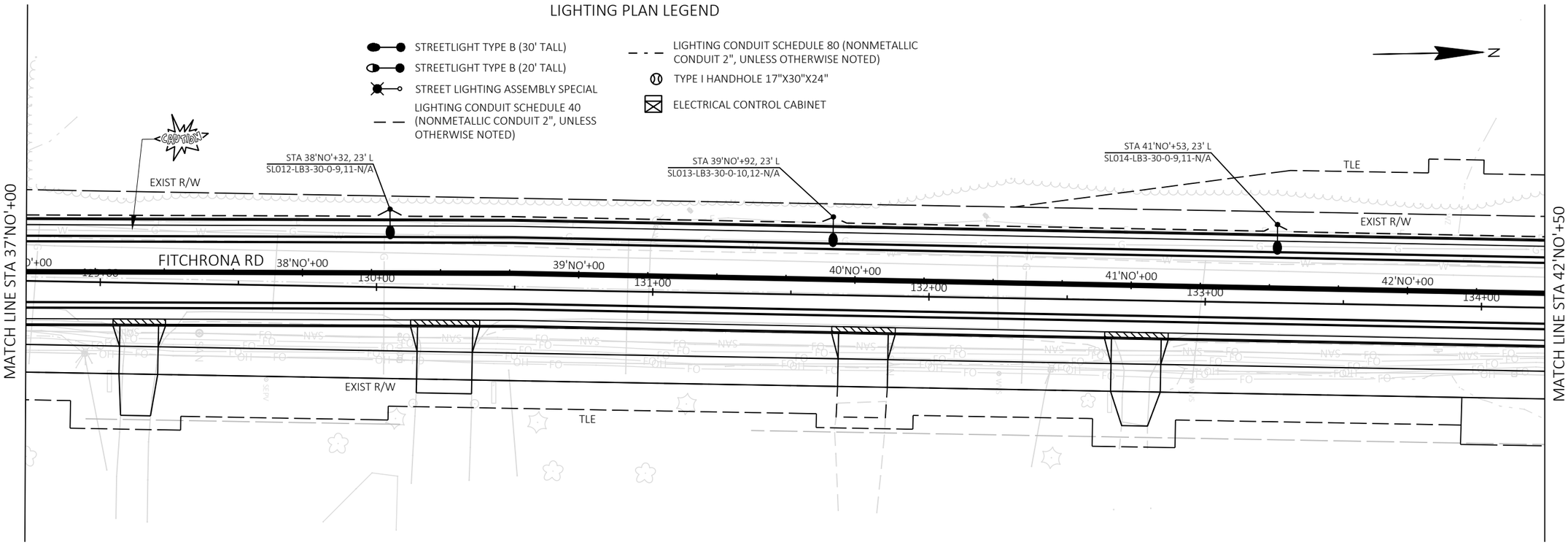
LIGHTING PLAN

FITCHRONA / LACY ROAD

PROJECT NO.: 60703122	SCALE: 1 IN:40 FT
SHEET NO.: C-296	DATE: JULY 2024
	REVISION: 100% PLANS

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\Sheets\Plan\023602-lp_023602-1-lp.dwg Layout: 023602-lp User: james.jenninga Plotted: Jul 10, 2024 - 2:15pm





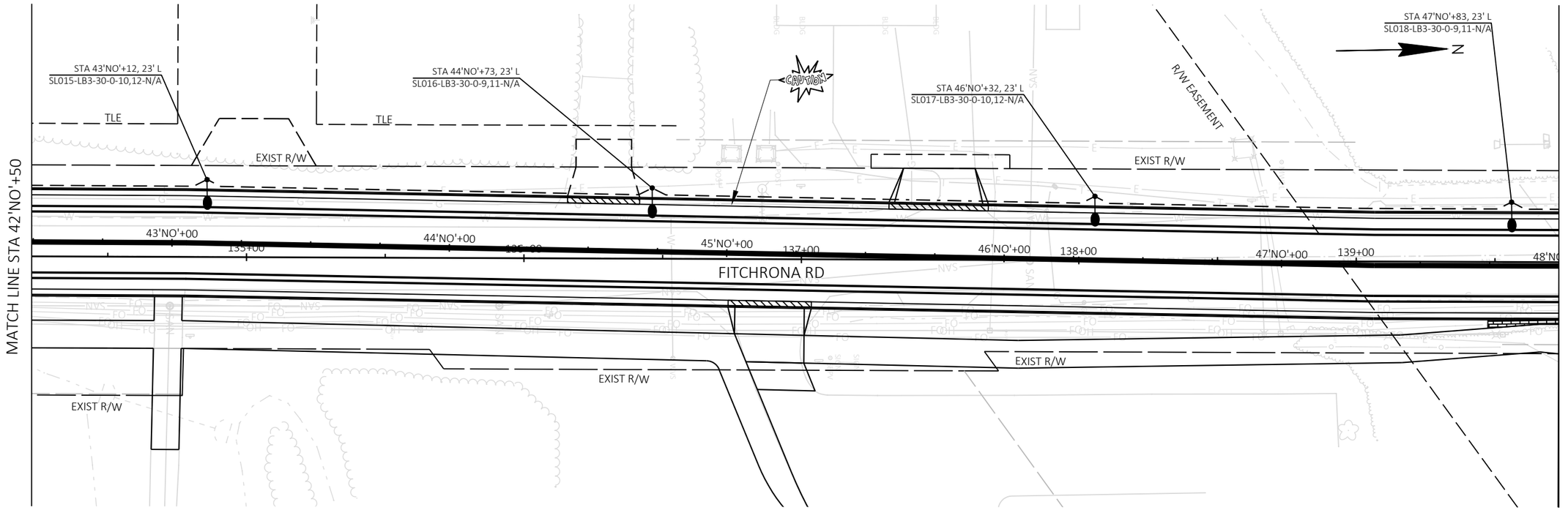
LIGHTING PLAN

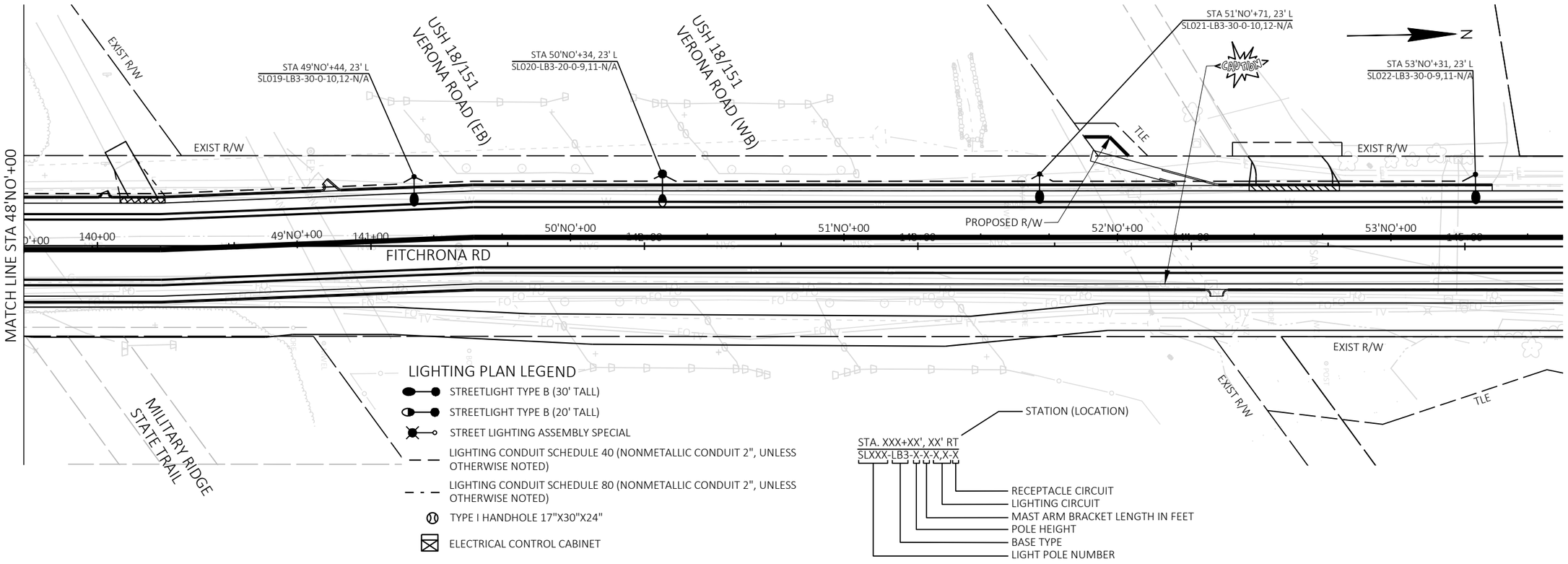
FITCHRONA ROAD

THE CITY OF Fitchburg PUBLIC WORKS

PROJECT NO.:	60703122
SHEET NO.:	C-297
SCALE:	1 IN:40 FT
DATE:	JULY 2024
REVISION:	100% PLANS

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\023601-lp.dwg Layout: 023603-lp User: james.jeninga Plotted: Jul 10, 2024 - 2:15pm





THE CITY OF Fitchburg PUBLIC WORKS

LIGHTING PLAN

FITCHRONA ROAD

SCALE: 1 IN:40 FT

DATE: JULY 2024

REVISION: 100% PLANS

PROJECT NO.: 60703122

SHEET NO.: **C-298**

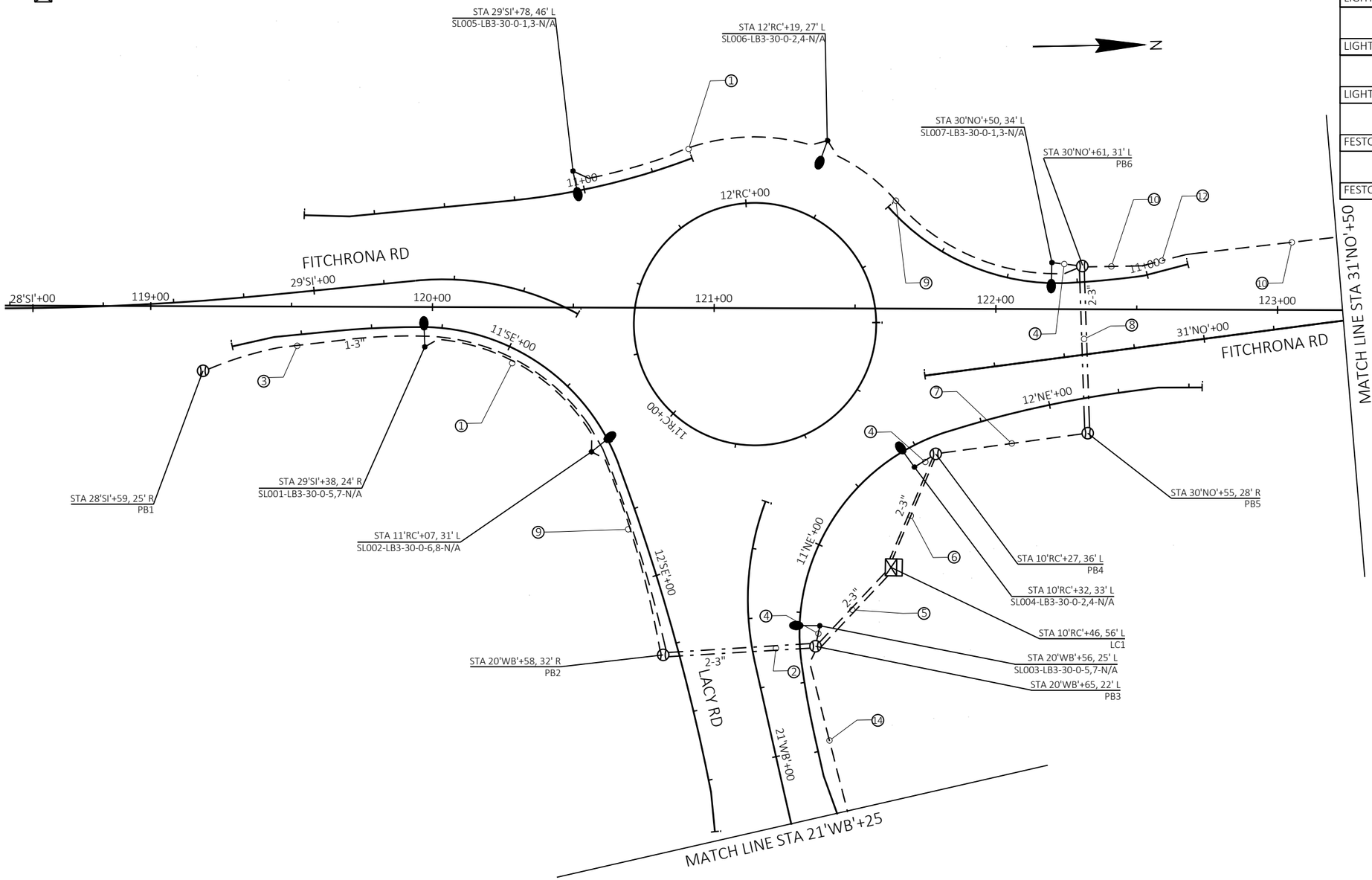
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LIGHTING PLAN LEGEND

- STREETLIGHT TYPE B (30' TALL)
- STREETLIGHT TYPE B (20' TALL)
- STREET LIGHTING ASSEMBLY SPECIAL
- LIGHTING CONDUIT SCHEDULE 40 (NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED)
- LIGHTING CONDUIT SCHEDULE 80 (NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED)
- TYPE I HANDHOLE 17"X30"X24"
- ELECTRICAL CONTROL CABINET

1. (2)#8 AND (1)#8 GROUND IN 2" SCH. 40 C
2. (4)#8 AND (1)#8 GROUND IN 2-3" SCH. 80 C
3. 1-3" SCH. 40 C
4. (4)#8 AND (2)#8 GROUND IN 2" SCH. 40 C
5. (8)#8 AND (1)#8 GROUND (4)#4 AND (1)#4 GROUND IN 2-3" SCH. 40 C
6. (4)#8 AND (1)#8 GROUND (4)#6 AND (1)#6 GROUND IN 2-3" SCH. 40 C
7. (4)#8 AND (1)#8 GROUND (4)#6 AND (1)#6 GROUND IN 2" SCH. 40 C
8. (4)#8 AND (1)#8 GROUND (4)#6 AND (1)#6 GROUND IN 2-3" SCH. 80 C
9. (4)#8 AND (1)#8 GROUND IN 2" SCH. 40 C
10. (4)#6 AND (1)#6 GROUND IN 2" SCH. 40 C
11. (2)#6 AND (1)#6 GROUND IN 2" SCH. 40 C
12. (4)#6 AND (1)#6 GROUND IN 2" SCH. 80 C
13. (2)#6 AND (1)#6 GROUND IN 2" SCH. 80 C
14. (4)#8, (4)#4, AND (1)#4 GROUND IN 2" SCH. 40 C
15. (2)#8, (4)#4, AND (1)#4 GROUND IN 2" SCH. 40 C
16. (4)#6, AND (1)#6 GROUND IN 2-3" SCH. 80 C

LC1
1,3 = 2-8 AWG 1-8 AWG GND LIGHTING - 240V
2,4 = 2-8 AWG LIGHTING - 240V
5,7 = 2-8 AWG 1-8 AWG GND LIGHTING - 240V
6,8 = 2-8 AWG LIGHTING - 240V
9,11 = 2-6 AWG 1-6 AWG GND LIGHTING - 240V
10,12 = 2-6 AWG LIGHTING - 240V
13 = 2-4 AWG 1-4 AWG GND FESTOON - 120V
14 = 2-4 AWG FESTOON - 120V



THE CITY OF Fitchburg PUBLIC WORKS

LIGHTING PLAN

FITCHRONA ROAD

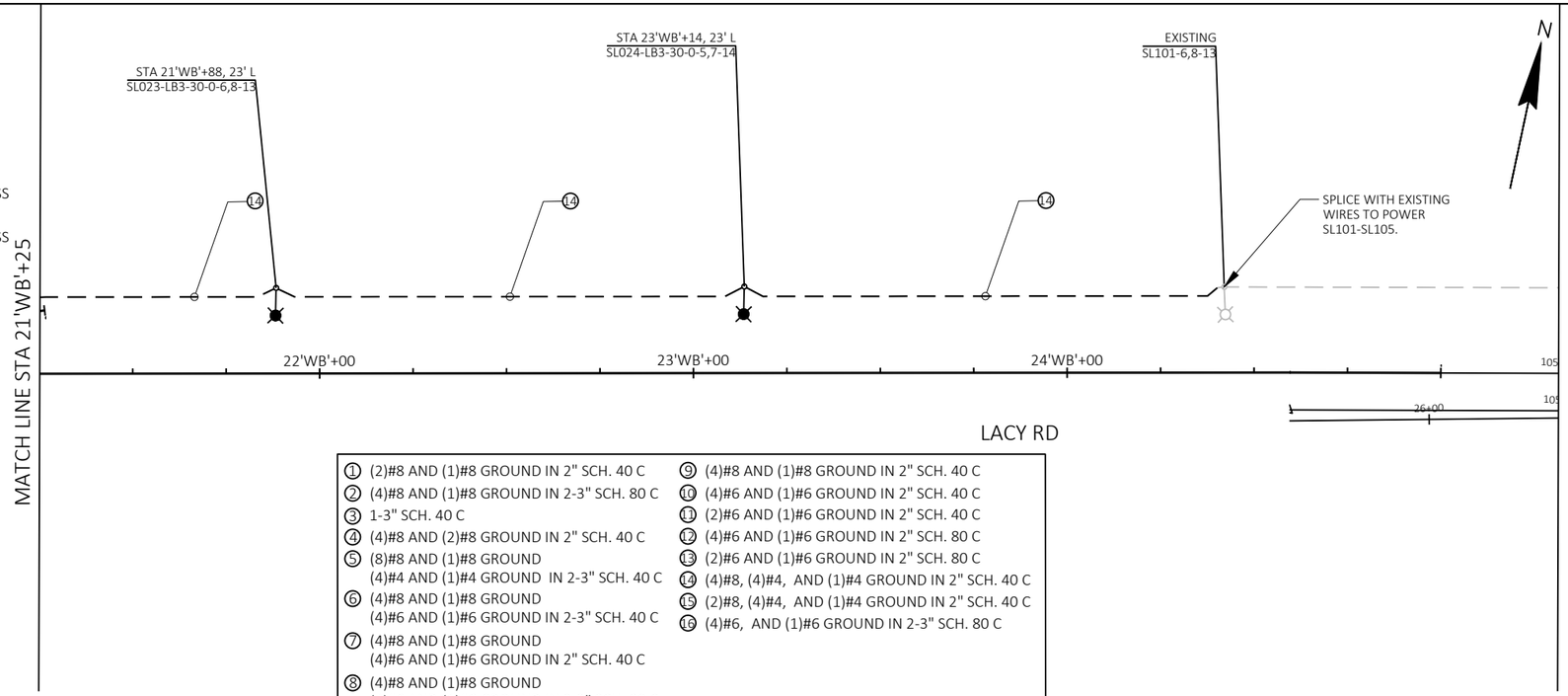
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SHEET NO.: **C-299**	DATE: JULY 2024	REVISION: 100% PLANS

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\Sheets\Plan\023601-lp.dwg Layout: 023601-WD User: james.jeninga Plotted: Jul 10, 2024 - 2:16pm

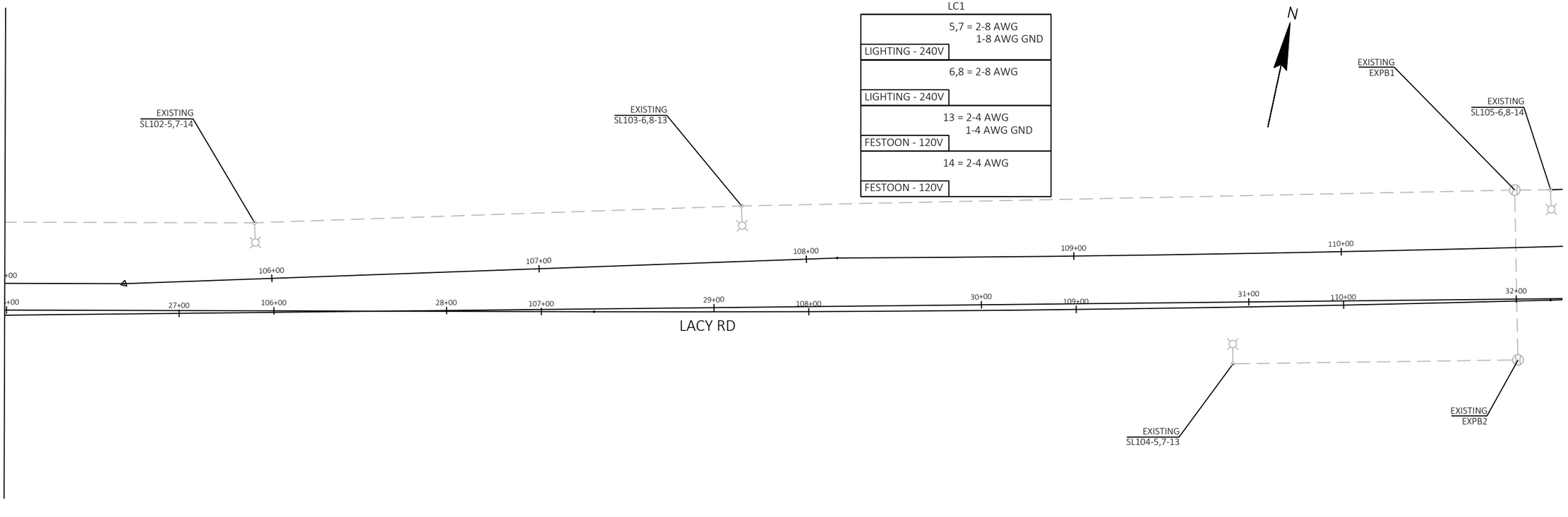
LIGHTING PLAN LEGEND

- STREETLIGHT TYPE B (30' TALL)
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- LIGHTING CONDUIT SCHEDULE 40 (NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED)
- LIGHTING CONDUIT SCHEDULE 80 (NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED)
- TYPE I HANDHOLE 17"X30"X24"
- ELECTRICAL CONTROL CABINET

STA. XXX+XX', XX' RT — STATION (LOCATION)
SLXXX-LB3-X-X-X,X-X
- RECEPTACLE CIRCUIT
- LIGHTING CIRCUIT
- MAST ARM BRACKET LENGTH IN FEET
- POLE HEIGHT
- BASE TYPE
- LIGHT POLE NUMBER



① (2)#8 AND (1)#8 GROUND IN 2" SCH. 40 C	⑨ (4)#8 AND (1)#8 GROUND IN 2" SCH. 40 C
② (4)#8 AND (1)#8 GROUND IN 2-3" SCH. 80 C	⑩ (4)#6 AND (1)#6 GROUND IN 2" SCH. 40 C
③ 1-3" SCH. 40 C	⑪ (2)#6 AND (1)#6 GROUND IN 2" SCH. 40 C
④ (4)#8 AND (2)#8 GROUND IN 2" SCH. 40 C	⑫ (4)#6 AND (1)#6 GROUND IN 2" SCH. 80 C
⑤ (8)#8 AND (1)#8 GROUND (4)#4 AND (1)#4 GROUND IN 2-3" SCH. 40 C	⑬ (2)#6 AND (1)#6 GROUND IN 2" SCH. 80 C
⑥ (4)#8 AND (1)#8 GROUND (4)#6 AND (1)#6 GROUND IN 2-3" SCH. 40 C	⑭ (4)#8, (4)#4, AND (1)#4 GROUND IN 2" SCH. 40 C
⑦ (4)#8 AND (1)#8 GROUND (4)#6 AND (1)#6 GROUND IN 2" SCH. 40 C	⑮ (2)#8, (4)#4, AND (1)#4 GROUND IN 2" SCH. 40 C
⑧ (4)#8 AND (1)#8 GROUND (4)#6 AND (1)#6 GROUND IN 2-3" SCH. 80 C	⑯ (4)#6, AND (1)#6 GROUND IN 2-3" SCH. 80 C



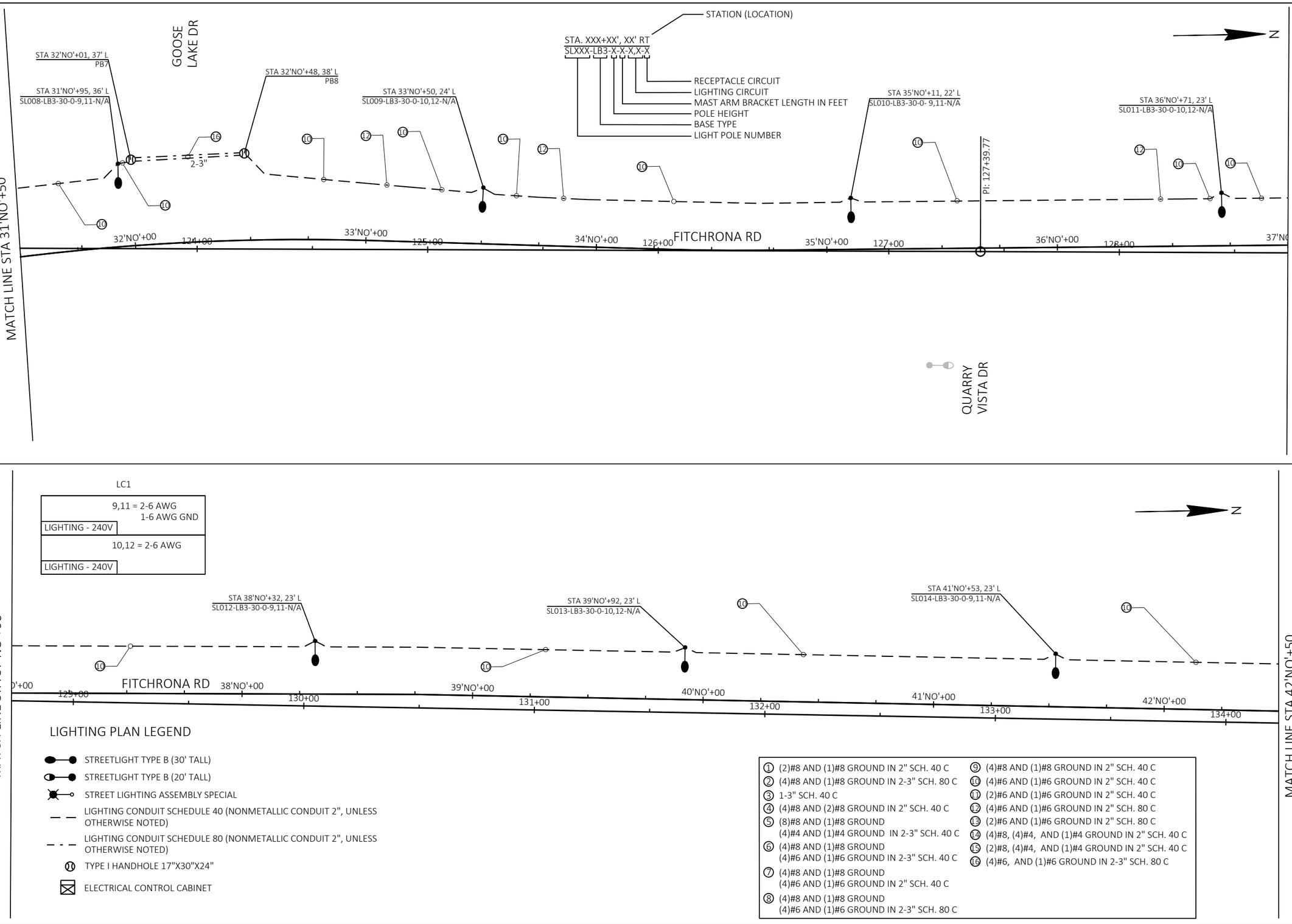
THE CITY OF Fitchburg PUBLIC WORKS

LIGHTING PLAN

FITCHRONA / LACY ROAD

SCALE: 1 IN:40 FT	DATE: JULY 2024	REVISION: 100% PLANS
PROJECT NO.: 60703122	SHEET NO.: C-300	

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\Sheets\Plan\023601-lp.dwg Layout: 023602-WD User: james.jeninga Plotted: Jul 10, 2024 - 2:16pm



THE CITY OF Fitchburg PUBLIC WORKS

LIGHTING PLAN

FITCHRONA ROAD

PROJECT NO.: 60703122

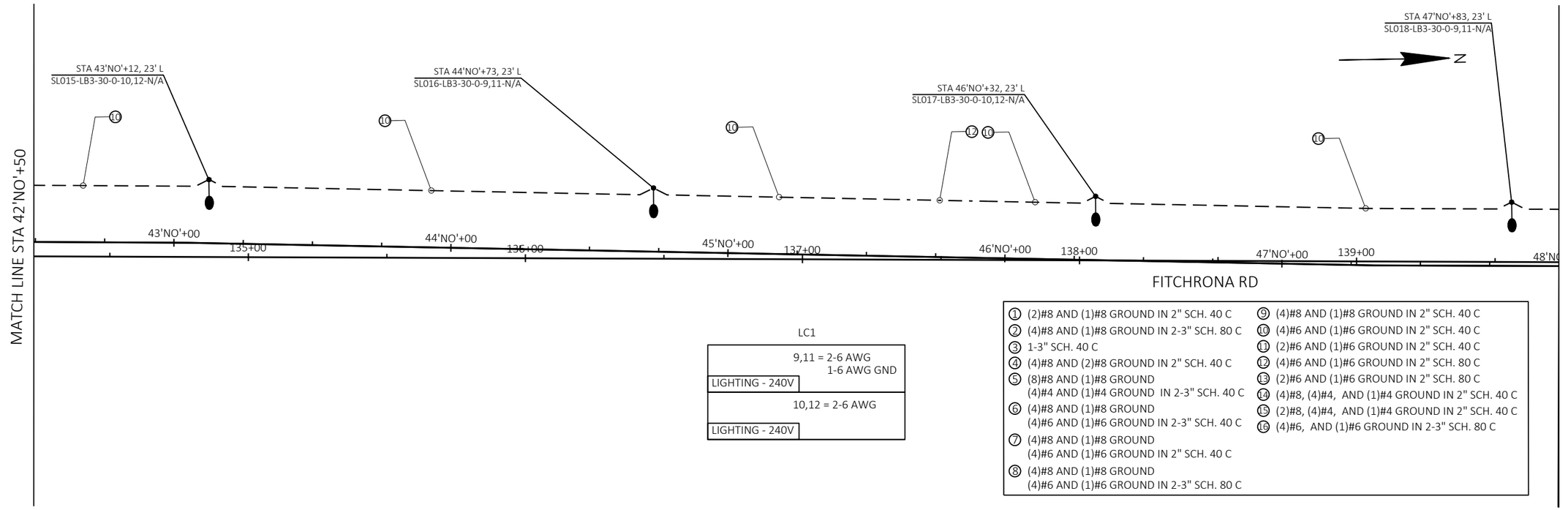
SHEET NO.: C-301

SCALE: 1 IN:40 FT

DATE: JULY 2024

REVISION: 100% PLANS

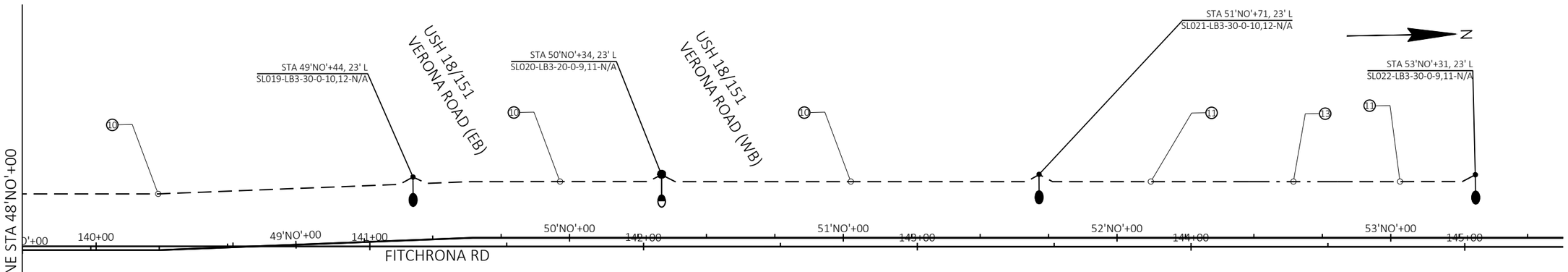
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LC1

9,11 = 2-6 AWG 1-6 AWG GND
LIGHTING - 240V
10,12 = 2-6 AWG
LIGHTING - 240V

1. (2)#8 AND (1)#8 GROUND IN 2" SCH. 40 C
2. (4)#8 AND (1)#8 GROUND IN 2-3" SCH. 80 C
3. 1-3" SCH. 40 C
4. (4)#8 AND (2)#8 GROUND IN 2" SCH. 40 C
5. (8)#8 AND (1)#8 GROUND
(4)#4 AND (1)#4 GROUND IN 2-3" SCH. 40 C
6. (4)#8 AND (1)#8 GROUND
(4)#6 AND (1)#6 GROUND IN 2-3" SCH. 40 C
7. (4)#8 AND (1)#8 GROUND
(4)#6 AND (1)#6 GROUND IN 2" SCH. 40 C
8. (4)#8 AND (1)#8 GROUND
(4)#6 AND (1)#6 GROUND IN 2-3" SCH. 80 C
9. (4)#8 AND (1)#8 GROUND IN 2" SCH. 40 C
10. (4)#6 AND (1)#6 GROUND IN 2" SCH. 40 C
11. (2)#6 AND (1)#6 GROUND IN 2" SCH. 40 C
12. (4)#6 AND (1)#6 GROUND IN 2" SCH. 80 C
13. (2)#6 AND (1)#6 GROUND IN 2" SCH. 80 C
14. (4)#8, (4)#4, AND (1)#4 GROUND IN 2" SCH. 40 C
15. (2)#8, (4)#4, AND (1)#4 GROUND IN 2" SCH. 40 C
16. (4)#6, AND (1)#6 GROUND IN 2-3" SCH. 80 C



LIGHTING PLAN LEGEND

- STREETLIGHT TYPE B (30' TALL)
- STREETLIGHT TYPE B (20' TALL)
- STREET LIGHTING ASSEMBLY SPECIAL
- LIGHTING CONDUIT SCHEDULE 40 (NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED)
- LIGHTING CONDUIT SCHEDULE 80 (NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED)
- TYPE I HANDHOLE 17"X30"X24"
- ELECTRICAL CONTROL CABINET

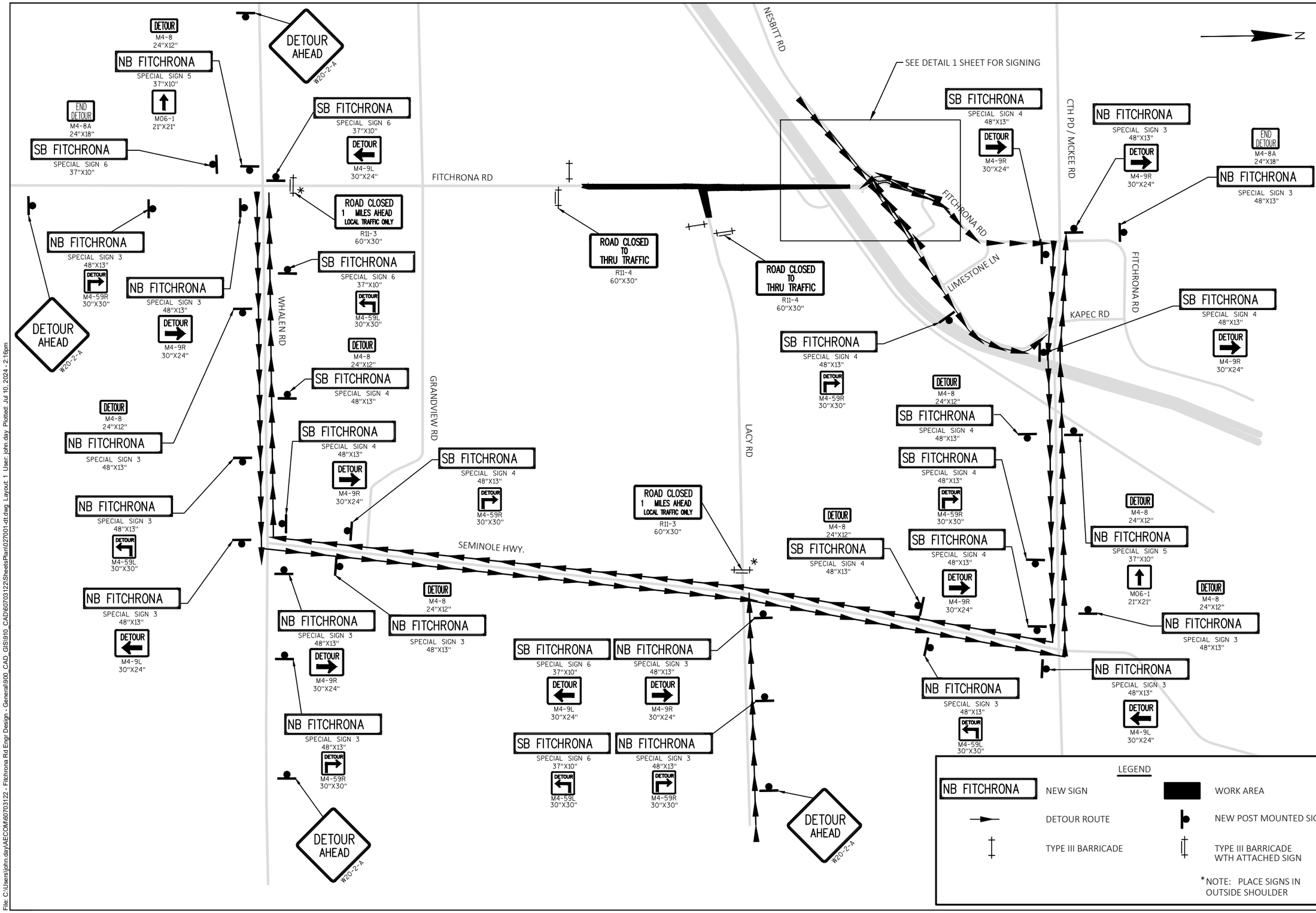
STA. XXX+XX', XX' RT — STATION (LOCATION)
SLXXX-LB3-X-X-X,X-X
- LIGHT POLE NUMBER
- BASE TYPE
- POLE HEIGHT
- MAST ARM BRACKET LENGTH IN FEET
- LIGHTING CIRCUIT
- RECEPTACLE CIRCUIT

THE CITY OF Fitchburg PUBLIC WORKS

LIGHTING PLAN
FITCHRONA ROAD

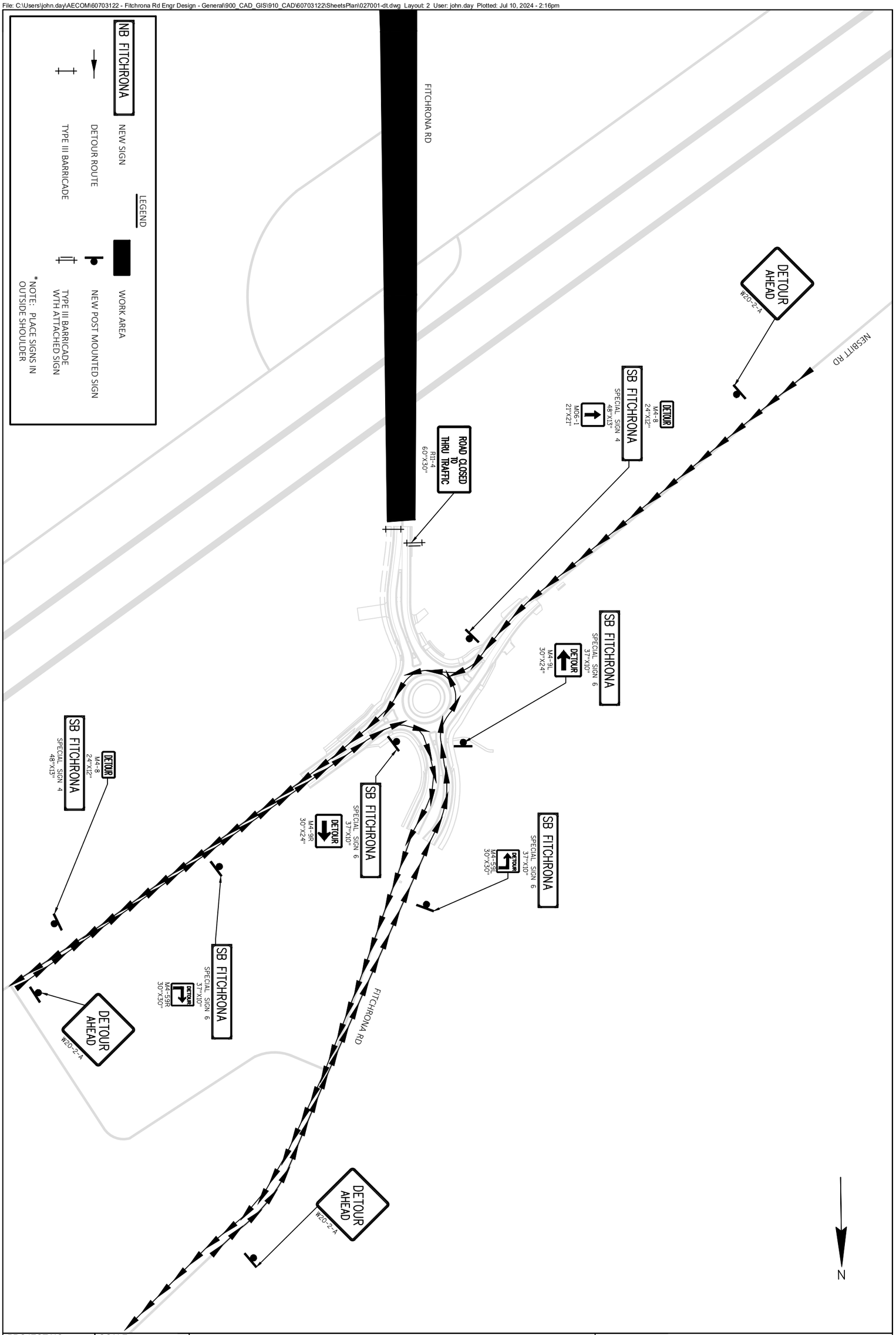
SCALE: 1 IN:40 FT
DATE: JULY 2024
REVISION: 100% PLANS
PROJECT NO.: 60703122
SHEET NO.: C-302

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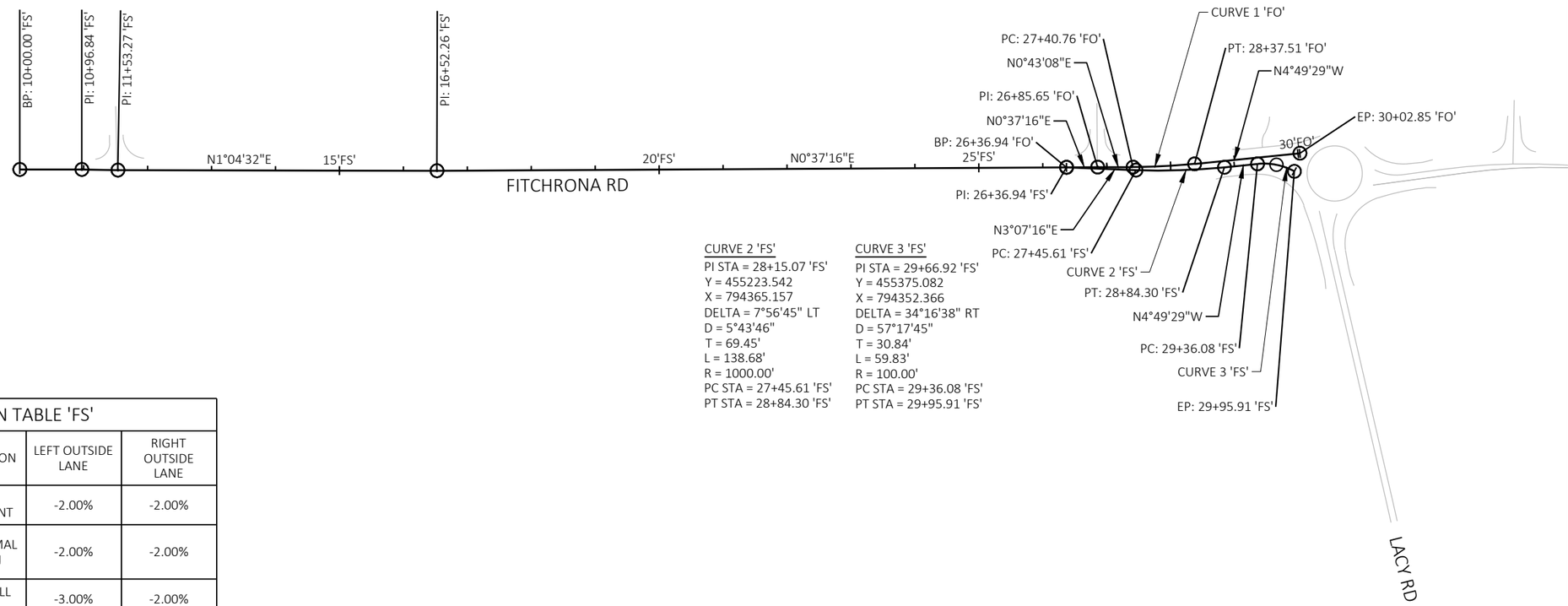
File: C:\Users\john.day\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\Sheets\Plan\027001-dt.dwg, Layout: 1 User: john.day Plotted: Jul 10, 2024 - 2:16pm

File: C:\Users\john.day\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\027001-dt.dwg Layout: 2 User: john.day Plotted: Jul 10, 2024 - 2:16pm



PROJECT NO.: 60703122	SCALE: 1 IN:200 FT	TRAFFIC CONTROL-DETOUR ROUTE	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: C-304	DATE: JULY 2024	NB AND SB FITCHRONA RD - DETAIL 1	
	REVISION: 100% PLANS		

SUPERELEVATION TABLE 'FO'				
REGION	STATION	DESCRIPTION	LEFT OUTSIDE LANE	RIGHT OUTSIDE LANE
	26+36.94 'FO'	BEGIN ALIGNMENT	-2.00%	-2.00%
1	26+55.00 'FO'	END NORMAL CROWN	-2.00%	-2.00%
1	26+80.00 'FO'	BEGIN FULL SUPER	-1.00%	-2.00%
1	26+90.00 'FO'	END FULL SUPER	-1.00%	-2.00%
1	27+15.00 'FO'	BEGIN NORMAL CROWN	-2.00%	-2.00%
	30+02.85 'FO'	END ALIGNMENT	-2.00%	-2.00%



SUPERELEVATION TABLE 'FS'				
REGION	STATION	DESCRIPTION	LEFT OUTSIDE LANE	RIGHT OUTSIDE LANE
	10+00.00 'FS'	BEGIN ALIGNMENT	-2.00%	-2.00%
1	11+25.00 'FS'	END NORMAL CROWN	-2.00%	-2.00%
1	11+50.00 'FS'	BEGIN FULL SUPER	-3.00%	-2.00%
1	11+60.00 'FS'	END FULL SUPER	-3.00%	-2.00%
1	11+85.00 'FS'	BEGIN NORMAL CROWN	-2.00%	-2.00%
	29+95.91 'FS'	END ALIGNMENT	-2.00%	-2.00%

THE CITY OF Fitchburg PUBLIC WORKS

ALIGNMENT DIAGRAM
FITCHRONA ROAD - SOUTH

SCALE: 1 IN:200 FT
DATE: JULY 2024
REVISION: 100% PLANS

PROJECT NO.: 60703122
SHEET NO.: C-311

File: C:\WisDOTStd\Temp\AcPublish_17568\027201-ad.dwg Layout: 027201-ad User: SylvesterM Plotted: Jul 08, 2024 - 2:06pm

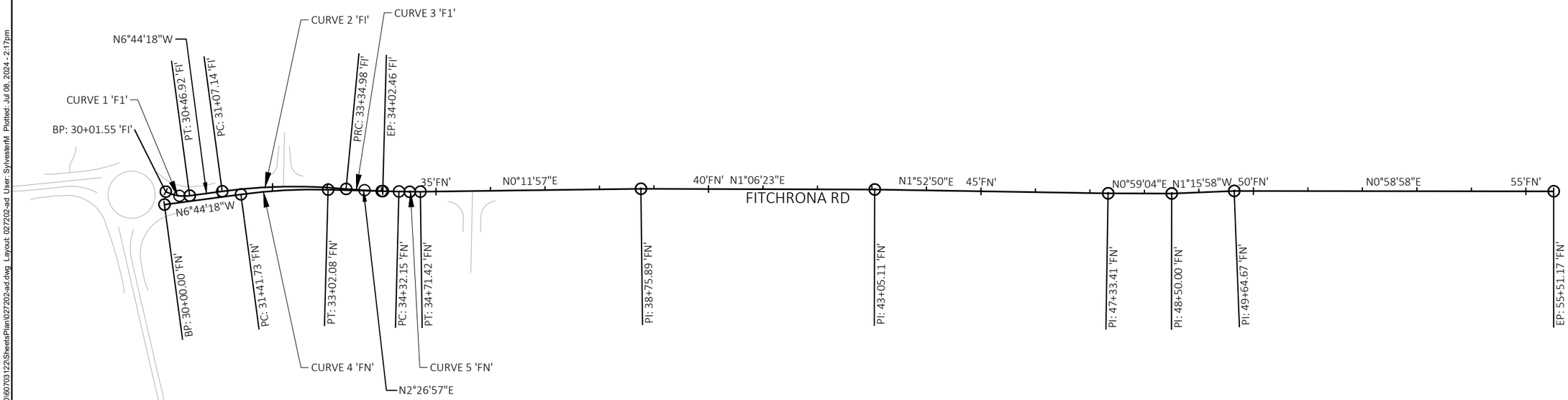
N

CURVE 1 'FI'
PI STA = 30+24.95 'FI'
Y = 455548.276
X = 794378.161
DELTA = 34°39'22" LT
D = 76°23'40"
T = 23.40'
L = 45.36'
R = 75.00'
PC STA = 30+01.55 'FI'
PT STA = 30+46.92 'FI'

CURVE 2 'FI'
PI STA = 32+21.56 'FI'
Y = 455744.947
X = 794354.924
DELTA = 13°03'14" RT
D = 5°43'46"
T = 114.41'
L = 227.84'
R = 1000.00'
PC STA = 31+07.14 'FI'
PT STA = 33+34.98 'FI'

CURVE 3 'FI'
PI STA = 33+68.73 'FI'
Y = 455892.215
X = 794371.223
DELTA = 3°52'00" LT
D = 5°43'46"
T = 33.75'
L = 67.48'
R = 1000.00'
PC STA = 33+34.98 'FI'
PT STA = 34+02.46 'FI'

SUPERELEVATION TABLE 'FI'				
REGION	STATION	DESCRIPTION	LEFT OUTSIDE LANE	RIGHT OUTSIDE LANE
	30+01.55 'FI'	BEGIN ALIGNMENT	-2.00%	-2.00%
1	31+25.00 'FI'	END NORMAL CROWN	-2.00%	-2.00%
1	31+90.00 'FI'	BEGIN FULL SUPER	1.00%	-2.00%
1	32+55.00 'FI'	END FULL SUPER	1.00%	-2.00%
1	33+20.00 'FI'	BEGIN NORMAL CROWN	-2.00%	-2.00%
	34+02.46 'FI'	END ALIGNMENT	-2.00%	-2.00%



CURVE 4 'FN'
PI STA = 32+22.08 'FN'
Y = 455745.376
X = 794364.943
DELTA = 9°11'15" RT
D = 5°43'46"
T = 80.35'
L = 160.35'
R = 1000.00'
PC STA = 31+41.73 'FN'
PT STA = 33+02.08 'FN'

CURVE 5 'FN'
PI STA = 34+51.79 'FN'
Y = 455975.217
X = 794374.773
DELTA = 2°15'00" LT
D = 5°43'46"
T = 19.64'
L = 39.27'
R = 1000.00'
PC STA = 34+32.15 'FN'
PT STA = 34+71.42 'FN'

SUPERELEVATION TABLE 'FN'				
REGION	STATION	DESCRIPTION	LEFT OUTSIDE LANE	RIGHT OUTSIDE LANE
	30+00.00 'FN'	BEGIN ALIGNMENT	-2.00%	-2.00%
1	34+85.00 'FN'	END NORMAL CROWN	-2.00%	-2.00%
1	35+60.00 'FN'	BEGIN FULL SUPER	-3.00%	1.00%
1	35+75.00 'FN'	END FULL SUPER	-3.00%	1.00%
1	36+50.00 'FN'	BEGIN NORMAL CROWN	-2.00%	-2.00%
	55+51.17 'FN'	END ALIGNMENT	-2.00%	-2.00%

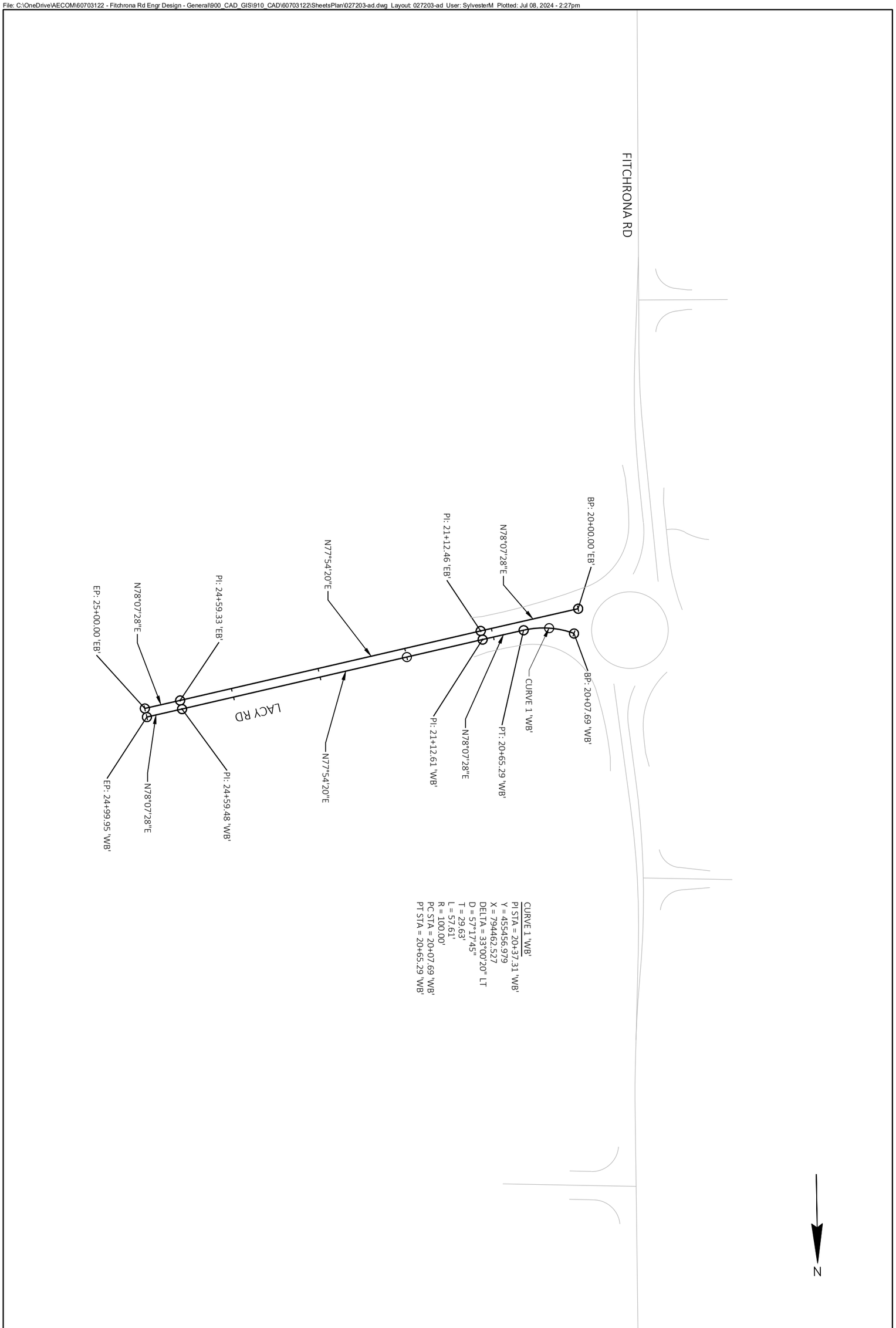
THE CITY OF Fitchburg PUBLIC WORKS

ALIGNMENT DIAGRAM
FITCHRONA ROAD - NORTH

PROJECT NO.: 60703122
SHEET NO.: C-312
SCALE: 1 IN:200 FT
DATE: JULY 2024
REVISION: 100% PLANS

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\027202-ad.dwg Layout: 027202-ad User: SylvesterM Plotted: Jul 08, 2024 - 2:17pm

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\027203-ad.dwg Layout: 027203-ad User: SylvesterM Plotted: Jul 08, 2024 - 2:27pm



PROJECT NO.: 60703122	SCALE: 1 IN:100 FT	ALIGNMENT DIAGRAM LACY ROAD	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-313**	DATE: JULY 2024		
	REVISION: 100% PLANS		

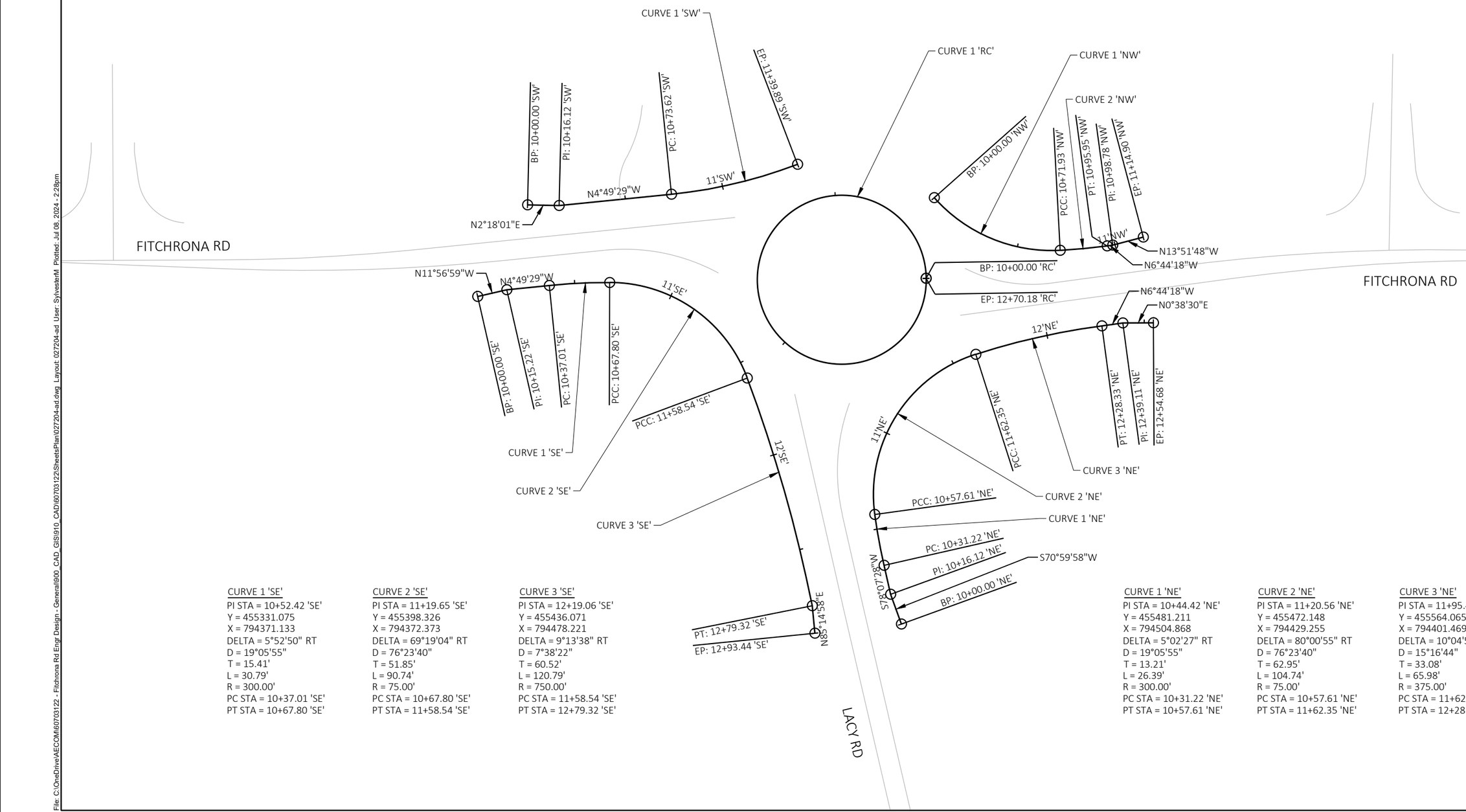
CURVE 1 'SW'
PI STA = 11+06.95 'SW'
Y = 455411.900
X = 794324.169
DELTA = 15°11'16" LT
D = 22°55'06"
T = 33.33'
L = 66.27'
R = 250.00'
PC STA = 10+73.62 'SW'
PT STA = 11+39.89 'SW'

CURVE 1 'RC'
PI STA = 10+00.00 'RC'
Y = 455507.778
X = 794371.958
DELTA = 360°00'00" RT
D = 133°14'46"
T = 0.00'
L = 270.18'
R = 43.00'
PC STA = 10+00.00 'RC'
PT STA = 12+70.18 'RC'

CURVE 1 'NW'
PI STA = 10+38.60 'NW'
Y = 455537.728
X = 794360.227
DELTA = 51°31'07" LT
D = 71°37'11"
T = 38.60'
L = 71.93'
R = 80.00'
PC STA = 10+00.00 'NW'
PT STA = 10+71.93 'NW'

CURVE 2 'NW'
PI STA = 10+83.95 'NW'
Y = 455588.308
X = 794358.327
DELTA = 4°35'10" LT
D = 19°05'55"
T = 12.01'
L = 24.01'
R = 300.00'
PC STA = 10+71.93 'NW'
PT STA = 10+95.95 'NW'

N



CURVE 1 'SE'
PI STA = 10+52.42 'SE'
Y = 455331.075
X = 794371.133
DELTA = 5°52'50" RT
D = 19°05'55"
T = 15.41'
L = 30.79'
R = 300.00'
PC STA = 10+37.01 'SE'
PT STA = 10+67.80 'SE'

CURVE 2 'SE'
PI STA = 11+19.65 'SE'
Y = 455398.326
X = 794372.373
DELTA = 69°19'04" RT
D = 76°23'40"
T = 51.85'
L = 90.74'
R = 75.00'
PC STA = 10+67.80 'SE'
PT STA = 11+58.54 'SE'

CURVE 3 'SE'
PI STA = 12+19.06 'SE'
Y = 455436.071
X = 794478.221
DELTA = 9°13'38" RT
D = 7°38'22"
T = 60.52'
L = 120.79'
R = 750.00'
PC STA = 11+58.54 'SE'
PT STA = 12+79.32 'SE'

CURVE 1 'NE'
PI STA = 10+44.42 'NE'
Y = 455481.211
X = 794504.868
DELTA = 5°02'27" RT
D = 19°05'55"
T = 13.21'
L = 26.39'
R = 300.00'
PC STA = 10+31.22 'NE'
PT STA = 10+57.61 'NE'

CURVE 2 'NE'
PI STA = 11+20.56 'NE'
Y = 455472.148
X = 794429.255
DELTA = 80°00'55" RT
D = 76°23'40"
T = 62.95'
L = 104.74'
R = 75.00'
PC STA = 10+57.61 'NE'
PT STA = 11+62.35 'NE'

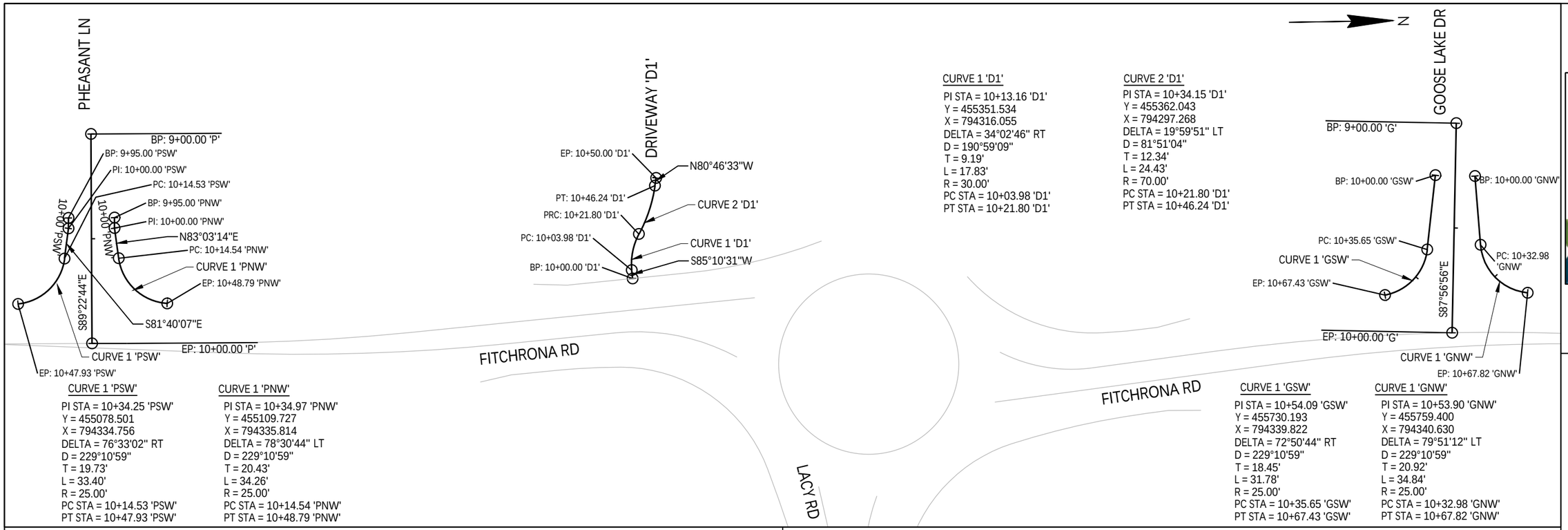
CURVE 3 'NE'
PI STA = 11+95.42 'NE'
Y = 455564.065
X = 794401.469
DELTA = 10°04'52" RT
D = 15°16'44"
T = 33.08'
L = 65.98'
R = 375.00'
PC STA = 11+62.35 'NE'
PT STA = 12+28.33 'NE'

THE CITY OF Fitchburg PUBLIC WORKS

ALIGNMENT DIAGRAM
ROUNDABOUT AND QUADRANTS

PROJECT NO.: 60703122	SCALE: 1 IN:50 FT
SHEET NO.: C-314	DATE: JULY 2024
	REVISION: 100% PLANS

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\Sheets\Plan\027204-ad.dwg Layout: 027204-ad User: Sylvestm Plotted: Jul 08, 2024 - 2:28pm



CURVE 1 'PSW'
PI STA = 10+34.25 'PSW'
Y = 455078.501
X = 794334.756
DELTA = 76°33'02" RT
D = 229°10'59"
T = 19.73'
L = 33.40'
R = 25.00'
PC STA = 10+14.53 'PSW'
PT STA = 10+47.93 'PSW'

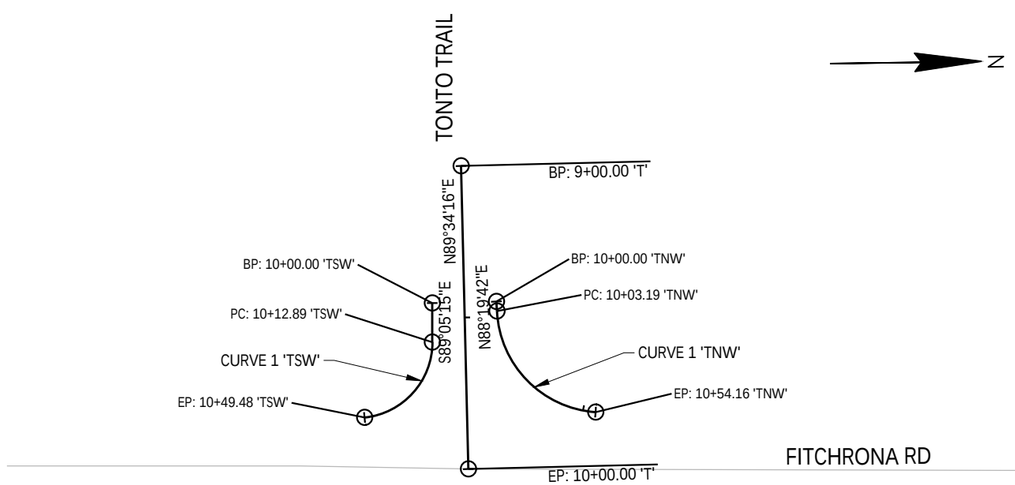
CURVE 1 'PNW'
PI STA = 10+34.97 'PNW'
Y = 455109.727
X = 794335.814
DELTA = 78°30'44" LT
D = 229°10'59"
T = 20.43'
L = 34.26'
R = 25.00'
PC STA = 10+14.54 'PNW'
PT STA = 10+48.79 'PNW'

CURVE 1 'D1'
PI STA = 10+13.16 'D1'
Y = 455351.534
X = 794316.055
DELTA = 34°02'46" RT
D = 190°59'09"
T = 9.19'
L = 17.83'
R = 30.00'
PC STA = 10+03.98 'D1'
PT STA = 10+21.80 'D1'

CURVE 2 'D1'
PI STA = 10+34.15 'D1'
Y = 455362.043
X = 794297.268
DELTA = 19°59'51" LT
D = 81°51'04"
T = 12.34'
L = 24.43'
R = 70.00'
PC STA = 10+21.80 'D1'
PT STA = 10+46.24 'D1'

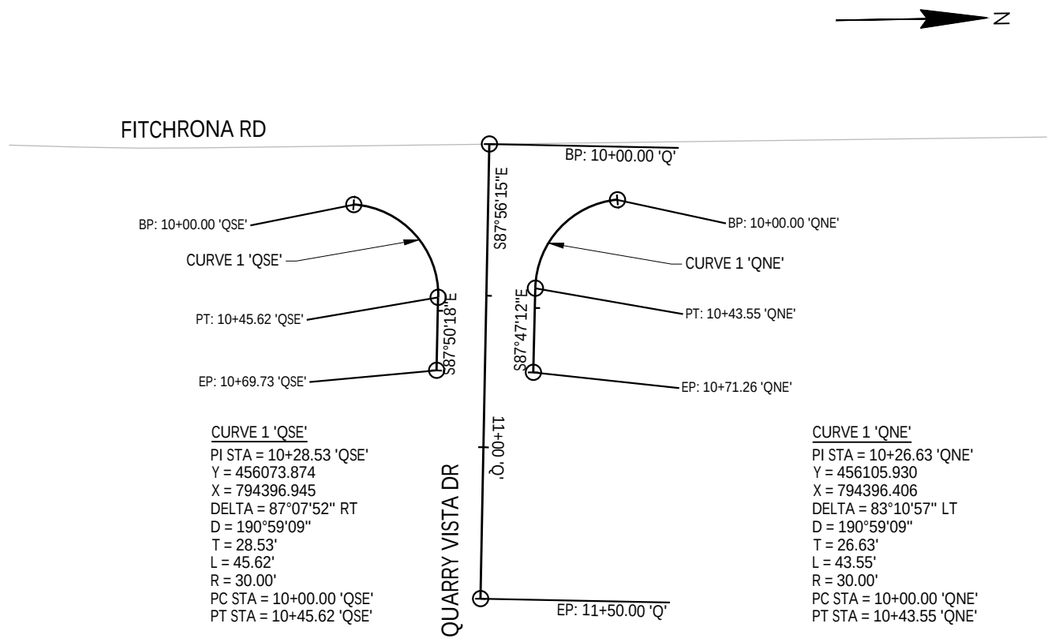
CURVE 1 'GSW'
PI STA = 10+54.09 'GSW'
Y = 455730.193
X = 794339.822
DELTA = 72°50'44" RT
D = 229°10'59"
T = 18.45'
L = 31.78'
R = 25.00'
PC STA = 10+35.65 'GSW'
PT STA = 10+67.43 'GSW'

CURVE 1 'GNW'
PI STA = 10+53.90 'GNW'
Y = 455759.400
X = 794340.630
DELTA = 79°51'12" LT
D = 229°10'59"
T = 20.92'
L = 34.84'
R = 25.00'
PC STA = 10+32.98 'GNW'
PT STA = 10+67.82 'GNW'



CURVE 1 'TSW'
PI STA = 10+35.34 'TSW'
Y = 453549.549
X = 794315.800
DELTA = 83°51'35" RT
D = 229°10'59"
T = 22.45'
L = 36.59'
R = 25.00'
PC STA = 10+12.89 'TSW'
PT STA = 10+49.48 'TSW'

CURVE 1 'TNW'
PI STA = 10+34.39 'TNW'
Y = 453572.318
X = 794314.683
DELTA = 83°26'04" LT
D = 163°42'08"
T = 31.20'
L = 50.97'
R = 35.00'
PC STA = 10+03.19 'TNW'
PT STA = 10+54.16 'TNW'



CURVE 1 'QSE'
PI STA = 10+28.53 'QSE'
Y = 456073.874
X = 794396.945
DELTA = 87°07'52" RT
D = 190°59'09"
T = 28.53'
L = 45.62'
R = 30.00'
PC STA = 10+00.00 'QSE'
PT STA = 10+45.62 'QSE'

CURVE 1 'QNE'
PI STA = 10+26.63 'QNE'
Y = 456105.930
X = 794396.406
DELTA = 83°10'57" LT
D = 190°59'09"
T = 26.63'
L = 43.55'
R = 30.00'
PC STA = 10+00.00 'QNE'
PT STA = 10+43.55 'QNE'

THE CITY OF Fitchburg PUBLIC WORKS

ALIGNMENT DIAGRAM
SIDE ROADS AND DRIVEWAY

SCALE:	1 IN:50 FT
DATE:	JULY 2024
REVISION:	100% PLANS
PROJECT NO.:	60703122
SHEET NO.:	C-315

File: C:\Wa\DOT\Stnd\Temp\AcPublish_9036\027205-ad.dwg Layout: 027205-ad User: czecha Plotted: Jul 02, 2024 - 9:56am

SUPERELEVATION TABLE 'M'			
REGION	STATION	DESCRIPTION	PATH SLOPE
1	37+50.00 'M'	END TYPICAL SLOPE	1.5%
1	37+75.00 'M'	BEGIN REVERSE SLOPE	-1.5%
1	43+60.00 'M'	END REVERSE SLOPE	-1.5%
1	43+75.00 'M'	BEGIN TYPICAL SLOPE	1.5%

CURVE 1 'M'
PI STA = 34+86.26 'M'
Y = 456018.708
X = 794429.978
DELTA = 52°42'18" LT
D = 114°35'30"
T = 24.77'
L = 45.99'
R = 50.00'
PC STA = 34+61.49 'M'
PT STA = 35+07.48 'M'

CURVE 2 'M'
PI STA = 35+22.37 'M'
Y = 456043.243
X = 794398.822
DELTA = 52°47'19" RT
D = 190°59'09"
T = 14.89'
L = 27.64'
R = 30.00'
PC STA = 35+07.48 'M'
PT STA = 35+35.12 'M'

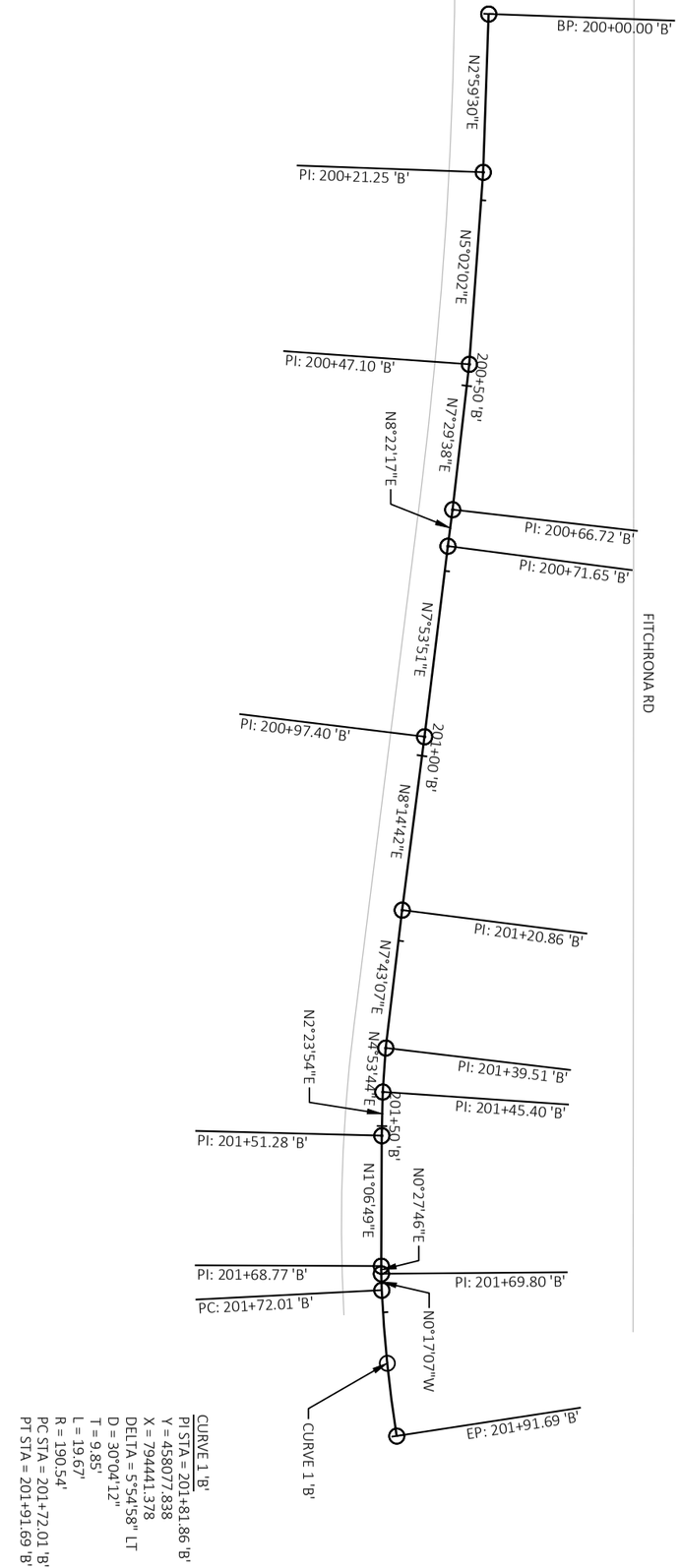
CURVE 3 'M'
PI STA = 54+02.39 'M'
Y = 457924.610
X = 794429.556
DELTA = 7°05'18" RT
D = 9°32'57"
T = 37.16'
L = 74.23'
R = 600.00'
PC STA = 53+65.23 'M'
PT STA = 54+39.46 'M'

CURVE 4 'M'
PI STA = 55+30.79 'M'
Y = 458051.824
X = 794447.596
DELTA = 10°21'14" LT
D = 26°38'57"
T = 19.48'
L = 38.85'
R = 215.00'
PC STA = 55+11.31 'M'
PT STA = 55+50.16 'M'

ALIGNMENT DIAGRAM
MULTI-USE PATH

PROJECT NO.: 60703122	SCALE: 1 IN:200 FT	
SHEET NO.: C-316	DATE: JULY 2024	REVISION: 100% PLANS

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\027206-ad.dwg, Layout: 027202-ad, User: SylvestreM, Plotted: Jul 08, 2024 - 2:29pm



N

PROJECT NO.: 60703122	SCALE: 1 IN:20 FT	ALIGNMENT DIAGRAM BACK OF EXISTING CURB	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-317**	DATE: JULY 2024		
	REVISION: 100% PLANS		

BASIS OF EXISTING RIGHT OF WAY				
ROAD NAME	PROJECT/SURVEY	V.	P.	DOC.
FITCHRONA RD	LOUIS HOFFMAN EST.			
FITCHRONA RD				
FITCHRONA RD	CSM 7731	40	250	2659856
FITCHRONA RD	CSM 1630	6	398	1422233
FITCHRONA RD	CSM 6981	35	77	2428419
TONTO TRAIL	LOUIS HOFFMAN EST.			
TONTO TRAIL	CSM 7731	40	250	2659856

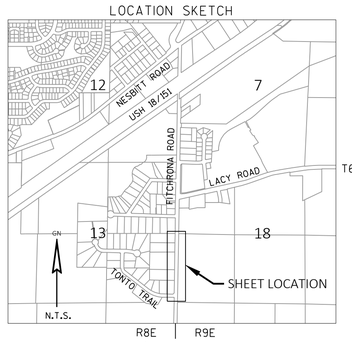
NOTES:

FOR ADDITIONAL INFORMATION, REFER TO THE TITLE SHEET RECORDED AS SHEET 2 OF 2.

POSITIONS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

LOCATION SKETCH



GN

SCALE, FEET
0 50 100

TRANSPORTATION PROJECT PLAT NO: 25-3492 - 4.01

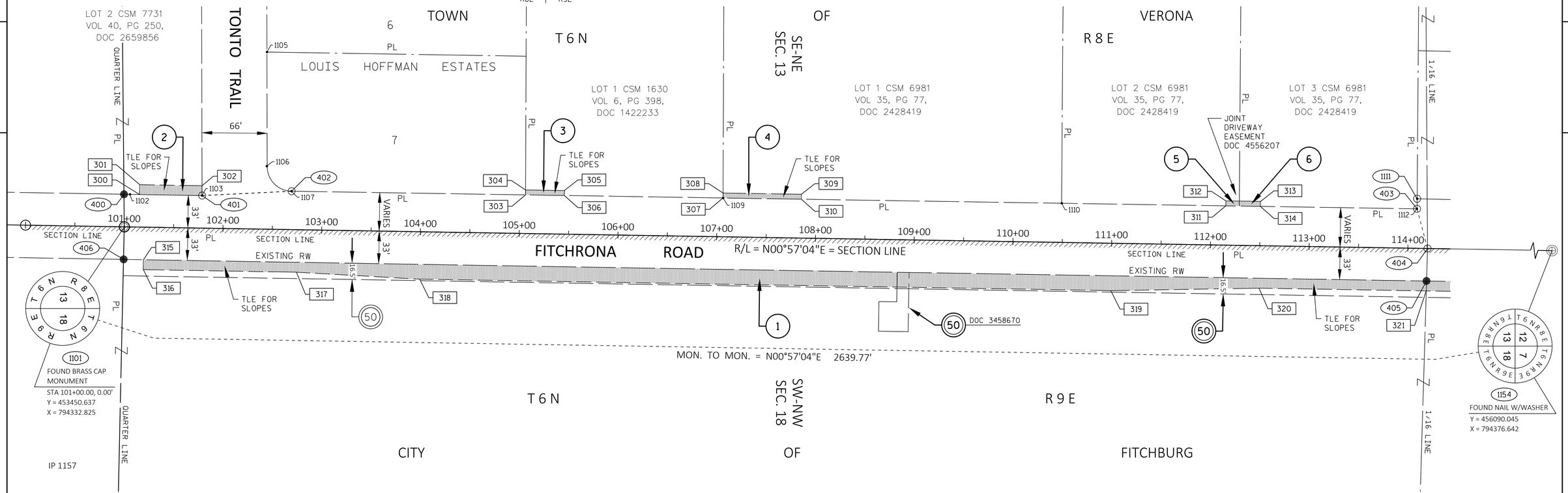
THAT PART OF LOT 2, CSM 7731, PART OF LOT 1, CSM 1630 AND PART OF LOTS 1 , 2 AND 3, CSM 6981, BEING PART OF THE SE1/4 OF THE NE1/4 OF SECTION 13, T 6 N, R 8 E, TOWN OF VERONA, AND PART OF THE SW1/4 OF THE NW1/4 OF SECTION 18, T 6 N, R 9 E, CITY OF FITCHBURG, ALL IN DANE COUNTY, WISCONSIN.

RELOCATION ORDER FITCHRONA ROAD TONTO TRAIL - NESBITT ROAD DANE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF FITCHBURG DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF FITCHBURG HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF FITCHBURG, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 25-3492-4.01
SHEET 1 OF 2
AMENDMENT NO:___



UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED	EASEMENT VOL. PG. DOC
50	MT. VERNON TELEPHONE COMPANY D/B/A/ TDS TELECOM (COMMUNICATIONS)	RELEASE OF RIGHTS	DOC 3458669, PARCEL 1 DOC 3458670, PARCEL 1

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
1	FITCHBURG MINERALS LLC	TLE	-----	-----	-----	0.394
2	FROSTWOOD FARM VI, LLC	TLE	-----	-----	-----	0.015
3	TOMOTHY R. REASA AND JILL REASA	TLE	-----	-----	-----	0.004
4	THOMAS F. WEIGAND	TLE	-----	-----	-----	0.009
5	MICHAEL E. PITTERLE AND BRENDA A. PITTERLE	TLE	-----	-----	-----	0.002
6	RONALD W. SCHULTZ AND SANDRA L. SCHULTZ	TLE	-----	-----	-----	0.002

RW COURSE TABLE		
COURSE	BEARING	DISTANCE
1101-400	S89°28'32"W	33.01'
400-401	N00°57'04"E	79.13'
401-402	N02°47'39"W	90.65'
402-403	N00°53'49"E	1139.90'
403-404	N75°14'14"E	41.55'
404-405	S88°18'06"E	33.00'
405-406	S00°57'04"W	1319.64'
406-1101	N88°44'07"W	33.00'

RW STATION OFFSET TABLE		
POINT	STATION	OFFSET
400	100+99.12	-33.00'
401	101+78.28	-33.00'
402	102+68.74	-38.92'
403	114+08.63	-40.00'
404	114+19.89	0.00'
405	114+19.46	33.00'
406	100+99.85	33.00'
1101	101+00.00	0.00'
1111	114+08.57	-50.22'

RW COORDINATE TABLE		
POINT	Y	X
400	453450.335	794299.815
401	453529.454	794301.129
402	453619.997	794296.710
403	454759.753	794314.552
404	454770.341	794354.734
405	454769.363	794387.722
406	453449.909	794365.817
1101	453450.637	794332.825
1111	454759.856	794304.329

TLE STATION OFFSET TABLE		
POINT	STATION	OFFSET
300	101+15.00	-33.00'
301	101+15.00	-43.00'
302	101+78.09	-43.00'
303	105+05.76	-39.145'
304	105+05.69	-44.145'
305	105+45.00	-44.18'
306	105+45.00	-39.18'
307	107+05.75	-39.335'
308	107+05.69	-44.335'
309	107+85.00	-44.41'
310	107+85.00	-39.41'
311	112+15.00	-39.82'
312	112+15.00	-44.82'
313	112+50.00	-44.85'
314	112+50.00	-39.85'
315	101+20.00	33.00'
316	101+20.00	43.00'
317	102+75.00	43.00'
318	104+00.00	48.00'
319	111+00.00	48.00'
320	112+50.00	43.00'
321	114+19.32	43.00'

EXISTING MONUMENTS			
POINT	Y	X	DESC.
1101	453450.637	794332.825	BRASS CAP
1102	453456.454	794299.863	3/4" REBAR
1103	453529.454	794301.089	1" IRON PIPE
1105	453595.232	794155.712	1" IRON PIPE
1106	453595.038	794271.250	1" IRON PIPE
1107	453620.009	794296.710	1" IRON PIPE
1108	454057.058	794303.533	1-1/2" IRON PIPE
1110	454399.975	794308.891	3/4" REBAR
1111	SEE RW COORDINATE TABLE		1-1/2" IRON PIPE
1112	454759.649	794314.558	3/4" REBAR

AECOM

I, DONALD J. BUZA, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF FITCHBURG, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 25-3492-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: _____ DATE:_____

PRINT NAME: DONALD J. BUZA

REGISTRATION NUMBER: S-2338

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF FITCHBURG

SIGNATURE: _____ DATE: _____

PRINT NAME: TIM VOELKER, DIRECTOR OF PUBLIC WORKS



CITY OF FITCHBURG
TRANSPORTATION PROJECT PLAT TITLE SHEET
PROJECT NO. 25-3492
FITCHRONA ROAD
TONTO TRAIL - NESBITT ROAD
DANE COUNTY

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
TO BE REMOVED
BRIDGE
CULVERT

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED)

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE	■	□
TELEPHONE POLE	●	○
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)	⧓	⧒

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)

PARCEL NUMBER 25
UTILITY NUMBER 40
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

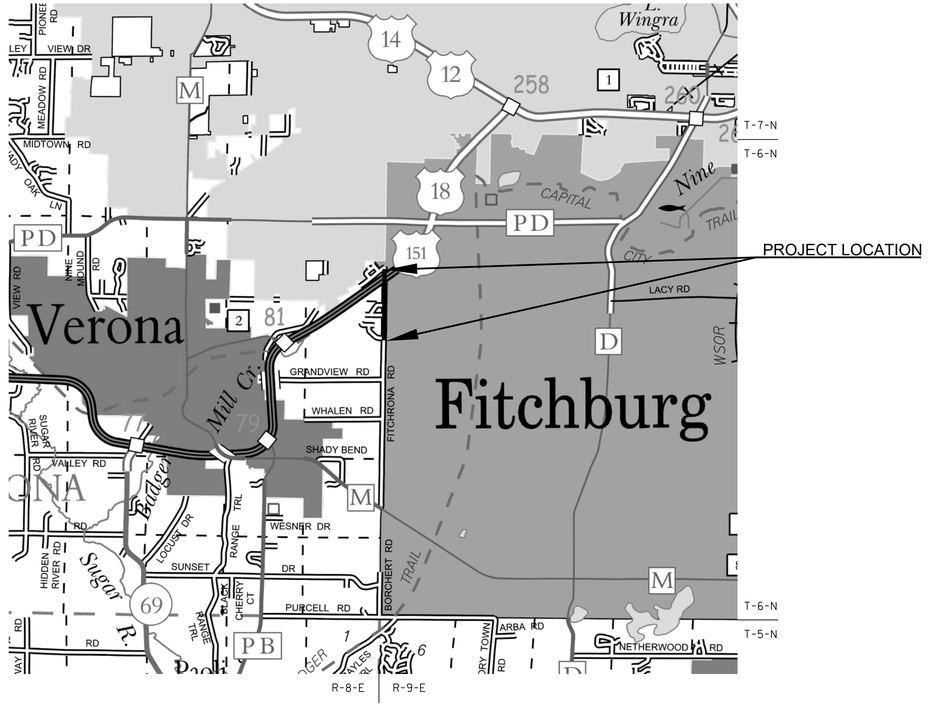
ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE	PCC
ACRES	AC	POINT OF INTERSECTION	PI
AHEAD	AH	PROPERTY LINE	PL
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REEL / IMAGE	R/I
BACK	BK	REFERENCE LINE	R/L
BLOCK	BLK	REMAINING	REM
CENTERLINE	C/L	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
CERTIFIED SURVEY MAP	CSM	RIGHT	RT
CONCRETE	CONC	RIGHT OF WAY	R/W
COUNTY	CO	SECTION	SEC
COUNTY TRUNK HIGHWAY	CTH	SEPTIC VENT	SEPV
DISTANCE	DIST	SQUARE FEET	SF
CORNER	COR	STATE TRUNK HIGHWAY	STH
DOCUMENT NUMBER	DOC	STATION	STA
EASEMENT	EASE	TELEPHONE PEDESTAL	TP
EXISTING	EX	TEMPORARY LIMITED EASEMENT	TLE
GAS VALVE	GV	TRANSPORTATION PROJECT PLAT	TPP
GRID NORTH	GN	UNITED STATES HIGHWAY	USH
HIGHWAY EASEMENT	HE	VOLUME	V
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		

CURVE DATA ABBREVIATIONS

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS
ELECTRIC TOWER	⊠



GN

LAYOUT
SCALE 0 1 MI.

THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 25-3492.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, CENTERLINE OF EXISTING PAVEMENTS AND/OR EXISTING OCCUPATIONAL LINES.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

PROPERTY LINES SHOWN ON THIS PLAT FOR PROPERTIES BEING IMPACTED ARE DRAWN FROM DATA DERIVED FROM FILED/RECORDED MAPS AND DOCUMENTS OF PUBLIC RECORD. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PUBLIC WORKS DEPARTMENT OF THE CITY OF FITCHBURG.

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE TPP DETAIL PAGES.

INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL ARE LISTED ON THE TPP DETAIL PAGES.

PROJECT NUMBER 25 - 3492 - 4.01
SHEET 2 OF 2
AMENDMENT NO:

NOTES:

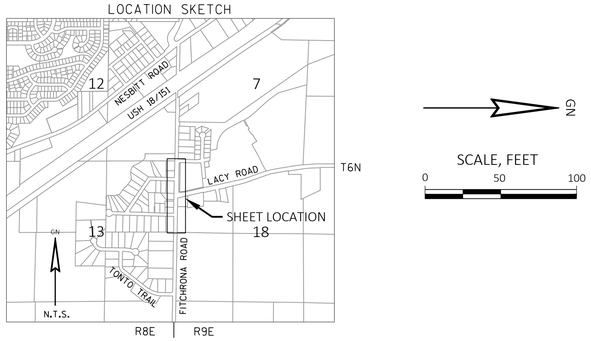
FOR ADDITIONAL INFORMATION, REFER TO THE TITLE SHEET RECORDED IN THE OFFICE OF THE REGISTER DEEDS IN DANE COUNTY, AS SHEET 2 OF 2 OF DOCUMENT NUMBER ?????? AND FILED IN VOL. ???, PG. ??.

FOR ALL POINT TABLES, REFER TO SHEET 2 OF 2.

POSITIONS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

LOCATION SKETCH



GN

SCALE, FEET
0 50 100

TRANSPORTATION PROJECT PLAT NO: 25-3492 - 4.02

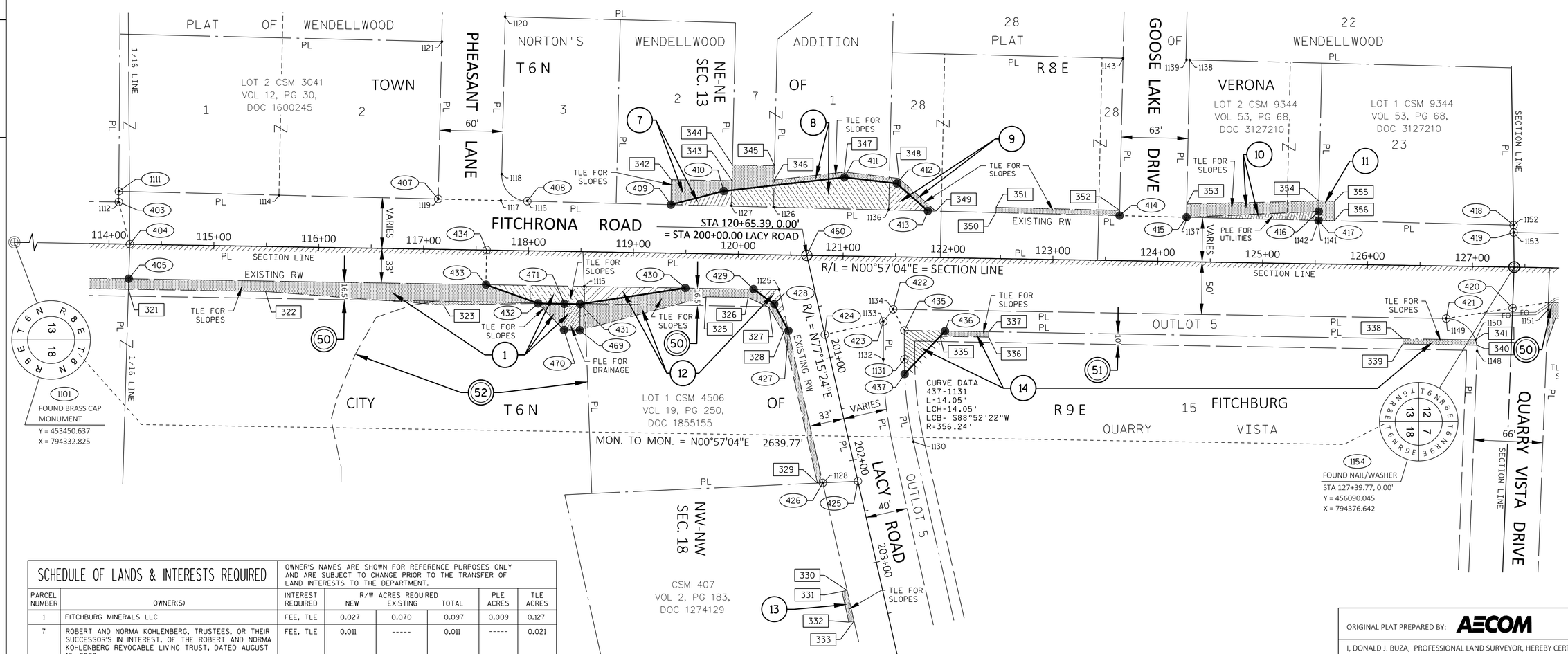
THAT PART OF LOTS 1, 2 AND 7 OF NORTON'S WENDELWOOD ADDITION, PART OF LOT 28 OF THE PLAT OF WENDELWOOD, PART OF LOTS 1 AND 2 OF CSM 9344 AND PART OF THE NE1/4 OF THE NE1/4, BEING PART OF THE NE1/4 OF THE NE1/4 OF SECTION 13, T 6 N, R 8 E, TOWN OF VERONA, AND PART OF LOT 1 OF CSM 4506, PART OF CSM 407, PART OF LOT 15 OF QUARRY VISTA, AND PART OF THE NW1/4 OF THE NW1/4, ALL BEING PART OF THE NW1/4 OF THE NW1/4 OF SECTION 18, T 6 N, R 9 E; ALL IN DANE COUNTY, WISCONSIN.

RELOCATION ORDER FITCHRONA ROAD TONTO TRAIL - NESBITT ROAD DANE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF FITCHBURG DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF FITCHBURG HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF FITCHBURG, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 25-3492-4.02
SHEET 1 OF 2
AMENDMENT NO:___



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	PLE ACRES	TLE ACRES
1	FITCHBURG MINERALS LLC	FEE, TLE	0.027	0.070	0.097	0.009	0.127
7	ROBERT AND NORMA KOHLENBERG, TRUSTEES, OR THEIR SUCCESSOR'S IN INTEREST, OF THE ROBERT AND NORMA KOHLENBERG REVOCABLE LIVING TRUST, DATED AUGUST 17, 2022	FEE, TLE	0.011	-----	0.011	-----	0.021
8	ABIGAIL M. BENBOW AND ROSS J. BENBOW, TRUSTEES, OR THEIR SUCCESSOR TRUSTEES, OF THE BENBOW FAMILY TRUST DATED OCTOBER 26, 2021	FEE, TLE	0.083	-----	0.083	-----	0.032
9	KENNETH O. KOBERLE AND JUDITH A. KOBERLE	FEE, TLE	0.013	-----	0.013	-----	0.019
10	KENNETH E. KAEGI AND TERESA J. KAEGI	PLE, TLE	-----	-----	-----	0.012	0.033
11	LAURA DALY	TLE	-----	-----	-----	-----	0.006
12	DIANE H. REMEIKA	FEE, TLE	0.025	0.307	0.332	-----	0.079
13	DIANE REMEIKA, A SINGLE INDIVIDUAL	TLE	-----	-----	-----	-----	0.003
14	FRED-ELAN, LLC	FEE, TLE	0.019	-----	0.019	-----	0.013

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED	EASEMENT VOL, PG, DOC
50	MT. VERNON TELEPHONE COMPANY D/B/A/ TDS TELECOM (COMMUNICATIONS)	RELEASE OF RIGHTS	DOC 3458669, PARCEL 1 DOC 3475851, PARCEL 12
51	CITY OF FITCHBURG (GENERAL UTILITIES)	RELEASE OF RIGHTS	DOC 5164639, PARCEL 14
52	CITY OF FITCHBURG (PLE)	RELEASE OF RIGHTS	DOC 5894235, PARCEL 1

BASIS OF EXISTING RIGHT OF WAY

ROAD NAME	PROJECT/SURVEY	V.	P.	DOC.
FITCHRONA RD	NORTON'S WENDELLWOOD ADD	31	46	1162745
FITCHRONA RD	PLAT OF WENDELLWOOD	14	38	830615
FITCHRONA RD	QUARRY VISTA SUBD	60-038A	186	5164639
FITCHRONA RD	CSM 3041	12	30	1600245
FITCHRONA RD	CSM 4506	19	250	1855155
PHEASANT LN	PLAT OF WENDELLWOOD	14	38	830615
GOOSE LAKE DR	PLAT OF WENDELLWOOD	14	38	830615

ORIGINAL PLAT PREPARED BY: AECOM

I, DONALD J. BUZA, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF FITCHBURG, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 25-3492-4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: _____ DATE:_____

PRINT NAME: DONALD J. BUZA

REGISTRATION NUMBER: S-2338

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF FITCHBURG

SIGNATURE: _____ DATE: _____

PRINT NAME: TIM VOELKER, DIRECTOR OF PUBLIC WORKS

FILE NAME : C:\USERS\DONALD.BUZA\AECOM\60703122 - FITCHRONA RD ENGR DESIGN - GENERAL\900_CAD_GIS\910_CAD\60703122\SHEETSPLAN\040101-TPP.DWG PLOT DATE : 7/10/2024 9:39 AM PLOT BY : BUZA, DONALD PLOT NAME : PLOT SCALE :

APPRAISAL PLAT DATE : _____

25-3492-4.02

TRANSPORTATION PROJECT PLAT NO: 25-3492 - 4.02

THAT PART OF LOTS 1, 2 AND 7 OF NORTON'S WENDELWOOD ADDITION, PART OF LOT 28 OF THE PLAT OF WENDELWOOD, PART OF LOTS 1 AND 2 OF CSM 9344 AND PART OF THE NE1/4 OF THE NE1/4, BEING PART OF THE NE1/4 OF THE NE1/4 OF SECTION 13, T 6 N, R 8 E, TOWN OF VERONA, AND PART OF LOT 1 OF CSM 4506, PART OF CSM 407, PART OF LOT 15 OF QUARRY VISTA, AND PART OF THE NW1/4 OF THE NW1/4, ALL BEING PART OF THE NW1/4 OF THE NW1/4 OF SECTION 18, T 6 N, R 9 E; ALL IN DANE COUNTY, WISCONSIN.

RELOCATION ORDER FITCHRONA ROAD TONTO TRAIL - NESBITT ROAD DANE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF FITCHBURG DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF FITCHBURG HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF FITCHBURG, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 25-3492-4.02
SHEET 2 OF 2
AMENDMENT NO:___

4

4

RW COORDINATE TABLE

POINT	Y	X
403	454759.753	794314.552
404	454770.341	794354.734
405	454769.363	794387.722
407	455064.348	794311.723
408	455149.268	794313.785
409	455286.151	794317.109
410	455336.373	794304.122
411	455451.606	794291.033
412	455501.516	794296.862
413	455531.041	794323.056
414	455713.900	794327.496
415	455777.702	794329.046
416	455903.616	794323.540
417	455903.439	794332.099
418	456089.482	794336.617
419	456089.581	794343.629
420	456088.581	794415.570
421	456025.206	794425.572
422	455498.099	794416.822
423	455488.687	794428.405
424	455432.846	794441.034
425	455464.459	794580.817
426	455430.972	794582.350
427	455398.171	794437.311
428	455384.590	794411.937
429	455364.825	794397.607
430	455299.834	794396.528
431	455199.566	794411.866
432	455159.571	794411.202
433	455109.861	794393.374
434	455110.408	794360.379
435	455508.687	794437.000
436	455547.454	794437.644
437	455508.962	794478.617
460	455415.752	794365.448
469	455199.151	794436.863
470	455184.153	794436.614
471	455184.568	794411.617
1111	454759.856	794304.329
1131	455508.685	794464.574
1154	456090.045	794376.642

RW STATION OFFSET TABLE

POINT	STATION	OFFSET
403	114+08.63	-40.00'
404	114+19.89	0.00'
405	114+19.46	33.00'
407	117+13.14	-47.88'
408	117+98.08	-47.23'
409	119+35.00	-46.18'
410	119+85.00	-60.00'
411	121+00.00	-75.00'
412	121+50.00	-70.00'
413	121+79.96	-44.30'
414	123+62.86	-42.90'
415	124+26.68	-42.41'
416	125+52.49	-50.00'
417	125+52.45	-41.44'
418	127+38.54	-40.01'
419	127+38.76	-33.00'
420	127+38.95	38.95'
421	126+75.75	50.00'
422	121+48.57	50.00'
423	121+39.36	61.74'
424	200+77.49	0.00'
425	202+20.81	0.00'
426	202+14.92	33.00'
427	120+49.00	72.15'
428	120+35.00	47.00'
429	120+15.00	33.00'
430	119+50.00	33.00'
431	118+50.00	50.00'
432	118+10.00	50.00'
433	117+60.00	33.00'
434	117+60.00	0.00'
435	121+59.50	70.00'
436	121+98.27	70.00'
437	121+60.46	111.61'
460	120+65.39	0.00'
469	118+50.00	75.00'
470	118+35.00	75.00'
471	118+35.00	50.00'
1111	114+08.57	-50.22'
1131	121+59.95	97.57'
1154	127+39.77	0.00'

TLE STATION OFFSET TABLE

POINT	STATION	OFFSET
321	114+19.32	43.00'
322	115+50.00	43.00'
323	117+20.00	53.00'
325	119+70.00	41.00'
326	120+10.00	41.00'
327	120+30.00	50.00'
328	120+44.30	73.99'
329	202+14.02	38.00'
330	203+20.00	33.00'
331	203+20.00	38.00'
332	203+50.00	38.00'
333	203+50.00	33.00'
334	121+59.95	97.30'
335	121+93.72	75.00'
336	122+40.00	75.00'
337	122+40.00	70.00'
338	126+35.00	70.00'
339	126+35.00	75.00'
340	127+05.33	75.00'
341	127+04.04	70.00'
342	119+35.00	-70.00'
343	119+92.93	-70.00'
344	119+93.01	-85.00'
345	120+33.10	-85.00'
346	120+33.03	-71.31'
347	120+99.92	-80.03'
348	121+52.06	-74.82'
349	121+87.70	-44.24'
350	122+45.00	-43.80'
351	122+45.00	-48.80'
352	123+62.90	-47.90'
353	124+26.72	-55.00'
354	125+52.54	-60.00'
355	125+67.54	-60.00'
356	125+67.54	-41.32'

RW COURSE TABLE

COURSE	BEARING	DISTANCE
1101-404	N00°57'04"E	1319.89'
404-403	S75°14'14"W	41.55'
403-1111	N89°25'13"W	10.22'
1111-407	N01°23'28"E	304.58'
407-408	N01°23'28"E	84.94'
408-409	N01°23'28"E	136.92'
409-410	N14°29'55"W	51.87'
410-411	N06°28'49"W	115.97'
411-412	N06°39'42"E	50.25'
412-413	N41°34'45"E	39.47'
413-414	N01°23'28"E	182.91'
414-415	N01°23'28"E	63.82'
415-418	N01°23'28"E	311.87'
418-419	N89°11'39"E	7.01'
419-1154	N89°11'39"E	33.02'
1154-420	S87°50'45"E	38.96'
420-421	S08°58'10"E	64.16'
421-422	S00°57'04"W	527.18'
422-423	S50°54'16"E	14.92'
423-424	S12°44'36"E	57.25'
424-425	N77°15'24"E	143.31'
425-426	S02°37'17"E	33.52'
426-427	S77°15'24"W	148.70'
427-428	S61°50'36"W	28.78'
428-429	S35°56'35"W	24.41'
429-430	S00°57'04"W	65.00'
430-431	S08°41'49"E	101.43'
431-469	S89°02'56"E	25.00'
469-470	S00°57'04"W	15.00'
470-471	N89°02'56"W	25.00'
431-471	S00°57'04"W	15.00'
471-432	S00°57'04"W	25.00'
431-432	S00°57'04"W	40.00'
432-433	S19°43'45"W	52.81'
433-405	S00°57'04"W	340.54'
405-404	N88°18'06"W	33.00'
413-409	S01°23'28"W	244.96'
415-416	N02°30'13"W	126.03'
416-417	S88°48'39"E	8.56'
417-415	S01°23'28"W	125.77'
422-435	N62°18'49"E	22.79'
435-436	N00°57'04"E	38.77'
436-437	S46°47'17"E	56.22'
437-1131	SEE CURVE DATA SHEET 1	
1131-435	N89°59'51"W	27.57'
434-460	N00°57'04"E	305.39'
460-424	N77°15'24"E	77.49'
424-425	N77°15'24"E	143.31'
404-434	N00°57'04"E	340.11'
460-1154	N00°57'04"E	674.39'

EXISTING MONUMENTS

POINT	Y	X	DESC.
1101	453450.637	794332.825	BRASS CAP
1111	454759.856	794304.329	1-1/2" IRON PIPE
1112	454759.649	794314.558	3/4" REBAR
1114	454912.490	794307.984	2" IRON PIPE
1115	455203.457	794394.920	1" IRON PIPE
1116	455149.177	794313.435	2" IRON PIPE
1117	455124.041	794313.153	2" IRON PIPE
1118	455124.886	794288.018	2" IRON PIPE
1119	455064.401	794311.508	1" IRON PIPE
1120	455128.127	794137.872	3/4" REBAR
1121	455067.832	794161.555	3/4" REBAR
1125	455389.361	794397.800	1" IRON PIPE
1126	455384.017	794319.251	1" REBAR
1127	455343.942	794318.021	1" REBAR
1128	455430.996	794582.349	3/4" REBAR
1129	455497.902	794547.535	1-1/4" REBAR
1130	455517.460	794543.128	3/4" REBAR
1131	SEE RW COORDINATE TABLE		3/4" REBAR
1132	455488.650	794464.492	1-1/4" REBAR
1133	455488.605	794428.340	1-1/4" REBAR
1134	455498.053	794416.740	1-1/4" REBAR
1135	455493.975	794321.797	1-1/2" IRON PIPE
1136	455493.811	794321.840	1-1/2" IRON PIPE
1137	455777.627	794331.518	3/4" REBAR
1138	455780.656	794179.087	3/4" REBAR
1139	455777.663	794178.970	1-1/4" IRON PIPE
1141	455903.400	794333.586	1-1/4" IRON PIPE
1142	455903.376	794332.667	1" IRON PIPE
1143	455717.193	794177.532	1" IRON PIPE
1148	456054.672	794456.661	1-1/4" REBAR
1149	456025.183	794425.485	1-1/4" REBAR
1150	456053.162	794446.027	3/4" REBAR
1151	456122.255	794417.197	1-1/4" IRON PIPE
1152	456089.601	794336.623	3/4" REBAR
1153	456089.568	794343.393	3/4" REBAR
1154	456090.045	794376.642	NAIL/WASH

TRANSPORTATION PROJECT PLAT NO: 25-3492 - 4.03

THAT PART OF THE SE1/4 OF THE SE1/4 OF SECTION 12, T 6 N, R 8 E, TOWN OF VERONA, AND PART OF THE SW1/4 OF THE SW1/4 OF SECTION 7, T 6 N, R 9 E, CITY OF FITCHBURG, ALL IN DANE COUNTY, WISCONSIN.

RELOCATION ORDER FITCHRONA ROAD TONTO TRAIL - NESBITT ROAD DANE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF FITCHBURG DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF FITCHBURG HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF FITCHBURG, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 25-3492-4.03
AMENDMENT NO:___

BASIS OF EXISTING RIGHT OF WAY

ROAD NAME	PROJECT/SURVEY	V.	P.	DOC.
FITCHRONA RD	QUARRY VISTA SUBD	60-038A	186	5164639
FITCHRONA RD	CSM 457	2	252	1279526
FITCHRONA RD	CSM 2513	10	60	1531530
QUARRY VISTA DR	QUARRY VISTA SUBD	60-038A	186	5164639

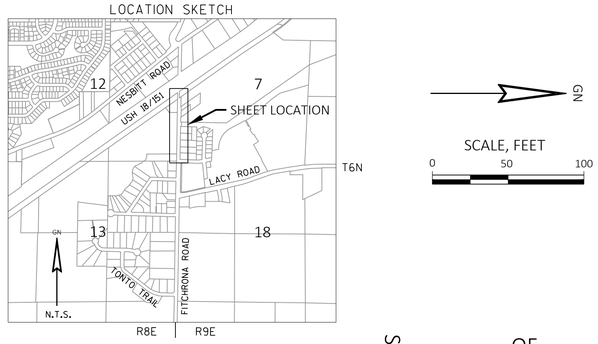
NOTES:

FOR ADDITIONAL INFORMATION, REFER TO THE TITLE SHEET RECORDED IN THE OFFICE OF THE REGISTER DEEDS IN DANE COUNTY, AS SHEET 2 OF 2 OF DOCUMENT NUMBER ??????? AND FILED IN VOL. ???, PG. ??.

POSITIONS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

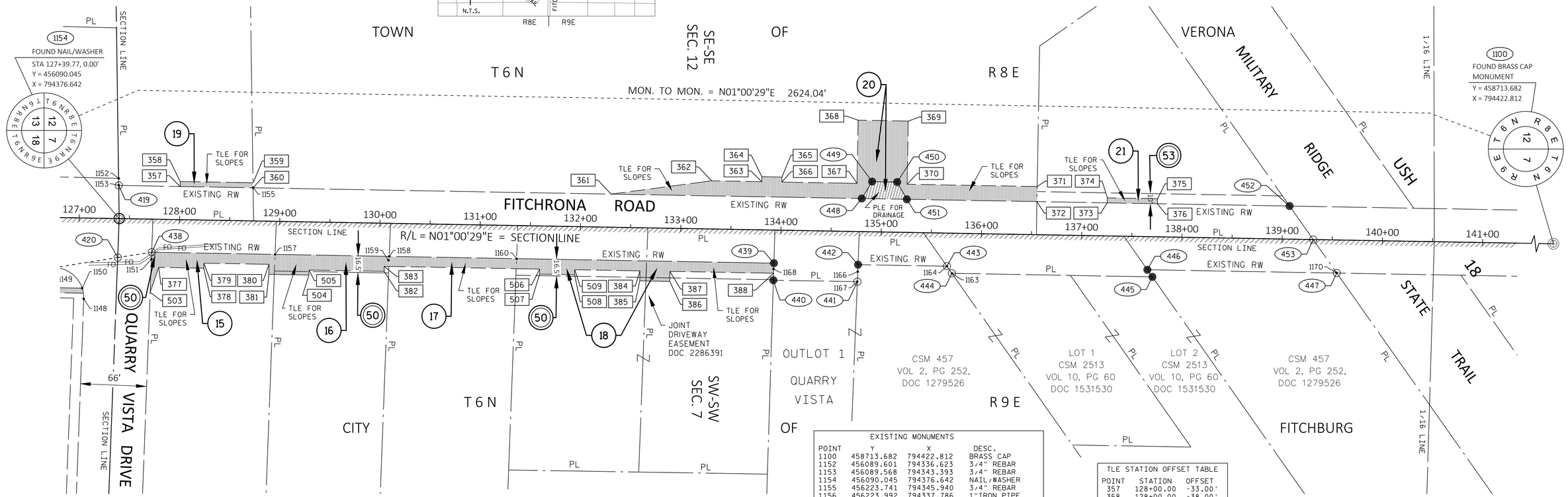
ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

LOCATION SKETCH



GN

SCALE, FEET
0 50 100



EXISTING MONUMENTS			
POINT	Y	X	DESC.
1100	458713.682	794422.812	BRASS CAP
1152	456089.601	794336.623	¾" REBAR
1153	456089.568	794343.393	¾" REBAR
1154	456090.045	794376.642	NAIL/WASHER
1155	456223.741	794345.940	¾" REBAR
1156	456223.992	794337.786	1"IRON PIPE
1157	456245.539	794412.340	¾" REBAR
1158	456359.419	794414.365	¾" REBAR
1159	456358.519	794418.275	1"IRON PIPE
1160	456486.435	794416.732	¾" REBAR
1163	456920.753	794431.335	1"IRON PIPE
1164	456915.706	794424.204	¾" REBAR
1166	456826.712	794429.587	¾" REBAR
1167	456826.317	794439.545	1-1/4" REBAR
1168	456742.792	794426.918	1"IRON PIPE
1169	457007.716	794203.556	1-1/4"IRON PIPE
1170	457304.419	794430.773	¾" REBAR

TLE STATION OFFSET TABLE		
POINT	STATION	OFFSET
357	128+00.00	-33.00'
358	128+00.00	-38.00'
359	128+72.64	-38.00'
360	128+72.79	-33.00'
361	132+30.00	-33.00'
362	133+30.00	-48.00'
363	133+80.00	-48.00'
364	133+80.00	-53.00'
365	134+00.00	-53.00'
366	134+00.00	-48.00'
367	134+75.00	-48.00'
368	134+75.00	-111.00'
369	135+25.00	-111.00'
370	135+25.00	-48.00'
371	136+54.77	-48.00'
372	136+54.77	-33.00'
373	137+25.00	-33.00'
374	137+25.00	-38.00'
375	137+75.00	-38.00'
376	137+75.00	-33.00'
377	127+72.50	48.00'
378	128+25.00	48.00'
379	128+25.00	43.00'
380	128+90.00	43.00'
381	128+90.00	53.00'
382	130+05.00	48.00'
383	130+05.00	43.00'
384	132+60.00	43.00'
385	132+60.00	53.00'
386	132+90.00	53.00'
387	132+90.00	43.00'
388	133+93.37	43.00'
504	129+30.00	53.00'
505	129+30.00	48.00'
506	131+60.00	43.00'
507	131+60.00	48.00'
508	131+95.00	48.00'
509	131+95.00	43.00'

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED	EASEMENT VOL. PG. DOC
50	MT. VERNON TELEPHONE COMPANY D/B/A/ TDS TELECOM (COMMUNICATIONS)	RELEASE OF RIGHTS	DOC 3475849, PARCEL 16 DOC 3475850, PARCEL 18 NO EASEMENT, PARCEL 15
53	MADISON GAS AND ELECTRIC COMPANY (ELEICTRIC)	RELEASE OF RIGHTS	DOC 5264443, PARCEL 21

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	PLE ACRES	TLE ACRES
15	CRAIG A. PRINGLE, TRUSTEE OF THE CRAIG A. PRINGLE LIVING TRUST DATED MAY 1, 2018	TLE	-----	-----	-----	-----	0.038
16	JASON SLAYBAUGH	TLE	-----	-----	-----	-----	0.043
17	STARKY RIOS AND JASMINE SAEZ	TLE	-----	-----	-----	-----	0.029
18	JOHN H. ELLINGER	TLE	-----	-----	-----	-----	0.070
19	LARRY J. STARCZYNSKI AND SHERRY L. STARCZYNSKI	TLE	-----	-----	-----	-----	0.008
20	DANE COUNTY	PLE, TLE	-----	-----	-----	0.014	0.190
21	MADISON METROPOLITAN SEWERAGE DISTRICT	TLE	-----	-----	-----	-----	0.006

RW COURSE TABLE		
COURSE	BEARING	DISTANCE
1154-419	S89°11'39"W	33.02'
419-448	N01°00'29"E	741.27'
448-451	N01°00'29"E	45.00'
451-452	N01°00'29"E	381.83'
452-453	N54°50'05"E	40.88'
453-447	N54°50'05"E	40.88'
447-446	S01°00'29"W	188.98'
446-445	N54°56'29"E	8.66'
445-444	S01°00'29"W	200.00'
444-443	S54°56'29"W	8.66'
443-442	S01°00'29"W	88.67'
442-441	S87°44'37"E	17.00'
441-440	S01°00'29"W	83.78'
440-439	N88°14'54"W	17.00'
439-438	S01°00'29"W	620.70'
438-420	S08°58'10"E	34.33'
420-1154	N87°50'45"W	38.96'
448-449	N58°31'35"W	19.72'
449-450	N01°00'29"E	25.00'
450-451	N60°32'33"E	19.72'

RW COORDINATE TABLE		
POINT	Y	X
419	456089.581	794343.629
420	456088.581	794415.570
438	456122.487	794410.218
439	456743.095	794421.139
440	456742.575	794438.133
441	456826.342	794439.607
442	456827.012	794422.616
443	456915.671	794424.176
444	456920.645	794431.265
445	457120.614	794434.784
446	457115.640	794427.695
447	457304.593	794431.020
448	456830.739	794356.671
449	456841.037	794339.850
450	456866.033	794340.290
451	456875.732	794357.463
452	457257.504	794364.181
453	457281.049	794397.601
1154	456090.045	794376.642

RW STATION OFFSET TABLE		
POINT	STATION	OFFSET
419	127+38.76	-33.00'
420	127+38.95	38.95'
438	127+72.80	33.00'
439	133+93.50	33.00'
440	133+93.28	50.00'
441	134+77.06	50.00'
442	134+77.43	33.00'
443	135+66.11	33.00'
444	135+71.20	40.00'
445	137+71.20	40.00'
446	137+66.11	33.00'
447	139+55.09	33.00'
448	134+80.00	-33.00'
449	134+90.00	-50.00'
450	135+15.00	-50.00'
451	135+25.00	-33.00'
452	139+06.83	-33.00'
453	139+30.96	0.00'
1154	127+39.77	0.00'

ORIGINAL PLAT PREPARED BY: AECOM

I, DONALD J. BUZA, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF FITCHBURG, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 25-3492-4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: _____ DATE:_____

PRINT NAME: DONALD J. BUZA

REGISTRATION NUMBER: S-2338

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF FITCHBURG

SIGNATURE: _____ DATE: _____

PRINT NAME: TIM VOELKER, DIRECTOR OF PUBLIC WORKS

FILE NAME : C:\USERS\DONALD.BUZA\AECOM\60703122 - FITCHRONA RD ENGR DESIGN - GENERAL\900_CAD_GIS\910_CAD\60703122\SHEETSPLAN\040101-TPP.DWG
PLOT DATE : 7/10/2024 9:41 AM
PLOT BY : BUZA, DONALD
PLOT NAME :
PLOT SCALE :
APPRAISAL PLAT DATE : _____

BASIS OF EXISTING RIGHT OF WAY				
ROAD NAME	PROJECT/SURVEY	V.	P.	DOC.
FITCHRONA RD	TPP No R-123-18-2018-4.01 AMENDMENT NO. 1	61-006A	32,	5473183
FITCHRONA RD	TPP No R-123-18-2018-4.02 AMENDMENT NO. 2	61-006A	33	5473184
USH 18/151	F 017-2(15)			

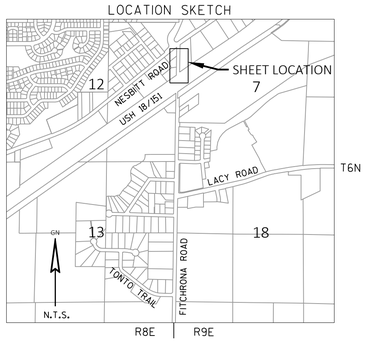
NOTES:

FOR ADDITIONAL INFORMATION, REFER TO THE TITLE SHEET RECORDED IN THE OFFICE OF THE REGISTER DEEDS IN DANE COUNTY, AS SHEET 2 OF 2 OF DOCUMENT NUMBER AND FILED IN VOL. ???, PG. ??.

POSITIONS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

LOCATION SKETCH



GN

SCALE, FEET
0 50 100

TRANSPORTATION PROJECT PLAT NO: 25-3492 - 4.04

THAT PART OF THE NE1/4 OF THE SE1/4 OF SECTION 12, T 6 N, R 8 E, TOWN OF VERONA, AND PART OF THE NW1/4 OF THE SW1/4 OF SECTION 7, T 6 N, R 9 E, CITY OF FITCHBURG, ALL IN DANE COUNTY, WISCONSIN.

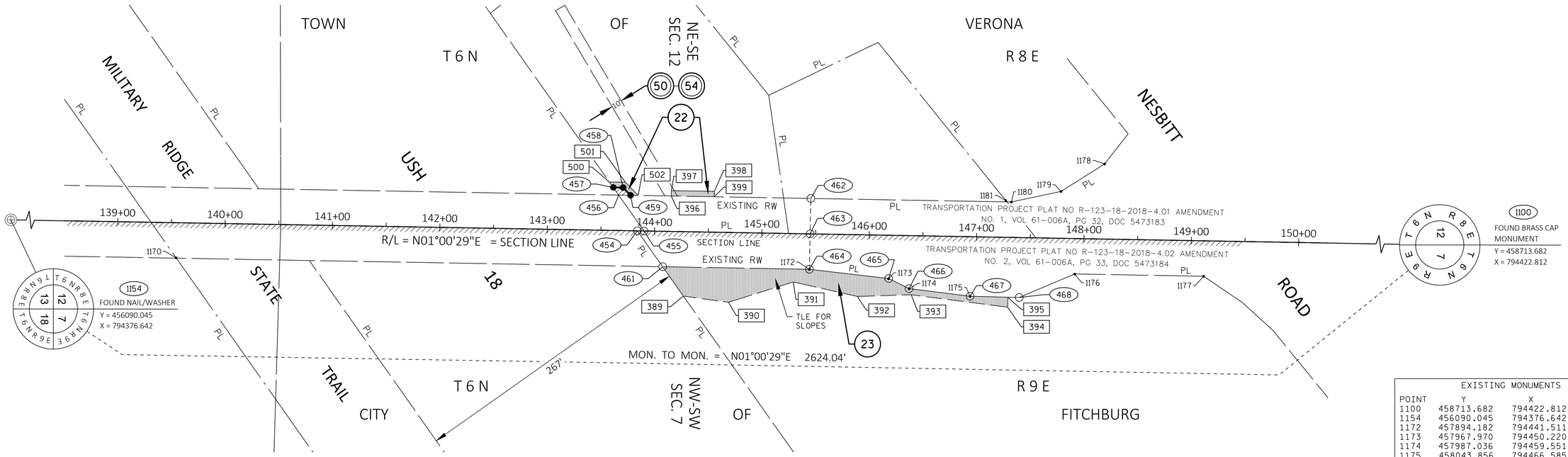
RELOCATION ORDER FITCHRONA ROAD TONTO TRAIL - NESBITT ROAD DANE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF FITCHBURG DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF FITCHBURG HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF FITCHBURG, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 25-3492-4.04
AMENDMENT NO:___

4



EXISTING MONUMENTS			
POINT	Y	X	DESC.
1100	458713.682	794422.812	BRASS CAP
1154	456090.045	794376.642	NAIL/WASHER
1172	457894.182	794441.511	3/4" REBAR
1173	457967.970	794450.220	3/4" REBAR
1174	457987.036	794459.551	3/4" REBAR
1175	458043.856	794466.585	3/4" REBAR
1176	458141.306	794445.875	3/4" REBAR
1177	458261.370	794447.890	3/4" REBAR
1178	458169.151	794343.345	3/4" REBAR
1179	458128.618	794368.935	3/4" REBAR
1180	458082.405	794378.796	3/4" REBAR
1181	458077.128	794377.355	1" IRON PIPE

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED	EASEMENT VOL, PG, DOC
50	MT. VERNON TELEPHONE COMPANY D/B/A/ TDS TELECOM (COMMUNICATIONS)	RELEASE OF RIGHTS	DOC 4078171, PARCEL 22
54	WISCONSIN POWER & LIGHT CO. (ELECTRIC)	RELEASE OF RIGHTS	DOC 4078171, PARCEL 22

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
22	BLUESTONE LLC	TLE	0.002	-----	0.002	0.008
23	STOWELL CENTRAL, LLC	TLE	-----	-----	-----	0.118

RW COURSE TABLE		
COURSE	BEARING	DISTANCE
1154-454	N01°00'29"E	1644.12'
454-455	N01°00'29"E	6.20'
455-456	S54°46'23"W	40.91'
456-457	S54°46'23"W	8.68'
457-458	N01°00'29"E	9.22'
458-459	N46°00'29"E	9.90'
459-456	S01°00'29"W	11.09'
459-462	N01°00'29"E	167.94'
462-463	S88°53'49"E	33.00'
463-464	S88°53'49"E	33.00'
454-461	N54°46'23"E	40.91'
461-464	N01°00'29"E	136.75'
464-465	N06°39'38"E	74.27'
465-466	N26°14'36"E	21.26'
466-467	N07°06'57"E	57.17'
467-468	N01°26'53"E	45.75'

RW COORDINATE TABLE		
POINT	Y	X
454	457733.914	794405.570
455	457740.112	794405.679
456	457716.513	794372.259
457	457711.507	794365.170
458	457720.725	794365.332
459	457727.601	794372.454
460	455415.752	794365.448
461	457757.513	794438.991
462	457895.510	794375.409
463	457894.874	794408.403
464	457894.239	794441.397
465	457968.004	794450.011
466	457987.071	794459.411
467	458043.801	794466.493
468	458089.532	794467.649

RW STATION OFFSET TABLE		
POINT	STATION	OFFSET
454	143+83.90	0.00'
455	143+90.09	0.00'
456	143+65.91	-33.00'
457	143+60.78	-40.00'
458	143+70.00	-40.00'
459	143+77.00	-33.00'
460	120+65.39	0.00'
461	144+08.08	33.00'
462	145+44.94	-33.00'
463	145+44.88	0.00'
464	145+44.83	33.00'
465	146+18.73	40.315'
466	146+37.96	49.38'
467	146+94.81	55.46'
468	147+40.55	55.81'

TLE STATION OFFSET TABLE		
POINT	STATION	OFFSET
389	144+27.86	60.00'
390	144+70.00	65.00'
391	145+30.00	45.00'
392	145+90.00	57.50'
393	146+40.00	55.00'
394	147+30.00	65.00'
395	147+30.00	55.73'
396	144+15.00	-33.00'
397	144+15.00	-38.00'
398	144+55.00	-38.00'
399	144+55.00	-33.00'
500	143+57.12	-45.00'
501	143+72.07	-45.00'
502	143+84.07	-33.00'
503	127+72.00	73.00'

ORIGINAL PLAT PREPARED BY: AECOM

I, DONALD J. BUZA, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF FITCHBURG, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 25-3492-4.04 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: _____ DATE:_____

PRINT NAME: DONALD J. BUZA

REGISTRATION NUMBER: S-2338

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF FITCHBURG

SIGNATURE: _____ DATE: _____

PRINT NAME: TIM VOELKER, DIRECTOR OF PUBLIC WORKS

FILE NAME : C:\USERS\DONALD.BUZA\AECOM\60703122 - FITCHRONA RD ENGR DESIGN - GENERAL\900_CAD_GIS\910_CAD\60703122\SHEETSPLAN\040101-TPP.DWG
PLOT DATE : 7/10/2024 9:42 AM
PLOT BY : BUZA, DONALD
PLOT NAME :
PLOT SCALE : _____
APPRAISAL PLAT DATE : _____

NOTE: ALL CULVERTS AND STORM STRUCTURES SHOWN ON THE PLAN AND PROFILE SHEETS ARE FOR INFORMATION PURPOSES ONLY. SEE UTILITIES SHEETS FOR DESIGN DETAILS.

FROSTWOOD FARM VI LLC

TONTO TRAIL

LOUIS HOFFMAN ESTATES

AGAPE TRUST

N

ELECTRIC

GAS

CAUTION

TLE

OVERHEAD

TELEPHONE

ASPHALT P.E.

E.X. RW

FITCHRONA RD

11+00 'FS'

12+00 'FS'

13+00 'FS'

14+00 'FS'

15+00 'FS'

MATCH LINE 15+25 'FS'

E.X. UTILITY EASEMENT

FIBER OPTIC

BEGIN CONSTRUCTION
STA. 10+65.00 'FS'
MATCH EXISTING
SAW CUT REQ'D

FITCHBURG MINERALS LLC

LEGEND

- CURB RAMP CURB
- DRIVEWAY CURB
- CONCRETE SIDEWALK 5-INCH & STAMPING COLORED CONCRETE RED BRICK
- MOUNTABLE CURB & MEDIAN
- CONCRETE SIDEWALK OR DRIVEWAY, 7-INCH
- SLOPE INTERCEPTS
- XXXXX SAWCUT

VCL = 260.00
K = 31.79

EXISTING GROUND

PROPOSED PROFILE

STA 10+65.00 'FS'
EL 1019.53

STA 12+00.00
EL 1021.50

STA 12+50.00
EL 1024.50

STA 13+00.00
EL 1028.00

VPT STA 13+32.00 'FS'
VPT EL 1033.25

STA 14+65.00 'FS'
EL 1045.67

STA 15+00.00
EL 1046.50

VPC STA 15+20.00 'FS'
VPC EL 1050.41

1.16%

7.00%

6.00%

5.07%

9.34%

9.25%

8.61%

7.59%

9.25%

PROPOSED EAST DITCH PROFILE

STA 10+65.00
EL 1014.65

VPC STA 10+72.00 'FS'
VPC EL 1019.61

VPI STA 12+02.00 'FS'
VPI EL 1021.12

FINISHED ELEVATION

EXISTING ELEVATION

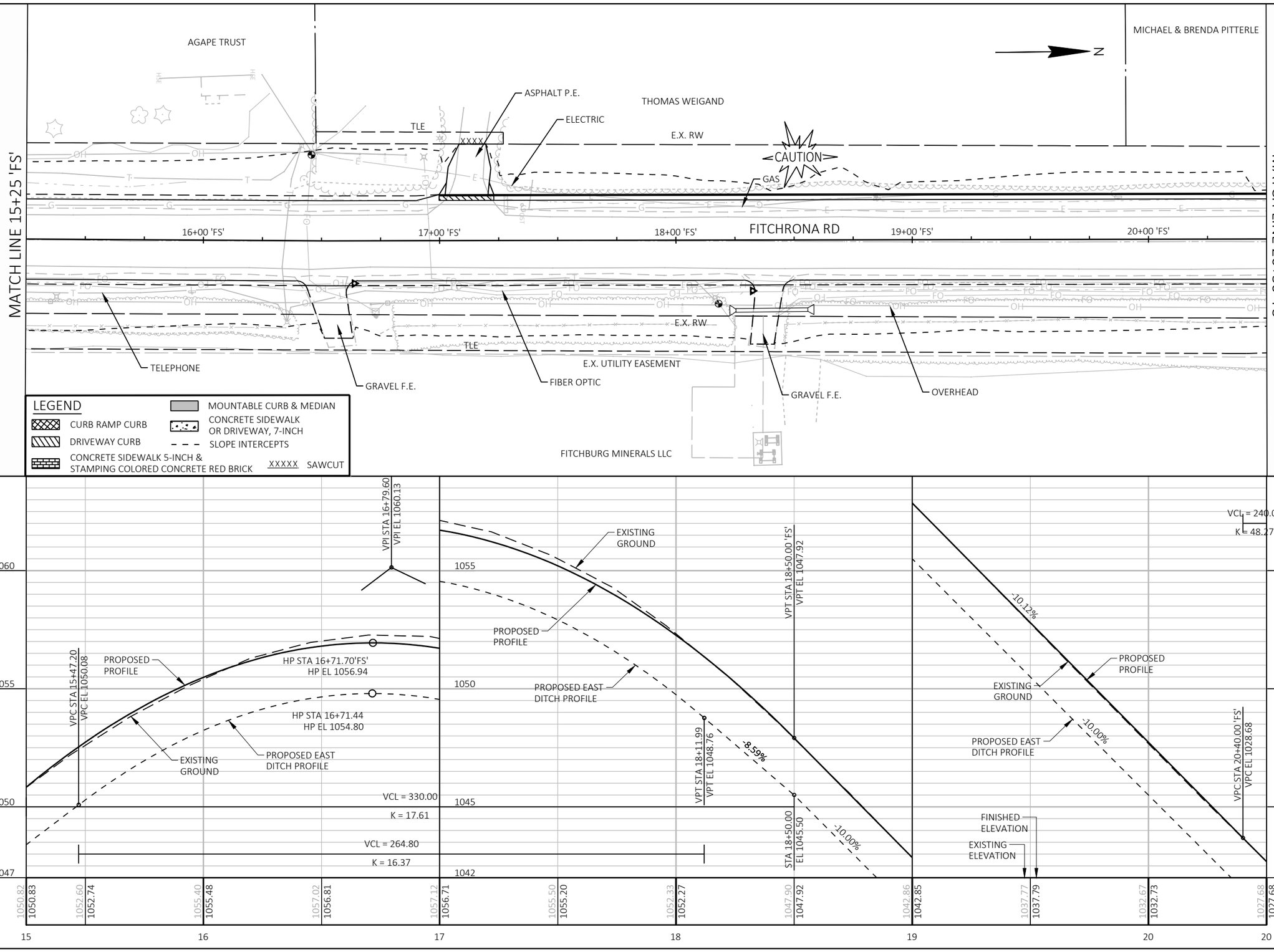
VCL = 330.00
K = 17.61

1030 1025 1020 1015 1014

1040 1035 1030 1025

1050 1045 1040 1035

| | | |



PLAN AND PROFILE
FITCHRONA ROAD 'FS'

THE CITY OF Fitchburg PUBLIC WORKS

PROJECT NO.: 60703122	SCALE: 1 IN:40 FT
SHEET NO.: C-502	DATE: JULY 2024
	REVISION: 100% PLANS

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\Sheets\Plan\050101-pp.dwg Layout: 502 User: czecha Plotted: Jul 10, 2024 - 12:26pm

MICHAEL & BRENDA PITTERLE

SCHULTZ JT REV. TRUST

TIFFANY RAHN

N

CONCRETE P.E.

TLE

E.X. RW

CAUTION

GAS

ELECTRIC

MATCH LINE 20+50 'FS'

MATCH LINE 25+75 'FS'

21+00 'FS'

22+00 'FS'

FITCHRONA RD

23+00 'FS'

24+00 'FS'

25+00 'FS'

E.X. RW

TLE

FIBER OPTIC

E.X. UTILITY EASEMENT

GRAVEL F.E.

OVERHEAD

SANITARY SEWER

FITCHBURG MINERALS LLC

LEGEND

- CURB RAMP CURB
- DRIVEWAY CURB
- CONCRETE SIDEWALK 5-INCH & STAMPING COLORED CONCRETE RED BRICK
- MOUNTABLE CURB & MEDIAN
- CONCRETE SIDEWALK OR DRIVEWAY, 7-INCH
- SLOPE INTERCEPTS
- XXXXX SAWCUT

VCL = 240.00

K = 48.27

PROPOSED PROFILE

PROPOSED EAST DITCH PROFILE

EXISTING GROUND

STA 21+00.00
EL 1020.50

VPI STA 21+60.00 'FS'
VPI EL 1016.54

-7.90%

STA 22+30.00
EL 1010.23

VPT STA 22+80.00 'FS'
VPT EL 1010.36

-5.15%

-5.11%

FINISHED ELEVATION

EXISTING ELEVATION

STA 24+55.00 'FS'
EL 1001.34

STA 24+50.00
EL 999.00

1027.68 1027.68 | 1022.93 1022.98 | 1018.72 1018.80 | 1015.21 1015.14 | 1012.16 1011.99 | 1009.50 1009.33 | 1006.82 1006.75 | 1004.17 1004.18 | 1001.63 1001.60 | 999.45 999.36 | 997.14 997.16 | 995.97 996.06

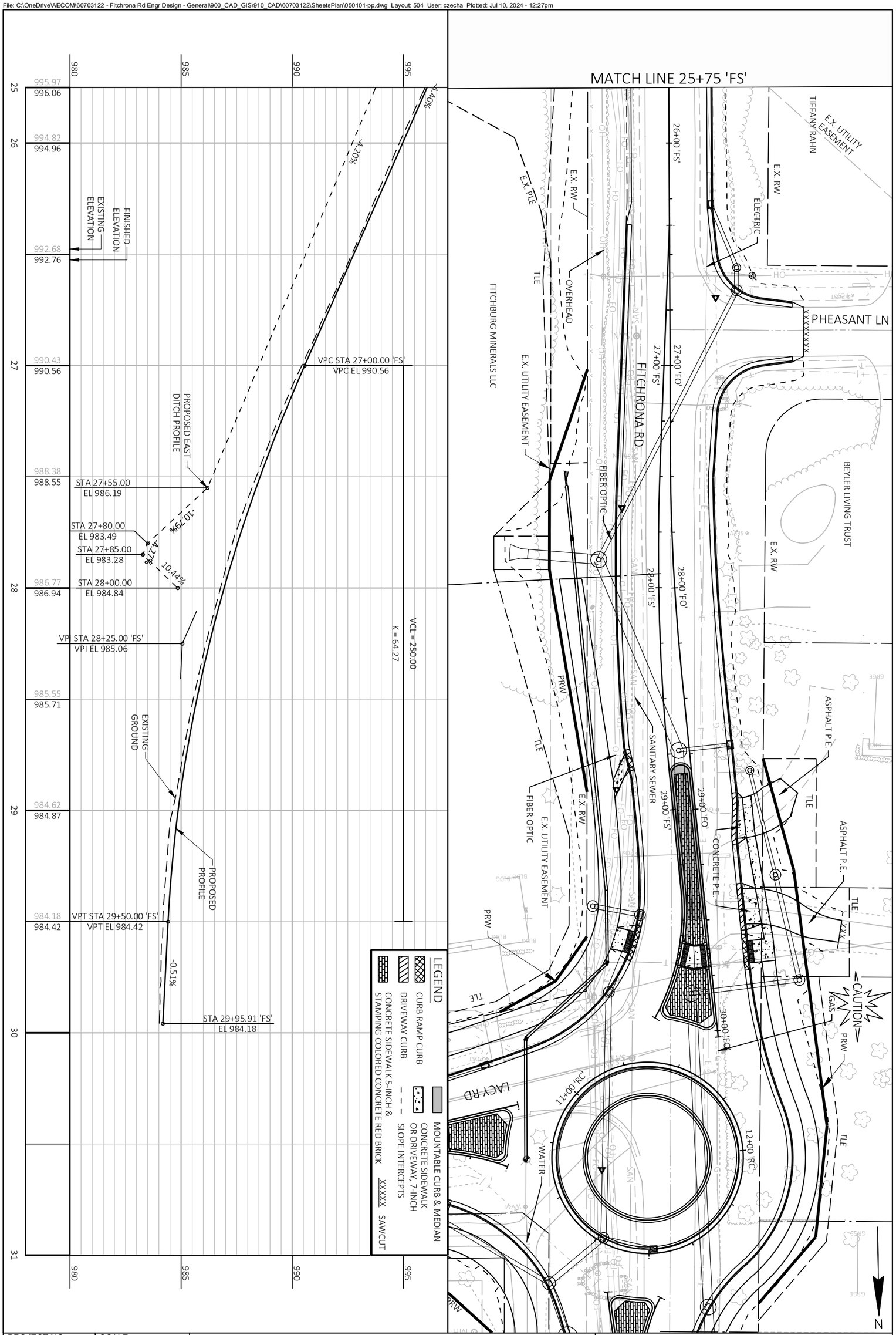
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PLAN AND PROFILE
FITCHRONA ROAD 'FS'

PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	DATE: JULY 2024	REVISION: 100% PLANS
SHEET NO.: C-503			

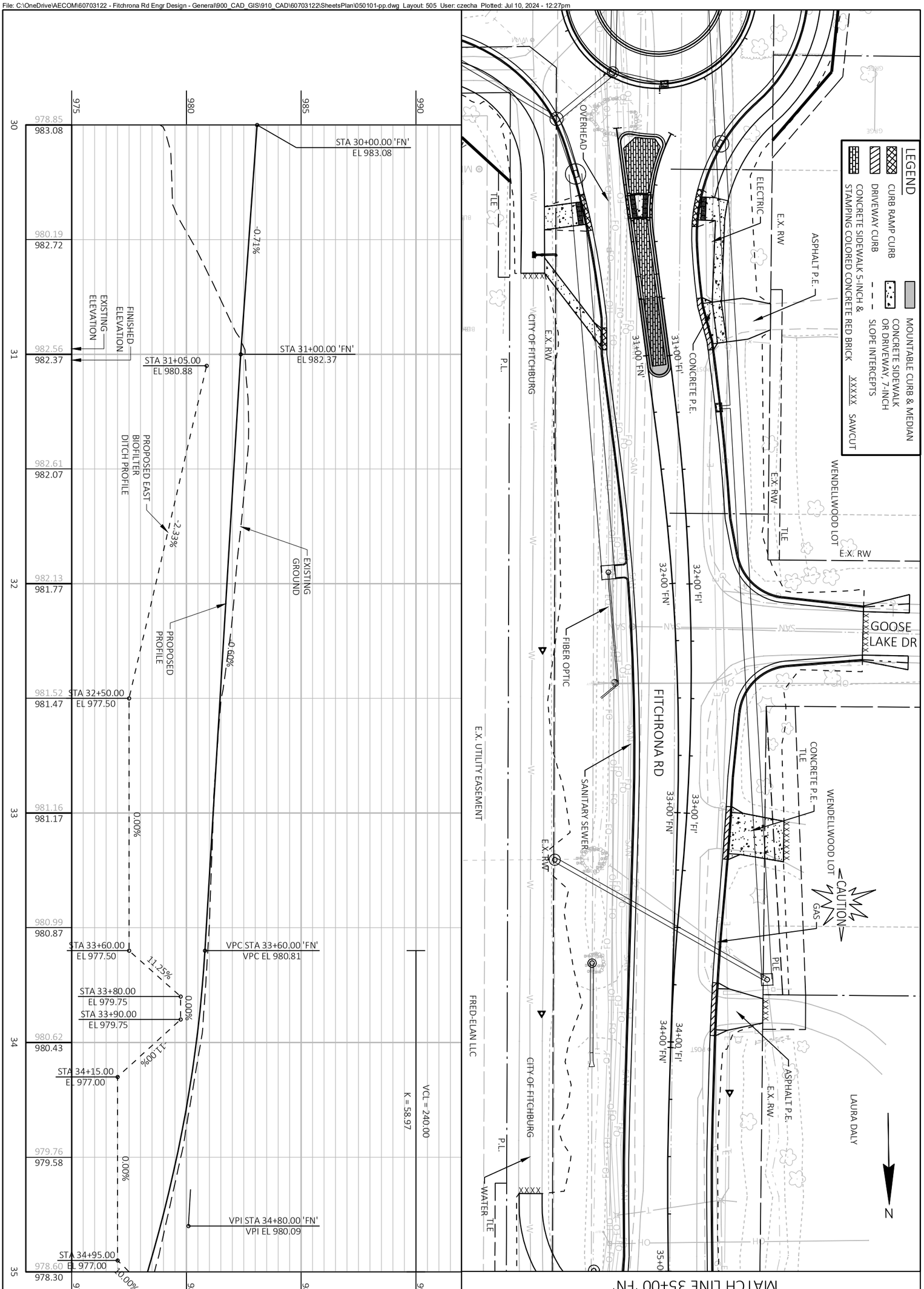
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PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	PLAN AND PROFILE FITCHRONA ROAD 'FS'
SHEET NO.: **C-504**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

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PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	PLAN AND PROFILE	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-505**	DATE: JULY 2024	FITCHRONA ROAD 'FN'	
	REVISION: 100% PLANS		

LEGEND

- CURB RAMP CURB
- DRIVEWAY CURB
- CONCRETE SIDEWALK 5-INCH & STAMPING COLORED CONCRETE RED BRICK
- MOUNTABLE CURB & MEDIAN
- CONCRETE SIDEWALK OR DRIVEWAY, 7-INCH
- SLOPE INTERCEPTS
- XXXXX SAWCUT

DANE COUNTY

N

MATCH LINE 35+00 'FN'

MATCH LINE 40+25 'FN'

LAURA DALY

LARRY & SHERRY STARCZYNSKI

ELECTRIC

CAUTION GAS

WATER

ASPHALT P.E.

E.X. RW

TLE

XXXXX

FITCHRONA RD

36+00 'FN'

37+00 'FN'

38+00 'FN'

39+00 'FN'

40+00 'FN'

CONCRETE P.E.

QUARRY VISTA DR

OVERHEAD

FIBER OPTIC

SANITARY SEWER

GRAVEL P.E.

XXXXXXX

XXXXX

XXXXXXXXXXXXXX

P.L.

TLE

E.X. UTILITY EASEMENT

CRAIG PRINGLE

JASON SLAYBAUGH

STARKY RIOS & JASMINE SAEZ

JOHN ELLINGER

-1.00%

10.00%

-4.67%

0.49%

PROPOSED EAST BIOFILTER DITCH PROFILE

PROPOSED PROFILE

EXISTING GROUND

FINISHED ELEVATION

EXISTING ELEVATION

VCL = 330.00

K = 64.00

VCL = 240.00

K = 58.97

VCL = 120.00

K = 135.38

STA 35+05.00
EL 978.00

STA 35+20.00
EL 977.85

VPT STA 36+00.00 'FN'
VPT EL 974.48

VPC STA 36+45.00 'FN'
VPC EL 972.38

VPI STA 38+10.00 'FN'
VPI EL 964.68

LP STA 39+43.87 'FN'
LP EL 965.40

VPT STA 39+75.00 'FN'
VPT EL 965.48

VPC STA 39+90.00 'FN'
VPC EL 965.55

975 970 965 962

978.60	978.30	977.01	976.61	974.94	974.48	972.54	972.15	970.26	970.05	968.38	968.34	966.86	967.02	966.03	966.09	965.63	965.55	965.59	965.40	965.66	965.60	965.70	965.68

35 36 37 38 39 40 40

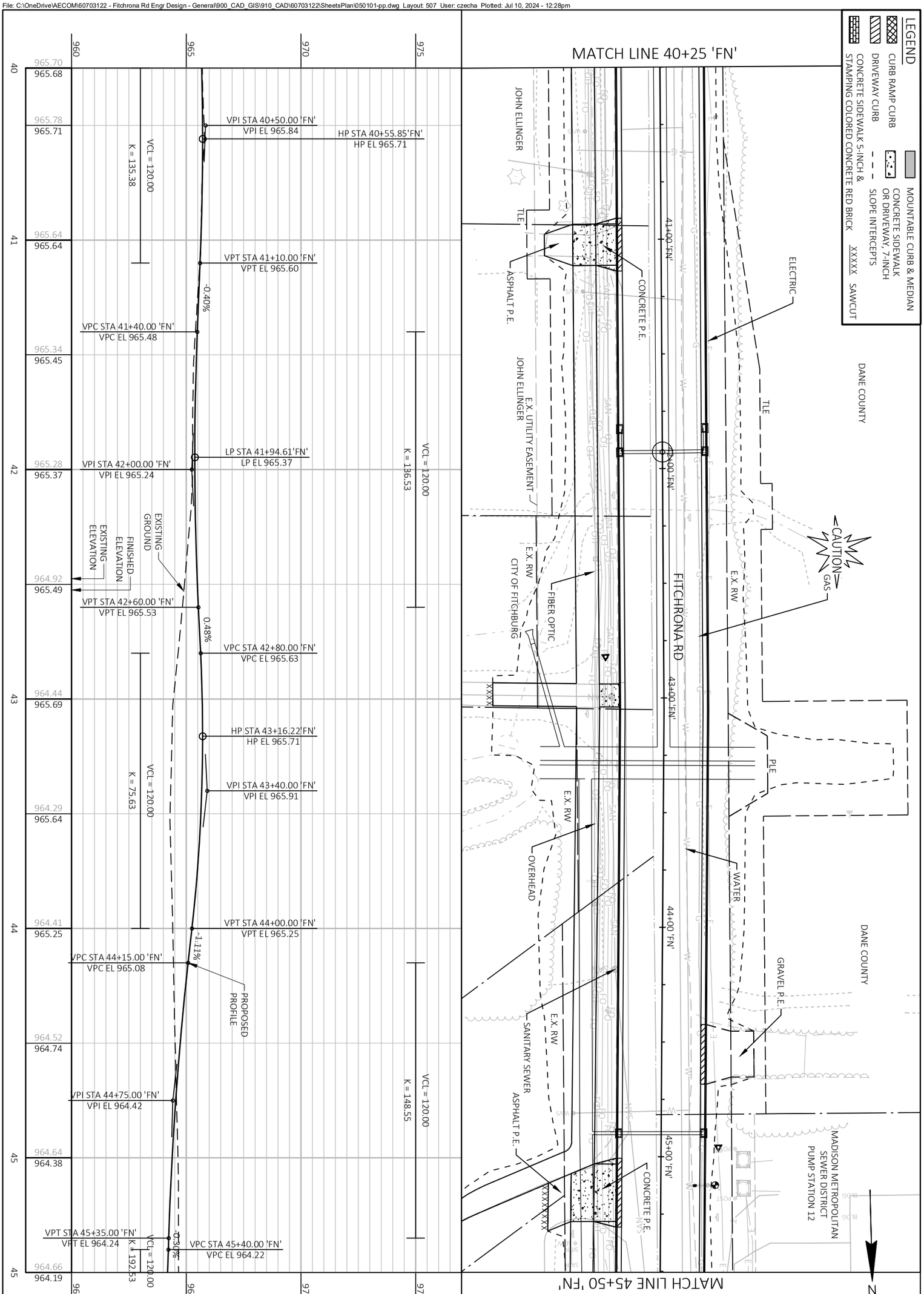
PLAN AND PROFILE
FITCHRONA ROAD 'FN'

THE CITY OF Fitchburg PUBLIC WORKS

PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	
SHEET NO.: C-506	DATE: JULY 2024	REVISION: 100% PLANS

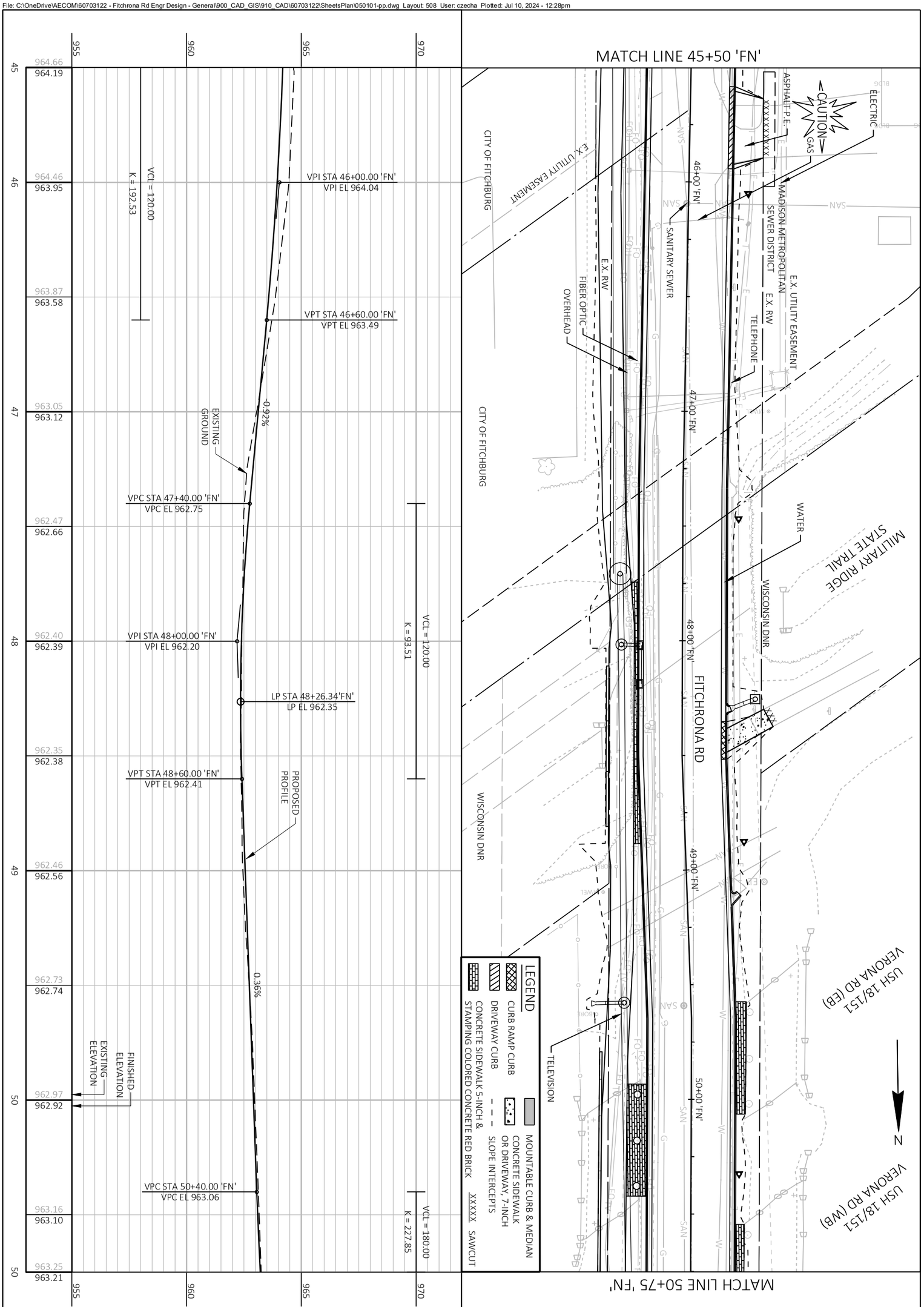
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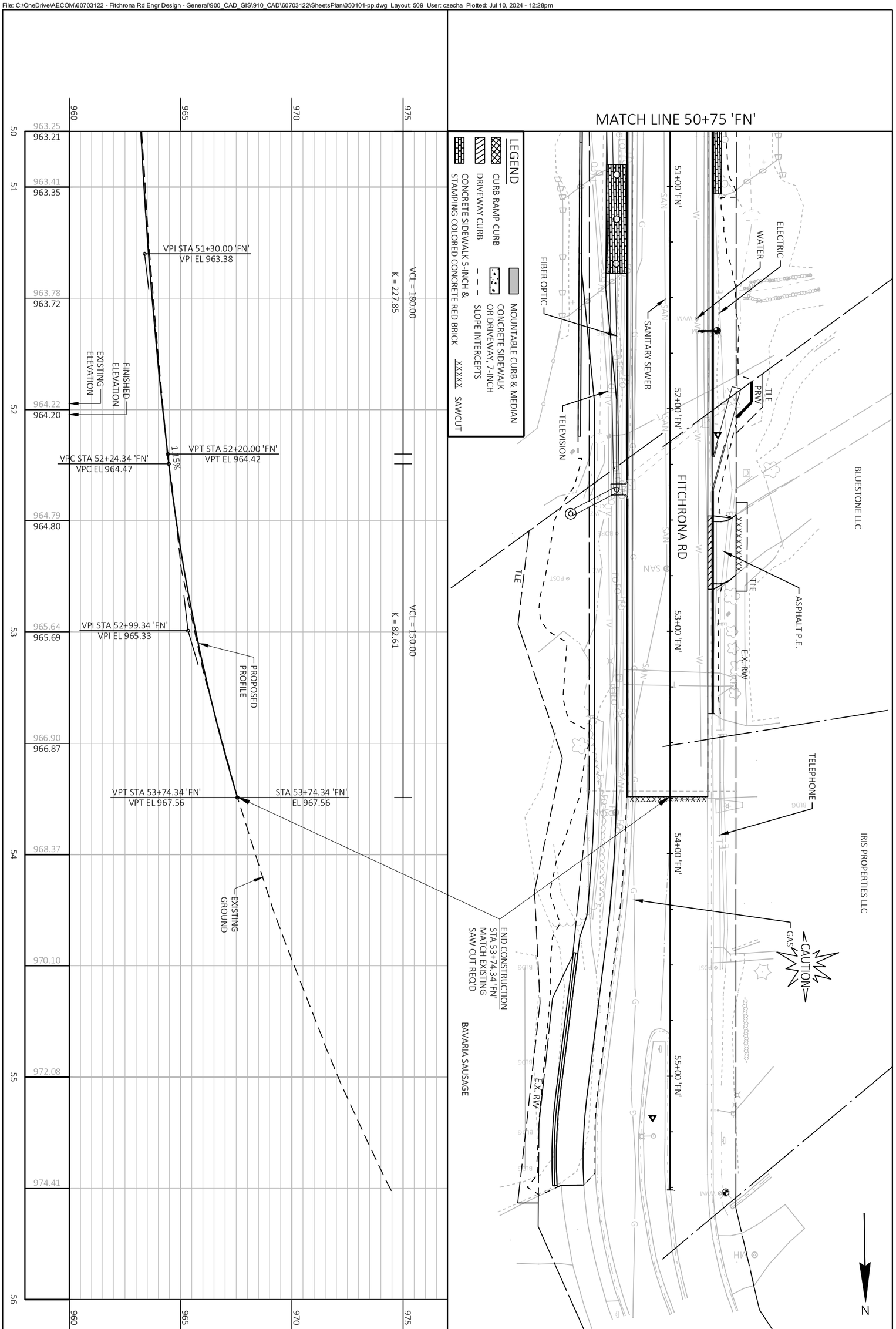
PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	PLAN AND PROFILE	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-507**	DATE: JULY 2024	FITCHRONA ROAD 'FN'	
	REVISION: 100% PLANS		

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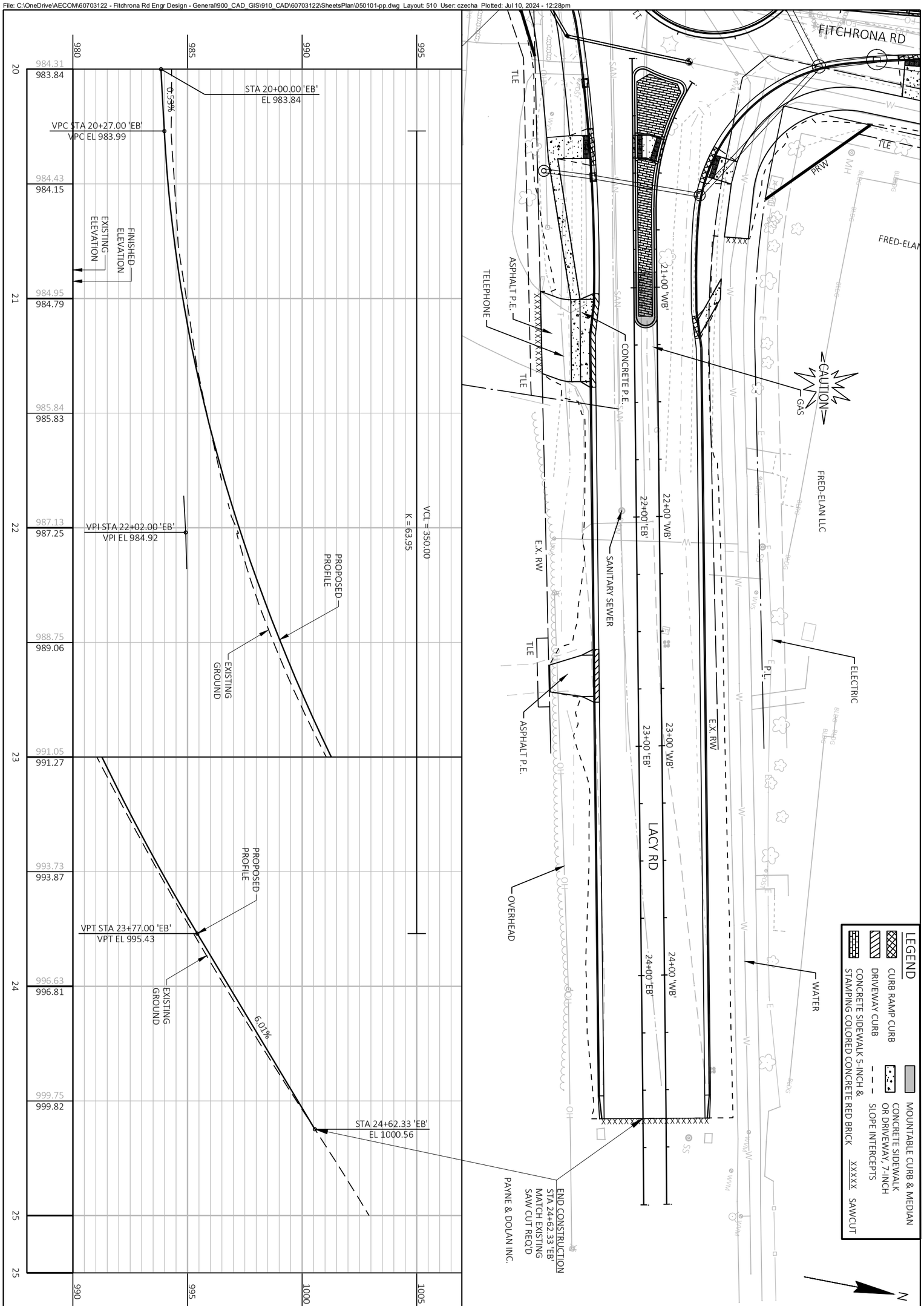
PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	PLAN AND PROFILE	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-508**	DATE: JULY 2024	FITCHRONA ROAD 'FN'	
	REVISION: 100% PLANS		

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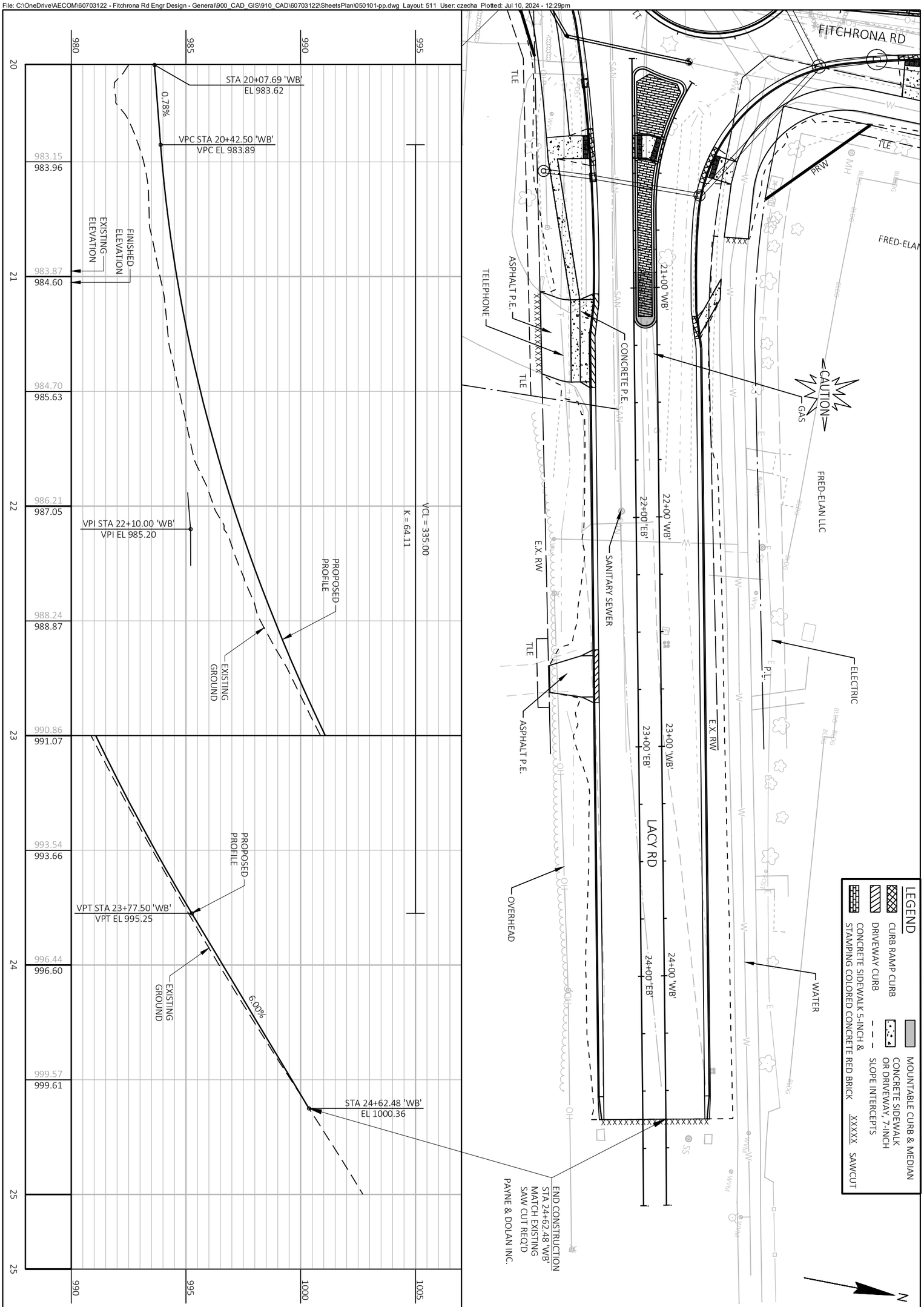
PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	PLAN AND PROFILE FITCHRONA ROAD 'FN'
SHEET NO.: **C-509**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\050101-pp.dwg Layout: 510 User: czecha Plotted: Jul 10, 2024 - 12:28pm



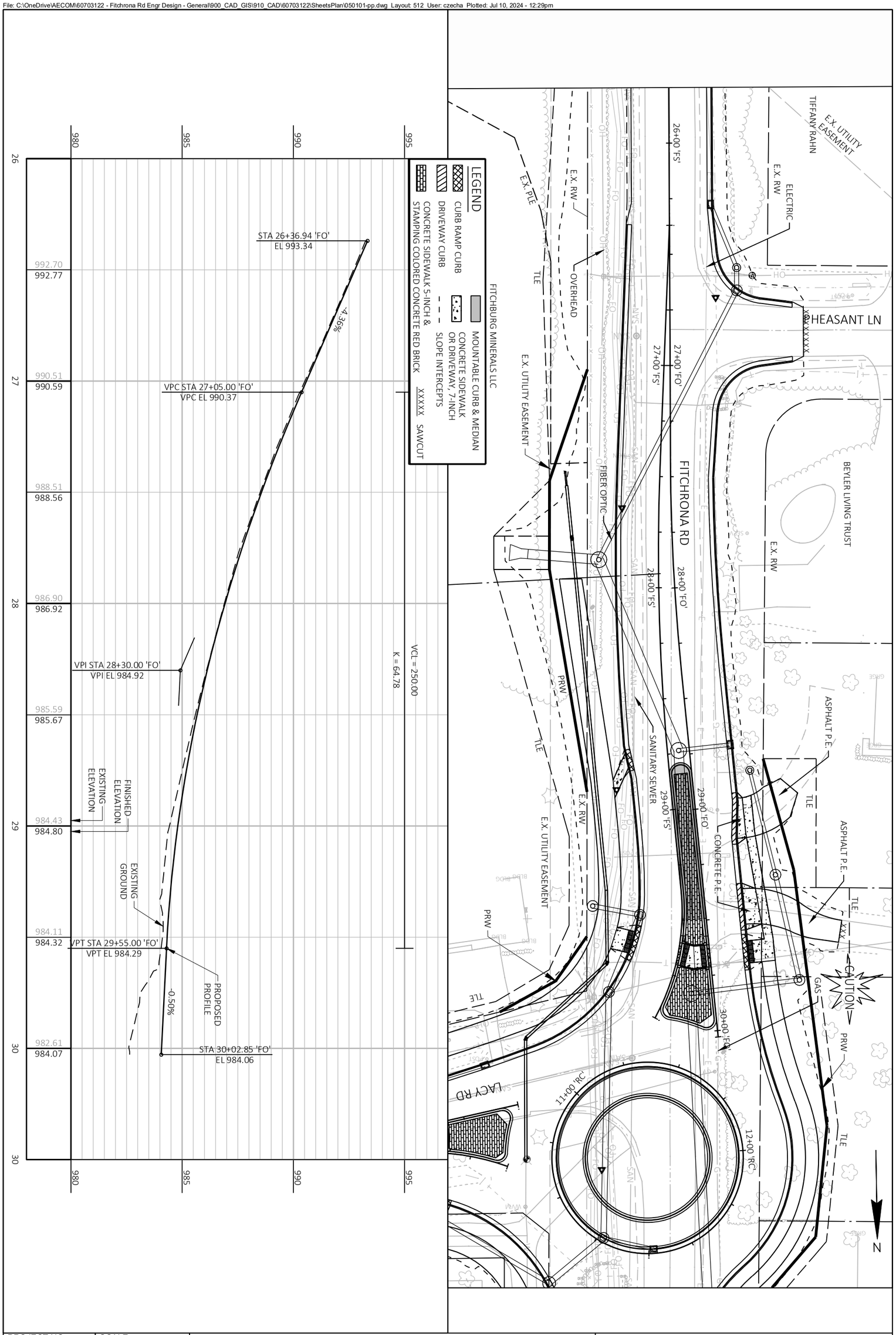
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SHEET NO.: C-510	DATE: JULY 2024	LACY ROAD 'EB'	
	REVISION: 100% PLANS		

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\050101-pp.dwg Layout: 511 User: czecha Plotted: Jul 10, 2024 - 12:29pm



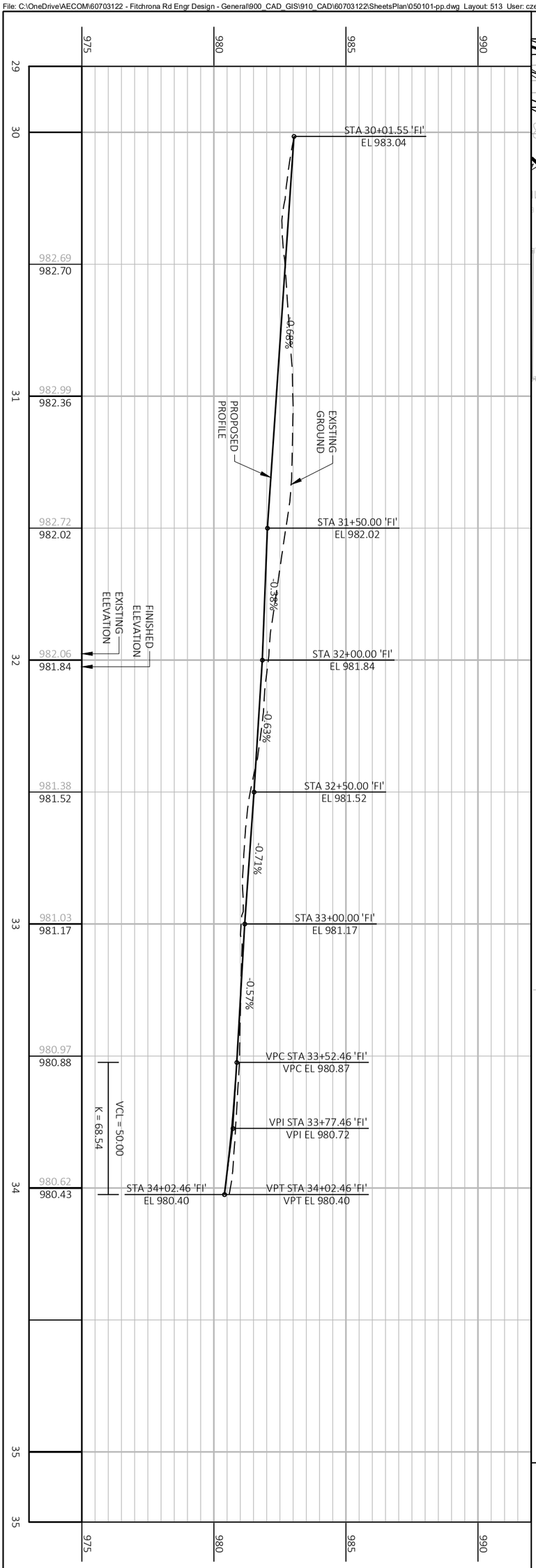
PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	PLAN AND PROFILE	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-511**	DATE: JULY 2024	LACY ROAD 'WB'	
	REVISION: 100% PLANS		

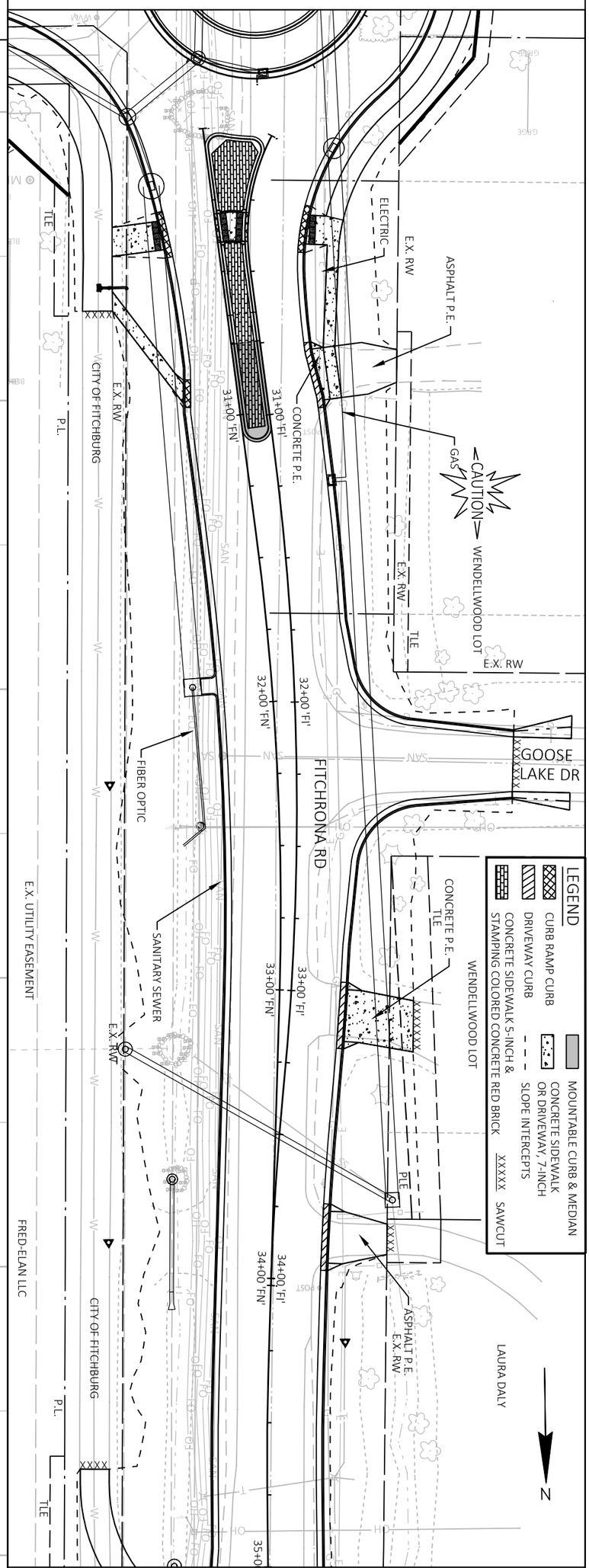
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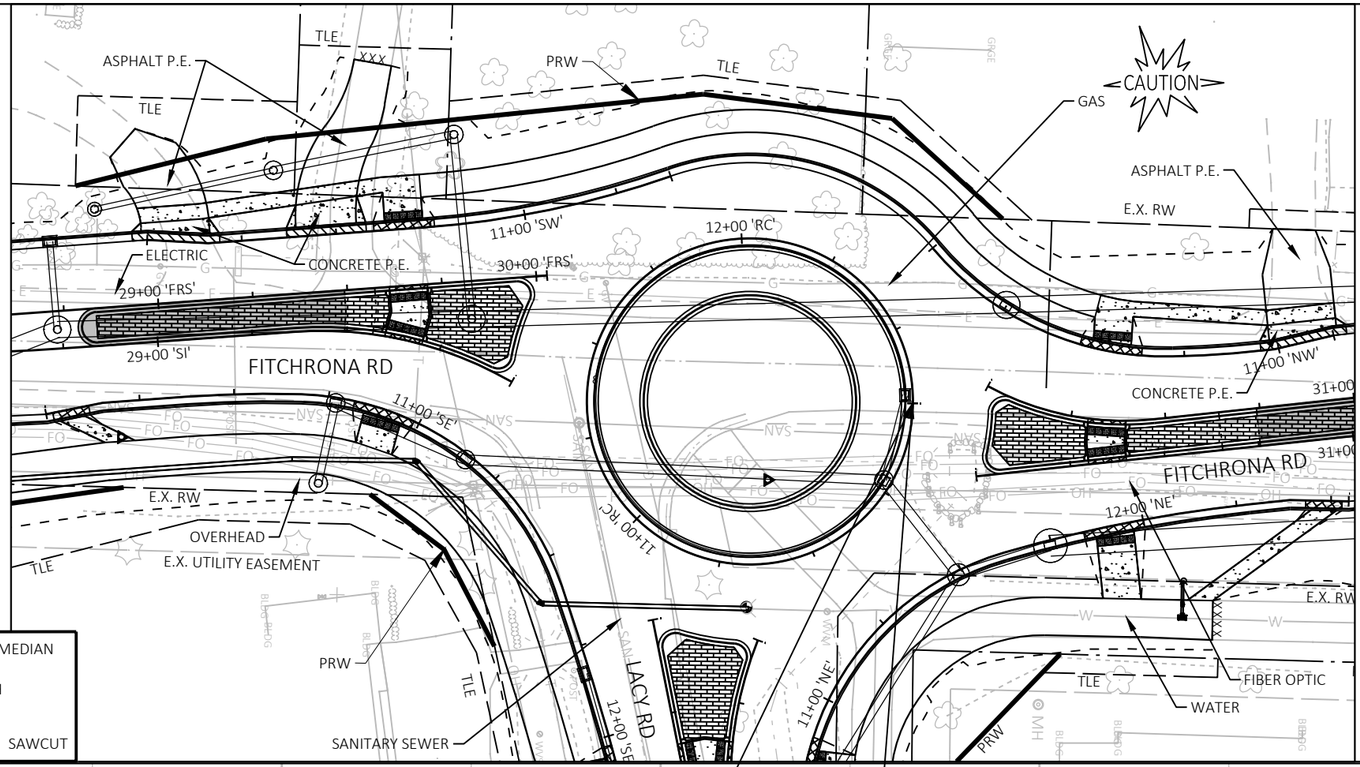
PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	PLAN AND PROFILE FITCHRONA ROAD 'FO'	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-512**	DATE: JULY 2024		
	REVISION: 100% PLANS		

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\050101-pp.dwg Layout: 513 User: czecha Plotted: Jul 10, 2024 - 12:29pm





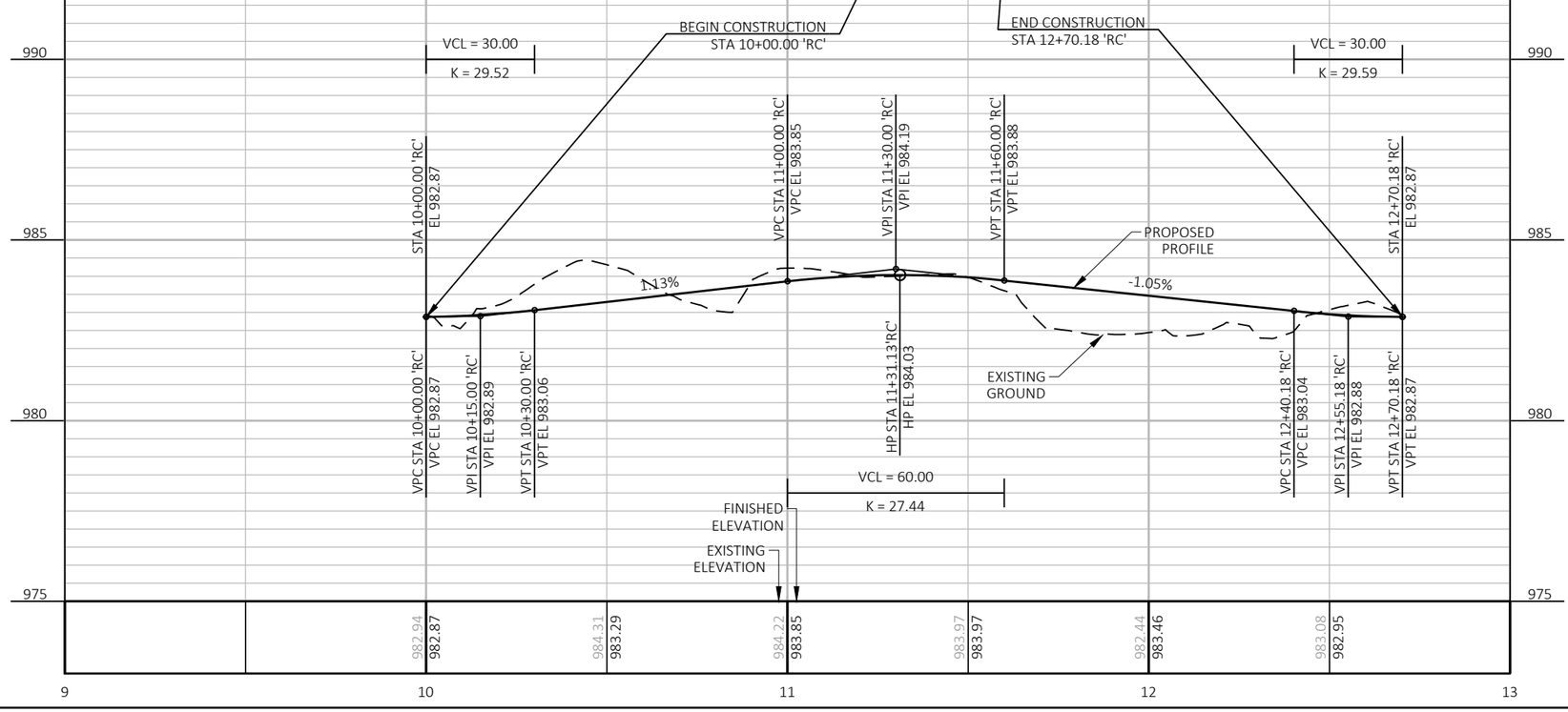
PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	PLAN AND PROFILE	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-513**	DATE: JULY 2024	FITCHRONA ROAD 'FI'	
	REVISION: 100% PLANS		



LEGEND

- CURB RAMP CURB
- DRIVEWAY CURB
- CONCRETE SIDEWALK 5-INCH & STAMPING COLORED CONCRETE RED BRICK
- MOUNTABLE CURB & MEDIAN
- CONCRETE SIDEWALK OR DRIVEWAY, 7-INCH
- SLOPE INTERCEPTS
- XXXXX SAWCUT

N



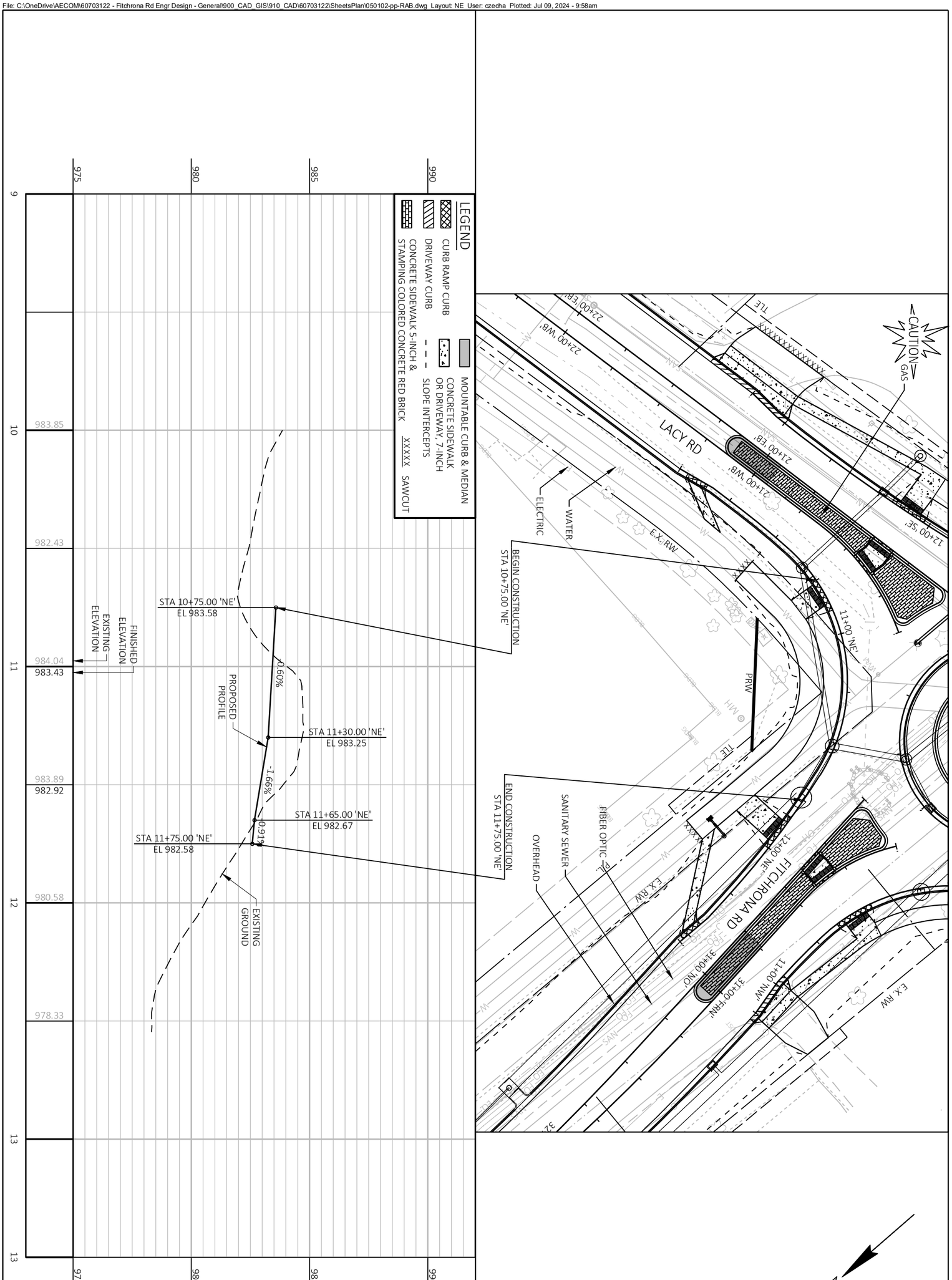
PLAN AND PROFILE
ROUNDABOUT 'RC'

PROJECT NO.: 60703122	SCALE: 1 IN:40 FT
SHEET NO.: C-514	DATE: JULY 2024
	REVISION: 100% PLANS

THE CITY OF Fitchburg PUBLIC WORKS

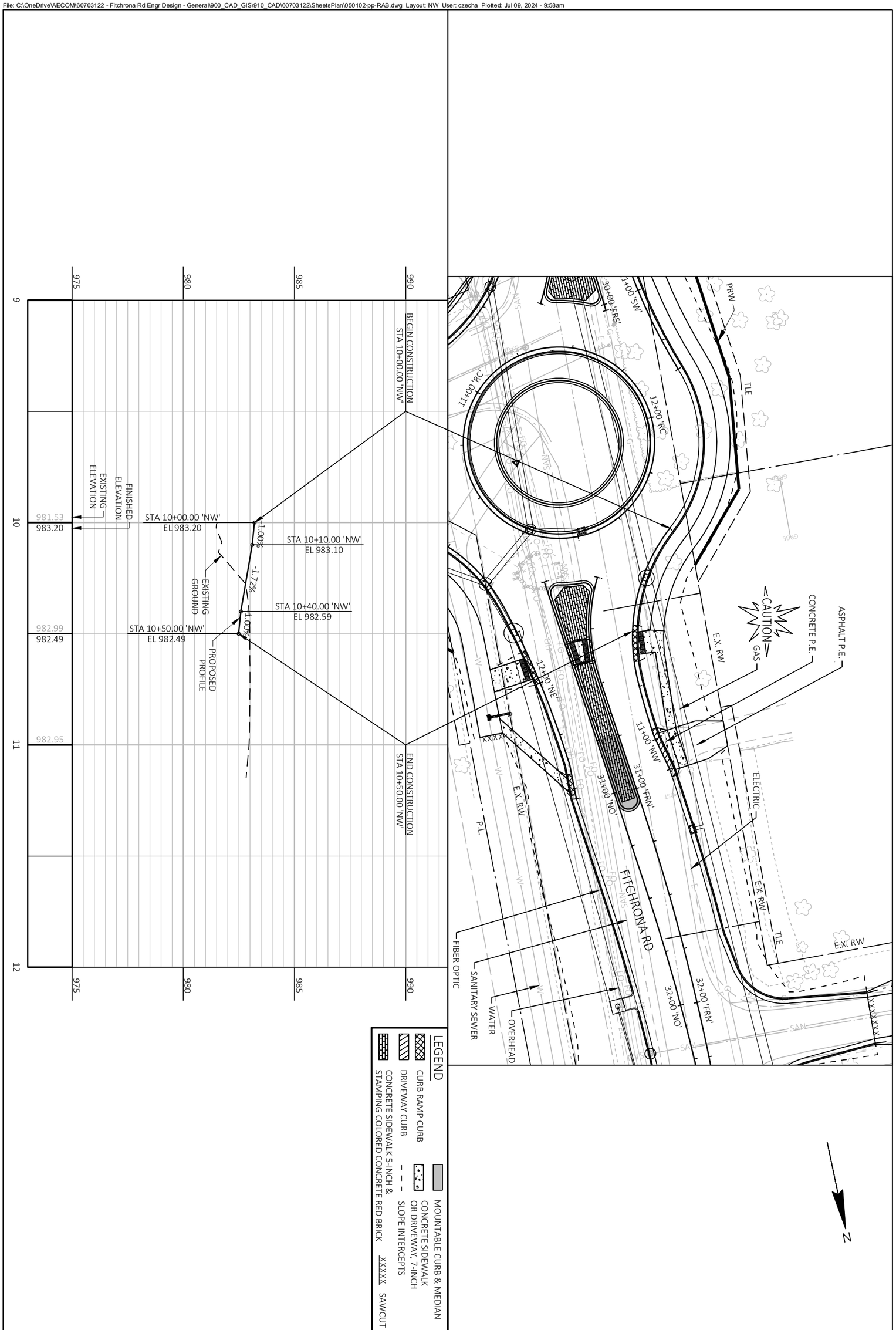
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PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	PLAN AND PROFILE NORTHEAST QUADRANT 'NE'	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-515**	DATE: JULY 2024		
	REVISION: 100% PLANS		

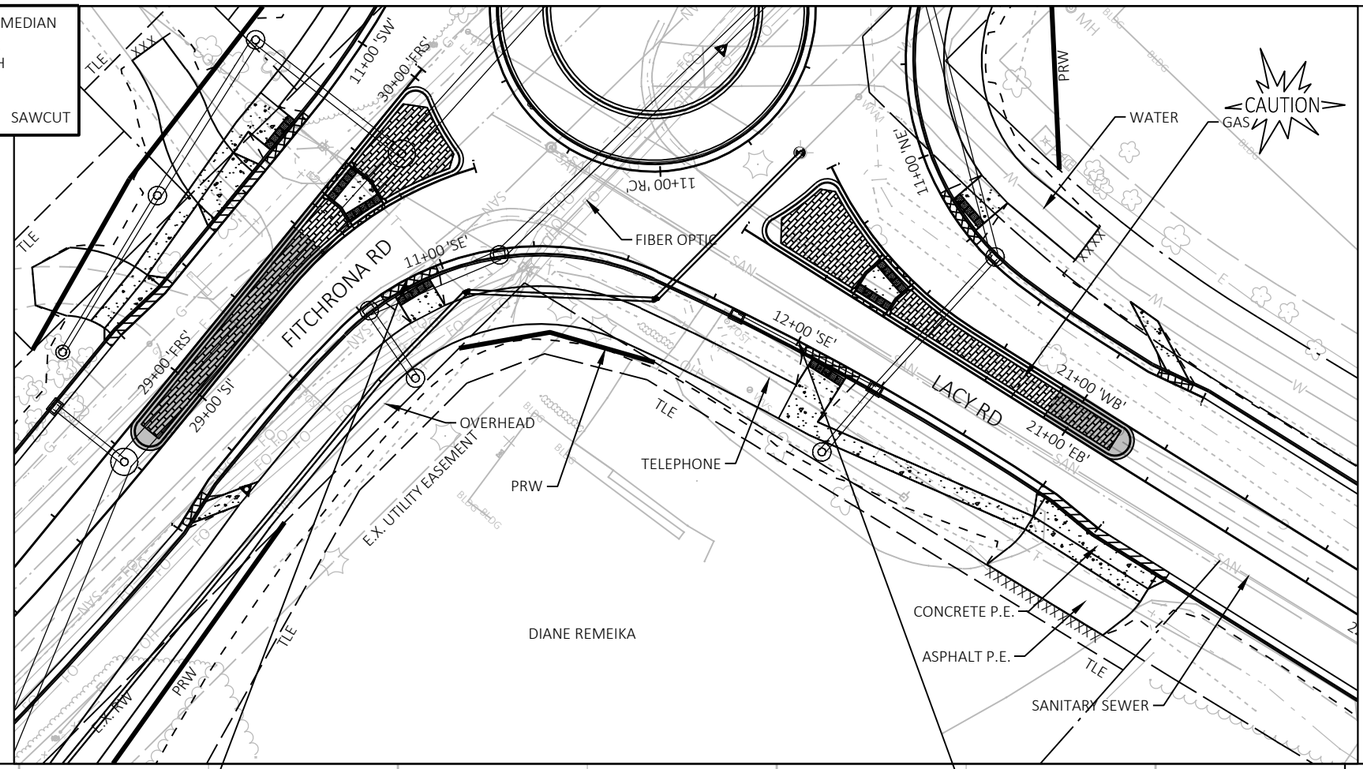
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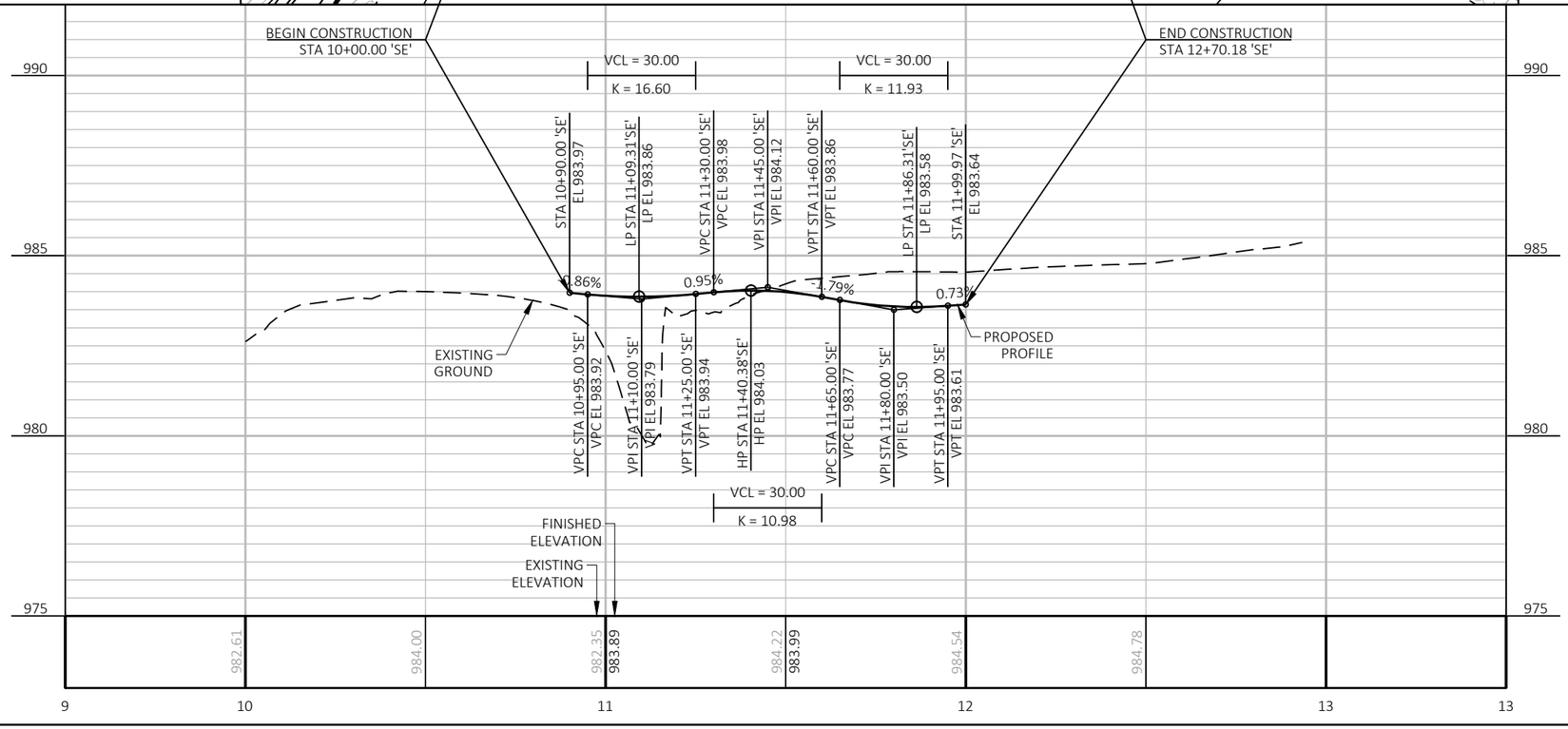


PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	PLAN AND PROFILE NORTHWEST QUADRANT 'NW'	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-516**	DATE: JULY 2024		
	REVISION: 100% PLANS		

LEGEND

- CURB RAMP CURB
- DRIVEWAY CURB
- CONCRETE SIDEWALK 5-INCH & STAMPING COLORED CONCRETE RED BRICK
- MOUNTABLE CURB & MEDIAN
- CONCRETE SIDEWALK OR DRIVEWAY, 7-INCH
- SLOPE INTERCEPTS
- XXXXX SAWCUT





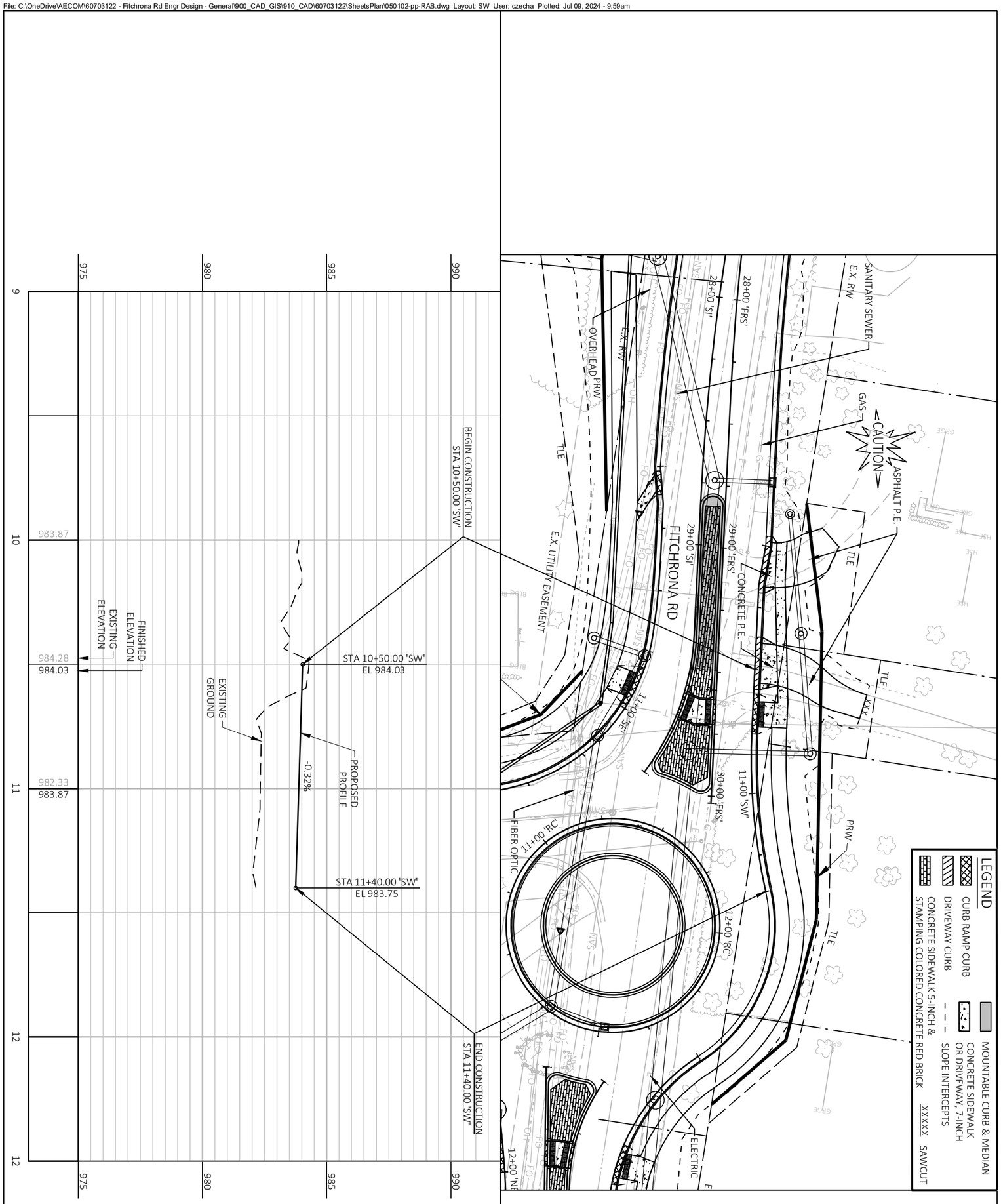
PLAN AND PROFILE
SOUTHEAST QUADRANT 'SE'

THE CITY OF Fitchburg PUBLIC WORKS

PROJECT NO.: 60703122	SCALE: 1 IN:40 FT
SHEET NO.: C-517	DATE: JULY 2024
	REVISION: 100% PLANS

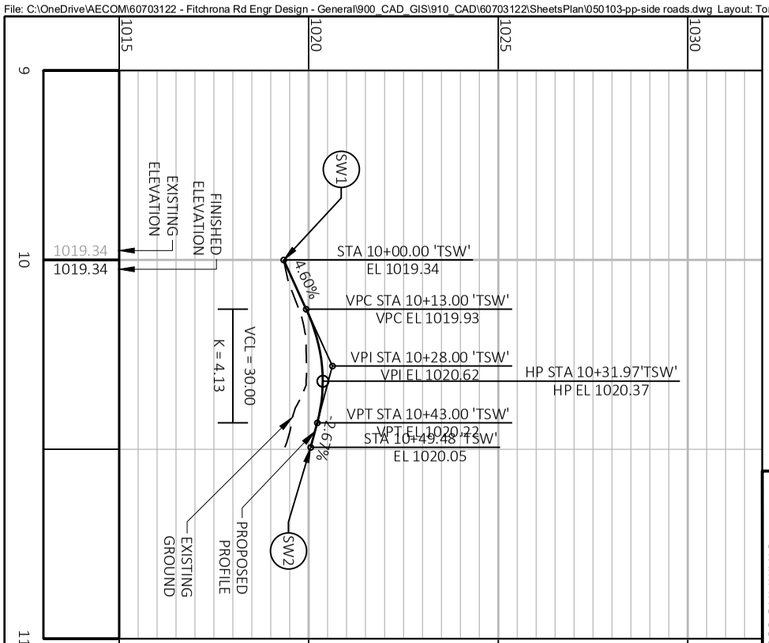
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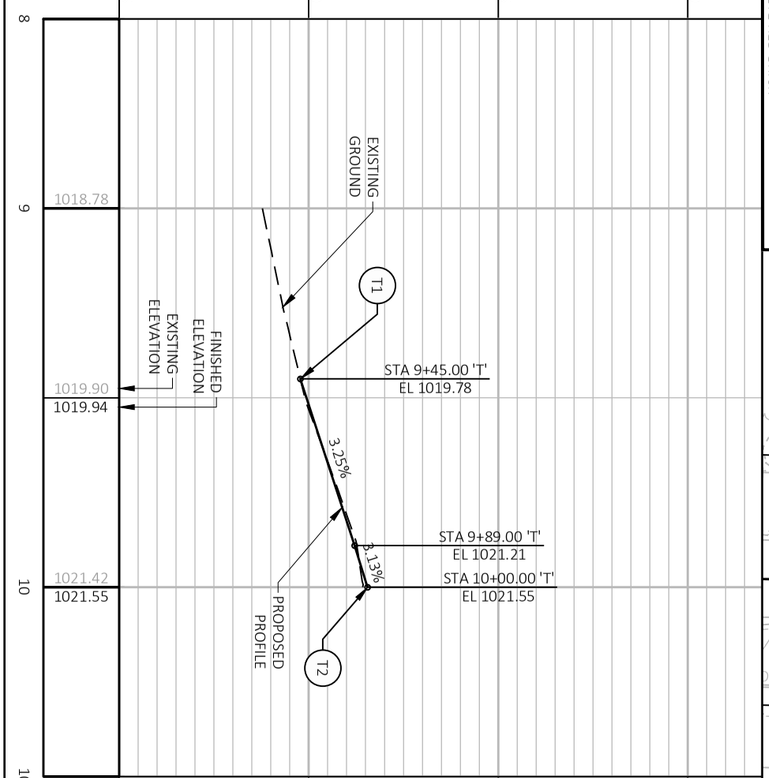
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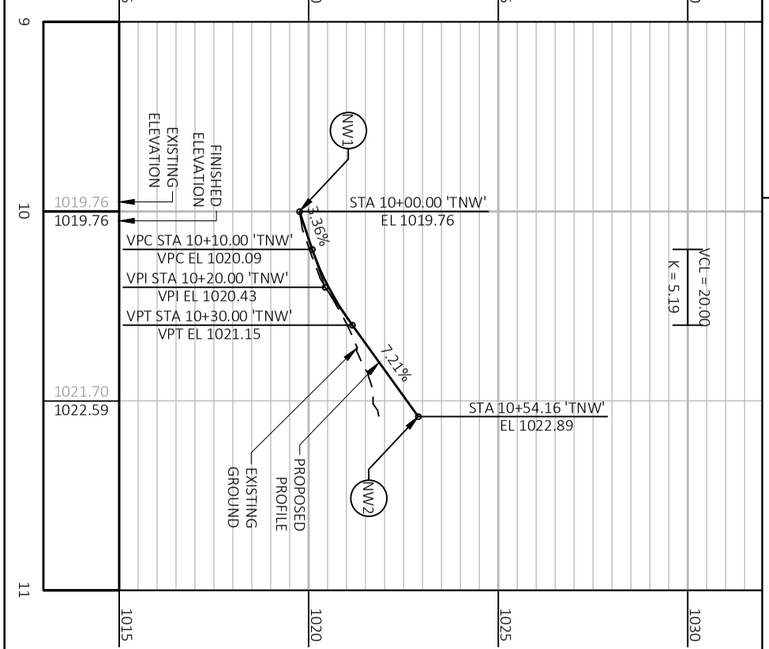


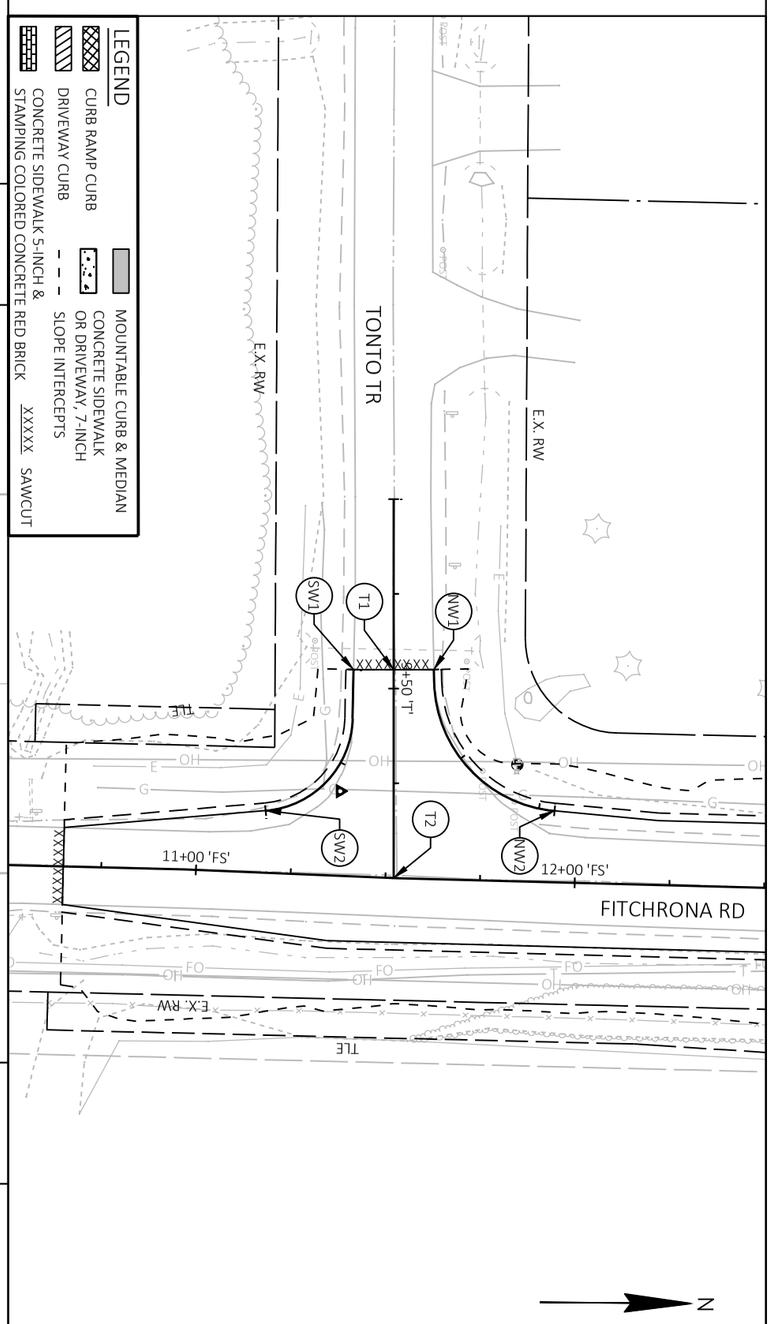
PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	PLAN AND PROFILE SOUTHWEST QUADRANT 'SW'	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-518**	DATE: JULY 2024		
	REVISION: 100% PLANS		

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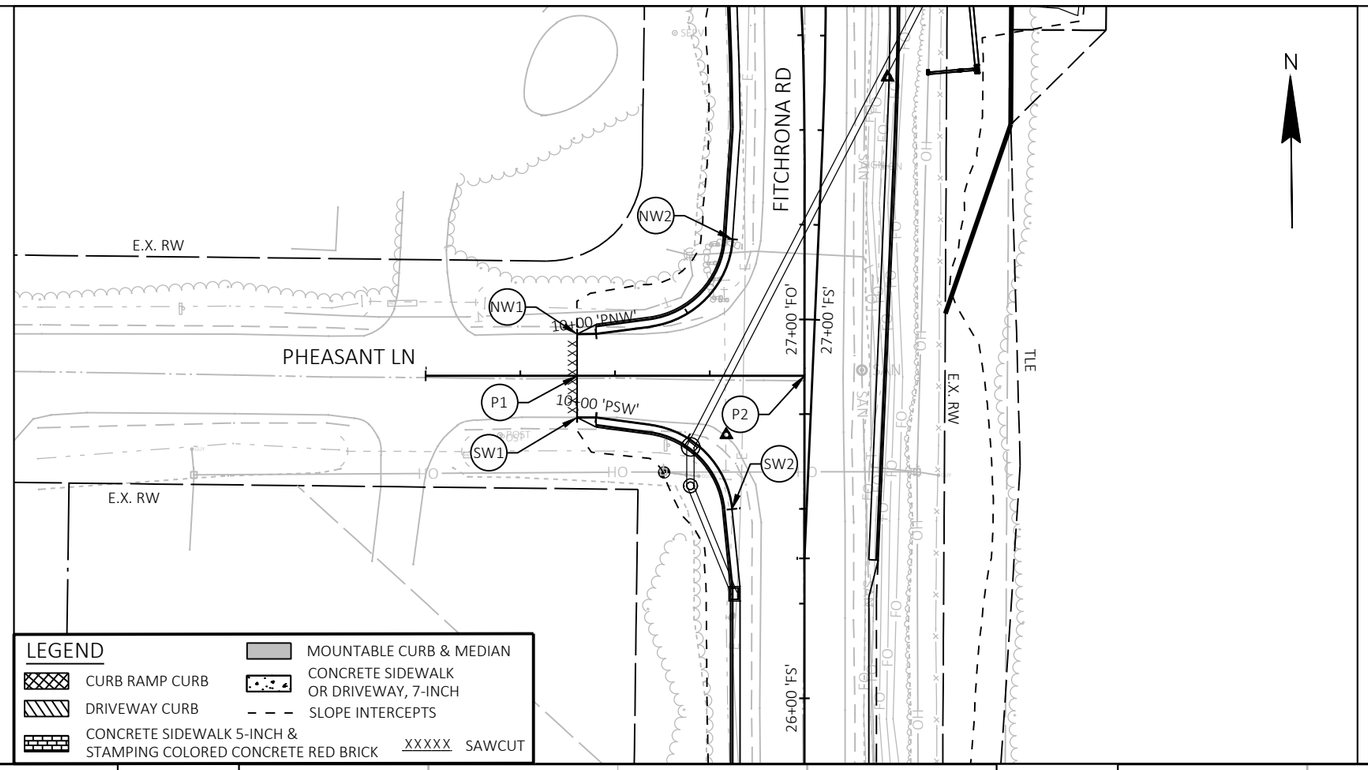


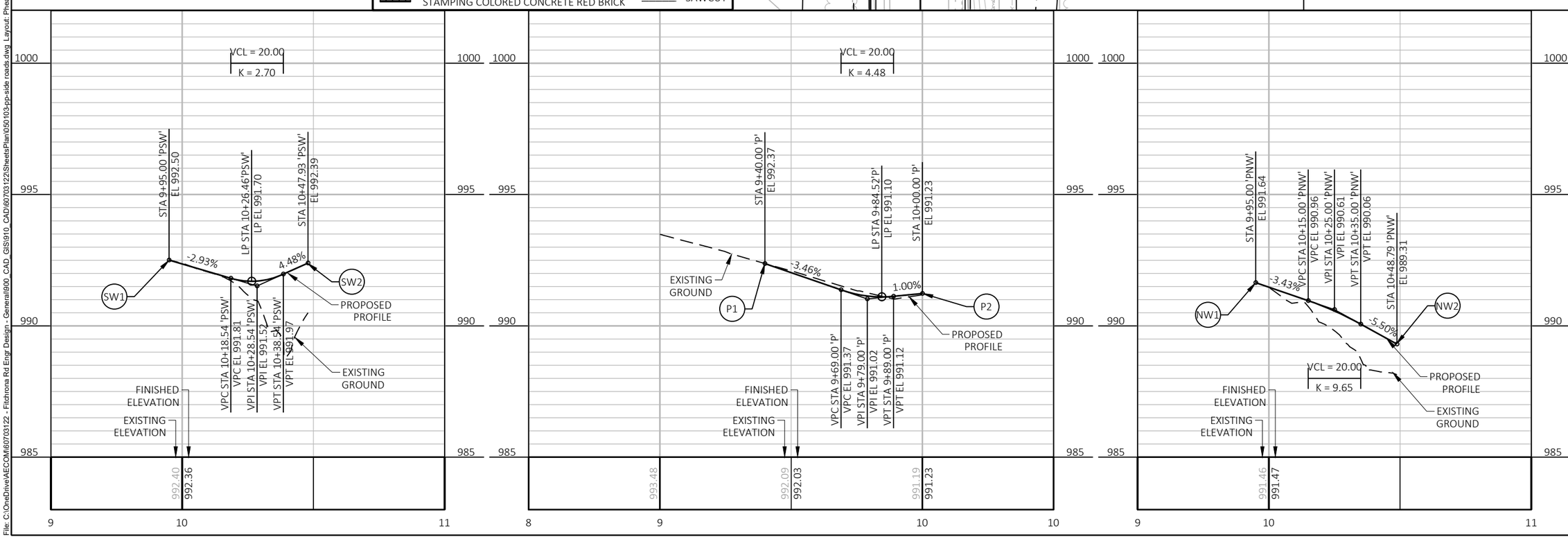






PROJECT NO.: 60703122	SCALE: 1 IN:40 FT	PLAN AND PROFILE TONTO TRAIL	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-519**	DATE: JULY 2024		
	REVISION: 100% PLANS		





PLAN AND PROFILE
PHEASANT LANE

SCALE: 1IN:40FT
DATE: JULY 2024
REVISION: 100% PLANS

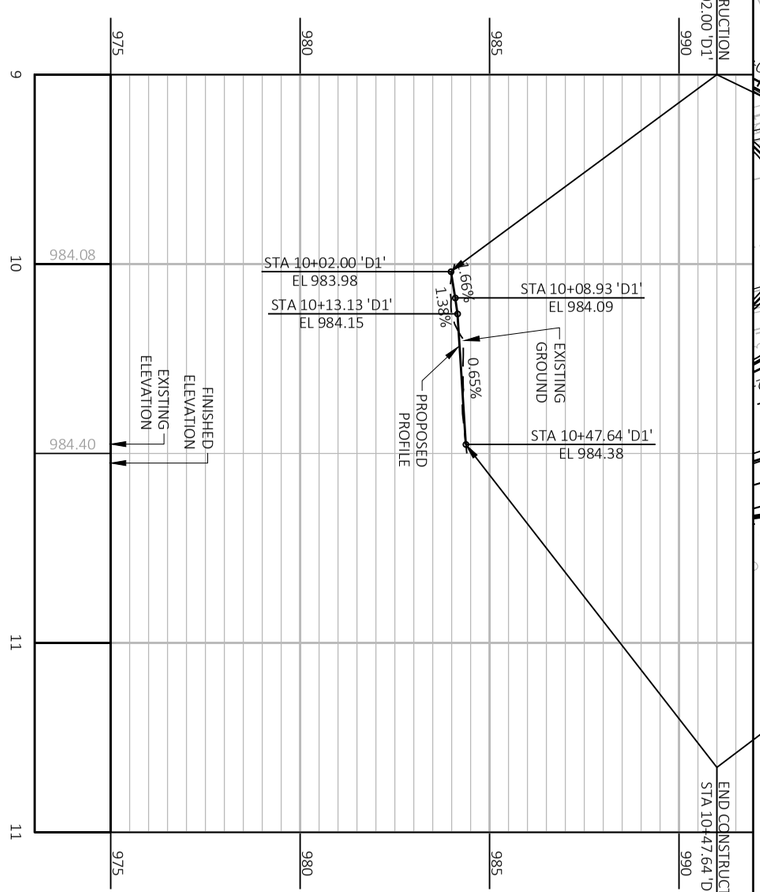
PROJECT NO.: 60703122
SHEET NO.: C-520

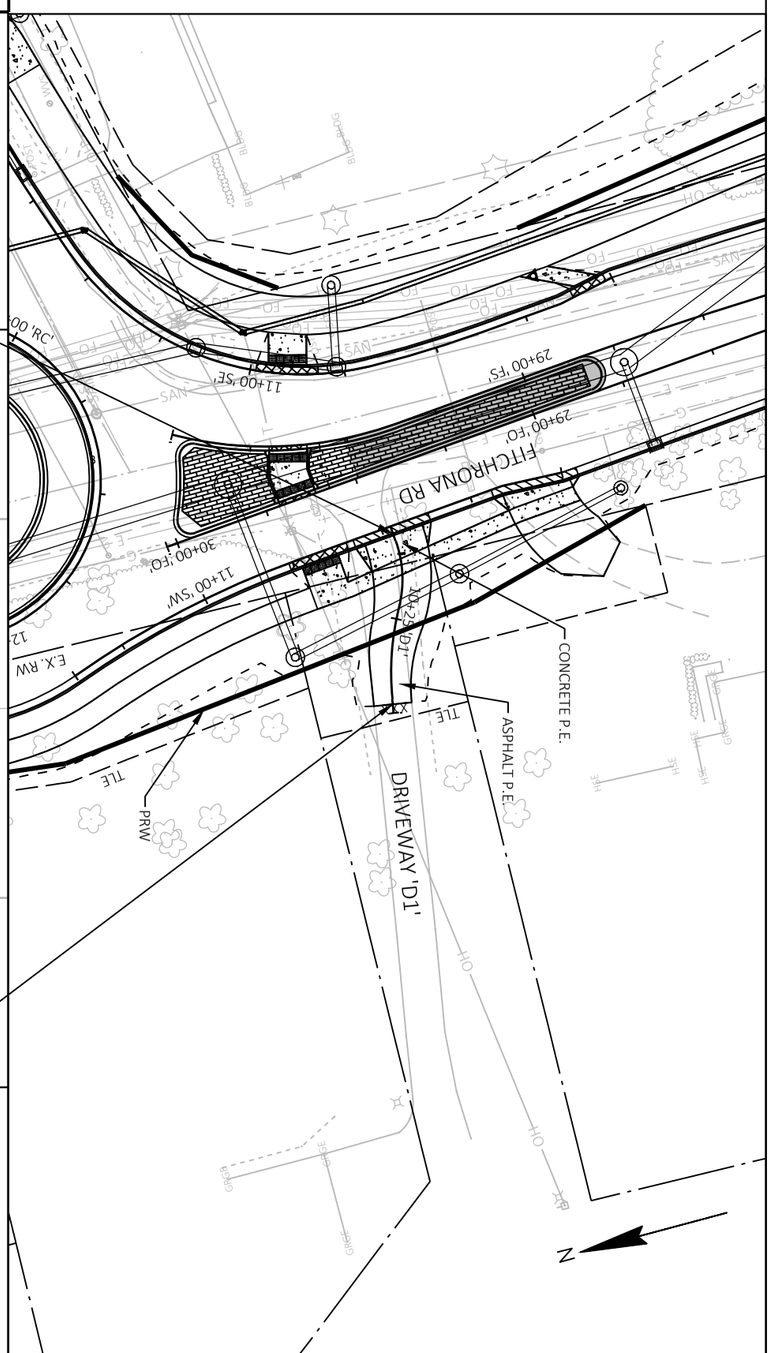
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LEGEND

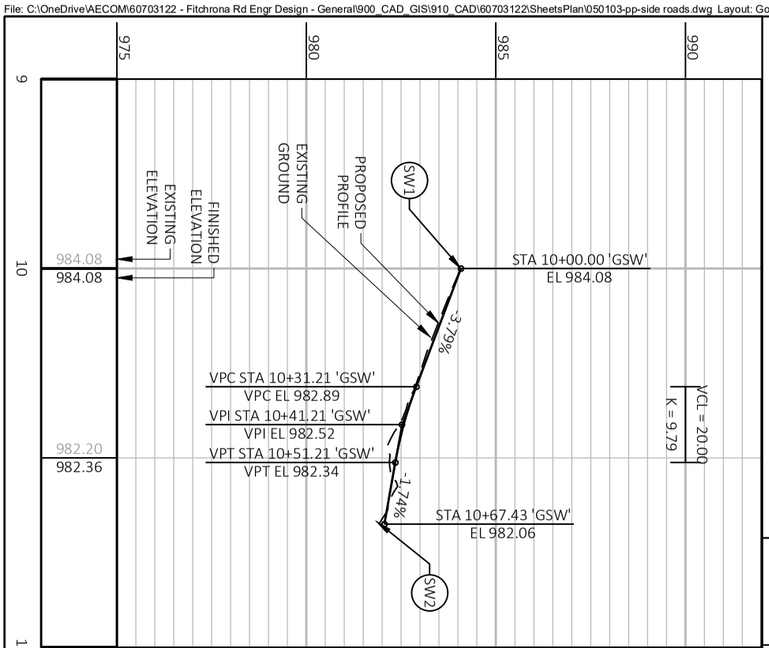
- CURB RAMP CURB
- DRIVEWAY CURB
- CONCRETE SIDEWALK 5-INCH & STAMPING COLORED CONCRETE RED BRICK
- MOUNTABLE CURB & MEDIAN
- CONCRETE SIDEWALK OR DRIVEWAY, 7-INCH
- SLOPE INTERCEPTS
- XXXXX SAWCUT

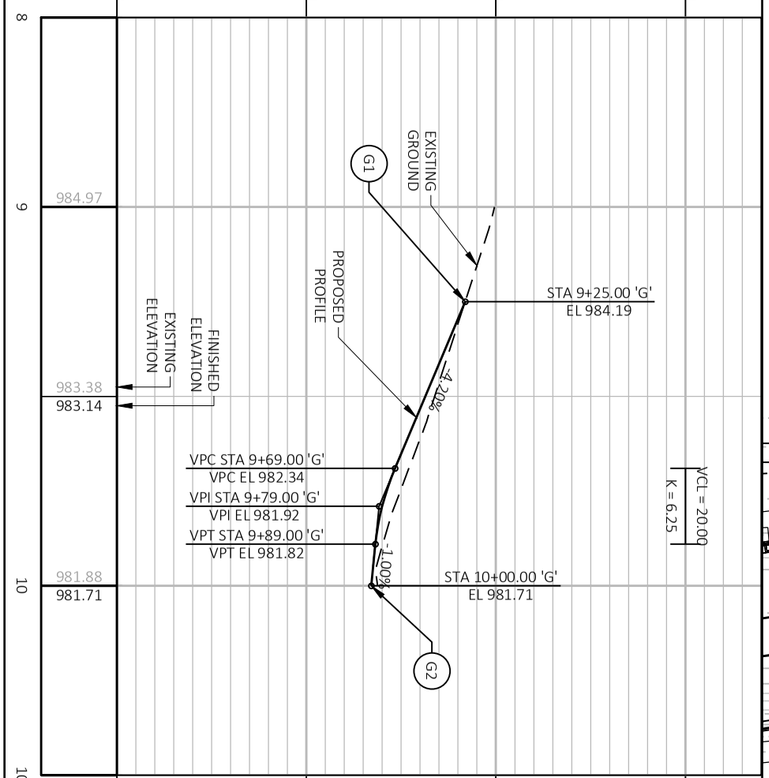


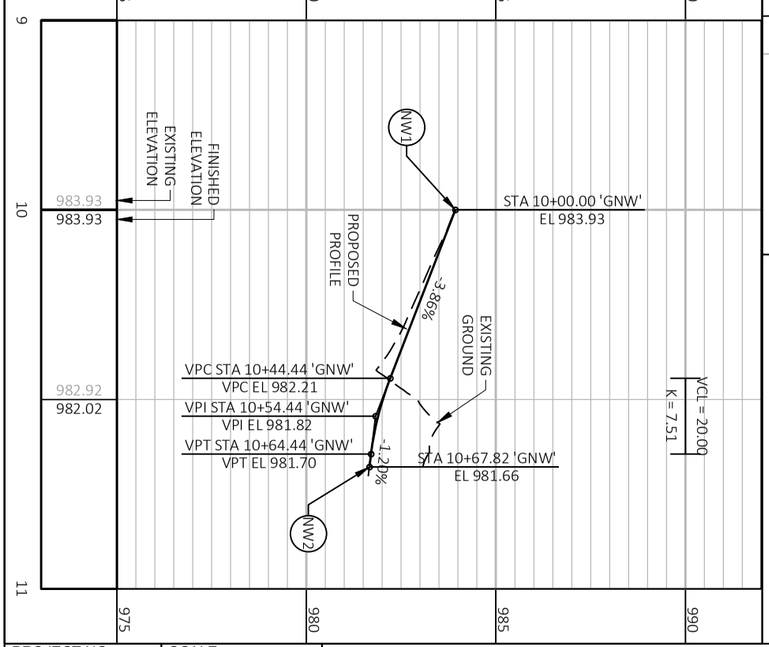


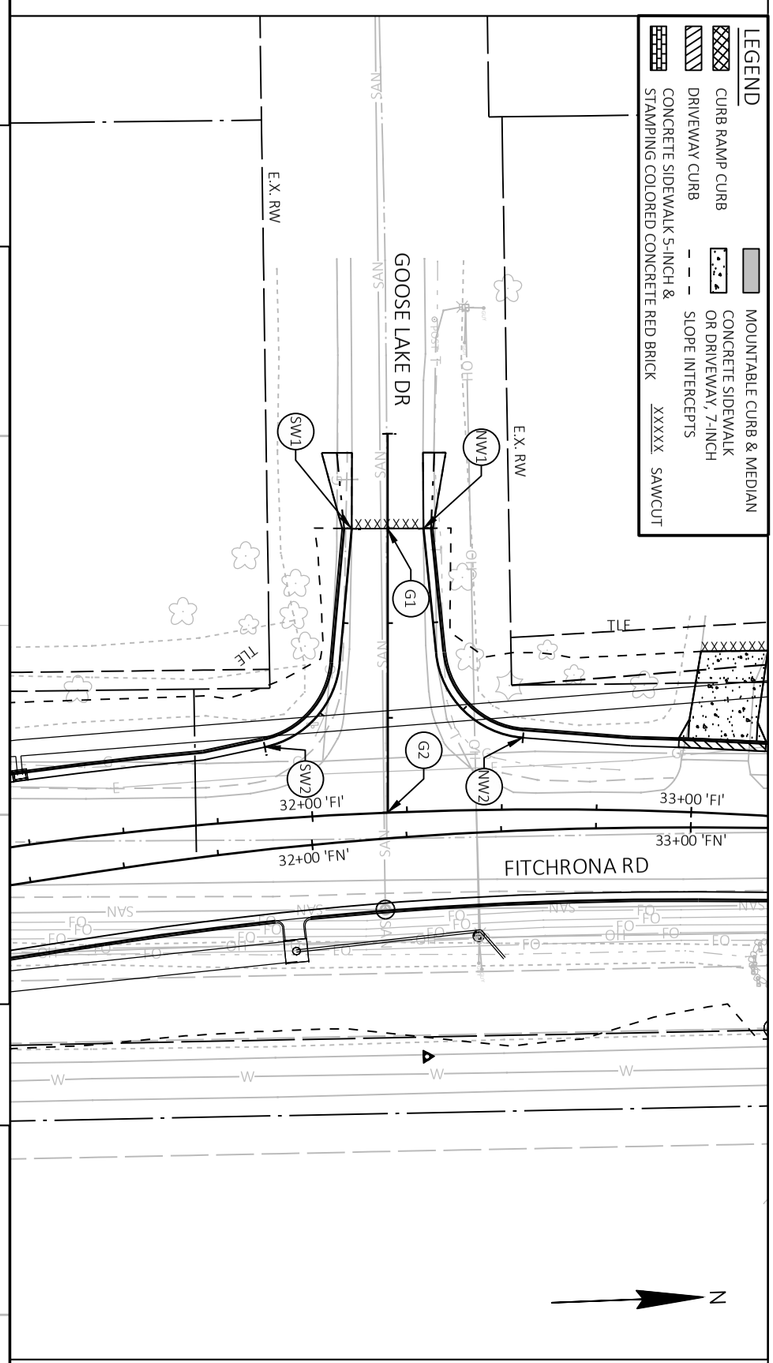
PROJECT NO.: 60703122	SCALE: 1IN:40FT	PLAN AND PROFILE DRIVEWAY 'D1'	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-521**	DATE: JULY 2024		
	REVISION: 100% PLANS		

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\6070312\SheetsPlan\050103-pp-side roads.dwg Layout: Goose Lake Dr User: czecha Plotted: Jul 09, 2024 - 10:02am



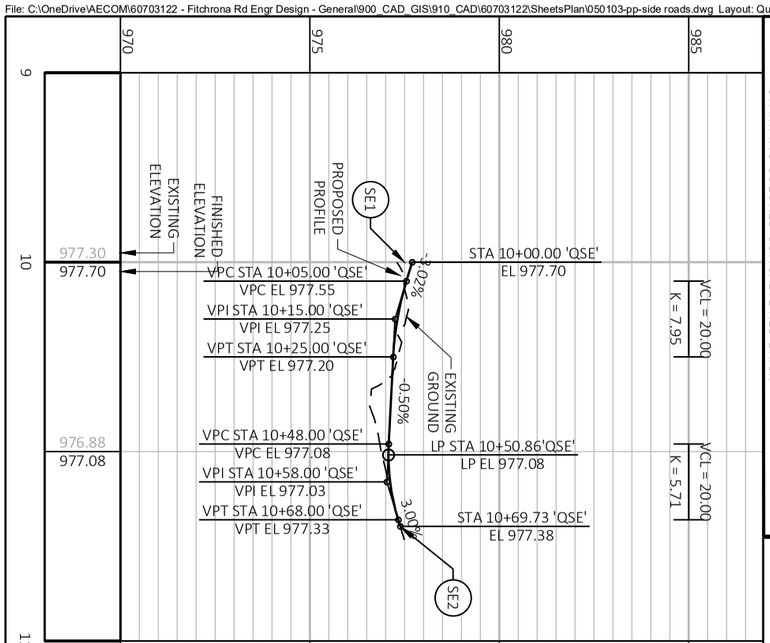


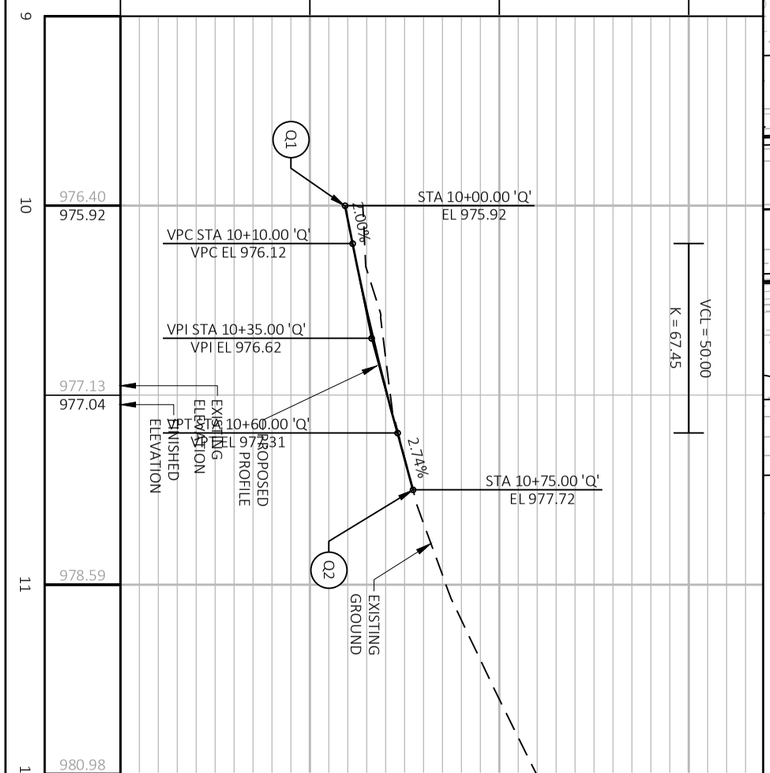


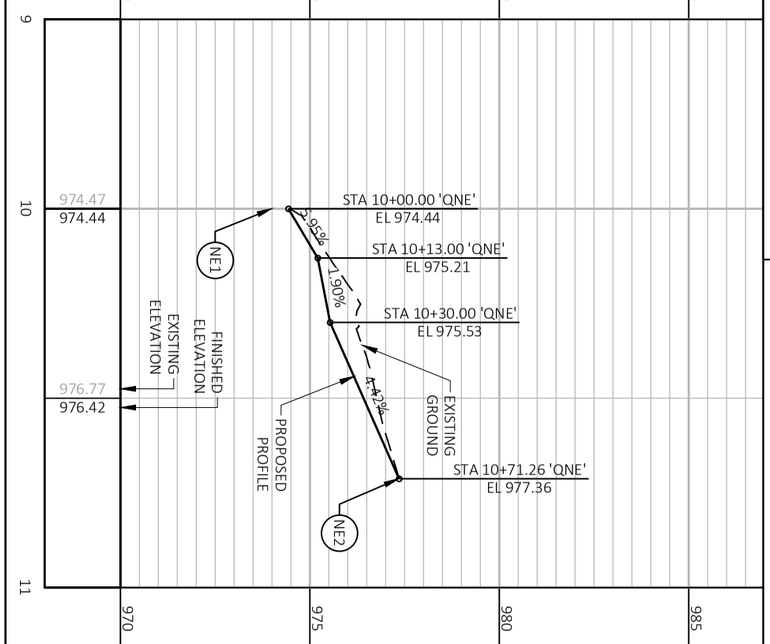


PROJECT NO.: 60703122	SCALE: 1IN:40FT	PLAN AND PROFILE	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-522**	DATE: JULY 2024	GOOSE LAKE DRIVE	
	REVISION: 100% PLANS		

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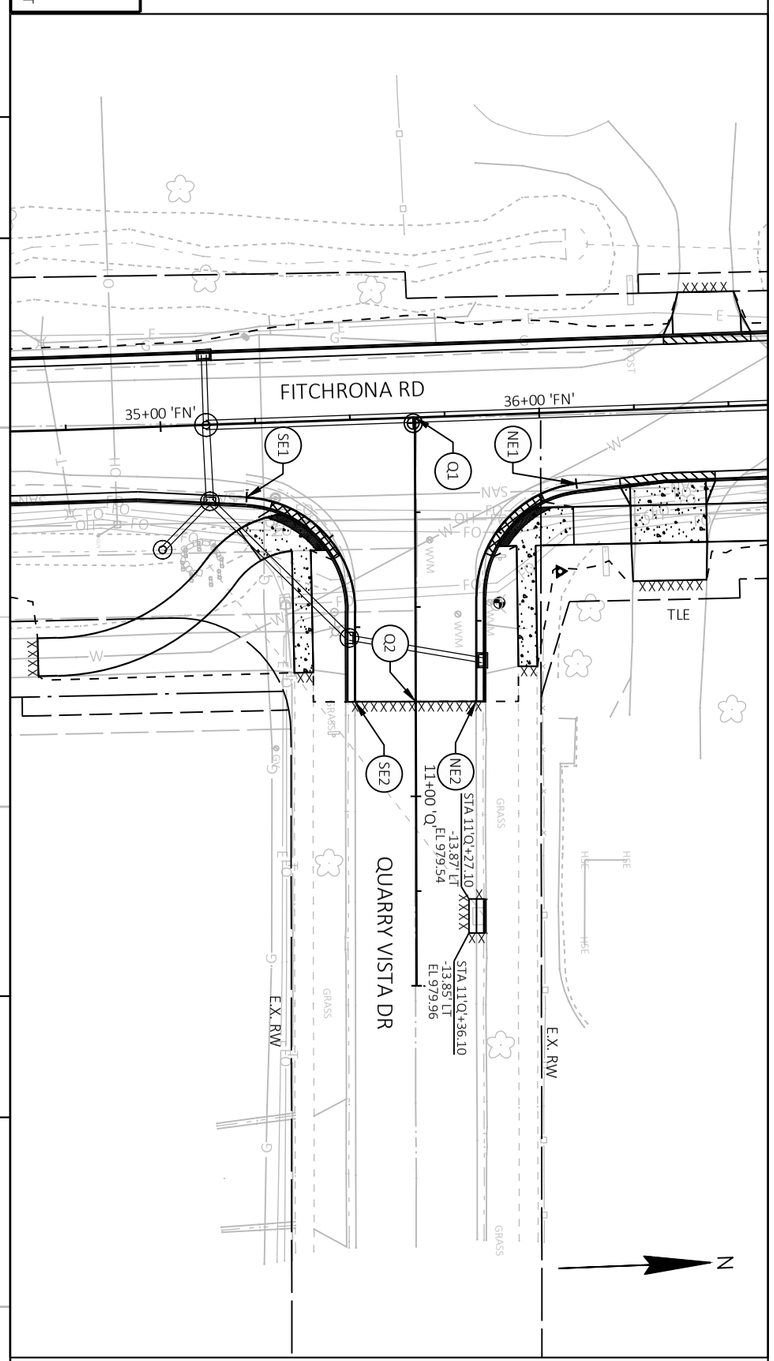






LEGEND

- CURB RAMP CURB
- DRIVEWAY CURB
- CONCRETE SIDEWALK 5-INCH & STAMPING COLORED CONCRETE RED BRICK
- MOUNTABLE CURB & MEDIAN
- CONCRETE SIDEWALK OR DRIVEWAY, 7-INCH
- SLOPE INTERCEPTS
- XXXXX SAWCUT



PROJECT NO.: 60703122	SCALE: 1IN:40FT	PLAN AND PROFILE	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: C-523	DATE: JULY 2024	QUARRY VISTA DRIVE	
	REVISION: 100% PLANS		

SEE TONTO TRAIL INTERSECTION DETAIL SHEET FOR ADDITIONAL INFORMATION

FROSTWOOD FARM VI LLC

TONTO TRAIL

END CONSTRUCTION
STA 9+45.00 'T'
MATCH EXISTING
SAW CUT REQ'D

LOUIS HOFFMAN ESTATES

AGAPE TRUST

N

ELECTRIC

CAUTION GAS

TLE

STA 10'FS'+65
-10.29' LT
EL 1019.32

STA 11'FS'+17.73
-16.38' LT
EL 1020.05

STA 11'FS'+94.17
-18.84' LT
EL 1022.89

STA 12'FS'+21.79
-17.00' LT
EL 1024.50

E.X. RW

OVERHEAD

TELEPHONE

TLE P.E. XXXXXX

11+00 'FS' 12+00 'FS' 13+00 'FS' FITCHRONA RD 14+00 'FS' 15+00 'FS'

MATCH LINE STA 15+25 'FS'

BEGIN PROJECT
STA. 10+65.00'FS'
MATCH EXISTING
SAW CUT REQ'D

STA 10'FS'+65
10.03' RT
EL 1019.33

STA 11'FS'+35.31
17.27' RT
EL 1020.63

FIBER OPTIC

E.X. RW

TLE

E.X. UTILITY EASEMENT

FUTURE MULTI-USE PATHWAY
(TO BE INSTALLED BY OTHERS)

FUTURE MULTI-USE PATHWAY
(TO BE INSTALLED BY OTHERS)

FITCHBURG MINERALS LLC

LEGEND

- A — HMA PAVEMENT
- B — BASE AGGREGATE DENSE 3/4-INCH
- C — CONCRETE CURB & GUTTER 30-INCH TYPE D
- D — POROUS ASPHALT PAVEMENT (MULTI-USE PATHWAY)
- E — CONCRETE DRIVEWAY
- F — ASPHALT DRIVEWAY
- G — CONCRETE MEDIAN SLOPED NOSE TYPE 1
- H — CONCRETE MEDIAN SLOPED NOSE TYPE 2
- I — CONCRETE CURB & GUTTER 24-INCH TYPE D REJECT
- J — CONCRETE CURB & GUTTER 24-INCH TYPE D REJECT MOUNTABLE
- K — CONCRETE CURB & GUTTER 24-INCH TYPE D
- L — CONCRETE SIDEWALK 5-INCH & STAMPING COLORED CONCRETE RED BRICK
- M — CONCRETE TRUCK APRON 12-INCH & COLORING CONCRETE DOT RED
- N — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- O — CONCRETE CURB & GUTTER 24-INCH TYPE A REJECT

DRIVEWAY CURB
CURB RAMP CURB
MOUNTABLE CURB & MEDIAN
CONCRETE SIDEWALK OR DRIVEWAY, 7-INCH
SLOPE INTERCEPTS
XXXXXX SAWCUT

THOMAS WEIGAND

AGAPE TRUST

MICHAEL & BRENDA PITTERLE

N

TELEPHONE

TLE P.E. XXXX

E.X. RW

ELECTRIC

CAUTION GAS

STA 16'FS'+90.15
-17.00' LT
EL 1056.50

STA 16'FS'+99.83
-19.50' LT
EL 1056.33

MATCH LINE STA 15+25 'FS'

16+00 'FS' 17+00 'FS' 18+00 'FS' FITCHRONA RD 19+00 'FS' 20+00 'FS'

MATCH LINE STA 20+50 'FS'

STA 16'FS'+39.38
17.00' RT
EL 1056.30

STA 16'FS'+65.42
17.00' RT
EL 1056.59

STA 18'FS'+28.52
17.00' RT
EL 1049.62

STA 18'FS'+50.12
17.00' RT
EL 1047.56

STA 16'FS'+43.38
19.00' RT
EL 1056.29

STA 16'FS'+61.42
19.00' RT
EL 1056.49

STA 18'FS'+32.52
19.00' RT
EL 1049.18

STA 18'FS'+46.12
19.00' RT
EL 1047.88

TELEPHONE

E.X. RW

GRAVEL F.E.

TLE

E.X. UTILITY EASEMENT

GRAVEL F.E.

FIBER OPTIC

OVERHEAD

FUTURE MULTI-USE PATHWAY
(TO BE INSTALLED BY OTHERS)

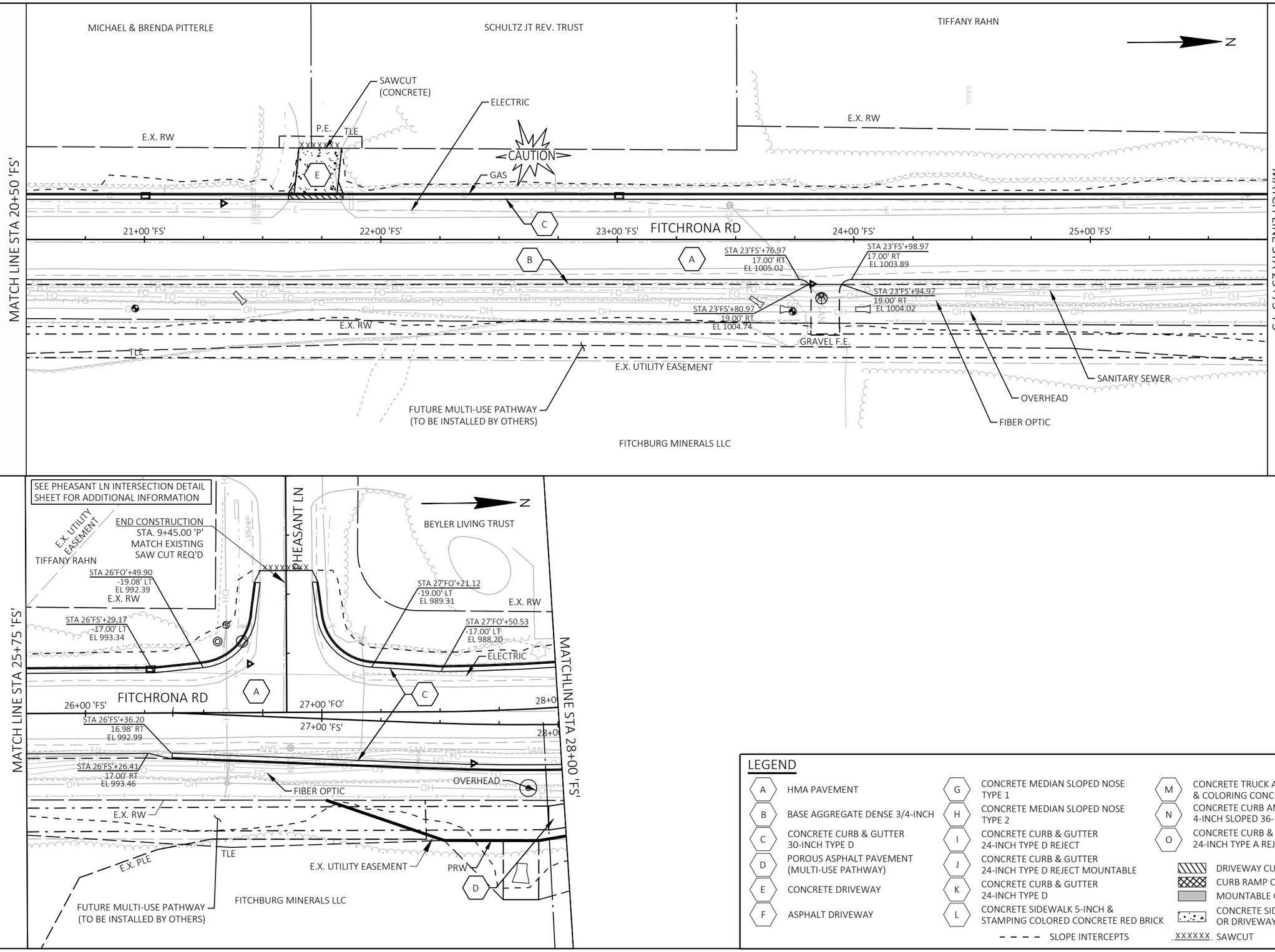
FITCHBURG MINERALS LLC

THE CITY OF Fitchburg PUBLIC WORKS

PLAN SHEETS
FITCHRONA ROAD

SCALE:	1 IN:40 FT
DATE:	JULY 2024
REVISION:	100% PLANS
PROJECT NO.:	60703122
SHEET NO.:	C-531

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LEGEND

- A — HMA PAVEMENT
- B — BASE AGGREGATE DENSE 3/4-INCH
- C — CONCRETE CURB & GUTTER 30-INCH TYPE D
- D — POROUS ASPHALT PAVEMENT (MULTI-USE PATHWAY)
- E — CONCRETE DRIVEWAY
- F — ASPHALT DRIVEWAY
- G — CONCRETE MEDIAN SLOPED NOSE TYPE 1
- H — CONCRETE MEDIAN SLOPED NOSE TYPE 2
- I — CONCRETE CURB & GUTTER 24-INCH TYPE D REJECT
- J — CONCRETE CURB & GUTTER 24-INCH TYPE D REJECT MOUNTABLE
- K — CONCRETE CURB & GUTTER 24-INCH TYPE D
- L — CONCRETE SIDEWALK 5-INCH & STAMPING COLORED CONCRETE RED BRICK
- M — CONCRETE TRUCK APRON 12-INCH & COLORING CONCRETE DOT RED
- N — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- O — CONCRETE CURB & GUTTER 24-INCH TYPE A REJECT

DRIVEWAY CURB
CURB RAMP CURB
MOUNTABLE CURB & MEDIAN
CONCRETE SIDEWALK OR DRIVEWAY, 7-INCH
SLOPE INTERCEPTS
XXXXXX SAWCUT

THE CITY OF Fitchburg PUBLIC WORKS

PLAN SHEETS
FITCHRONA ROAD

SCALE: 1 IN:40 FT
DATE: JULY 2024
REVISION: 100% PLANS
PROJECT NO.: 60703122
SHEET NO.: C-532

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KOHLENBERG REV. LIVING TRUST,
ROBERT & NORMA

BENBOW FAMILY TRUST

WENDELLWOOD LOT

N

END CONSTRUCTION
STA. 10+47.64 'D1'
MATCH EXISTING

TLE
P.E.
PRW
TLE
TLE
P.E.
E.X. RW
P.E.

STA 30'FI'+80.44
-15.00' LT
EL 982.20

STA 30'FI'+96.44
-17.00' LT
EL 982.05

STA 28'FO'+98.30
-17.00' LT
EL 984.49

STA 29'FO'+14.30
-15.00' LT
EL 984.33

30+00 'FO'

29+00 'FO'

FITCHRONA RD

29+00 'FS'

STA 28'FS'+84.30
15.00' RT
EL 984.79

STA 28'FS'+69.45
17.00' RT
EL 984.99

MATCH LINE STA 28+00 'FS'

MATCH LINE STA 31+50 'FN'

31+00 'FI'

FITCHRONA RD

31+00 'FI'

STA 30'FN'+81.59
15.00' RT
EL 982.20

STA 30'FN'+97.04
17.00' RT
EL 982.05

E.X. RW

PRW

TLE

E.X. UTILITY EASEMENT

E.X. RW

CITY OF FITCHBURG

P.L.

TLE

PRW

PRW

TLE

DIANE REMEIKA

FRED-ELAN LLC

LACY RD

21+00 'EB'

21+00 'WB'

STA 21'EB'+10.23
-25.00' LT
EL 984.48

STA 21'EB'+07.07
15.25' RT
EL 984.62

STA 21'EB'+20.76
17.00' RT
EL 984.88

P.E.

MATCH LINE STA 21+25 'WB'

NOTE: SEE PLAN DETAILS FOR
ADDITIONAL INFORMATION.

LEGEND

A	HMA PAVEMENT	G	CONCRETE MEDIAN SLOPED NOSE TYPE 1
B	BASE AGGREGATE DENSE 3/4-INCH	H	CONCRETE MEDIAN SLOPED NOSE TYPE 2
C	CONCRETE CURB & GUTTER 30-INCH TYPE D	I	CONCRETE CURB & GUTTER 24-INCH TYPE D REJECT
D	POROUS ASPHALT PAVEMENT (MULTI-USE PATHWAY)	J	CONCRETE CURB & GUTTER 24-INCH TYPE D REJECT MOUNTABLE
E	CONCRETE DRIVEWAY	K	CONCRETE CURB & GUTTER 24-INCH TYPE D
F	ASPHALT DRIVEWAY	L	CONCRETE SIDEWALK 5-INCH & STAMPING COLORED CONCRETE RED BRICK
		M	CONCRETE TRUCK APRON 12-INCH & COLORING CONCRETE DOT RED
		N	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
		O	CONCRETE CURB & GUTTER 24-INCH TYPE A REJECT

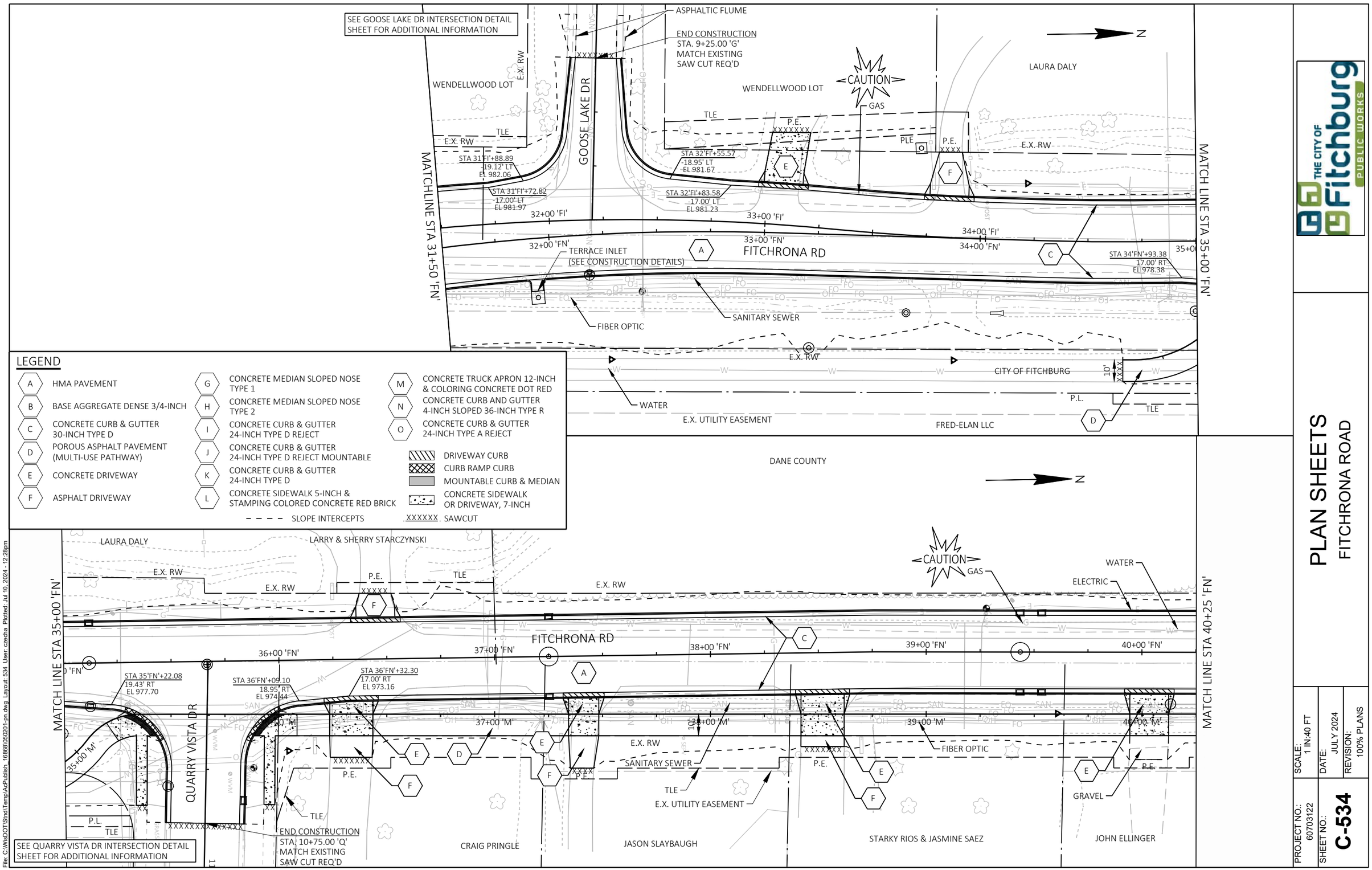
- DRIVEWAY CURB
- CURB RAMP CURB
- MOUNTABLE CURB & MEDIAN
- CONCRETE SIDEWALK OR DRIVEWAY, 7-INCH
- SLOPE INTERCEPTS
- XXXXXX SAWCUT

THE CITY OF Fitchburg
PUBLIC WORKS

PLAN SHEETS
ROUNDABOUT

PROJECT NO.: 60703122	SCALE: 1 IN:40 FT
SHEET NO.: C-533	DATE: JULY 2024
	REVISION: 100% PLANS

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LEGEND

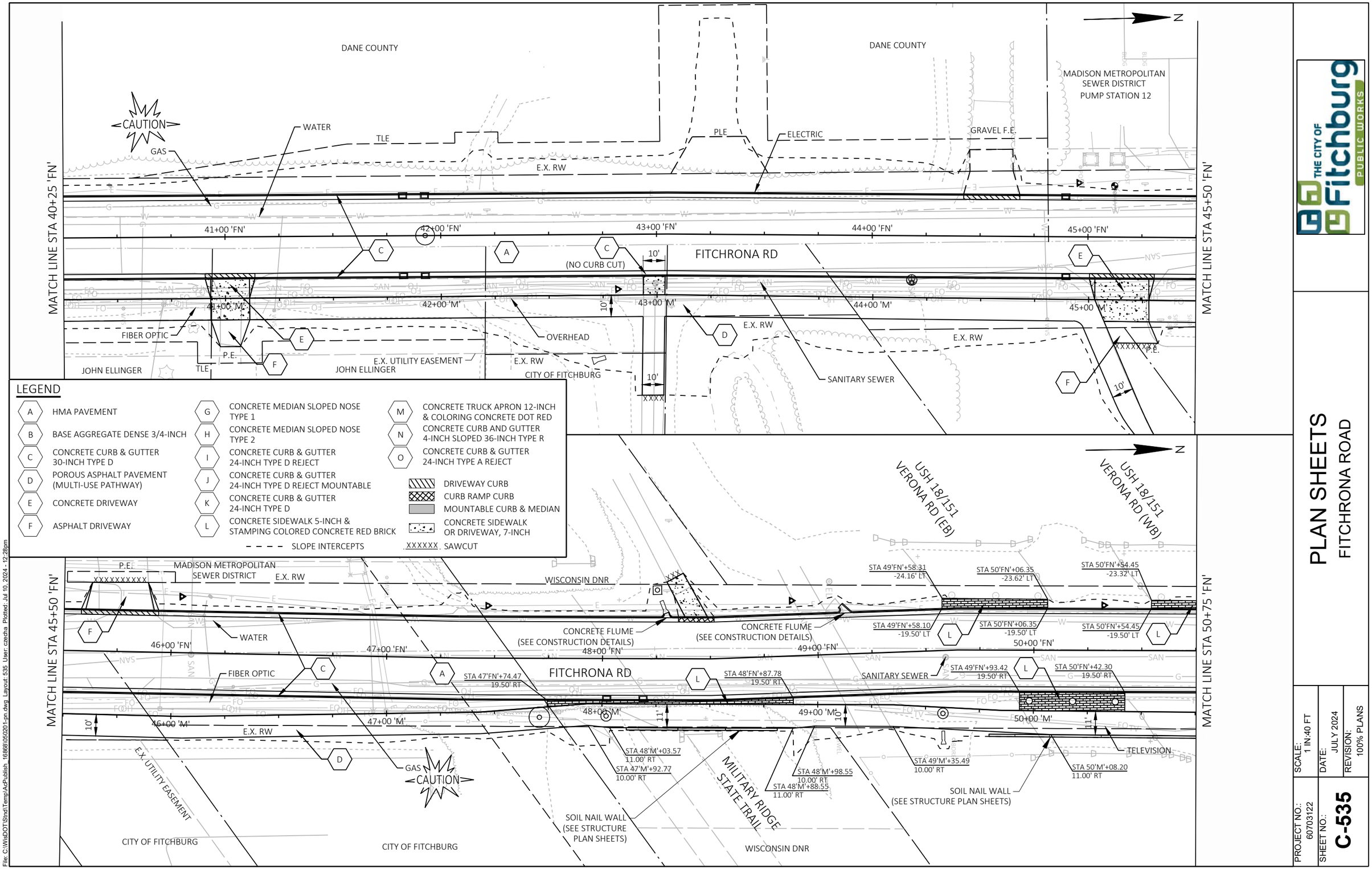
- A — HMA PAVEMENT
- B — BASE AGGREGATE DENSE 3/4-INCH
- C — CONCRETE CURB & GUTTER 30-INCH TYPE D
- D — POROUS ASPHALT PAVEMENT (MULTI-USE PATHWAY)
- E — CONCRETE DRIVEWAY
- F — ASPHALT DRIVEWAY
- G — CONCRETE MEDIAN SLOPED NOSE TYPE 1
- H — CONCRETE MEDIAN SLOPED NOSE TYPE 2
- I — CONCRETE CURB & GUTTER 24-INCH TYPE D REJECT
- J — CONCRETE CURB & GUTTER 24-INCH TYPE D REJECT MOUNTABLE
- K — CONCRETE CURB & GUTTER 24-INCH TYPE D
- L — CONCRETE SIDEWALK 5-INCH & STAMPING COLORED CONCRETE RED BRICK
- M — CONCRETE TRUCK APRON 12-INCH & COLORING CONCRETE DOT RED
- N — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- O — CONCRETE CURB & GUTTER 24-INCH TYPE A REJECT
- SLOPE INTERCEPTS
- DRIVEWAY CURB
- CURB RAMP CURB
- MOUNTABLE CURB & MEDIAN
- CONCRETE SIDEWALK OR DRIVEWAY, 7-INCH
- XXXXXX SAWCUT

THE CITY OF Fitchburg PUBLIC WORKS

PLAN SHEETS
FITCHRONA ROAD

PROJECT NO.:	60703122
SHEET NO.:	C-534
SCALE:	1 IN:40 FT
DATE:	JULY 2024
REVISION:	100% PLANS

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LEGEND

- A — HMA PAVEMENT
- B — BASE AGGREGATE DENSE 3/4-INCH
- C — CONCRETE CURB & GUTTER 30-INCH TYPE D
- D — POROUS ASPHALT PAVEMENT (MULTI-USE PATHWAY)
- E — CONCRETE DRIVEWAY
- F — ASPHALT DRIVEWAY
- G — CONCRETE MEDIAN SLOPED NOSE TYPE 1
- H — CONCRETE MEDIAN SLOPED NOSE TYPE 2
- I — CONCRETE CURB & GUTTER 24-INCH TYPE D REJECT
- J — CONCRETE CURB & GUTTER 24-INCH TYPE D REJECT MOUNTABLE
- K — CONCRETE CURB & GUTTER 24-INCH TYPE D
- L — CONCRETE SIDEWALK 5-INCH & STAMPING COLORED CONCRETE RED BRICK
- M — CONCRETE TRUCK APRON 12-INCH & COLORING CONCRETE DOT RED
- N — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- O — CONCRETE CURB & GUTTER 24-INCH TYPE A REJECT
- DRIVEWAY CURB
- CURB RAMP CURB
- MOUNTABLE CURB & MEDIAN
- CONCRETE SIDEWALK OR DRIVEWAY, 7-INCH
- SLOPE INTERCEPTS
- XXXXXX SAWCUT

THE CITY OF Fitchburg PUBLIC WORKS

PLAN SHEETS
FITCHRONA ROAD

PROJECT NO.: 60703122	SHEET NO.: C-535	SCALE: 1 IN:40 FT	DATE: JULY 2024
		REVISION: 100% PLANS	

File: C:\WisDOTStndTemp\AcPublish_16888\05i0201-pn.dwg Layout: 535 User: czedra Plotted: Jul 10, 2024 - 12:28pm

MATCH LINE STA 50+75 'FN'

BLUESTONE LLC

IRIS PROPERTIES LLC

N

ASPHALTIC FLUME
(SEE CONSTRUCTION DETAILS)

STA 51'FN'+90.59
-29.86' LT
EL 960.99

TLE
PRW

C.E.
XXXXXXXXXX

F

TLE

E.X. RW

STA 53'FN'+37.02
-17.00' LT
EL 966.19

STA 53'FN'+74.34
-17.00' LT
EL 967.22

END CONSTRUCTION
STA 53+74.34 'FN'
MATCH EXISTING
SAW CUT REQ'D

STA 51'FN'+03.43
-23.01' LT

STA 51'FN'+03.43
-19.50' LT

L

C

WATER

51+00 'FN'

52+00 'FN'

FITCHRONA RD

SANITARY SEWER

53+00 'FN'

TELEPHONE

ELECTRIC

GAS

CAUTION

54+00 'FN'

55+00 'FN'

STA 50'FN'+90.28
19.50' RT

STA 51'FN'+39.23
19.50' RT

A

TERRACE INLET
(SEE CONSTRUCTION DETAILS)

FIBER OPTIC

STA 53'FN'+74.34
17.00' RT
EL 967.22

52+00 'M'

53+00 'M'

54+00 'M'

10'

12'

55+00 'M'

D

51+00 'M'

L

STA 51'M'+37.21
11.00' RT

STA 51'M'+95.91
10.00' RT

TELEVISION

STA 54'M'+29.63
10.00' RT

STA 54'M'+39.59
12.00' RT

E.X. RW

TLE

SOIL NAIL WALL
(SEE STRUCTURE PLAN SHEETS)

MODULAR BLOCK RETAINING WALL
(SEE STRUCTURE PLAN SHEETS)

END PROJECT
STA 55+48.70 'FN'
MATCH EXISTING

BAVARIA SAUSAGE

FRED-ELAN LLC

N

STA 24+52.55'WB' TO STA 24+62.48'WB'
TRANSITION FROM CONCRETE CURB & GUTTER 30-INCH TYPE D
TO CONCRETE CURB & GUTTER 24-INCH TYPE D,
PAID FOR AS CURB & GUTTER 30-INCH TYPE D.

P.L.

E.X. RW

STA 24'WB'+62.48
-17.00' LT
EL 1000.02

MATCH LINE STA 21+25 'WB'

LACY RD

22+00 'WB'

23+00 'WB'

24+00 'WB'

STA 24'WB'+52.55
-17.00' LT
EL 999.42

END CONSTRUCTION
STA 24+62.33 'EB'
MATCH EXISTING
SAW CUT REQ'D

C

22+00 'EB'

23+00 'EB'

24+00 'EB'

A

E

SANITARY SEWER

STA 24'EB'+52.27
17.00' RT
EL 999.61

STA 24'EB'+62.33
17.00' RT
EL 1000.22

F

XXXXX

TLE

P.E.

E.X. RW

TLE

P.E.

STA 24+52.27'EB' TO STA 24+62.33'EB'
TRANSITION FROM CONCRETE CURB & GUTTER 30-INCH TYPE D
TO CONCRETE CURB & GUTTER 24-INCH TYPE D,
PAID FOR AS CURB & GUTTER 30-INCH TYPE D.

DIANE REMEIKA

LEGEND

- A — HMA PAVEMENT
- B — BASE AGGREGATE DENSE 3/4-INCH
- C — CONCRETE CURB & GUTTER 30-INCH TYPE D
- D — POROUS ASPHALT PAVEMENT (MULTI-USE PATHWAY)
- E — CONCRETE DRIVEWAY
- F — ASPHALT DRIVEWAY
- G — CONCRETE MEDIAN SLOPED NOSE TYPE 1
- H — CONCRETE MEDIAN SLOPED NOSE TYPE 2
- I — CONCRETE CURB & GUTTER 24-INCH TYPE D REJECT
- J — CONCRETE CURB & GUTTER 24-INCH TYPE D REJECT MOUNTABLE
- K — CONCRETE CURB & GUTTER 24-INCH TYPE D
- L — CONCRETE SIDEWALK 5-INCH & STAMPING COLORED CONCRETE RED BRICK
- M — CONCRETE TRUCK APRON 12-INCH & COLORING CONCRETE DOT RED
- N — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- O — CONCRETE CURB & GUTTER 24-INCH TYPE A REJECT

DRIVEWAY CURB
CURB RAMP CURB
MOUNTABLE CURB & MEDIAN
CONCRETE SIDEWALK OR DRIVEWAY, 7-INCH
SLOPE INTERCEPTS
XXXXXX SAWCUT

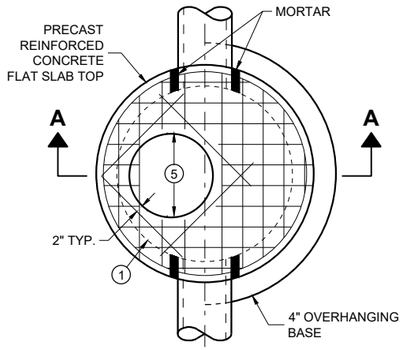
THE CITY OF Fitchburg PUBLIC WORKS

PLAN SHEETS
FITCHRONA ROAD AND LACY ROAD

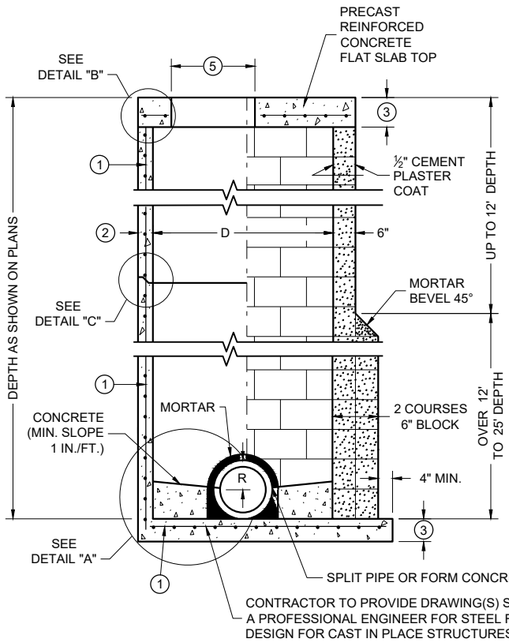
SCALE: 1 IN:40 FT
DATE: JULY 2024
REVISION: 100% PLANS

PROJECT NO.: 60703122
SHEET NO.: C-536

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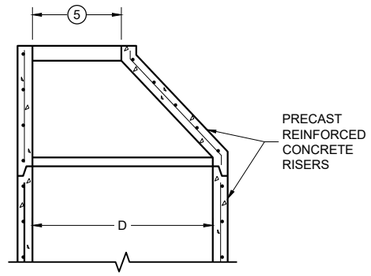
PLAN VIEW
CIRCULAR OPENING



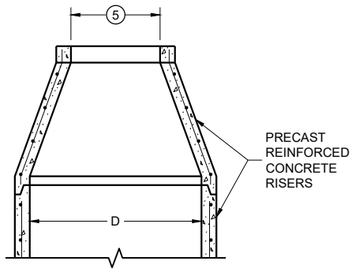
SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

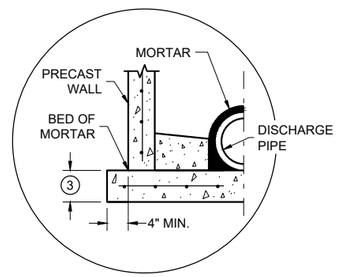
MANHOLE COVER OPENING MATRIX

OPENING SIZE (FT.) (5) \ MANHOLE COVER TYPE	C	ALL J'S	K	L	M
2 DIA.	X	X		X	
3 DIA.			X		X

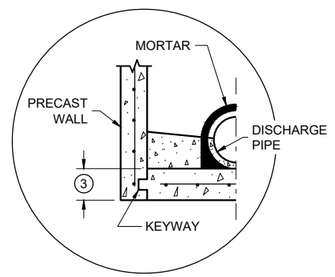
PIPE MATRIX

MANHOLE SIZE (DIA.)	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES		MINIMUM WALL THICKNESS (IN)	MINIMUM PRECAST FLAT SLAB TOP AND BASE THICKNESS
	180° SEPARATION (IN)	90° SEPARATION (IN)		
3-FT	15	12	4	6
4-FT	24	18	4	6
5-FT	36	24	5	8
6-FT	42	36	6	8
7-FT	48	36/42 *	7	8
8-FT	60	42	8	8
9-FT	66	54	9	10
10-FT	72	60	10	10

*A 36" PIPE AND A 42" PIPE CAN BE PLACED WITHIN 90 DEGREES. SEE MINIMUM HORIZONTAL PIPE SEPARATION DETAIL.

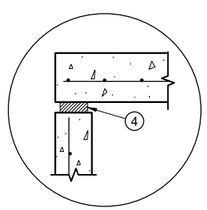


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

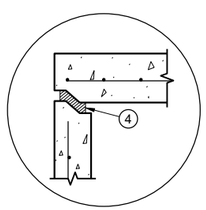


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

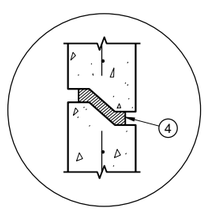
DETAIL "A"



TOP WITH PLAIN END JOINT

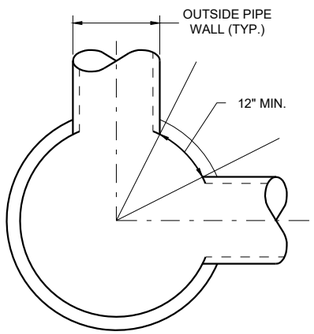


TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B" **DETAIL "C"**



MINIMUM HORIZONTAL PIPE SEPARATION

DETAIL "D"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES. CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL IMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

(1) FOR PRECAST MANHOLES AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(2) SEE PIPE MATRIX TABLE FOR MINIMUM WALL THICKNESS FOR PRECAST MANHOLES

(3) SEE PIPE MATRIX TABLE FOR MINIMUM THICKNESS OF PRECAST FLAT SLAB TOPS AND BASES.

(4) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFORMING TO ASTM C443.

(5) SEE MANHOLE COVER OPENING MATRIX.

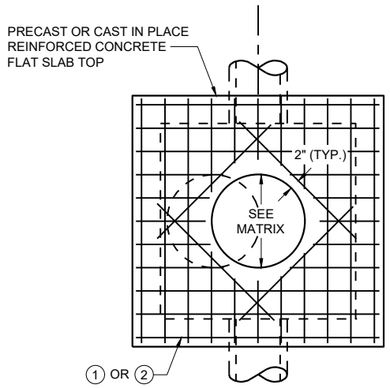
MANHOLES, 3-FT, 4-FT 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

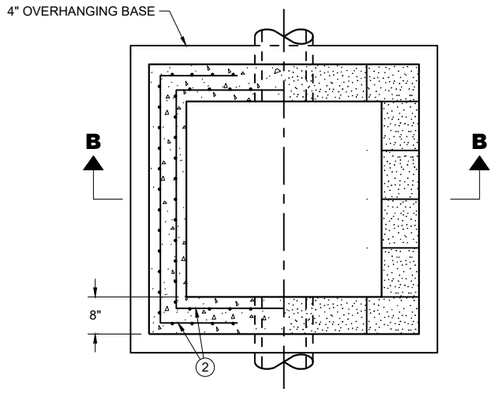
APPROVED
December 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

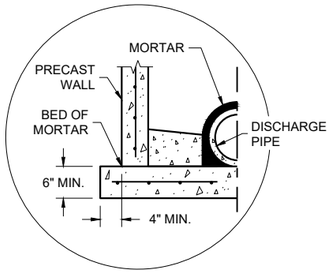
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER



PLAN VIEW
CIRCULAR OPENING

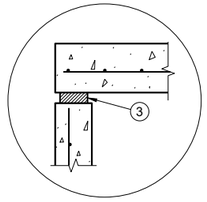


SECTION A - A
PLAN VIEW

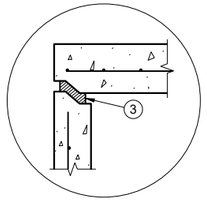


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"

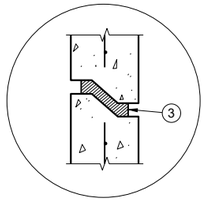


TOP WITH PLAIN END JOINT



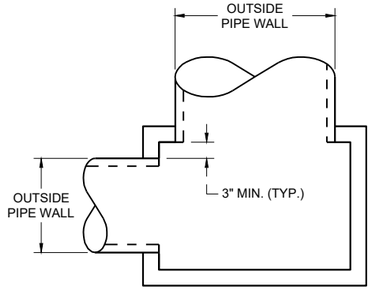
TOP WITH TONGUE AND GROOVE JOINT

DETAIL "B"

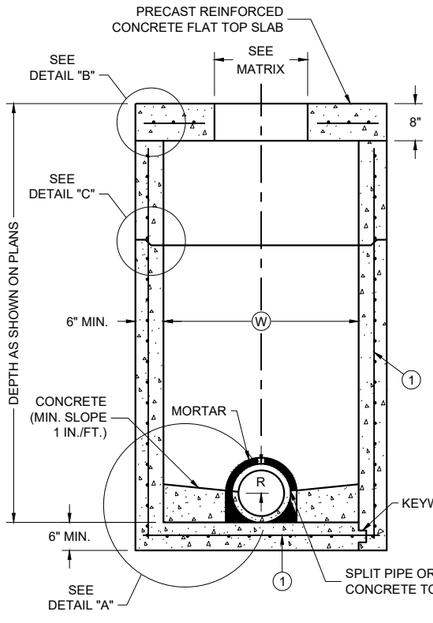


RISER WITH TONGUE AND GROOVE JOINT

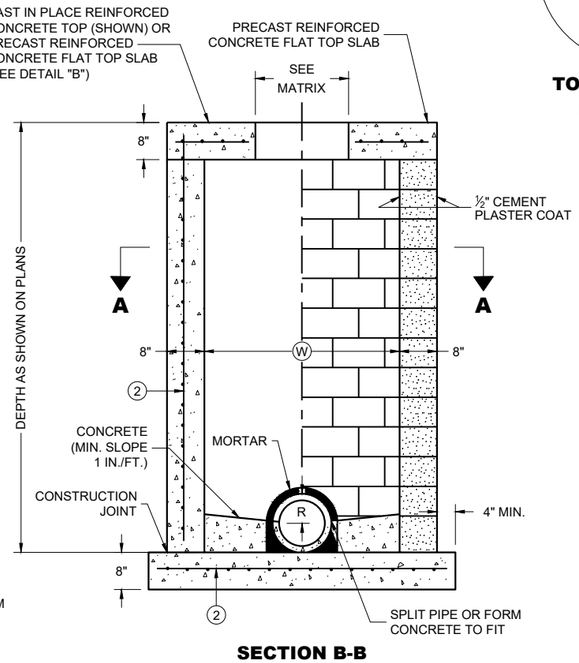
DETAIL "C"



DETAIL "D"



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE



SECTION B-B (1)

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

CAST IN PLACE REINFORCED CONCRETE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE

SQUARE MANHOLES WITH FLAT TOP

MANHOLES 3 X 3-FT, 4 X 4 -FT, 5 X 5-FT AND 6 X 6-FT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C913.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN WIDTH.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "D". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

(1) FOR PRECAST MANHOLES AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

(2) CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGNFOR CAST-IN-PLACE STRUCTURES.

(3) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP.)

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT.)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE WxW-FT	MAXIMUM INSIDE PIPE DIAMETER (IN)
3 X 3 FT	24
4 X 4 FT	30
5 X 5 FT	42
6 X 6 FT	54

MANHOLES
3 X 3 -FT, 4 X 4-FT
5 X 5-FT AND 6 X 6-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2023
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

FHWA

6

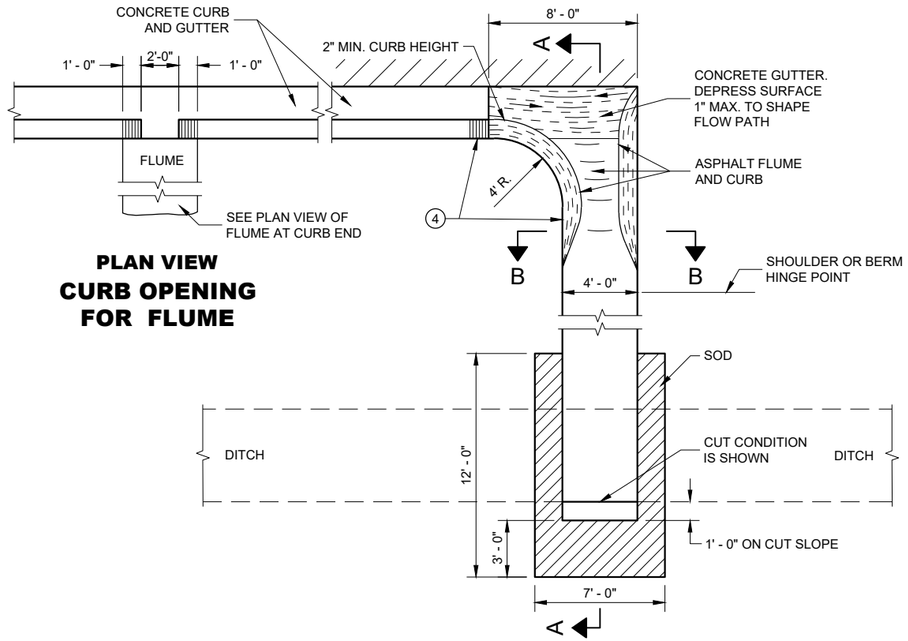
SDD 08B10-03

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SDD 08B10-03

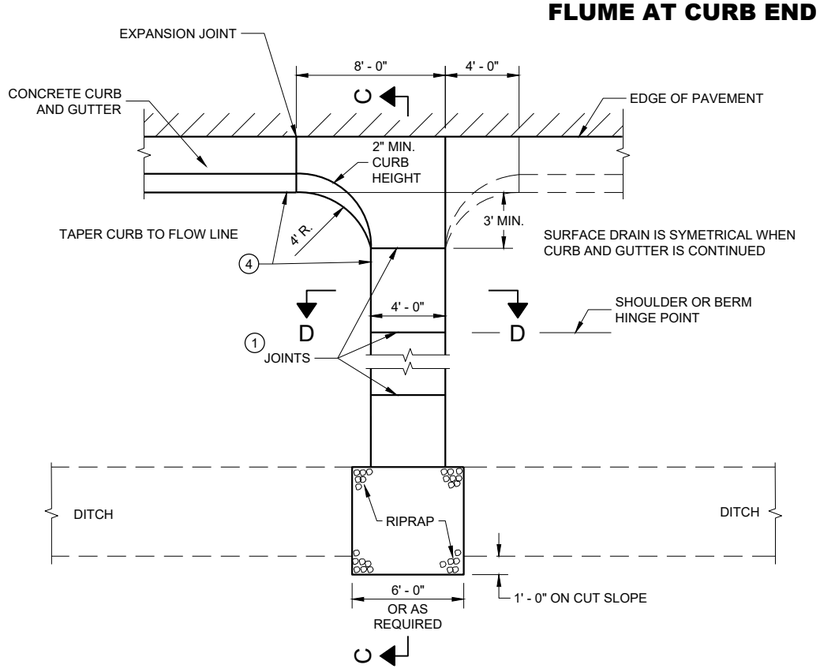
NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



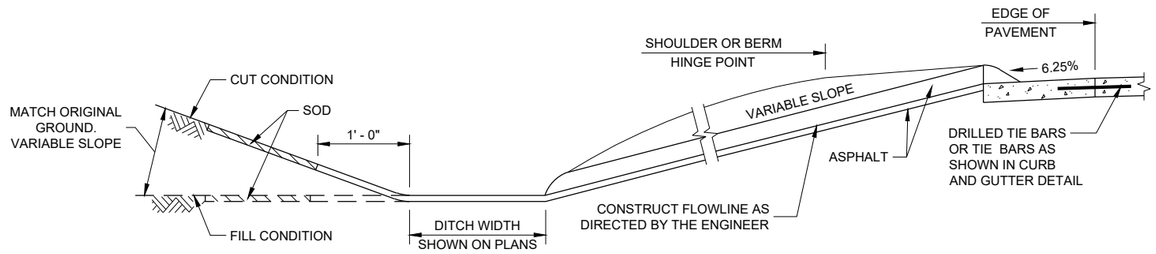
PLAN VIEW
CONCRETE SURFACE DRAIN

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

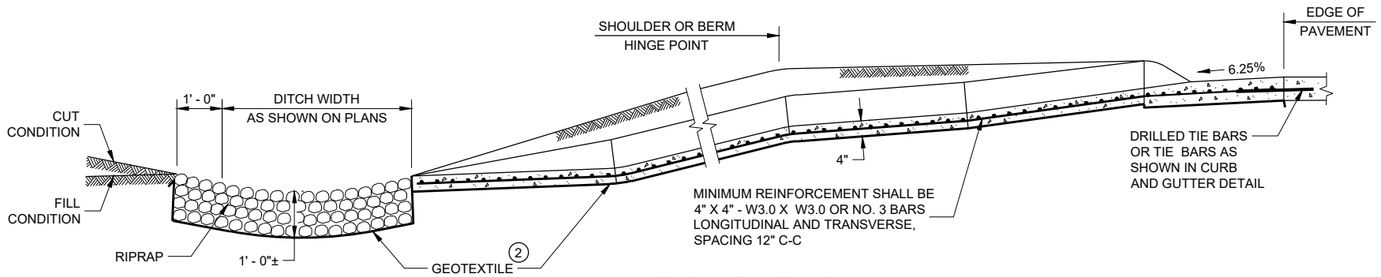
4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

1. JOINTS SHALL BE ⅛" TO ¼" WIDE BY 1½" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
2. GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
3. CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
4. ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.

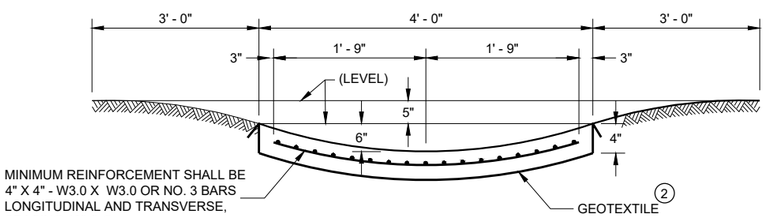


SECTION A - A

SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6

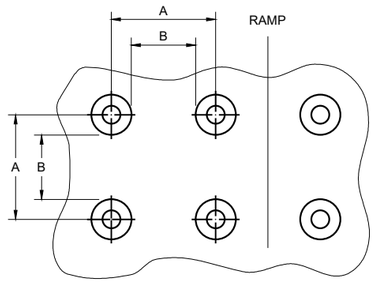
SDD 08D04 - 07

6

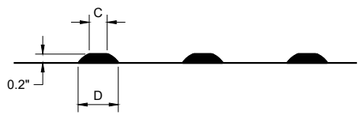
SDD 08D04 - 07

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

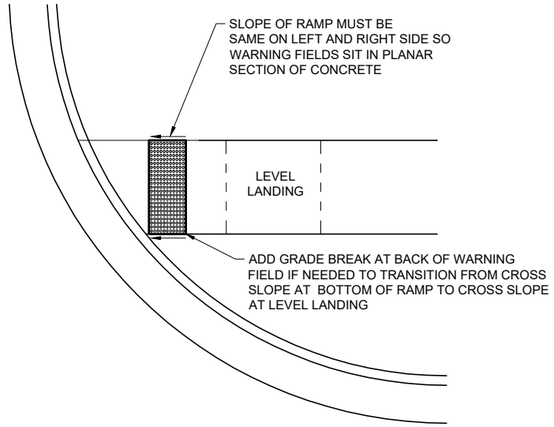
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



PLAN VIEW



ELEVATION VIEW



DETECTABLE WARNING FIELD
PLANAR INSTALLATION

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

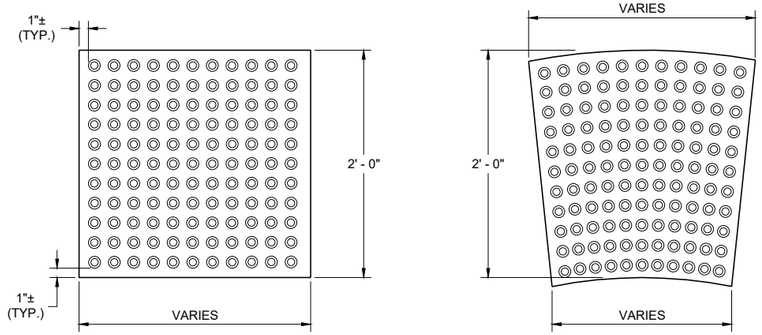
FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

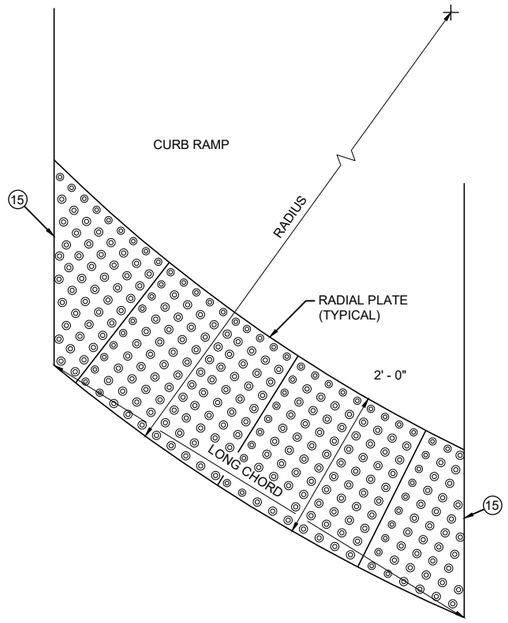
TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



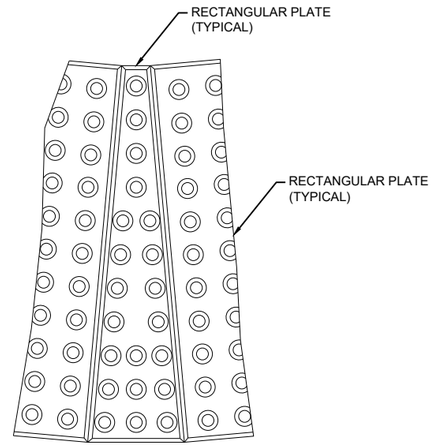
RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

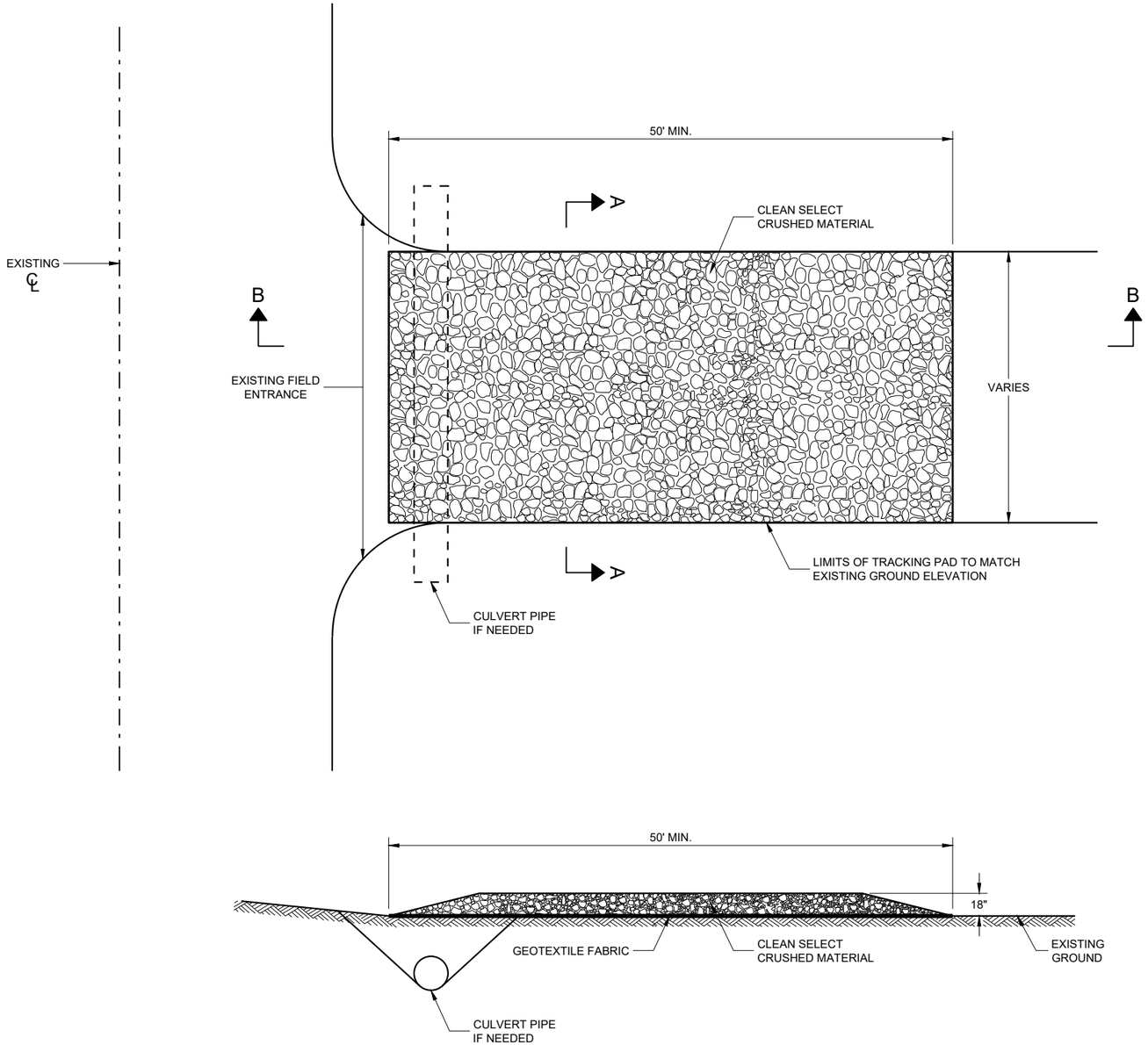
6

SDD 08D05-21g

6

SDD 08D05-21g

SDD 08E14 Tracking Pad



SECTION B - B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

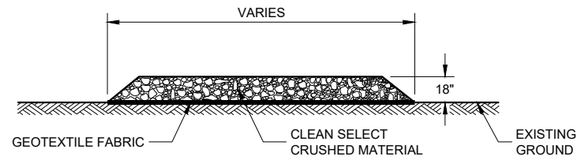
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A - A

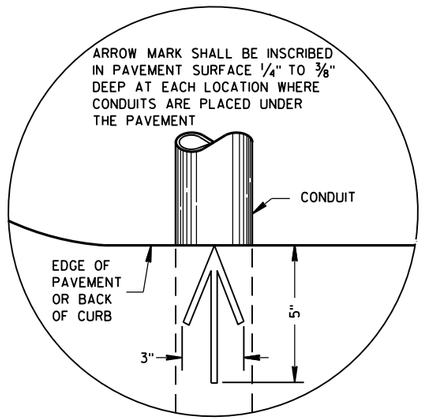
TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA



PLAN VIEW

ARROW MARK

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

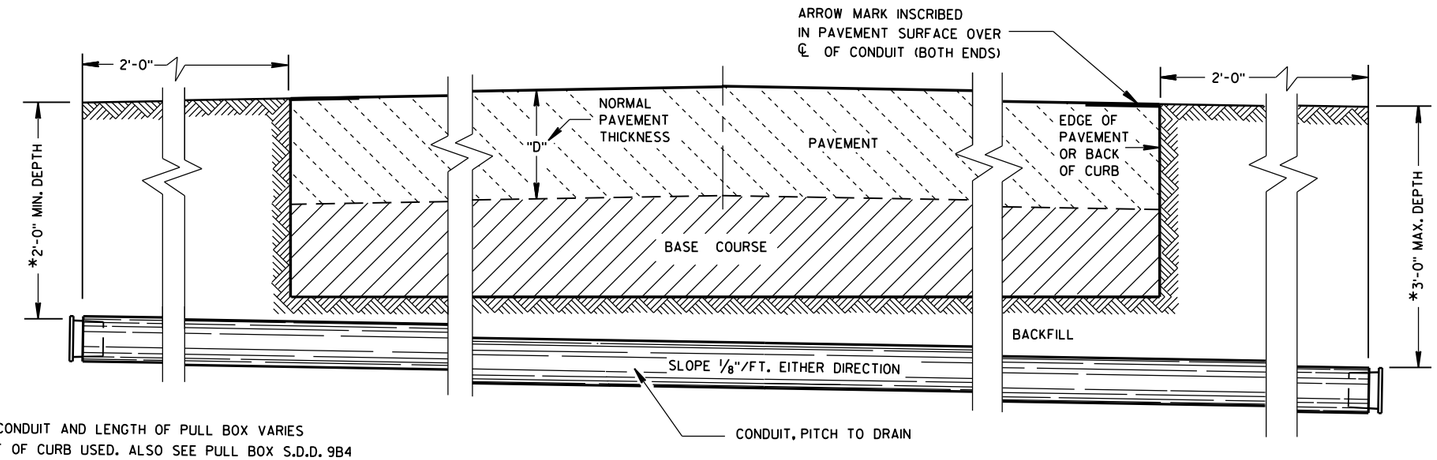
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL ENGINEER
FHWA

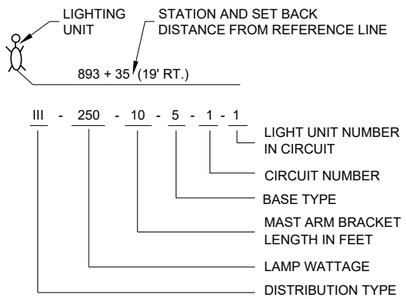
SDD 09E03 Non-Freeway Lighting Unit Pole Wiring

GENERAL NOTES

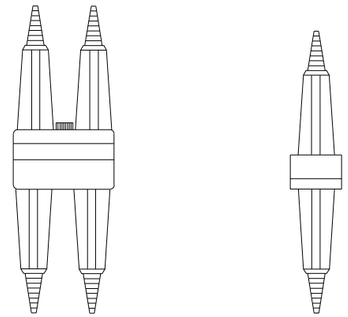
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

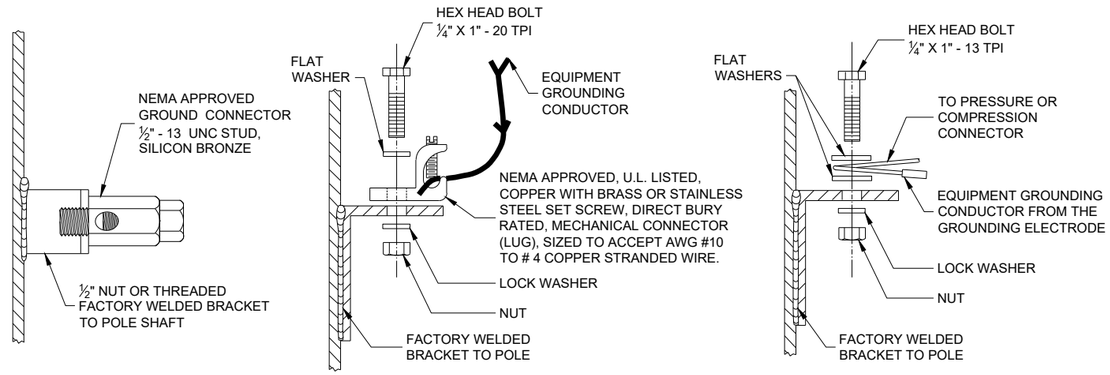


LIGHTING UNIT CODE
(TYPICAL)

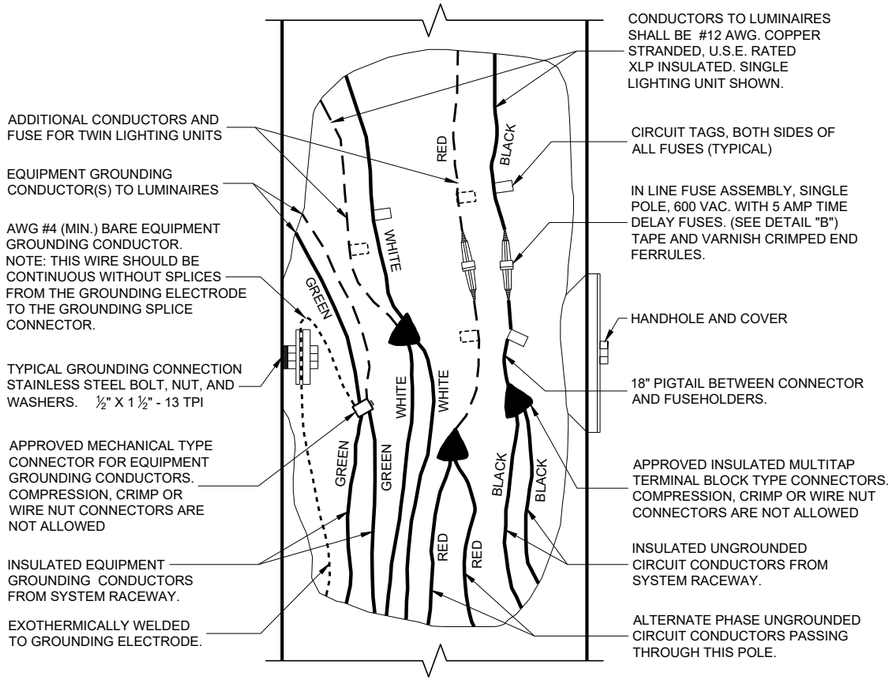


DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT

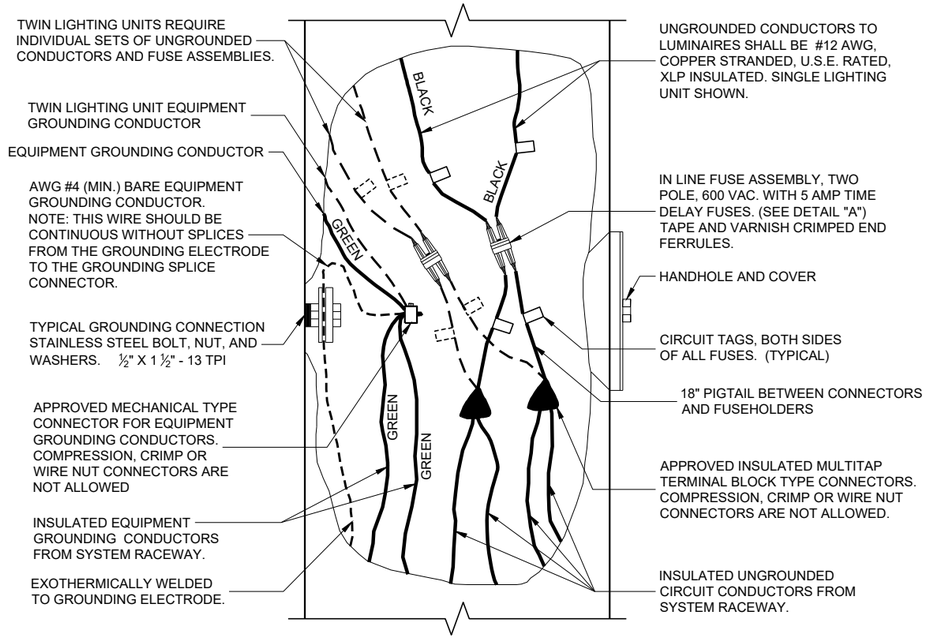
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH GROUNDING CONDUCTOR AND EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

NON - FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

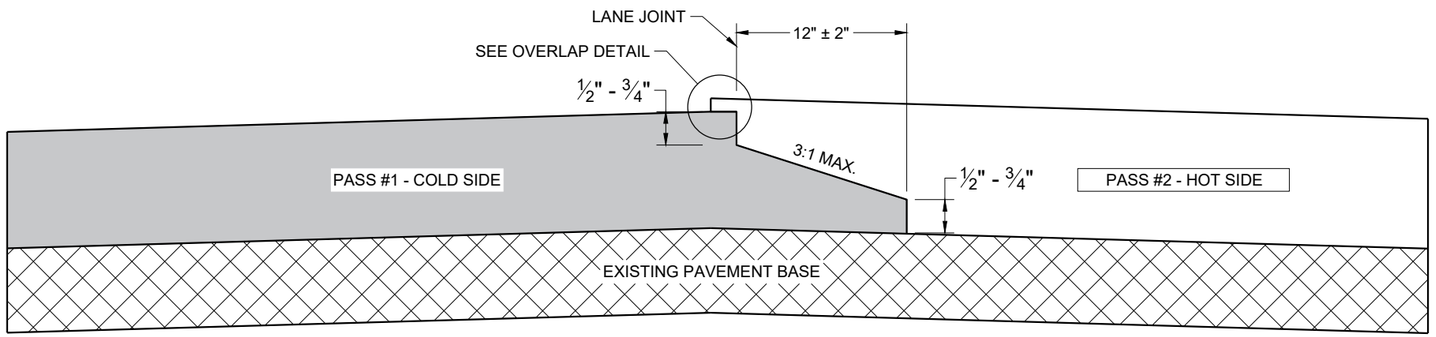
FHWA

6

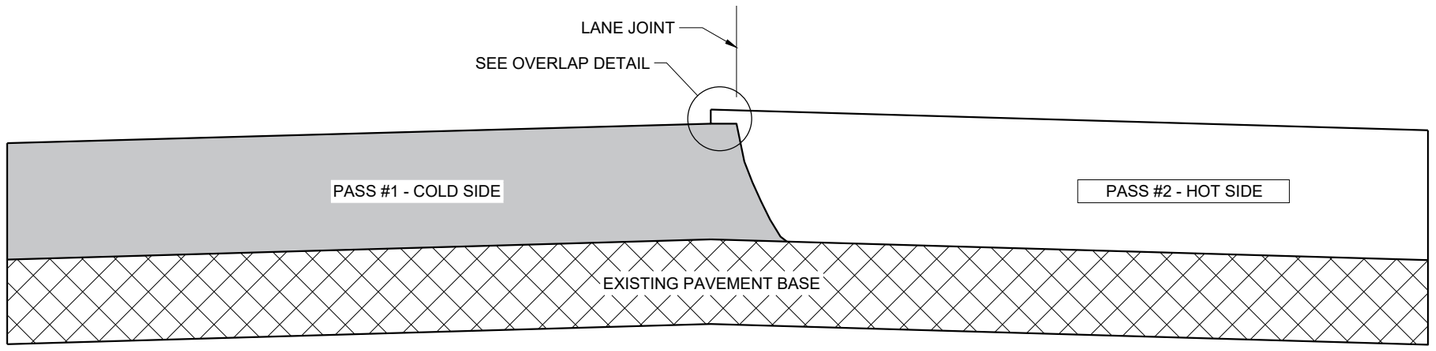
SDD 09E03 - 06

6

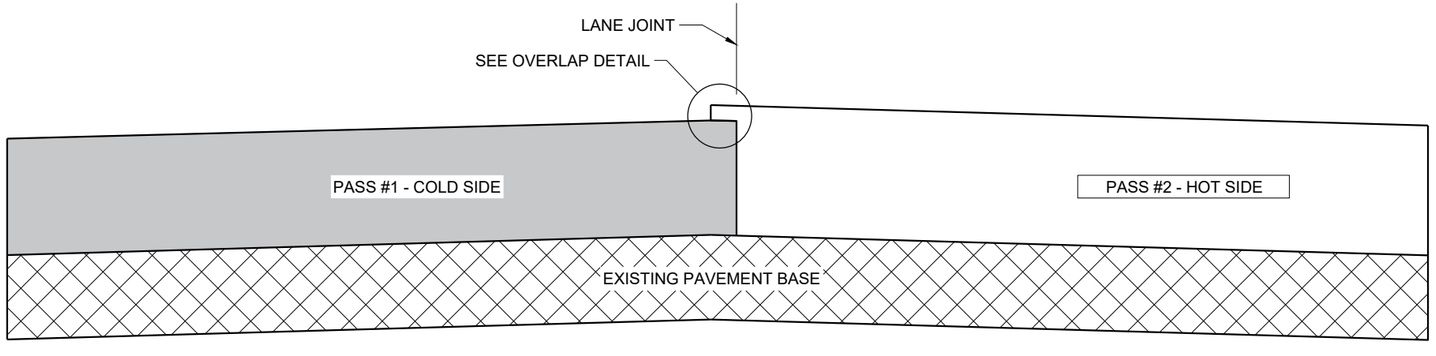
SDD 09E03 - 06



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

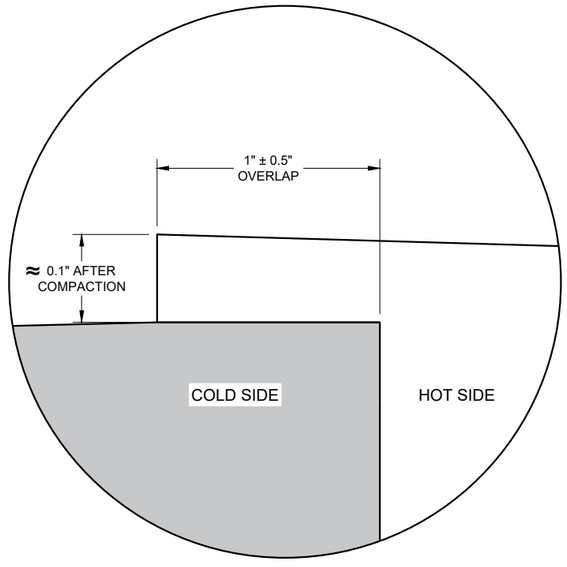
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

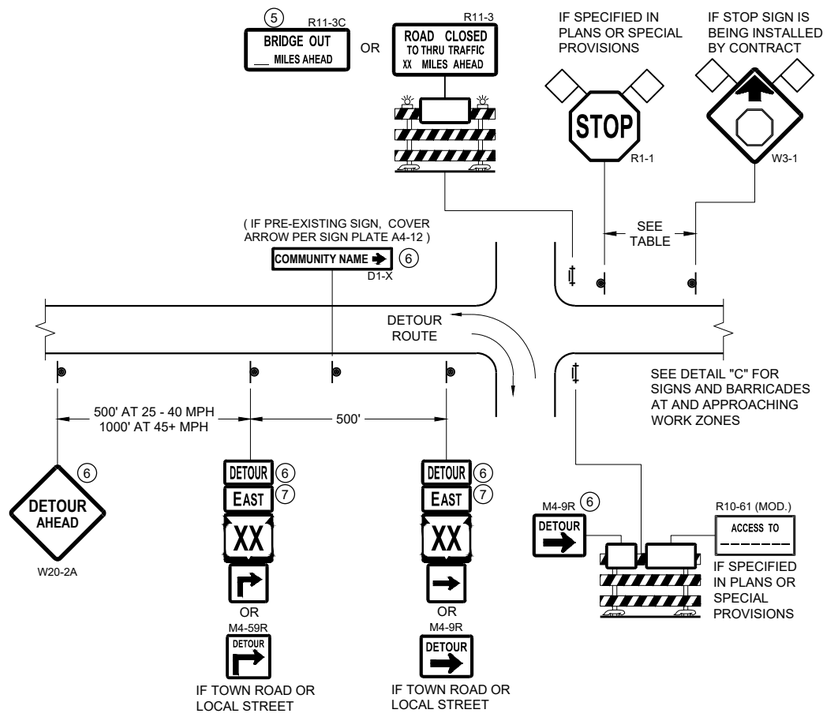
WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



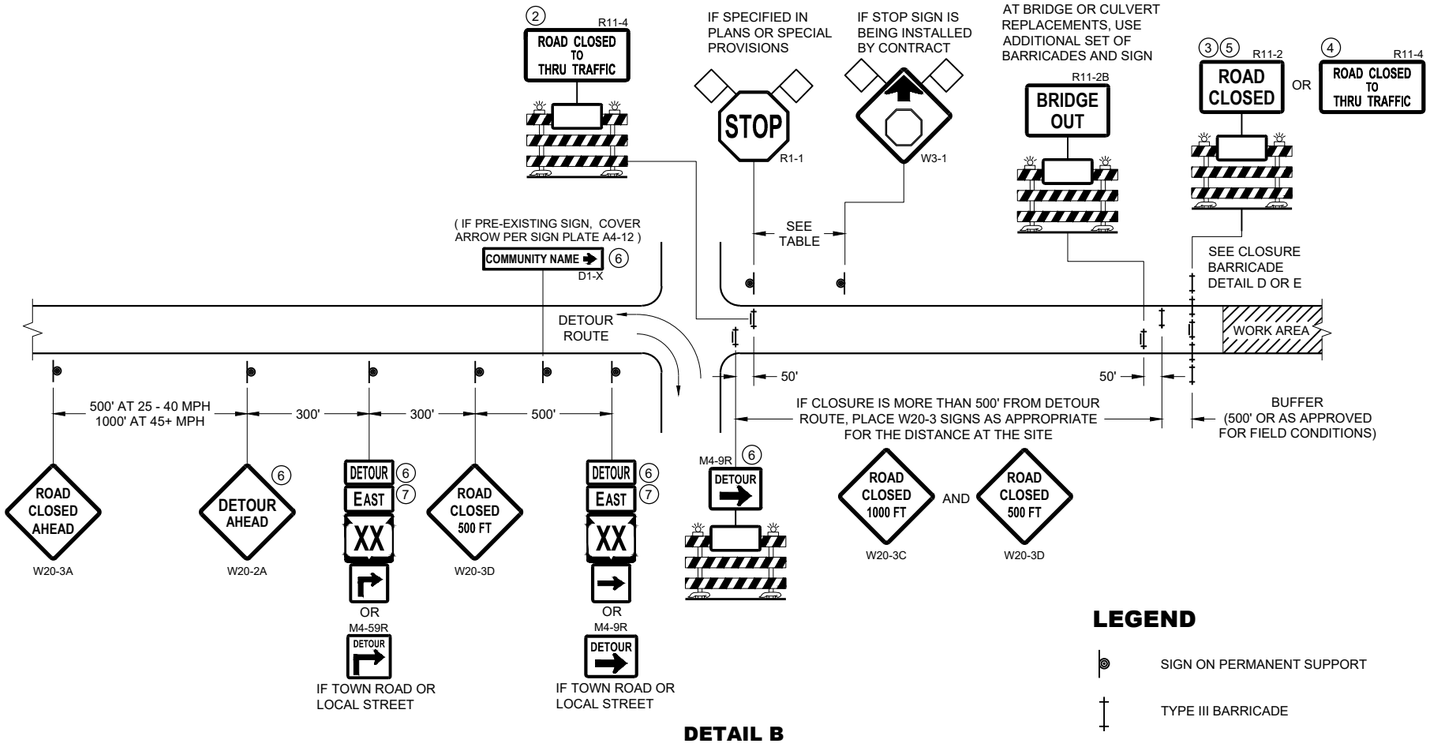
OVERLAP DETAIL (TYPICAL)

HMA LONGITUDINAL JOINTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2020 DATE	/S/ Steven Hefel HMA PAVEMENT ENGINEER
FHWA	



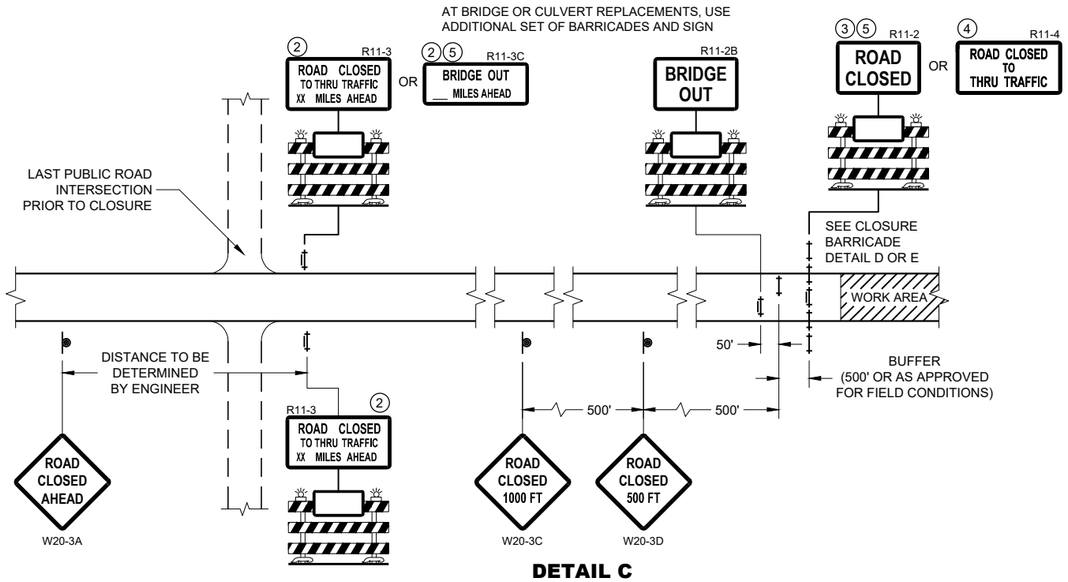
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

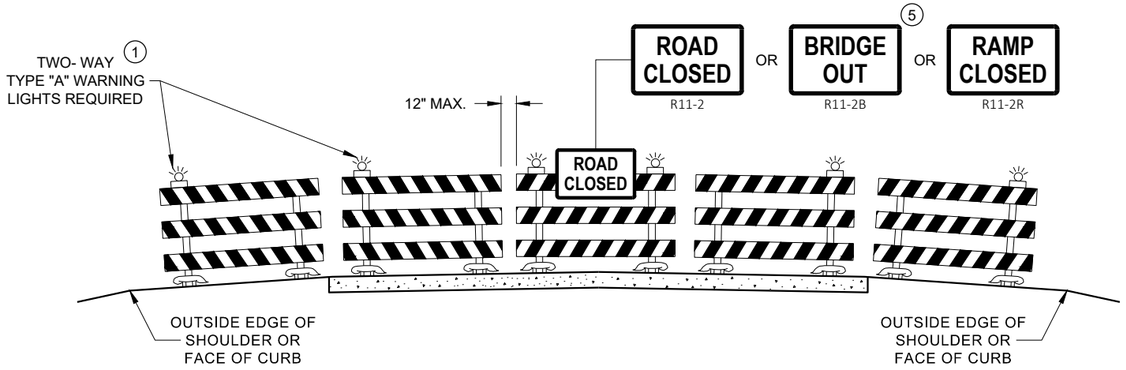
APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

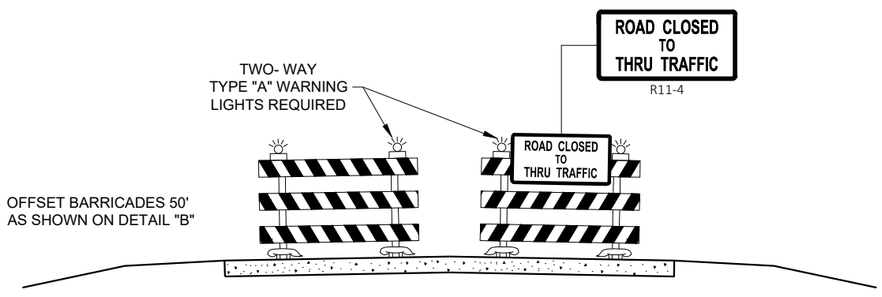
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6

SDD 15C02 - 09a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

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SDD 15C02 - 09b

6

SDD 15C02 - 09b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

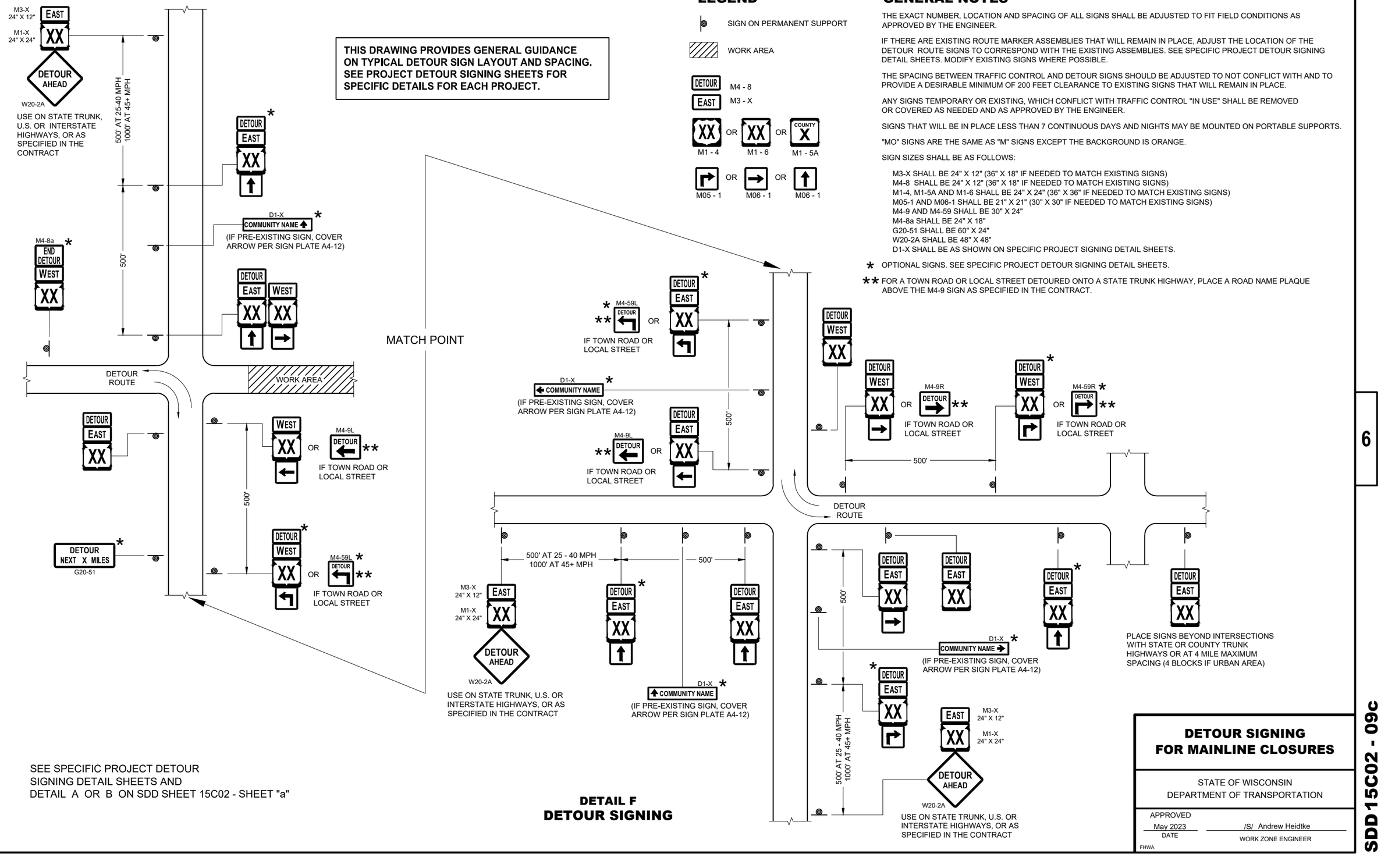
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

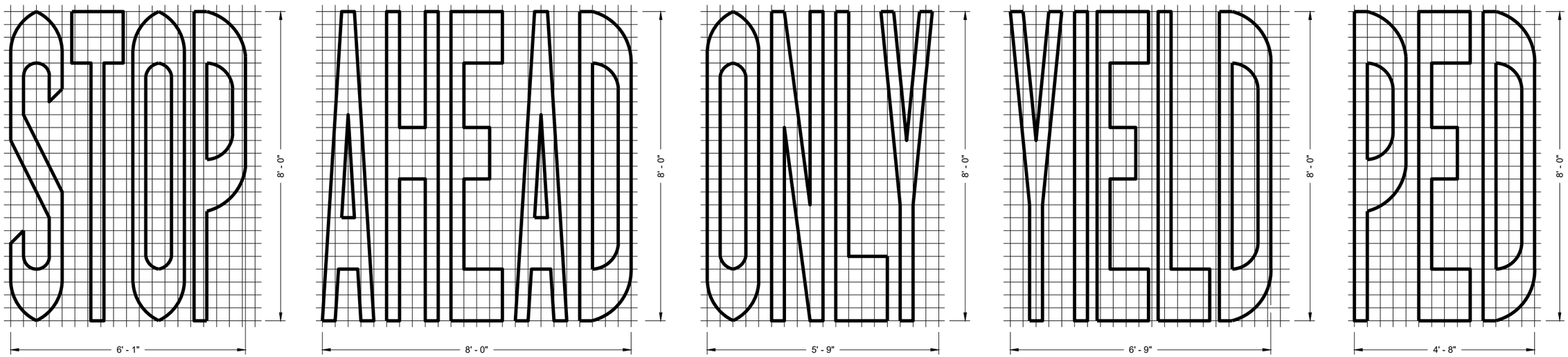
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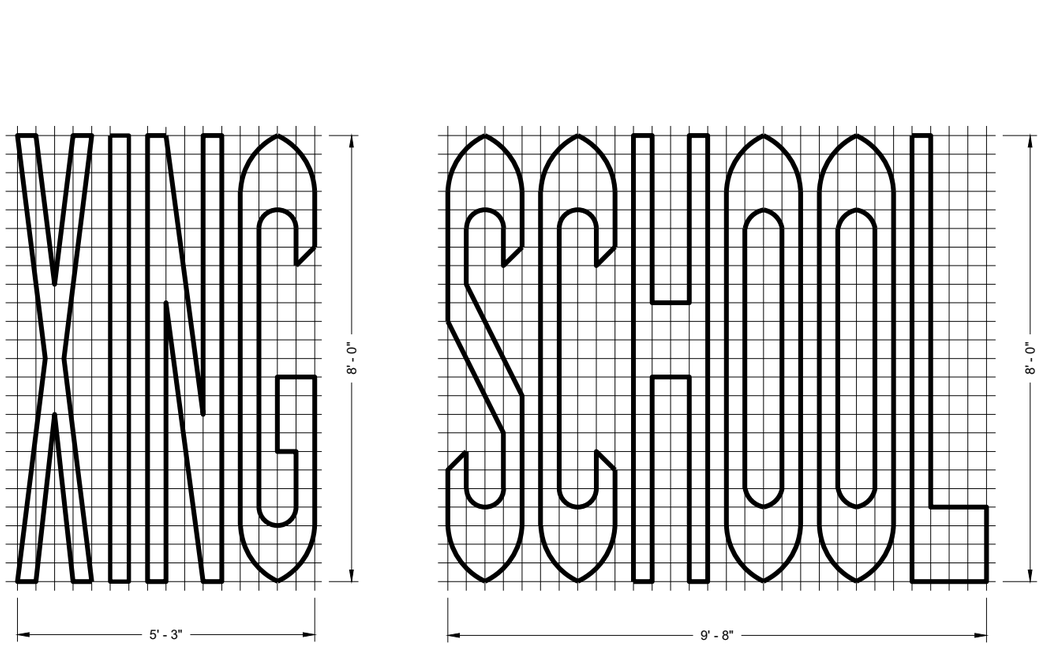
SDD 15C02 - 09c

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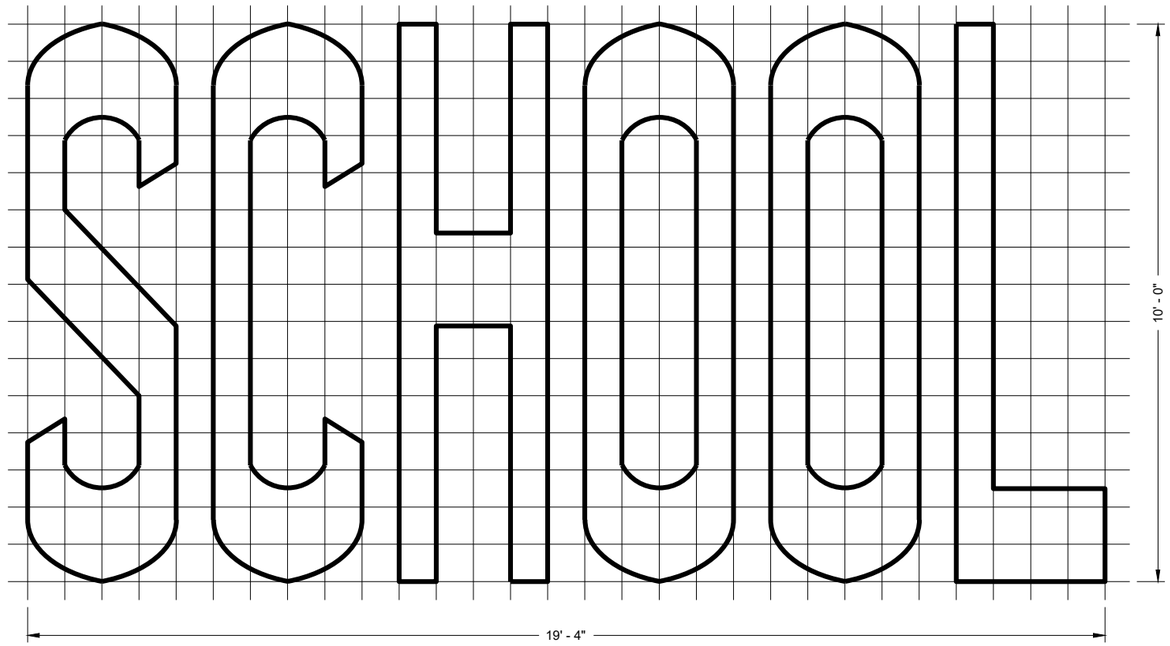
SDD 15C02 - 09c

SDD 15C07-b Pavement Marking Words





SINGLE LANE



TWO - LANE

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA

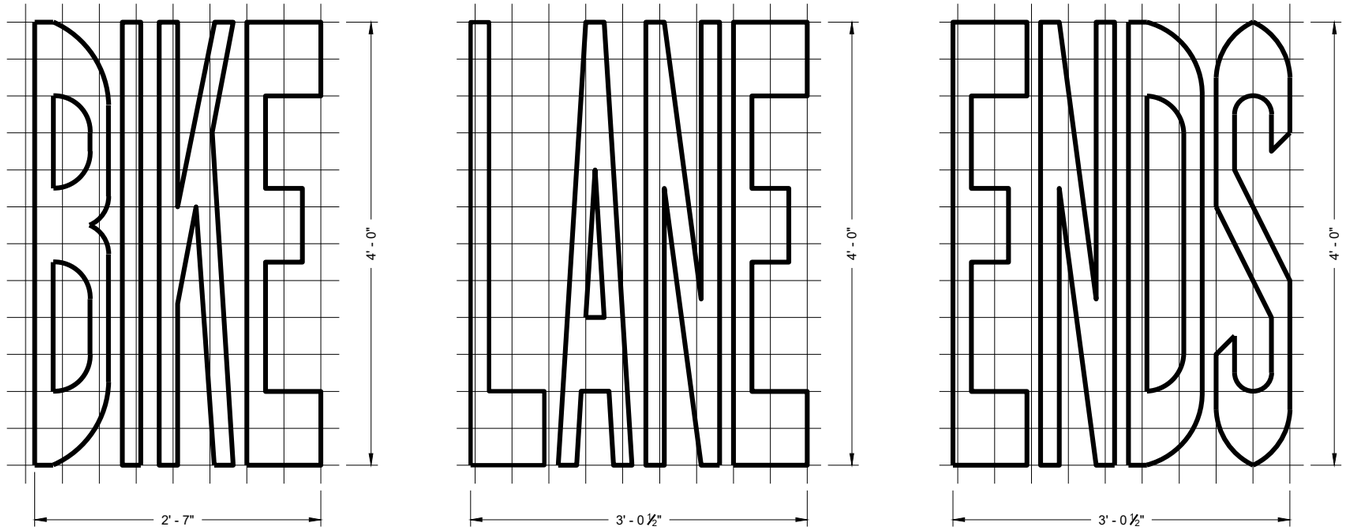
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SDD 15C07 - 15b

SDD 15C07 - 15b

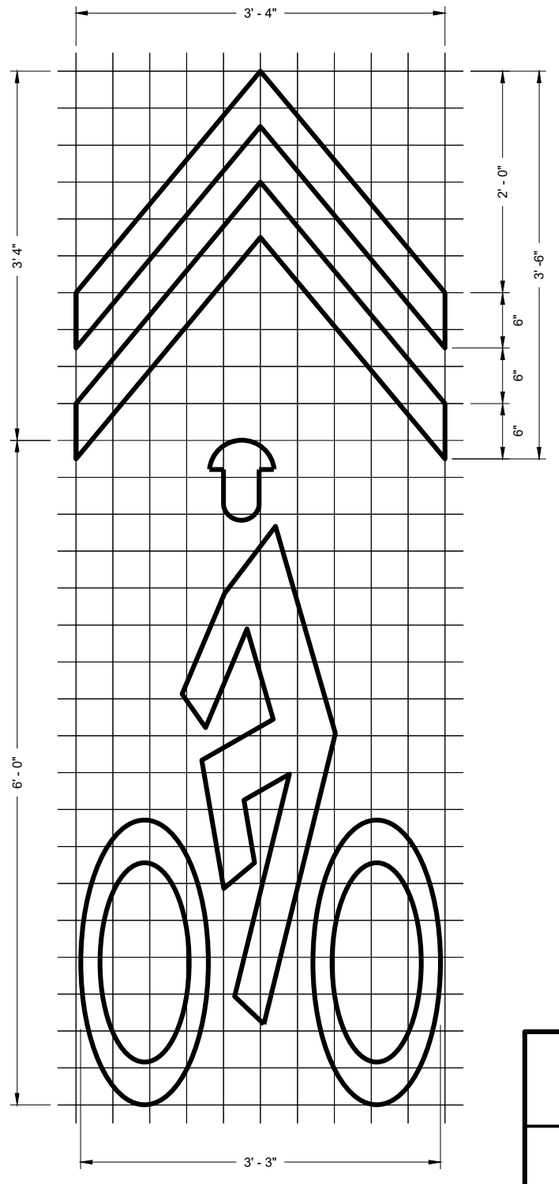
SDD 15C7-e Pavement Marking For Bike Lanes

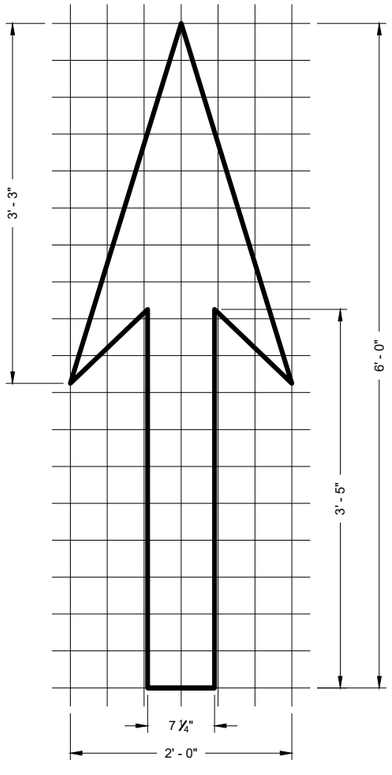


BIKE LANE WORDS

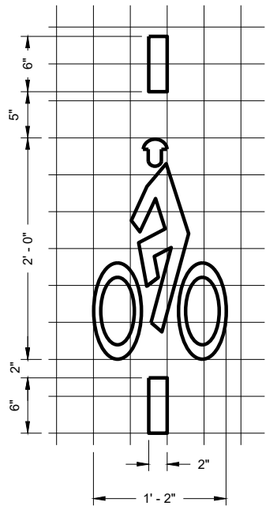
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

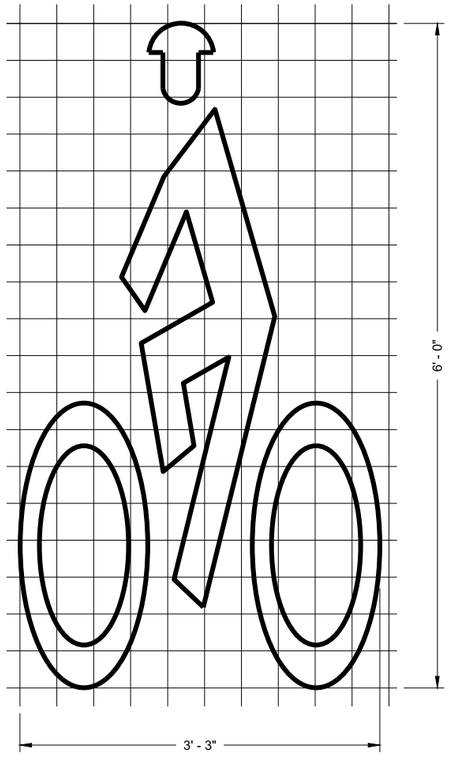




BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING



BIKE LANE SYMBOL

BIKE LANE SYMBOL FOR SHARED LANE

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MARKING ENGINEER

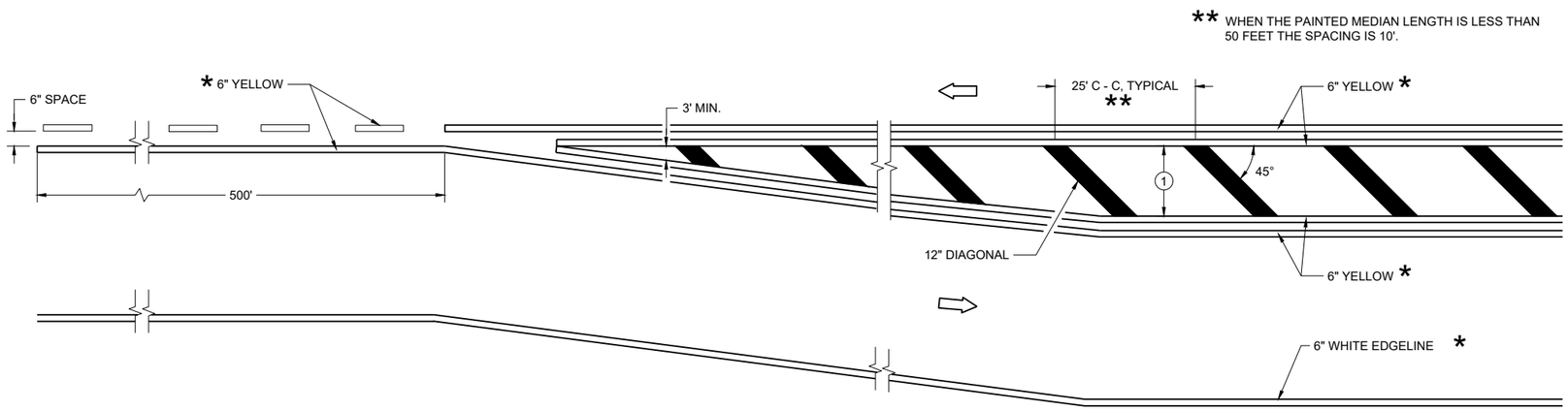
FHWA

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SDD 15C07 - 15e

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SDD 15C07 - 15e



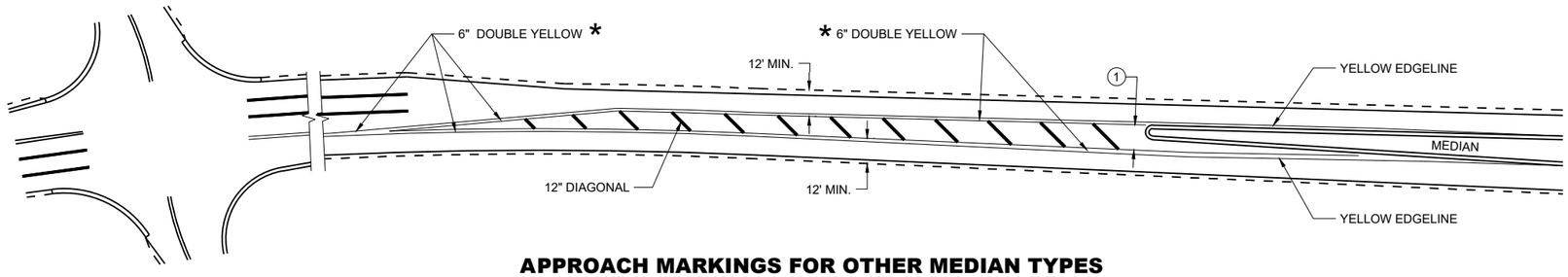
MEDIAN ISLAND DETAIL

GENERAL NOTES

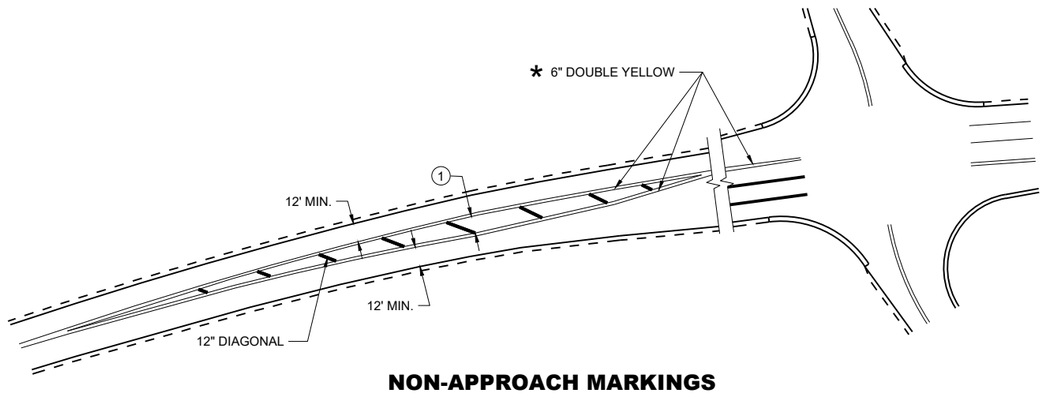
(1) DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

DIRECTION OF TRAVEL

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

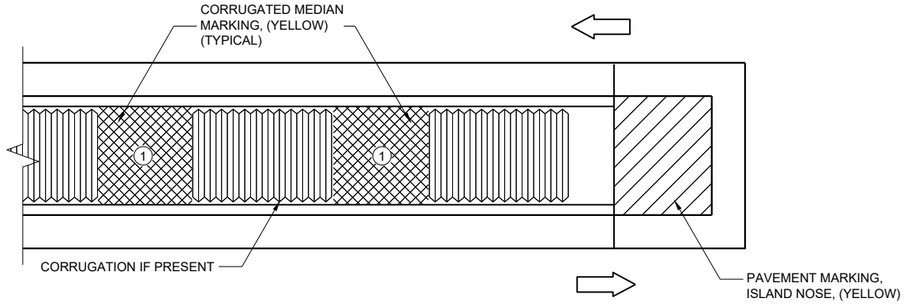
APPROVED
May 2023 — DATE
/S/ Jeannie Silver — Statewide Pavement Marking Engineer
FHWA

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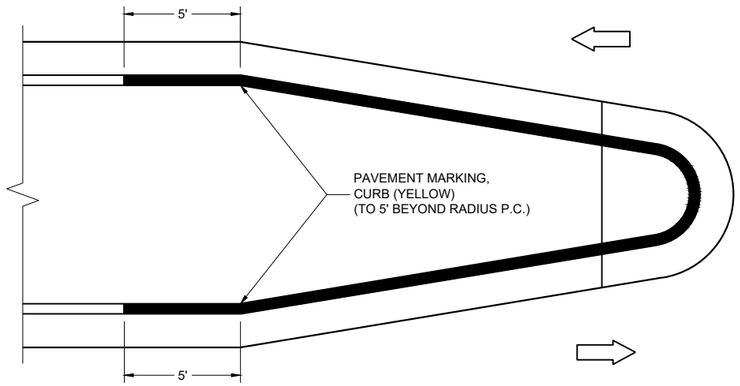
SDD 15C18-09a

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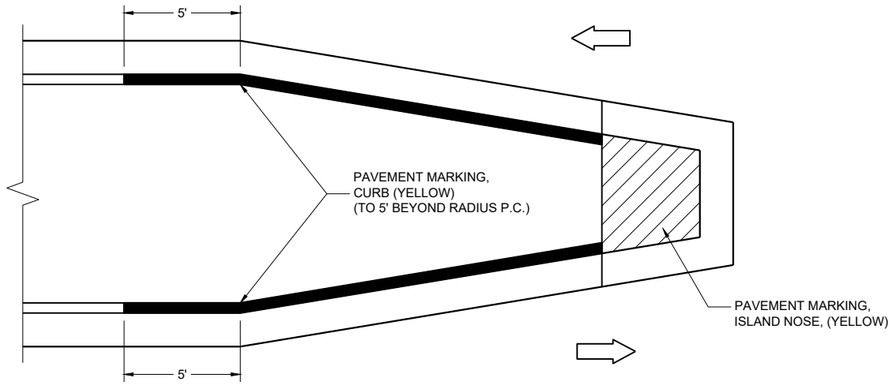
SDD 15C18-09a



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

**TYPICAL PLACEMENT OF
PAVEMENT MARKING ON MEDIAN ISLANDS**

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

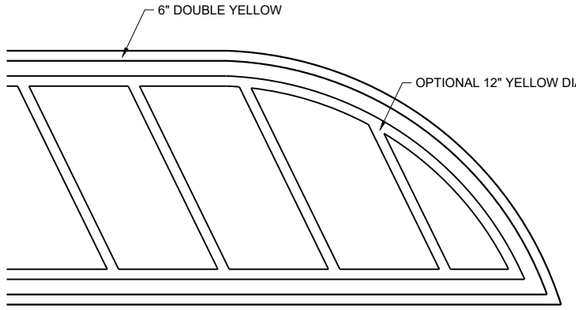
(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL



FLUSH MEDIAN ISLAND NOSE

**PAVEMENT MARKINGS,
MEDIAN ISLAND NOSE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Jeannie Silver
Statewide Pavement Marking Engineer
FHWA

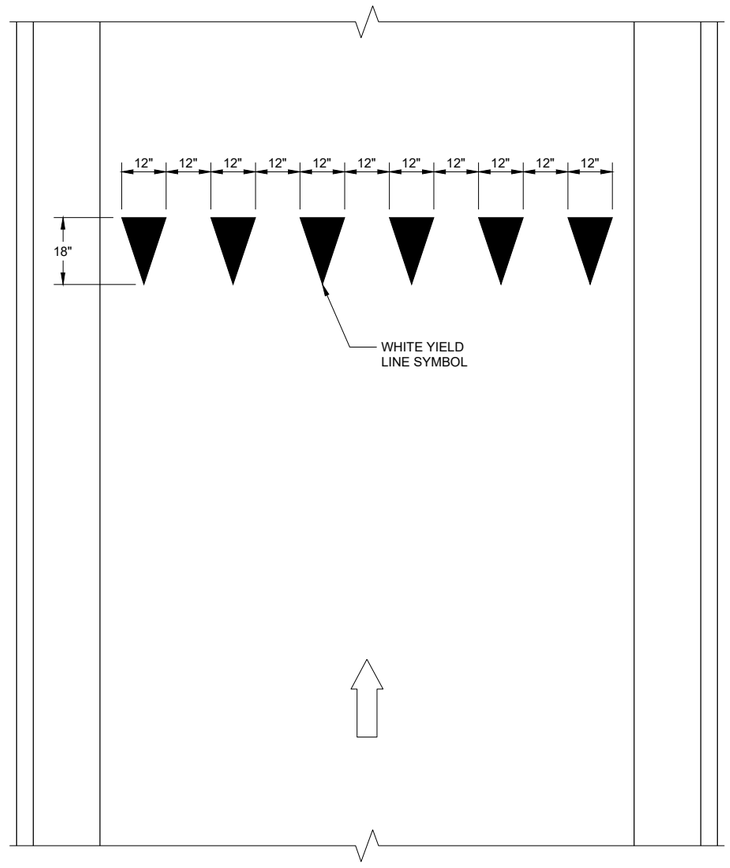
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SDD 15C18-09b

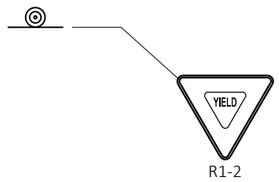
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SDD 15C18-09b

SDD 15C20 Yield Markings



YIELD LINE



R1-2

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAVEL

YIELD MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-81-2016
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA

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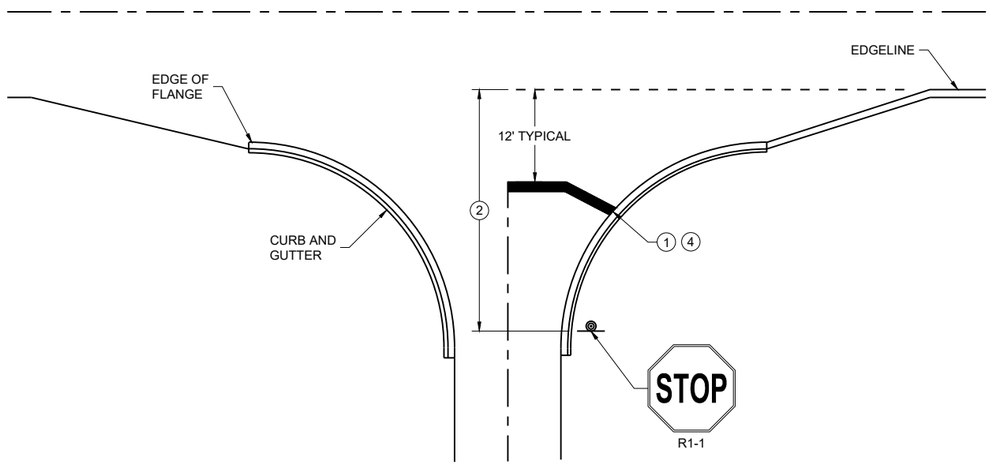
SDD 15C20 - 02

SDD 15C20 - 02

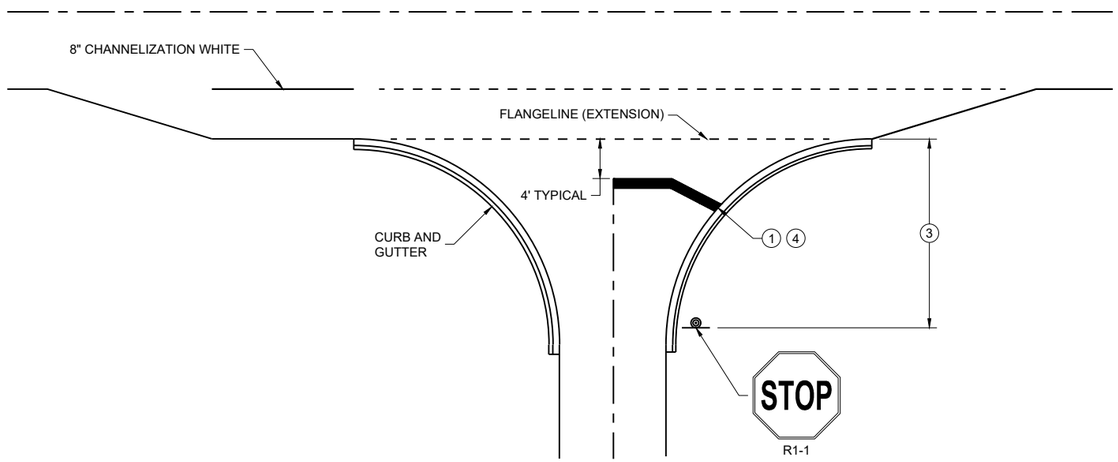
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

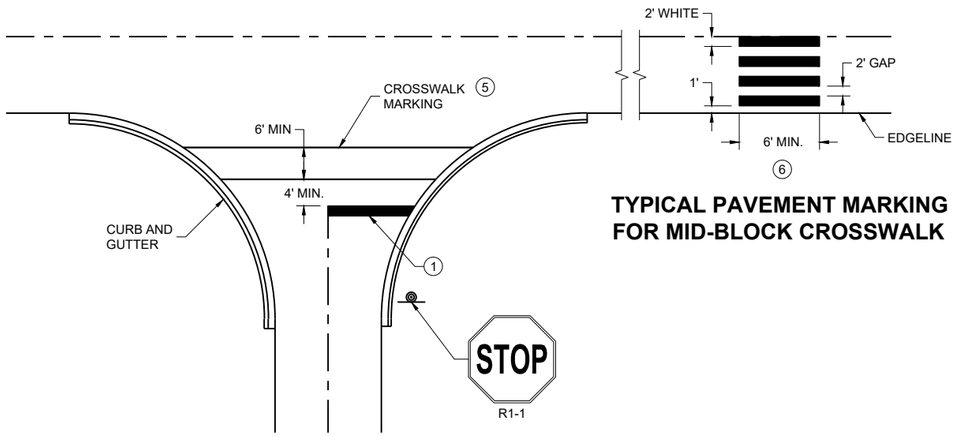
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES.
6. POSTED SPEED LIMITS OF 40 MPH OR GREATER USE A MINIMUM WIDTH OF 8' FOR MIDBLOCK CROSSWALKS



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

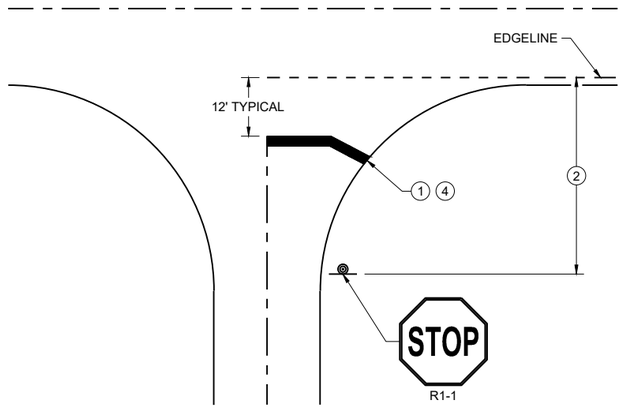


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

March 2024 — DATE

/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

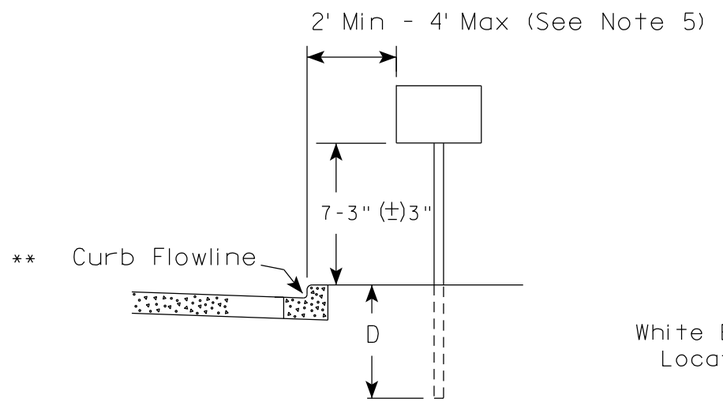
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SDD 15C33-05

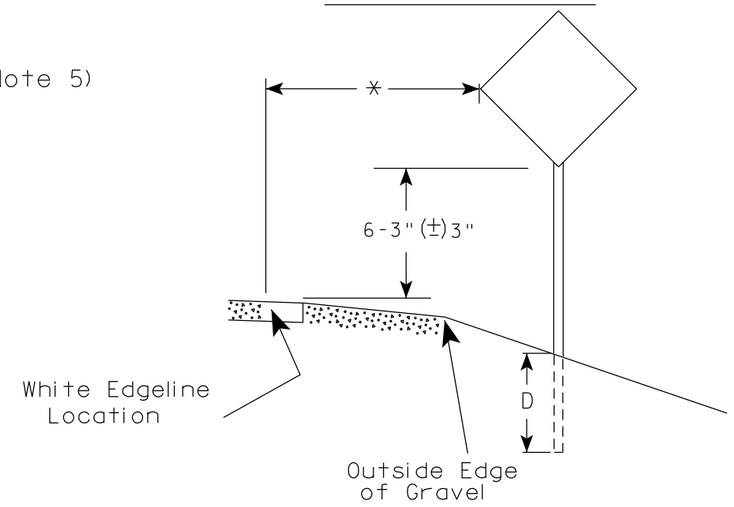
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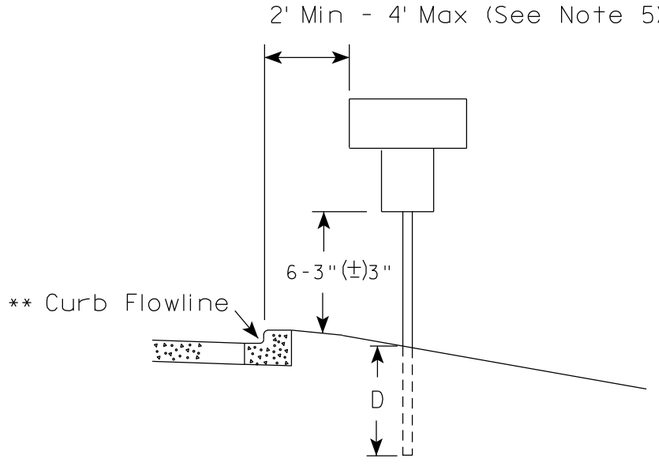
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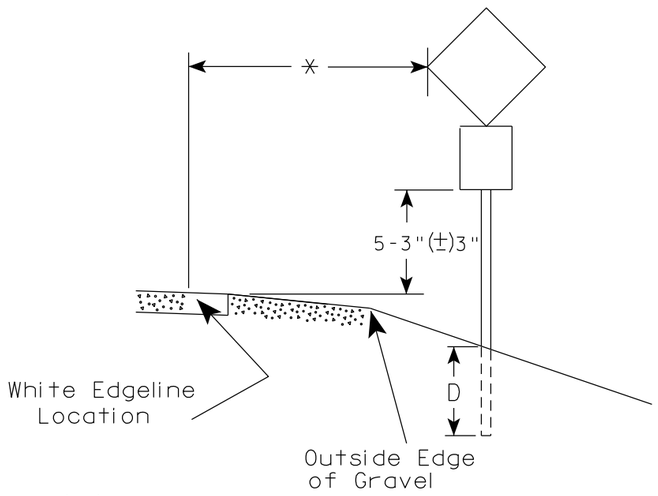
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±) 3".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directd by the Engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

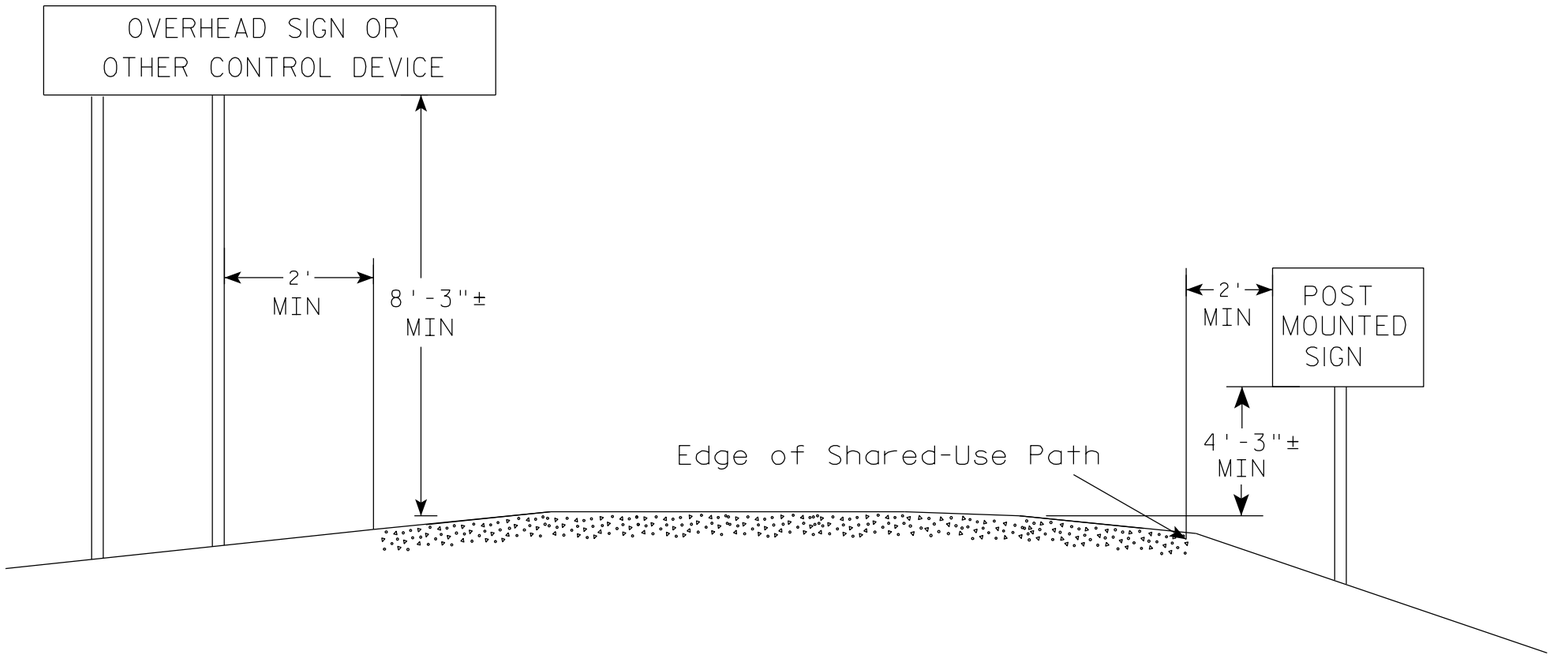
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

GENERAL NOTES

1. Signs wider than 4 feet or larger than 20 sq. ft. shall be mounted on multiple posts. Refer to plate A4-4.
2. Offset distance shall be consistent with existing signs or consistent throughout length of project.
3. The height from ground level to the sign is 8'-3"± min. for the Overhead sign or other control device.
4. The height from ground level to the sign is 4'-3"± min. for the Post mounted sign.



POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

7

7

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON MULTI USE PATHS

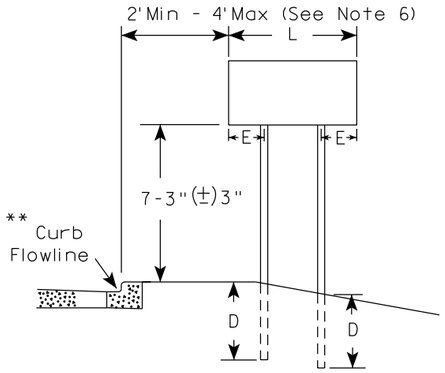
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

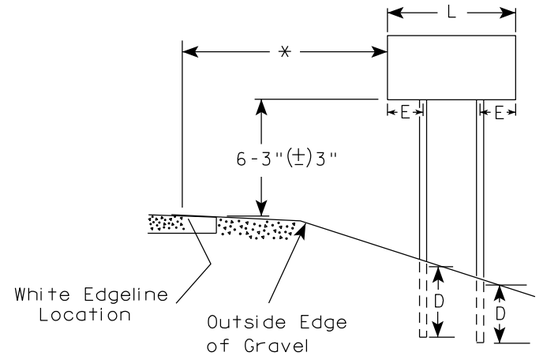
DATE 3/26/2020 PLATE NO. A4-3S.2

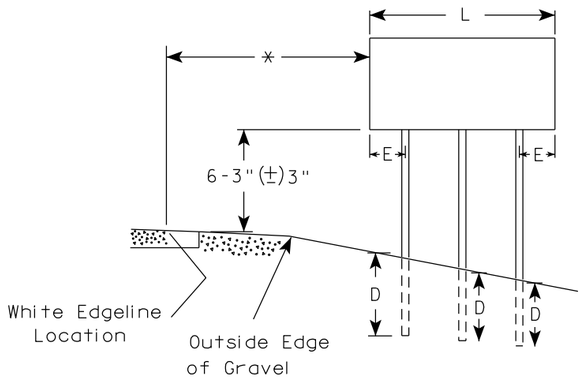
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

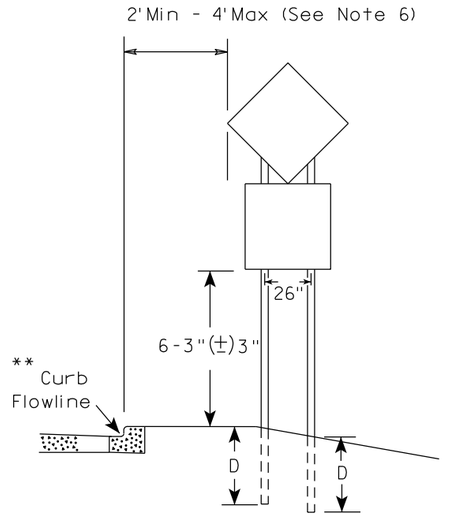
URBAN AREA



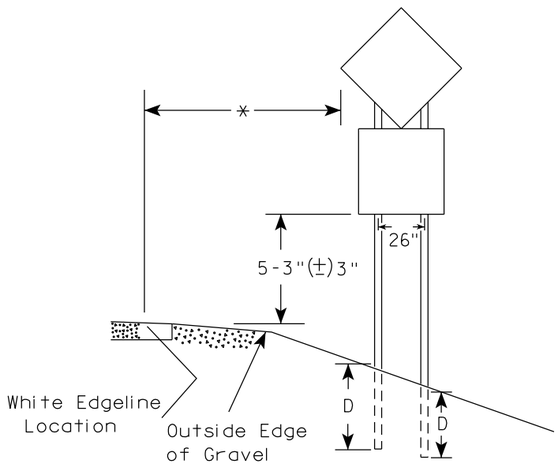
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±) 3".

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

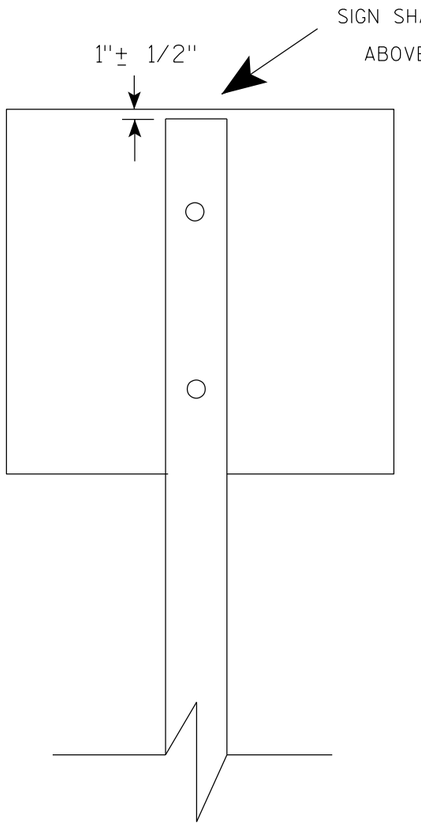
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

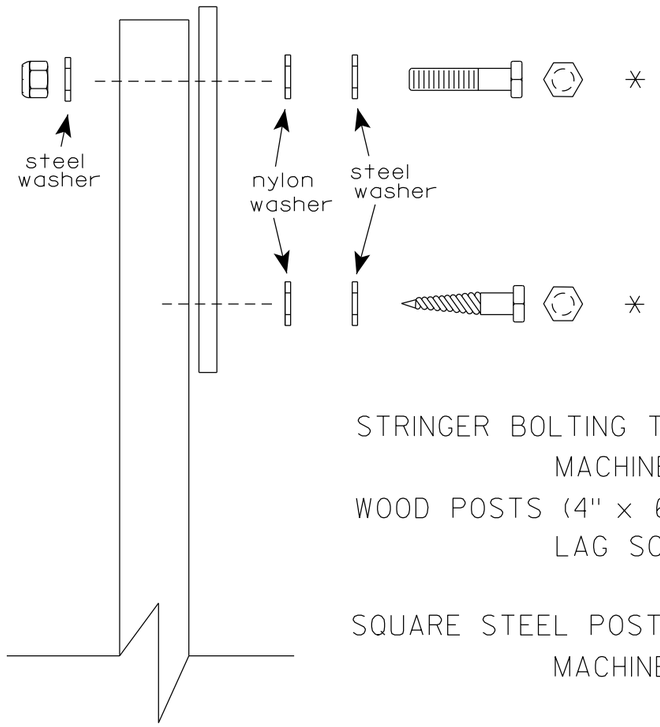
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E





Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

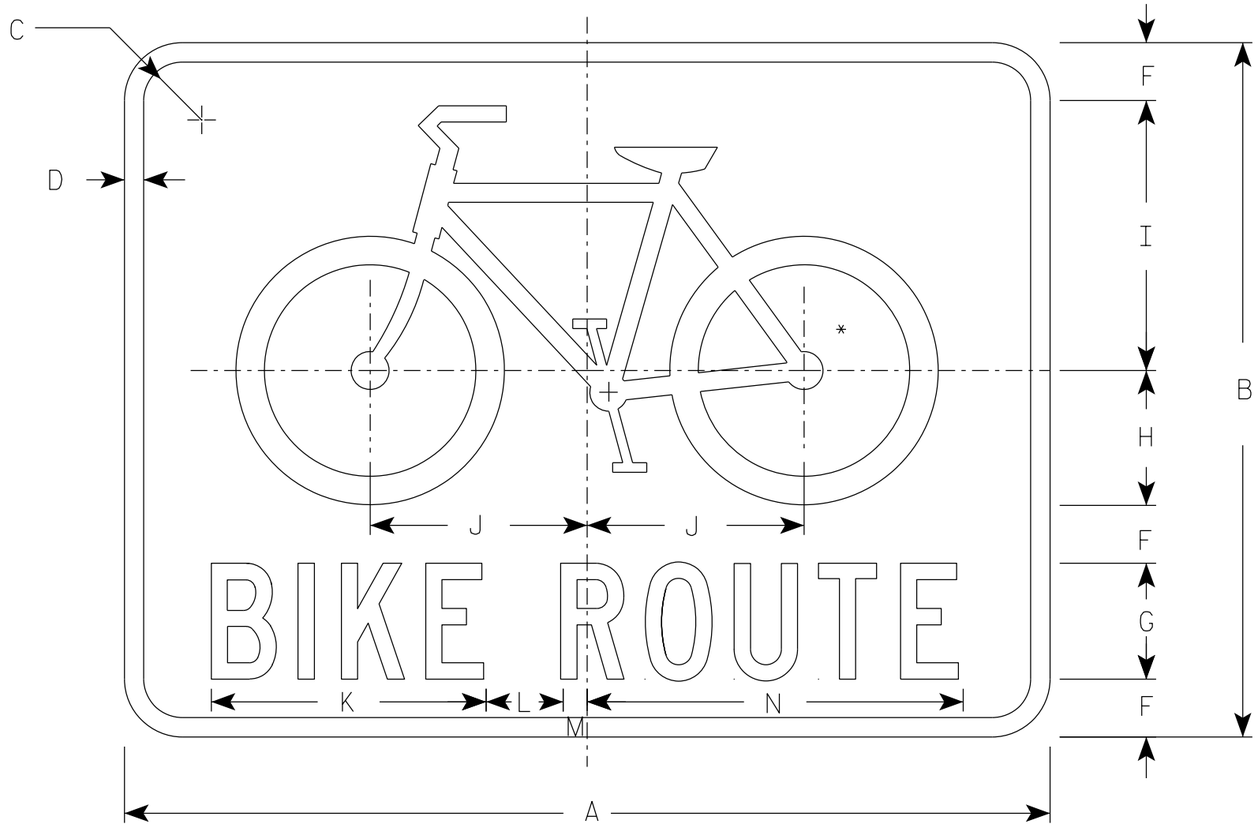
ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:				SHEET NO:	E



D11-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - C

* See W11-1 for symbol design

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	18	1 ½	½		1 ½	3	3 ½	7	5 ⅝	7 ⅛	2	⅝	9 ¾													3.0
2M	24	18	1 ½	½		1 ½	3	3 ½	7	5 ⅝	7 ⅛	2	⅝	9 ¾													3.0
3	30	24	1 ½	⅝		2	4	4 ¾	9 ¼	7 ½	9 ½	2 ⅝	⅞	13													5.0
4																											
5																											

STANDARD SIGN
D11-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

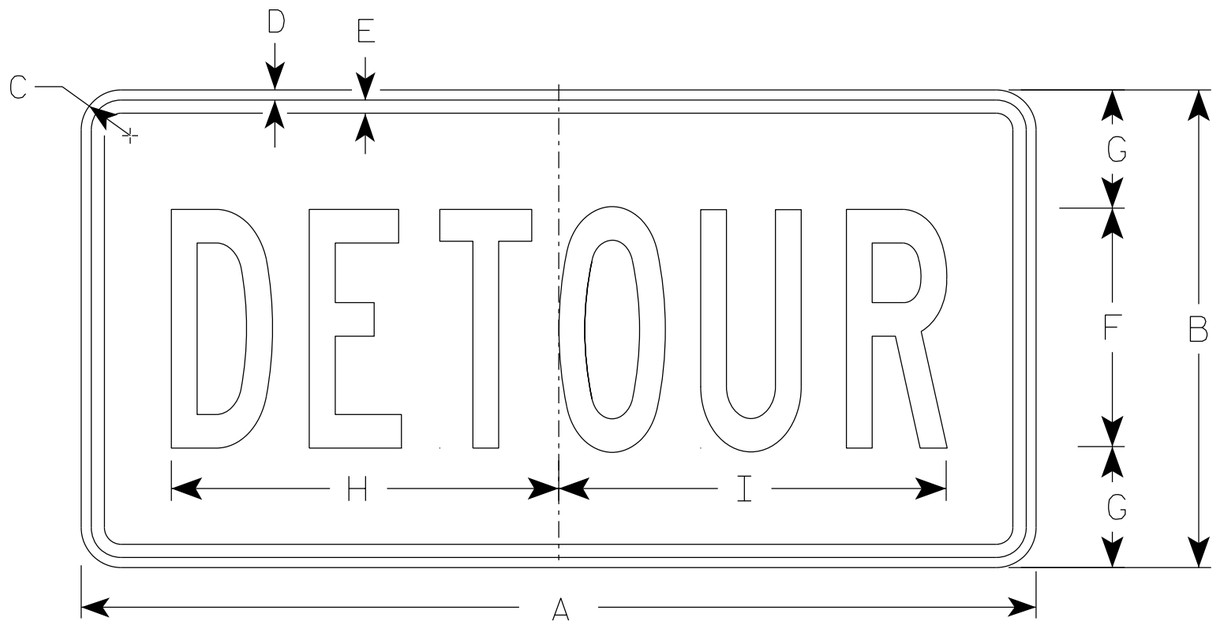
DATE 1/25/2023 PLATE NO. D11-1.3

PROJECT NO: | SHEET NO: E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\D111.dgn PLOT DATE : 25-MAR 2023 2:15 PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

7 7



M4-8

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5

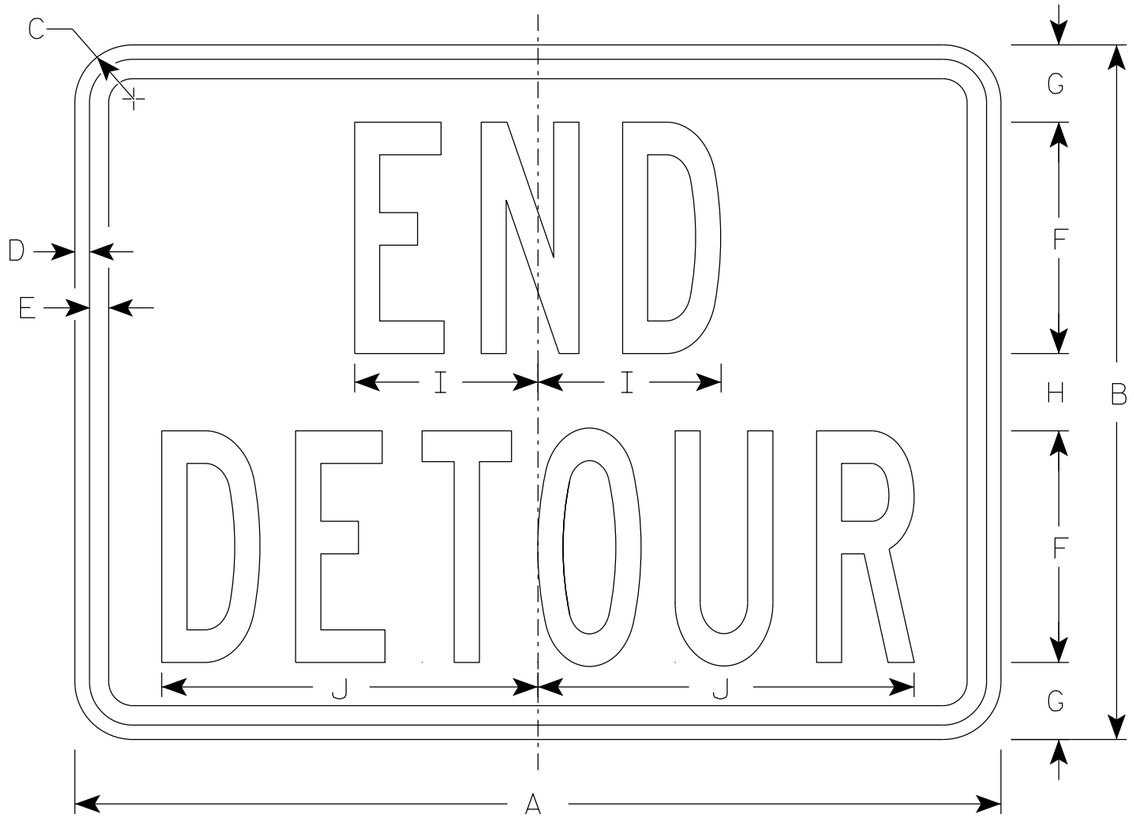
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
2M	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
3	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
4	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
5	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0

STANDARD SIGN
M4-8A

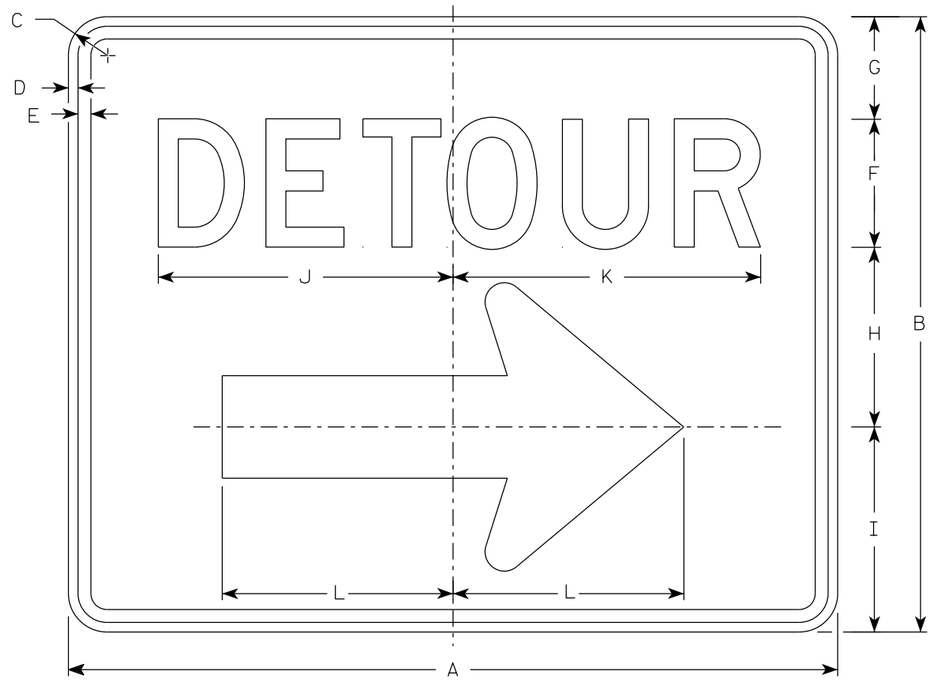
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

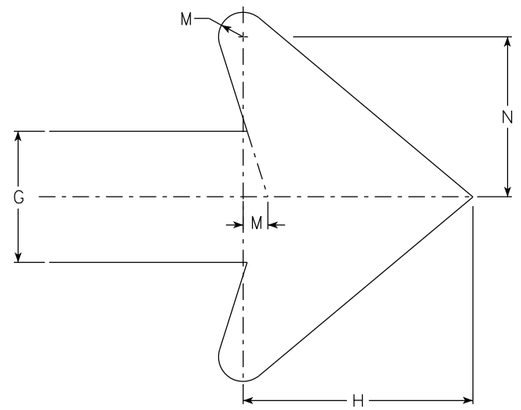
7



M4-9R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
2M	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

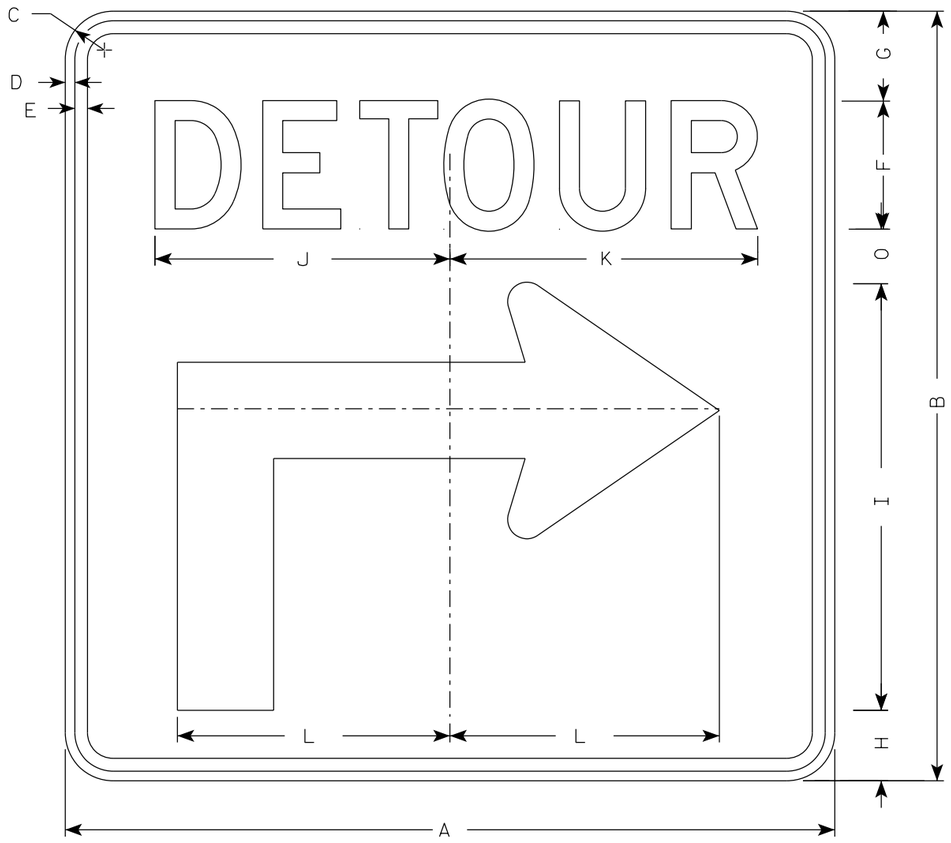
STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-9R.6

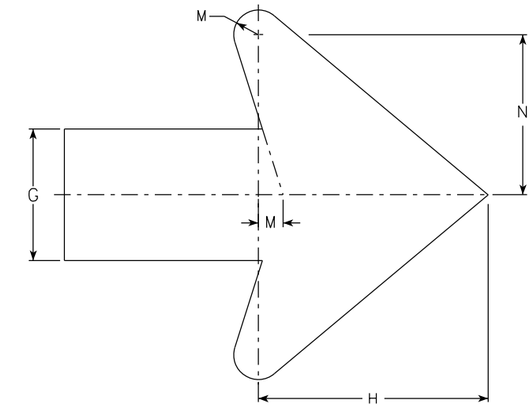
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



M4-59R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown when base material is metal.
5. M4-59L is the same as M4-59R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	30	1 7/8	3/8	1/2	5	3 1/2	2 3/4	16 5/8	11 1/2	12	10 1/2	3/4	4 7/8	2 1/8												6.25
2M	30	30	1 7/8	3/8	1/2	5	3 1/2	2 3/4	16 5/8	11 1/2	12	10 1/2	3/4	4 7/8	2 1/8												6.25
3	30	30	1 7/8	3/8	1/2	5	3 1/2	2 3/4	16 5/8	11 1/2	12	10 1/2	3/4	4 7/8	2 1/8												6.25
4	48	48	2 1/4	1/2	5/8	8	5 5/8	4 3/8	26 5/8	20 5/8	20 1/2	17	1 1/8	6 7/8	3 3/8												16.0
5	48	48	2 1/4	1/2	5/8	8	5 5/8	4 3/8	26 5/8	20 5/8	20 1/2	17	1 1/8	6 7/8	3 3/8												16.0

STANDARD SIGN
M4-59 L&R

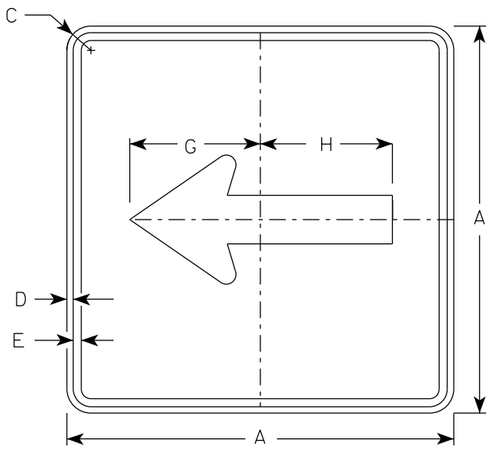
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

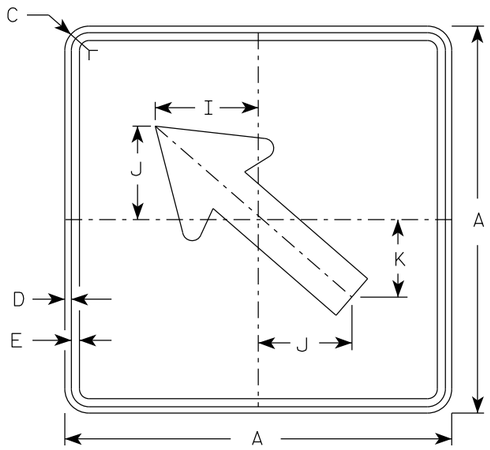
DATE 2/13/2023 PLATE NO. M4-59.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

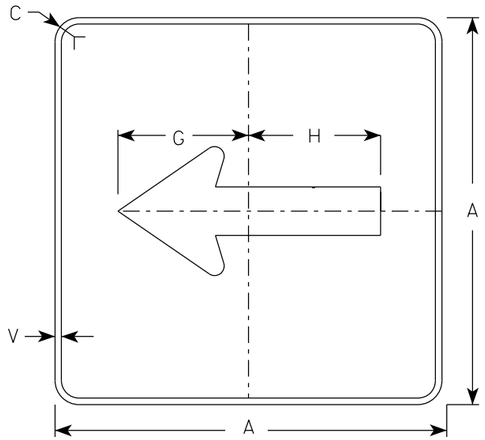
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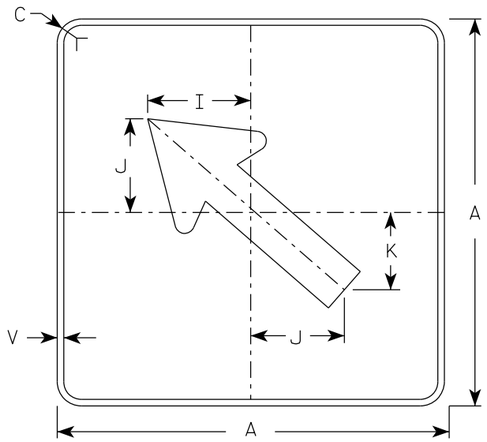
M6-1
MM6-1
MO6-1
MP6-1



M6-2
MM6-2
MO6-2
MP6-2



MB6-1
MK6-1
MN6-1
MR6-1

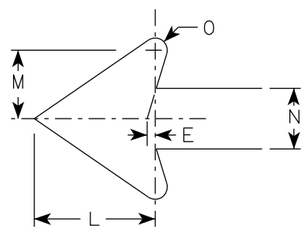


MB6-2
MK6-2
MN6-2
MR6-2

NOTES

1. Signs are Type II - Type H Reflective except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

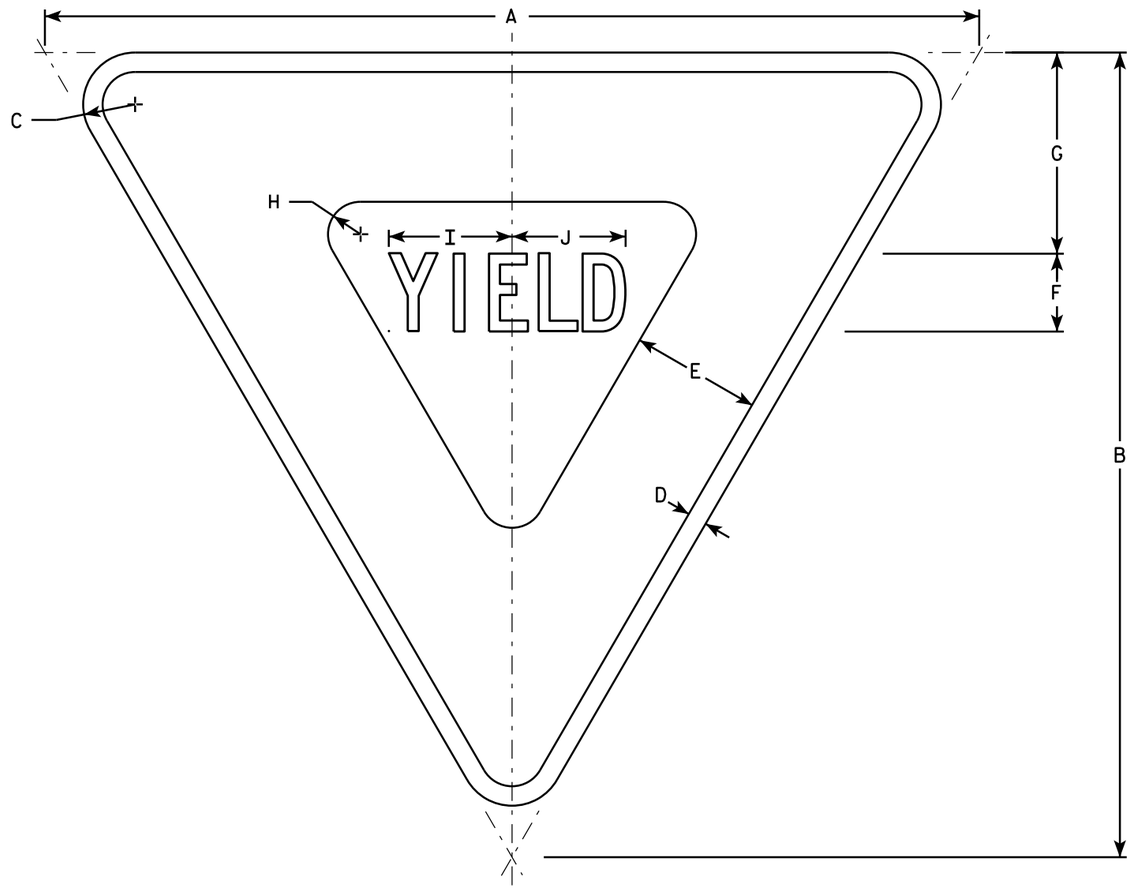
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

7



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

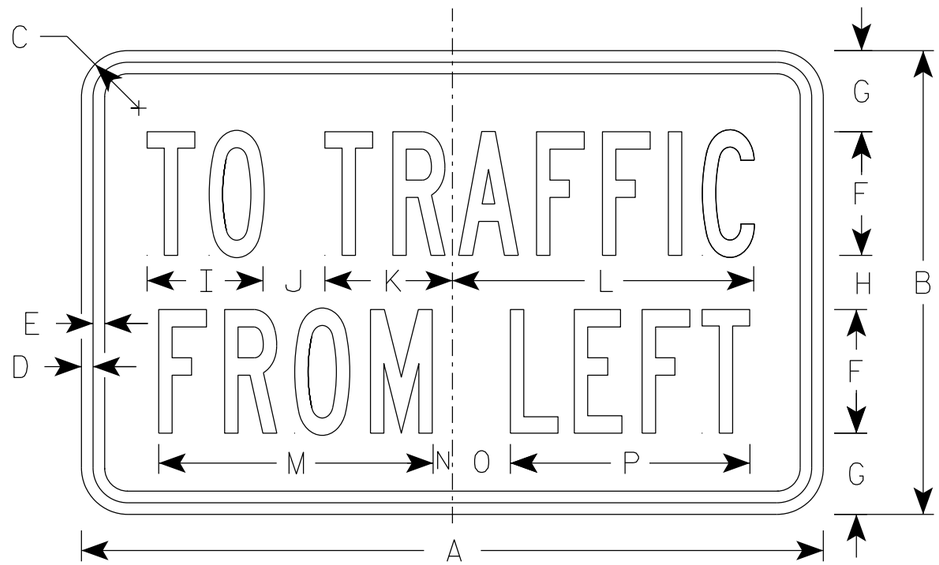
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE NO. R1-2.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - B



R1-54

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	15	1 1/2	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
2M	24	15	1 1/2	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
3																											
4																											
5																											

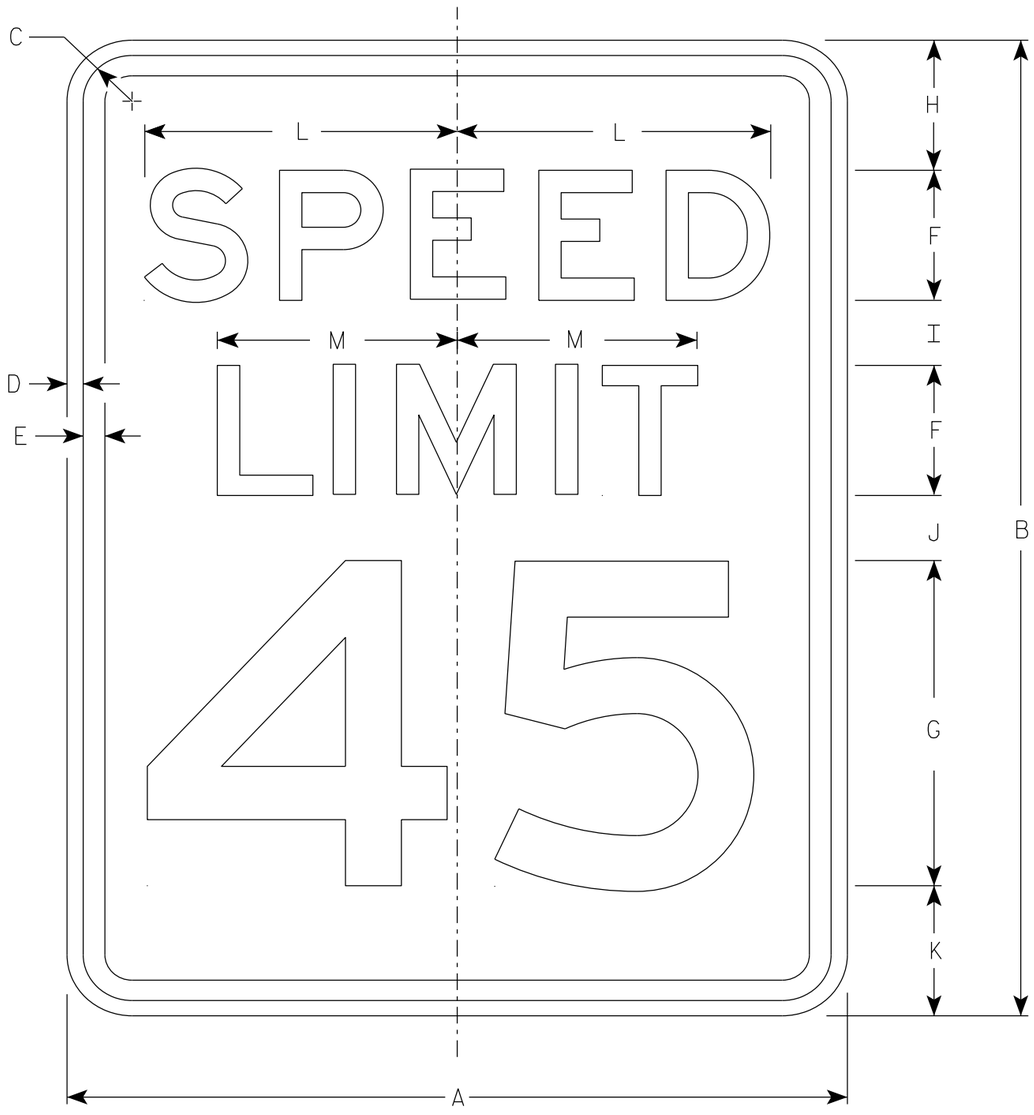
STANDARD SIGN
R1-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/26/24 PLATE NO. R1-54.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



R2-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/2	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/2	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 7/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	3	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

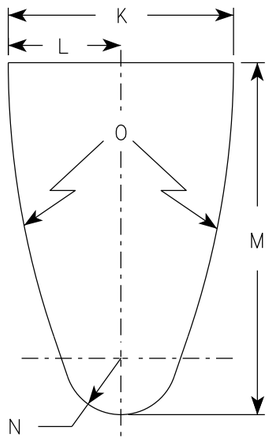
DATE 2/1/23 PLATE NO. R2-1.14

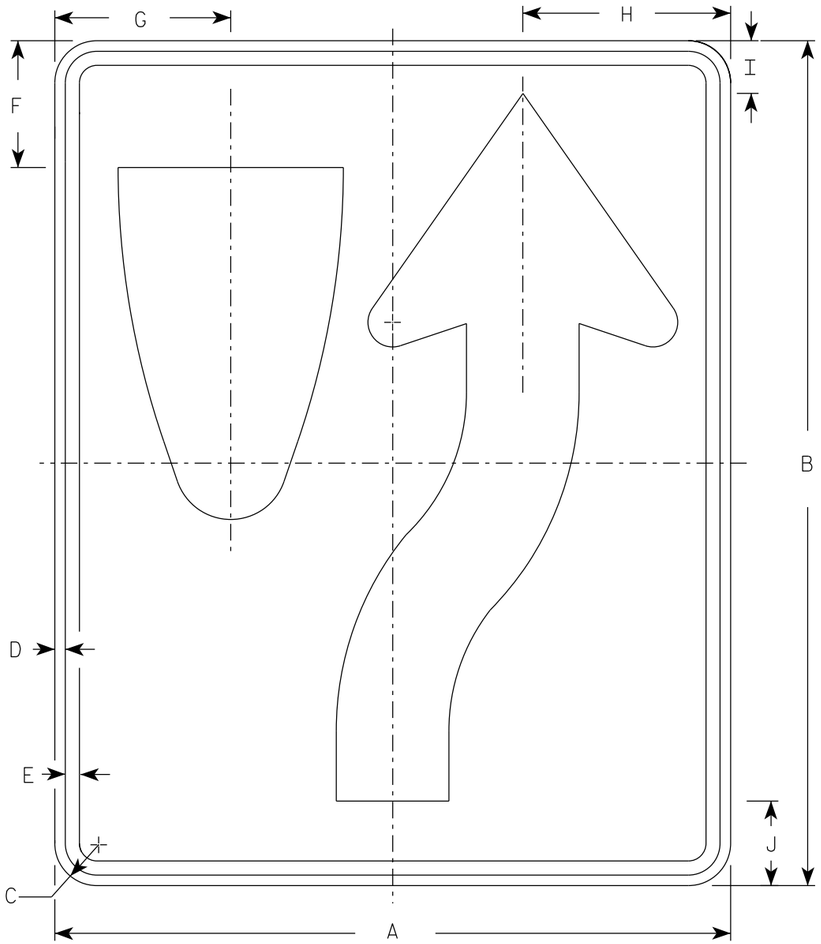
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. R4-8 is the same as R4-7 except Legend is reversed.

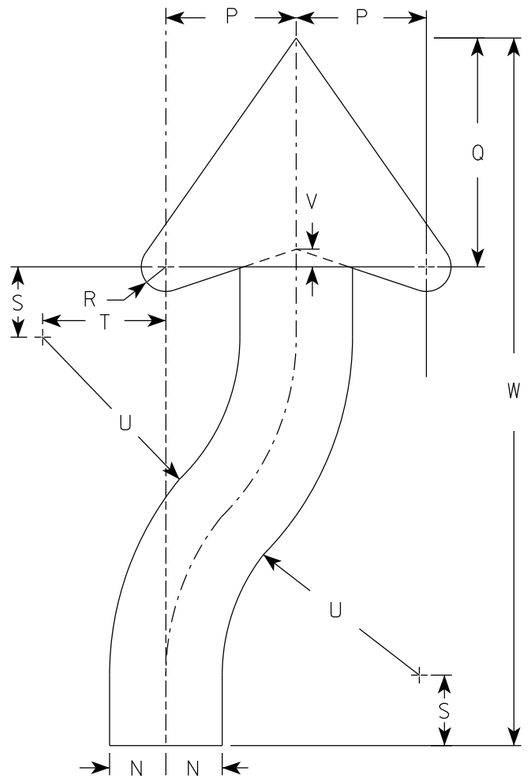
DIVIDER DETAIL





R4-7

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/2	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/2	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/2	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 7/8	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 7/8	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	3	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

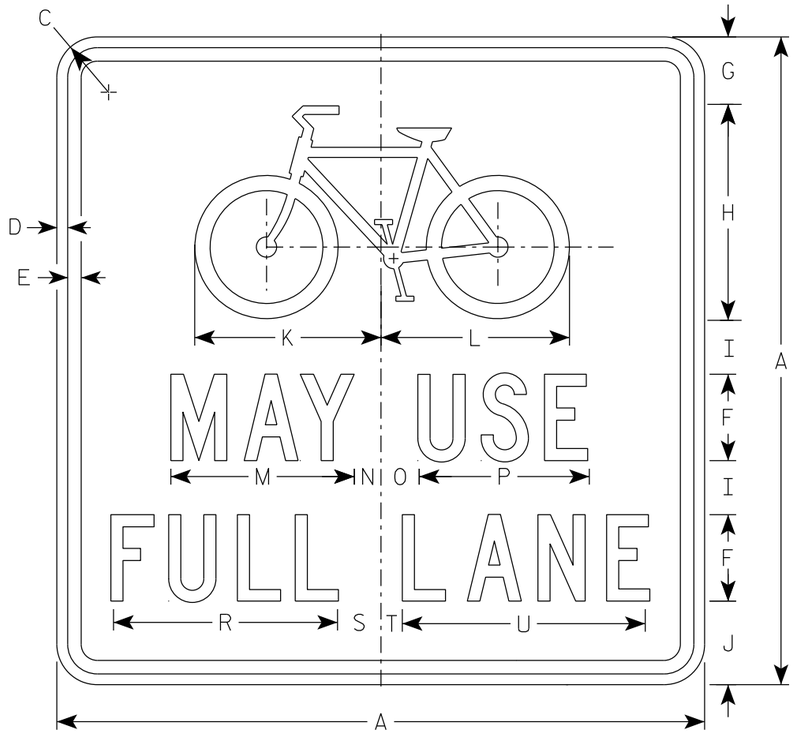
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/17/23 PLATE NO. R4-7.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C



R4-11

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8	1/2	5/8	4	3 1/8	10	2 1/2	3 7/8	8 5/8	8 3/4	8 1/2	1 1/4	1 3/4	7 7/8		10 3/8	2	1	11 1/4						6.25
2M	30		1 7/8	1/2	5/8	4	3 1/8	10	2 1/2	3 7/8	8 5/8	8 3/4	8 1/2	1 1/4	1 3/4	7 7/8		10 3/8	2	1	11 1/4						6.25
3																											
4																											
5																											

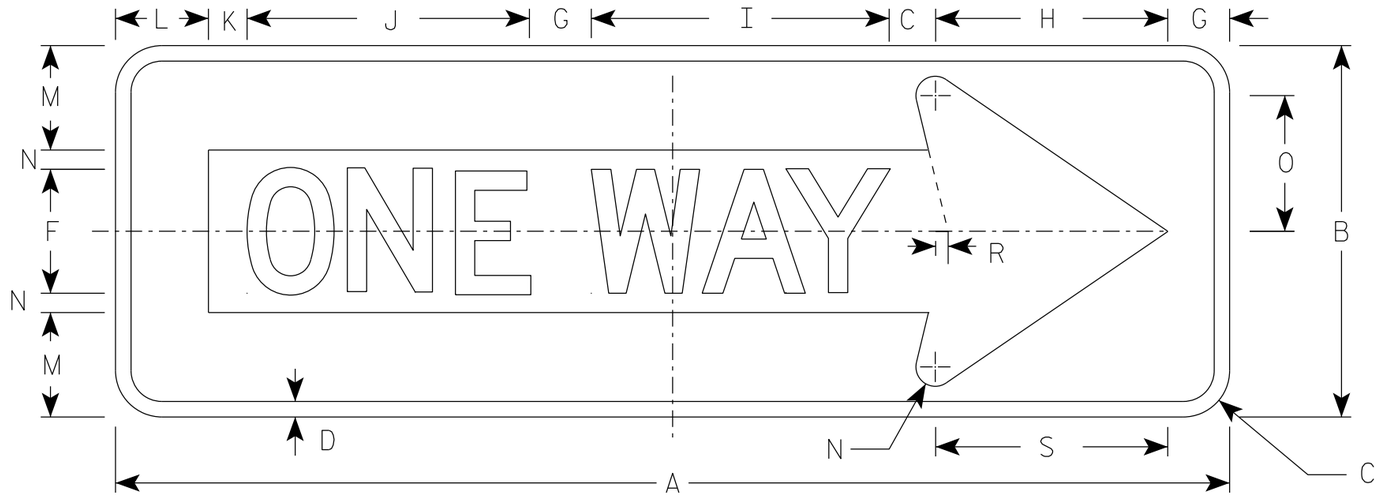
STANDARD SIGN
R4-11

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/17/23 PLATE NO. R4-11.2

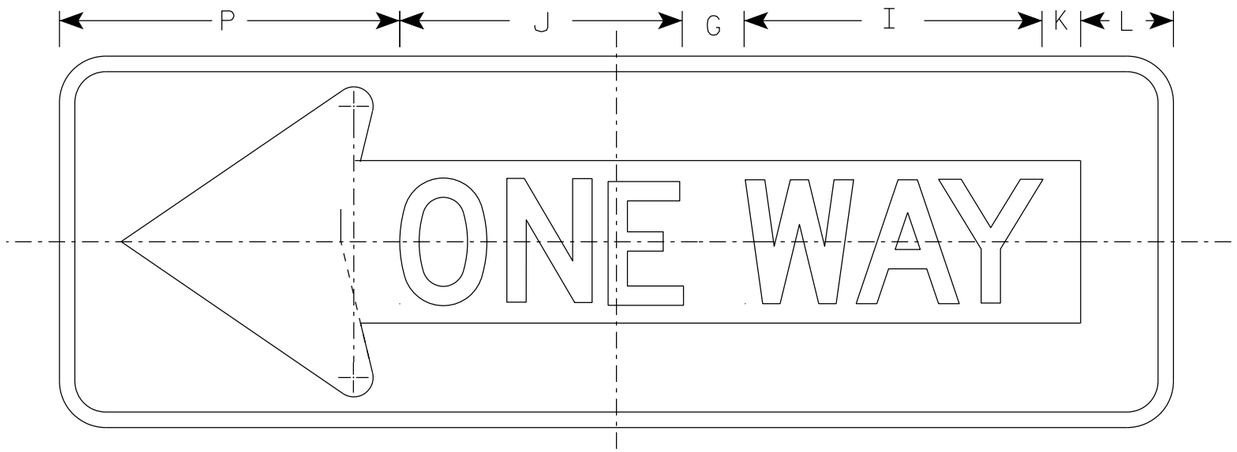
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Black
   Message - Black Legend & White Arrow & Border
3. Message Series - D



R6-1L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	12	1 ½	½		4	2	7 ½	9 ⅝	9 ⅛	1 ¼	3	3 ⅜	⅝	4 ⅜	11		⅜	7 ½								3.0
2M	54	18	1 ½	¾		6	3	11 ¼	13 ⅝	14 ½	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
3	54	18	1 ½	¾		6	3	11 ¼	13 ⅝	14 ½	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
4	54	18	1 ½	¾		6	3	11 ¼	13 ⅝	14 ½	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
5																											

STANDARD SIGN
R6-1 L&R

WISCONSIN DEPT OF TRANSPORTATION

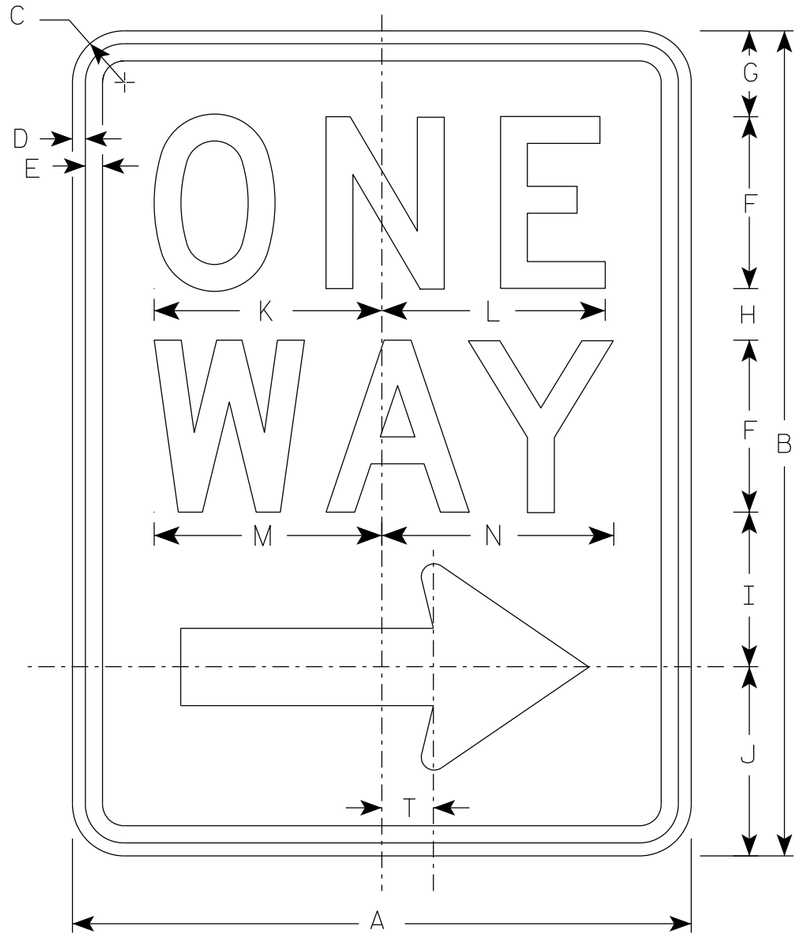
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/30/23 PLATE NO. R6-1.4

PROJECT NO: | SHEET NO: E

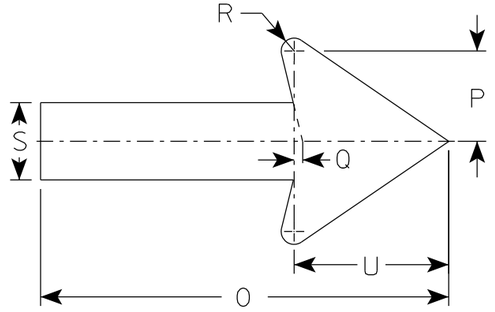
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. R6-2L same as R6-2R except arrow points to the left.



R6-2R

Arrow Detail



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/2	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	1 1/2	1 1/2	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 7/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

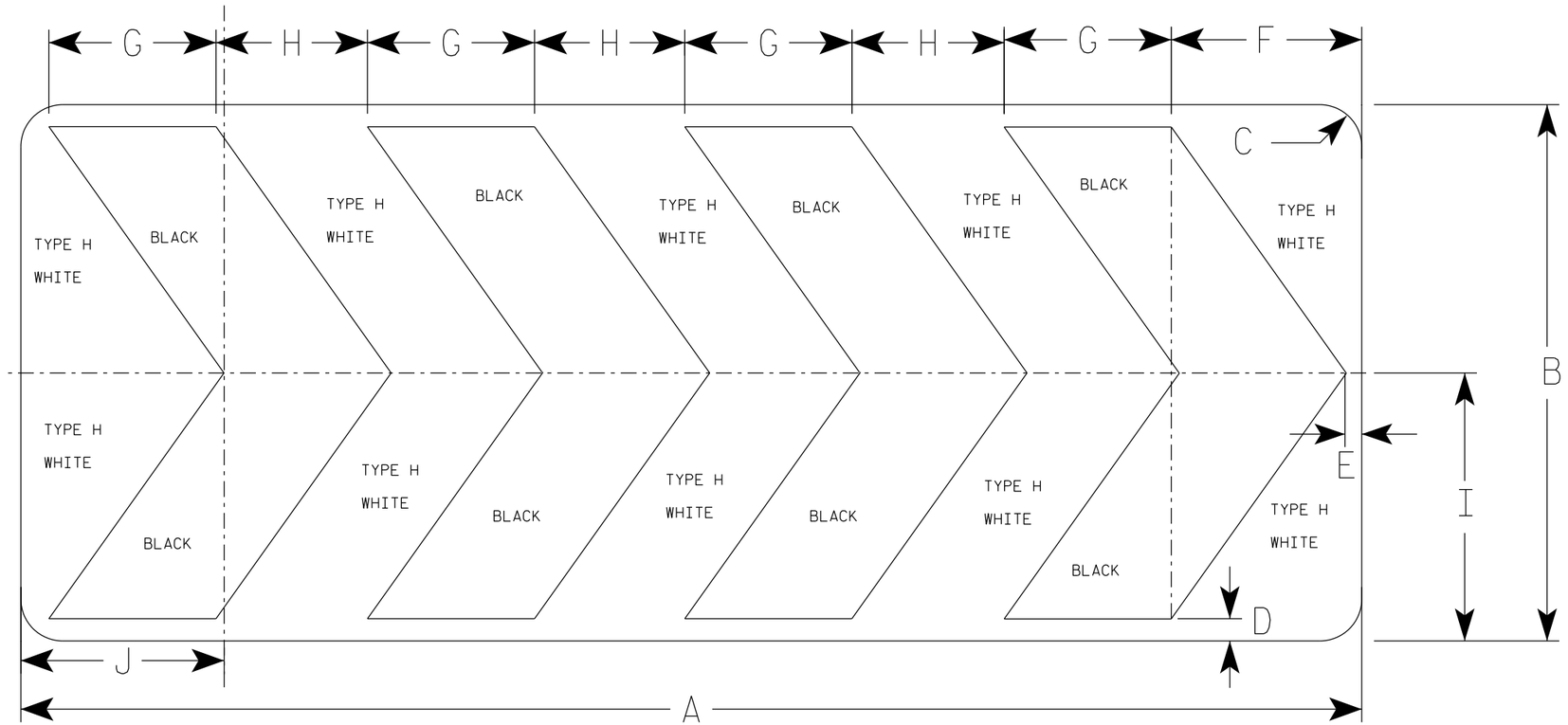
DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

7

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - WHITE
   Message - BLACK



R6-4B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
2M	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
3																											
4																											
5																											

STANDARD SIGN
R6-4B

WISCONSIN DEPT OF TRANSPORTATION

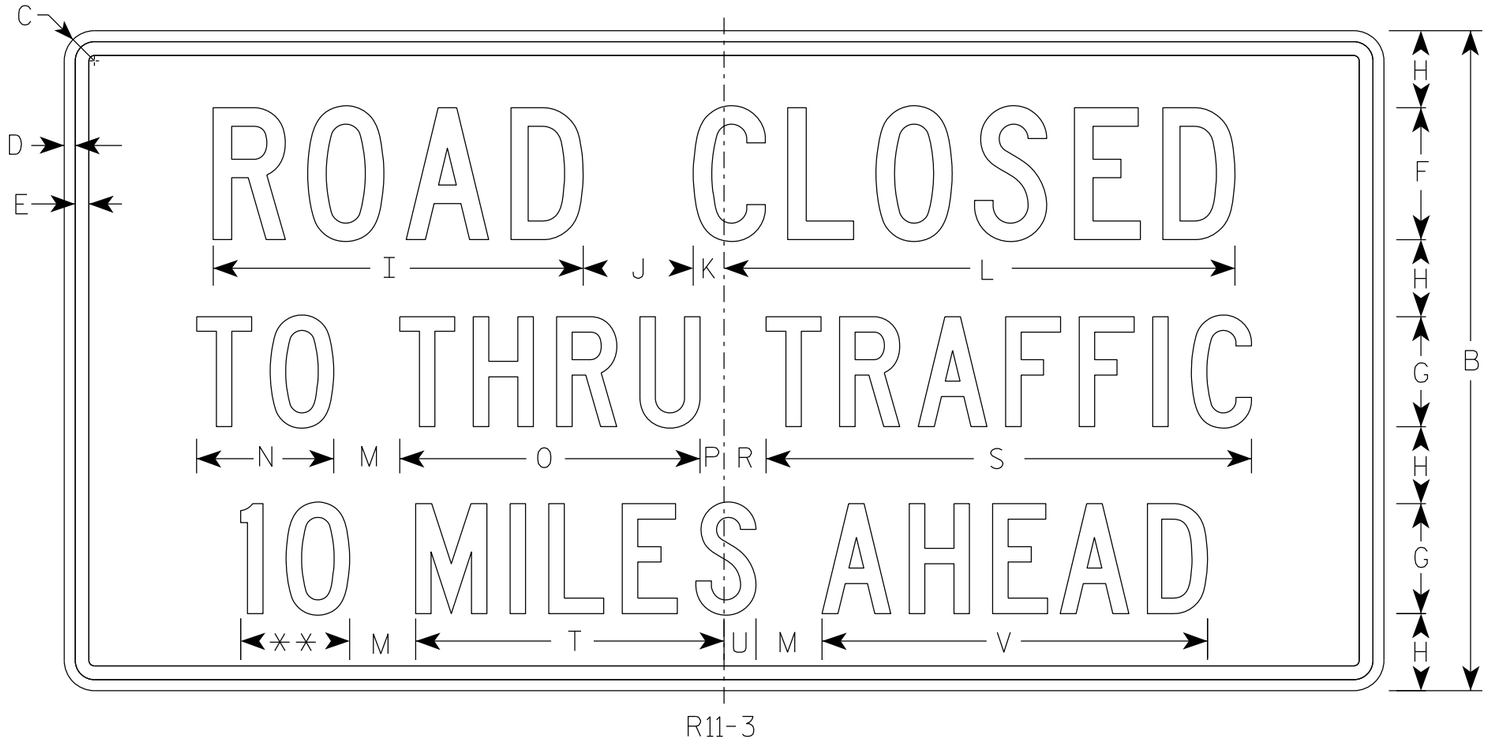
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/26/23 PLATE NO. R6-4.4

PROJECT NO: | SHEET NO: E

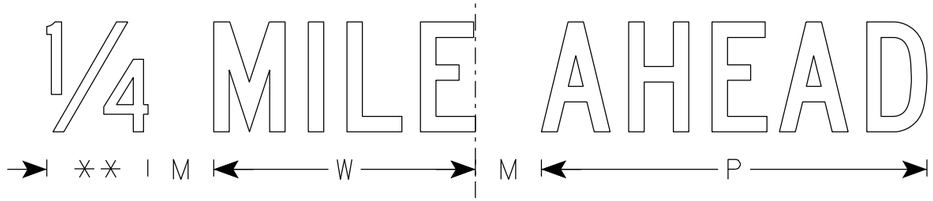
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/2	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
2S	60	30	1 7/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
2M	60	30	1 7/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
3																											
4																											
5																											

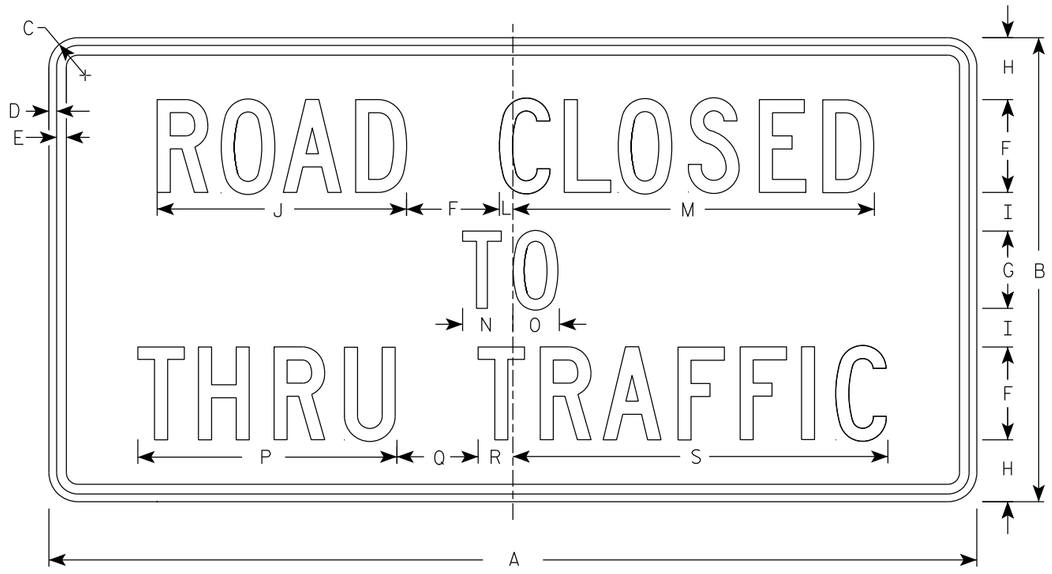
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-3.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



R11-4

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

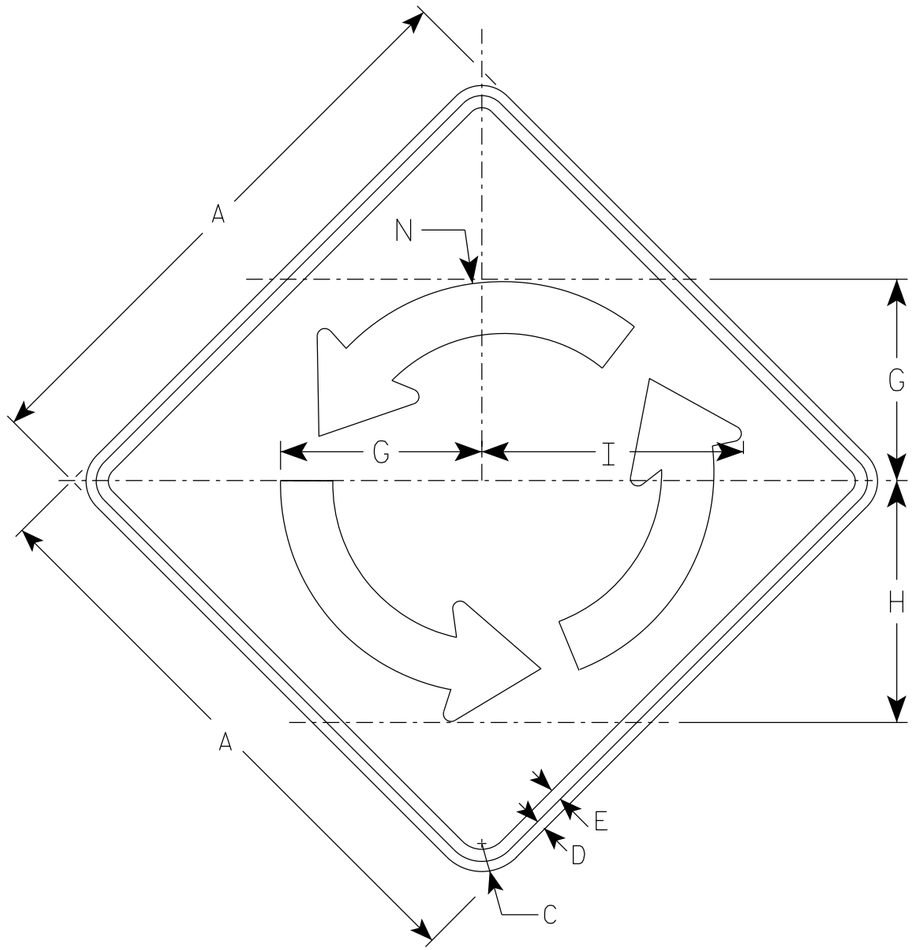
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-4.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

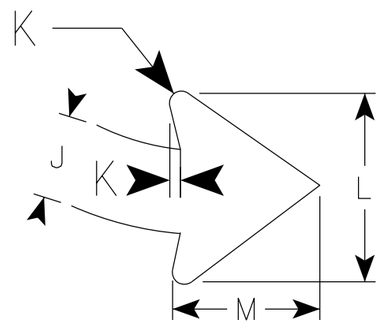


W2-6

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black

Arrow Detail



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Area sq. ft.
1																									
2S	30		1 7/8	1/2	5/8		10 3/8	12 1/2	13 1/2	2 3/4	3/8	6	4 3/4	11 1/8											6.25
2M	30		1 7/8	1/2	5/8		10 3/8	12 1/2	13 1/2	2 3/4	3/8	6	4 3/4	11 1/8											6.25
3	36		2 1/4	5/8	3/4		12 1/2	15	16 1/4	3 1/4	1/2	7 3/8	5 3/4	13 3/8											9.00
4	48		3	3/4	1		16 5/8	20	16 1/4	4 3/8	5/8	9 3/4	7 5/8	17 7/8											16.0
5																									

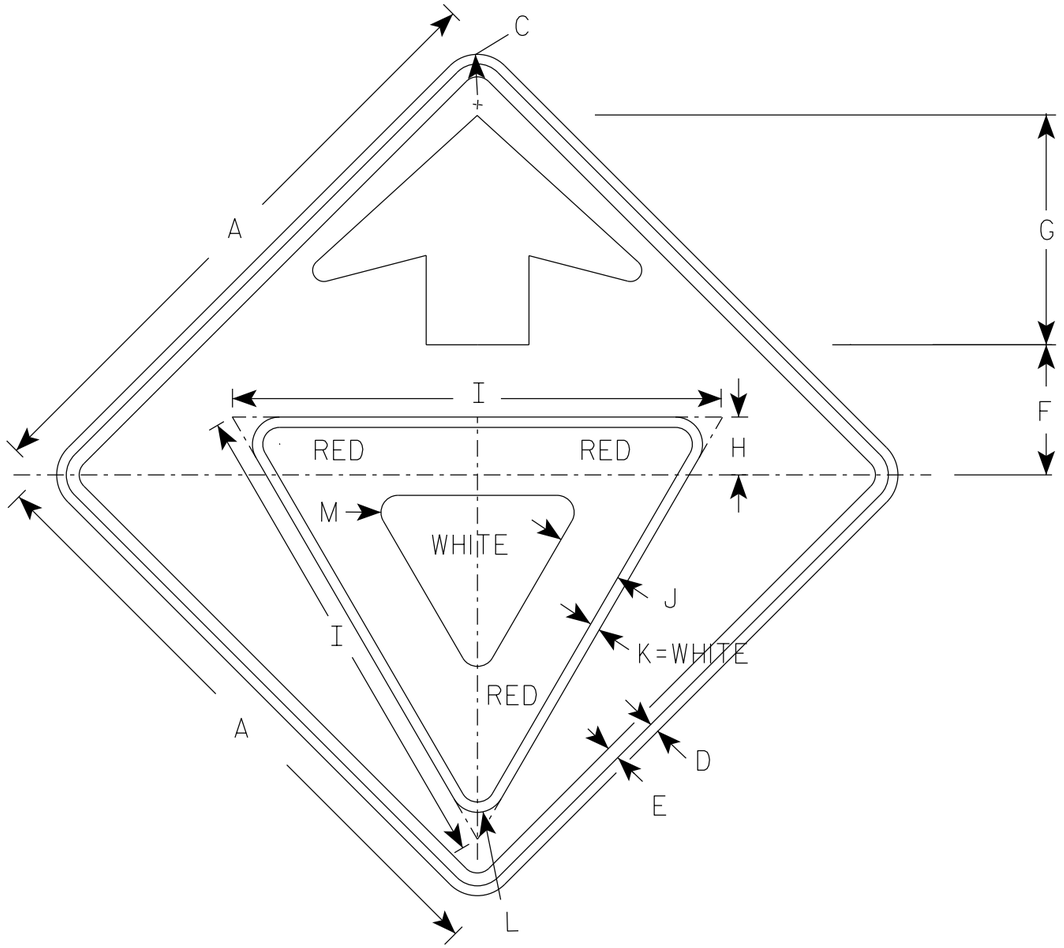
STANDARD SIGN
W2-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/17/2023 PLATE NO. W2-6.8

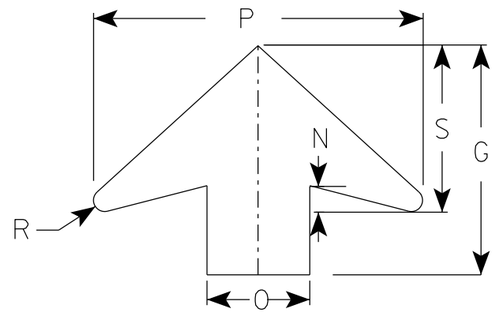
PROJECT NO: | SHEET NO: E



W3-2

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Arrow & Border - Black
   Yield Symbol - White Border on Red Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 7/8	1/2	5/8	6 1/4	11 1/4	3	25	3 3/8	1/2	1 3/8	7/8	1 1/4	5	16		1/2	8								6.25
2S	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2M	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
3	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
4	48		3	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		3	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W3-2

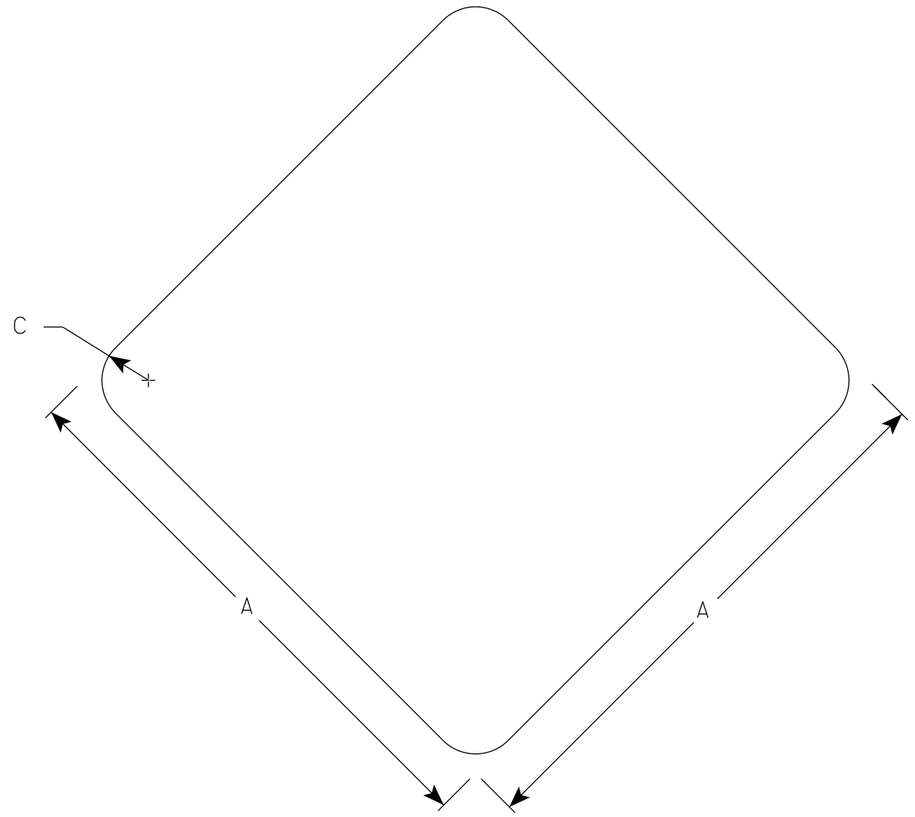
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/17/2023 PLATE NO. W3-2.10

PROJECT NO:

SHEET NO: E



W5-54

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12		1 ½																								1.0
2S	18		1 ½																								2.25
2M	18		1 ½																								2.25
3																											
4																											
5																											

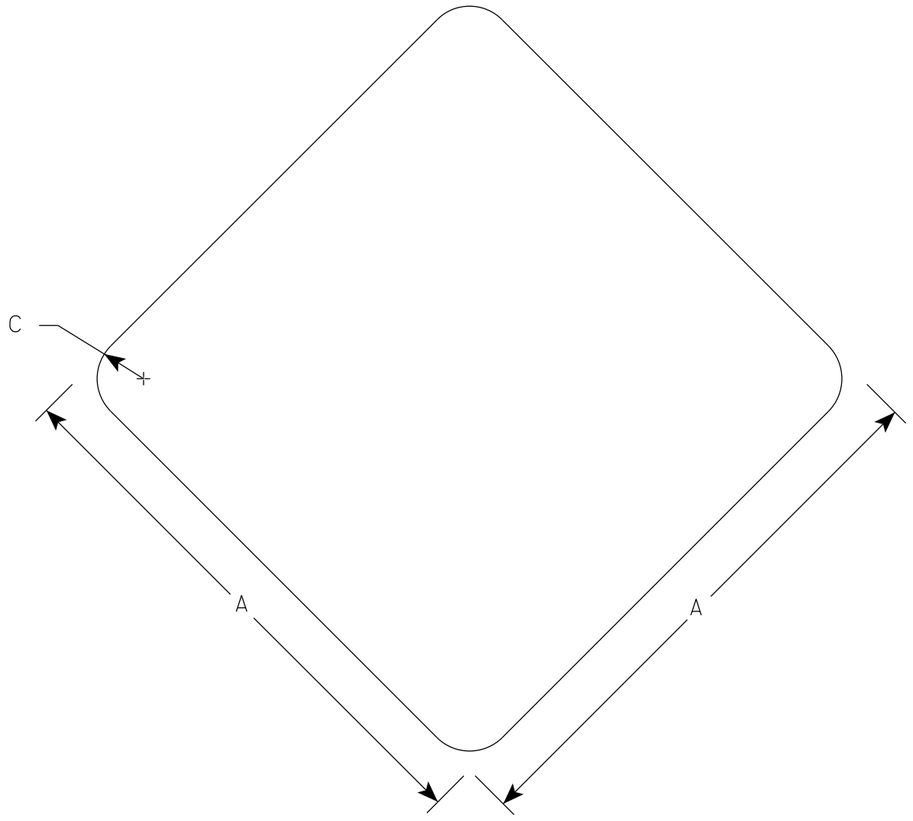
STANDARD SIGN
W5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/5/2024 PLATE NO. W5-54.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W5-56

NOTES

1. Sign is Type II - Type SH Reflective
2. Color:
   Background - Red

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12		1 ½																								1.0
2S	18		1 ½																								2.25
2M	18		1 ½																								2.25
3																											
4																											
5																											

STANDARD SIGN

W5-56

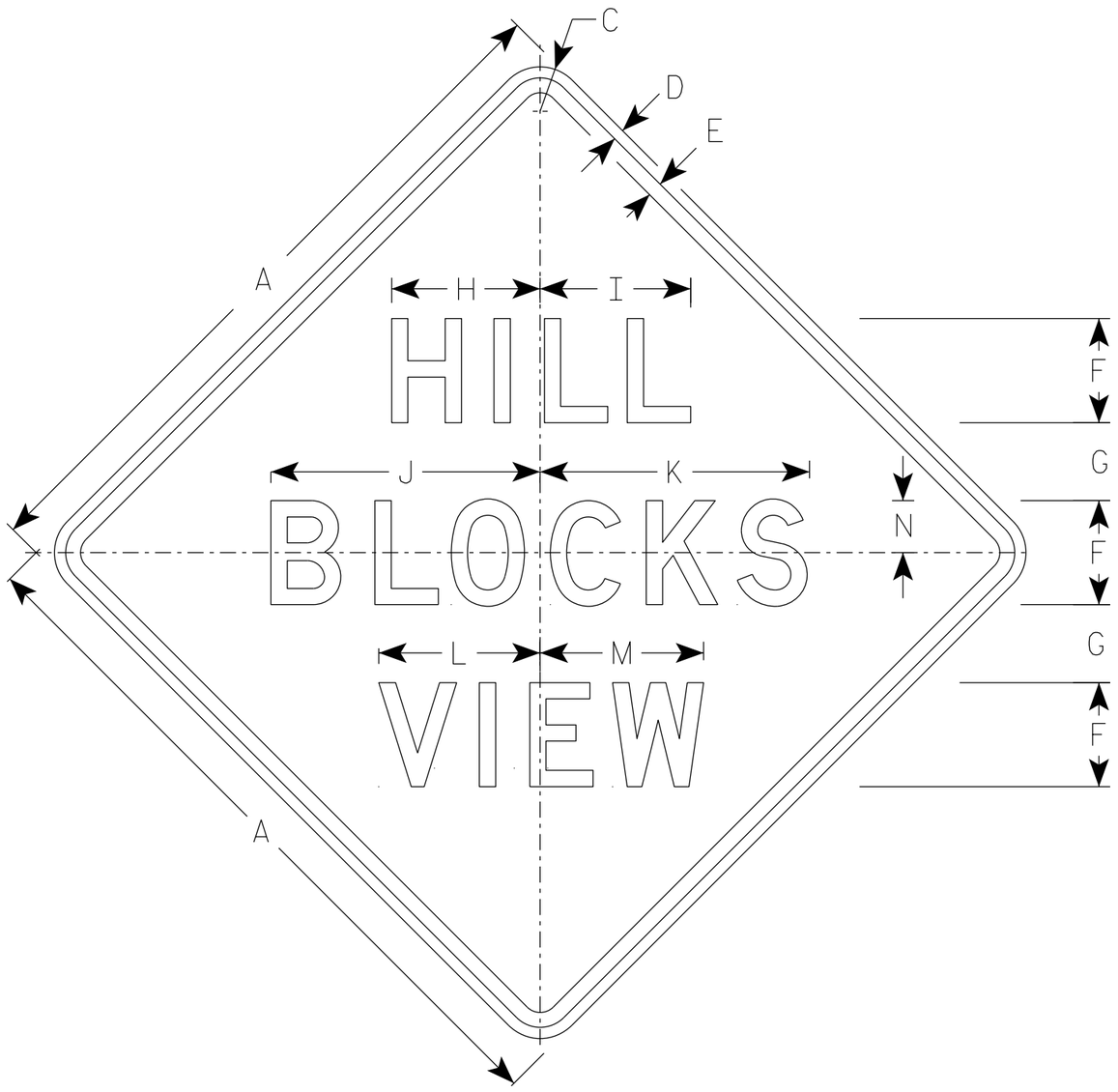
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 3/5/2024 PLATE NO. W5-56.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

7



W7-6

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - YELLOW
   Message - BLACK
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8	1/2	5/8	5	3 3/4	6	8 3/8	12 7/8	13	7 7/8	7 3/4	2 1/2													6.25
2M	36		2 1/4	5/8	3/4	6	4 1/2	7 3/4	10 3/4	16	16 1/8	9 7/8	9 7/8	3													9.0
3	36		2 1/4	5/8	3/4	6	4 1/2	7 3/4	10 3/4	16	16 1/8	9 7/8	9 7/8	3													9.0
4	36		2 1/4	5/8	3/4	6	4 1/2	7 3/4	10 3/4	16	16 1/8	9 7/8	9 7/8	3													9.0
5	48		3	3/4	1	7	5 1/4	10	10 1/8	18 1/8	18 1/8	10 7/8	11	3 1/2													16.0

STANDARD SIGN
W7-6

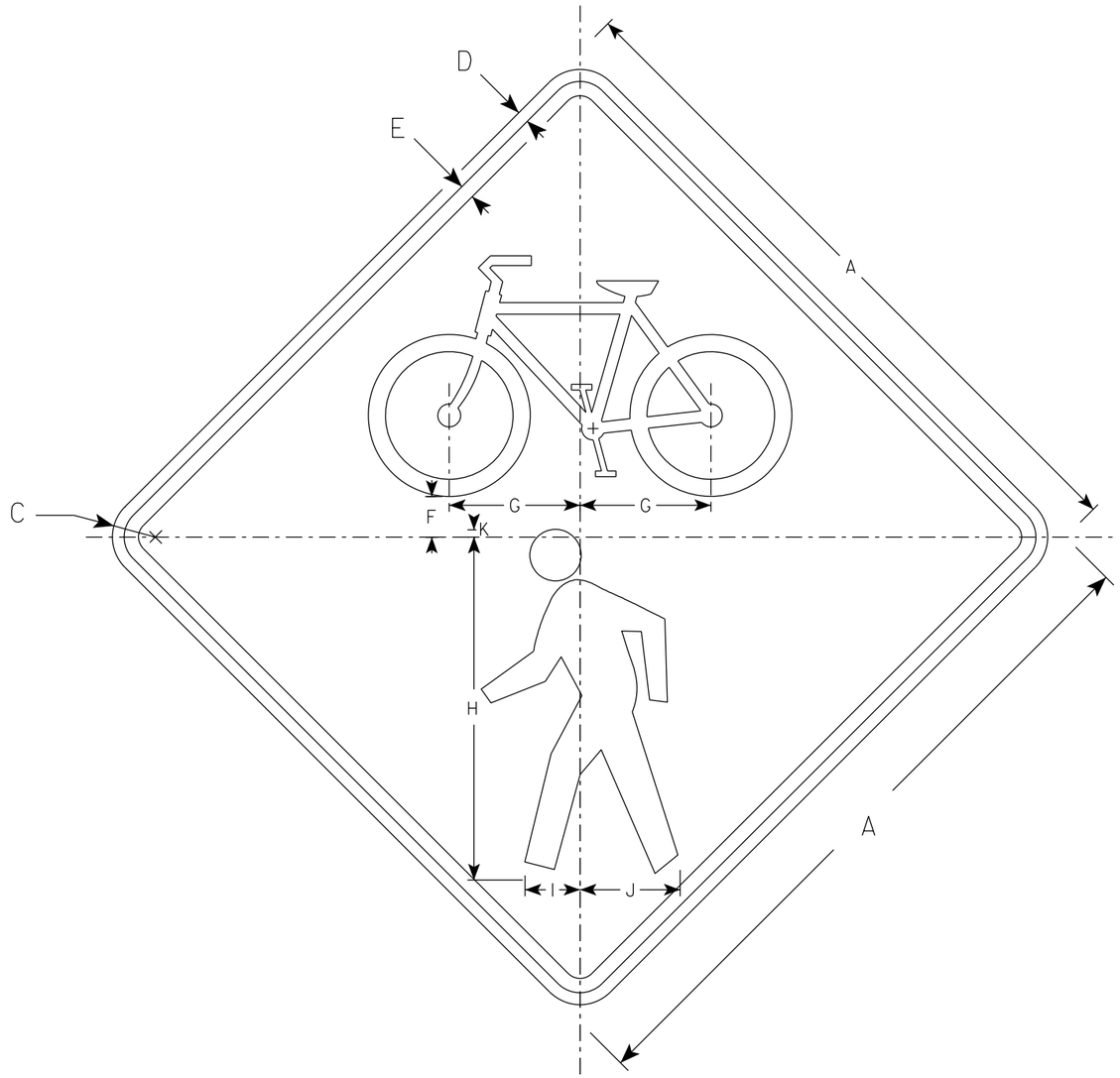
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/24/2023 PLATE NO. W7-6.4

PROJECT NO:

SHEET NO: E



W11-15

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/2	3/8	1/2	1 3/8	4 5/8	12	1 7/8	3 1/2	1/4																4.0
2S	30		1 7/8	1/2	5/8	1 3/4	5 3/4	15	2 3/8	4 3/8	3/8																6.25
2M	36		2 1/4	5/8	3/4	2 1/8	6 7/8	18	2 7/8	5 1/4	3/8																9.0
3	36		2 1/4	5/8	3/4	2 1/8	6 7/8	18	2 7/8	5 1/4	3/8																9.0
4	48		3	3/4	1	2 7/8	9 1/8	24	3 7/8	7	1/2																16.0
5																											

STANDARD SIGN
W11-15

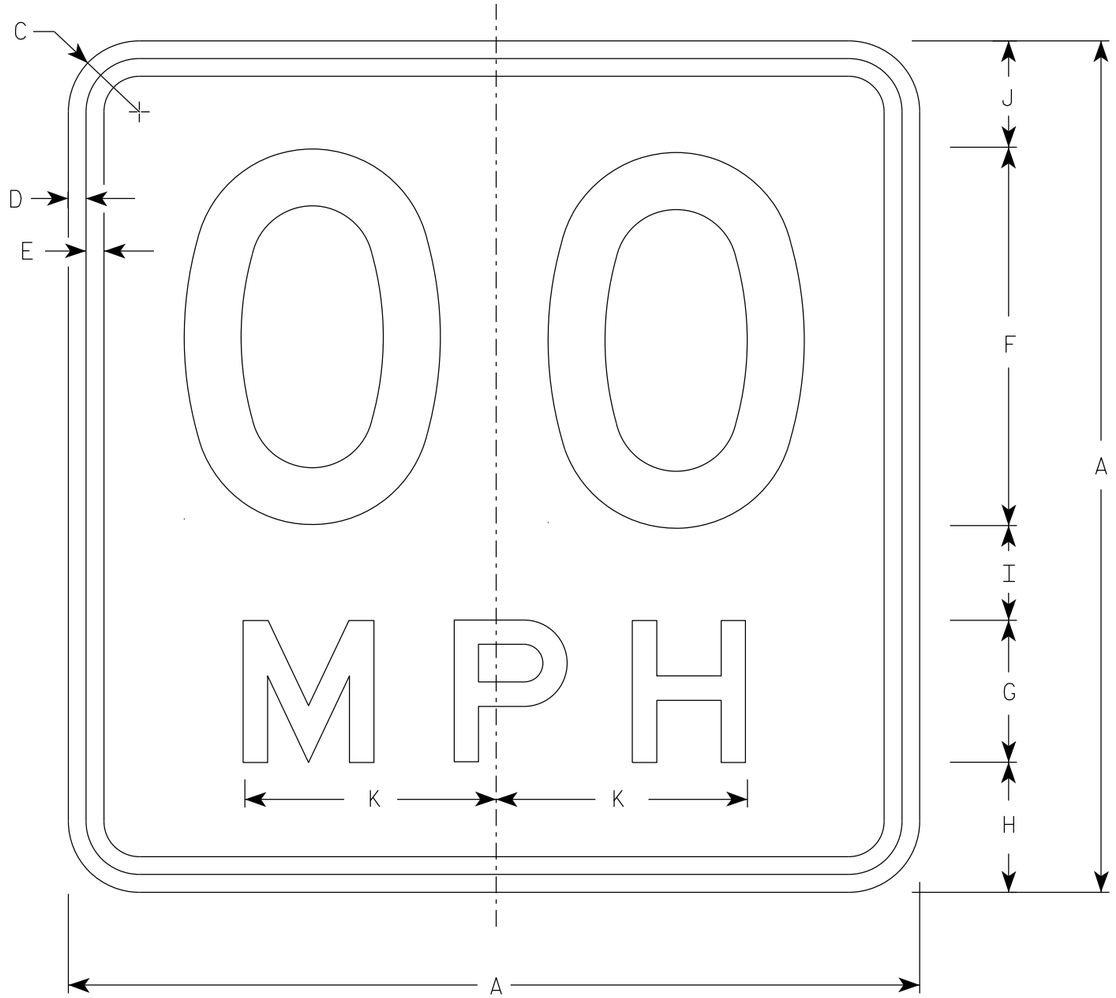
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/21/2023 PLATE NO. W11-15.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

7



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 5
4. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
5. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/2	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

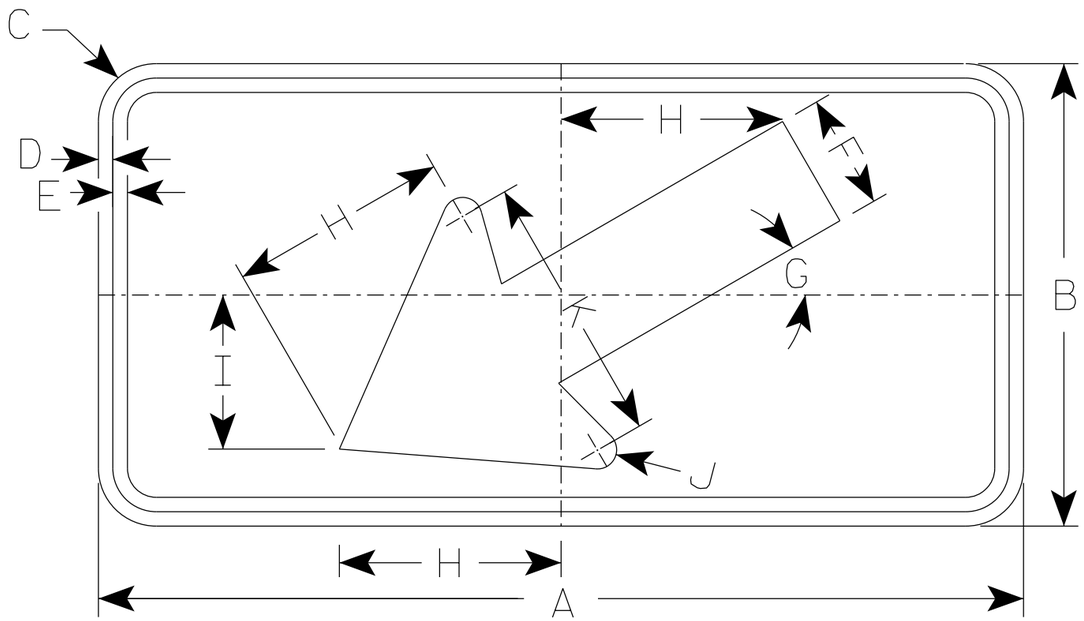
DATE 1/8/2024 PLATE NO. W13-1.17

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

7

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W16-7R is the same as W16-7L except the arrow is reversed along the vertical centerline.



W16-7L

* For 36" x 36" Warning Signs, use 30" x 18" W16-7L signs.
* For 48" x 48" Warning Signs, use 48" x 24" W16-7L signs.

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1																											
	2S	24	12	1 ½	⅜	⅜	3	30°	5 ¾	4	½	7																2.0
*	2M	30	18	1 ½	⅜	½	4 ½	30°	8 ½	6	⅝	10 ¼																3.75
*	3	30	18	1 ½	⅜	½	4 ½	30°	8 ½	6	⅝	10 ¼																3.75
*	4	48	24	1 ⅞	½	⅝	6	30°	11 ½	8	1	14																8.0
	5																											

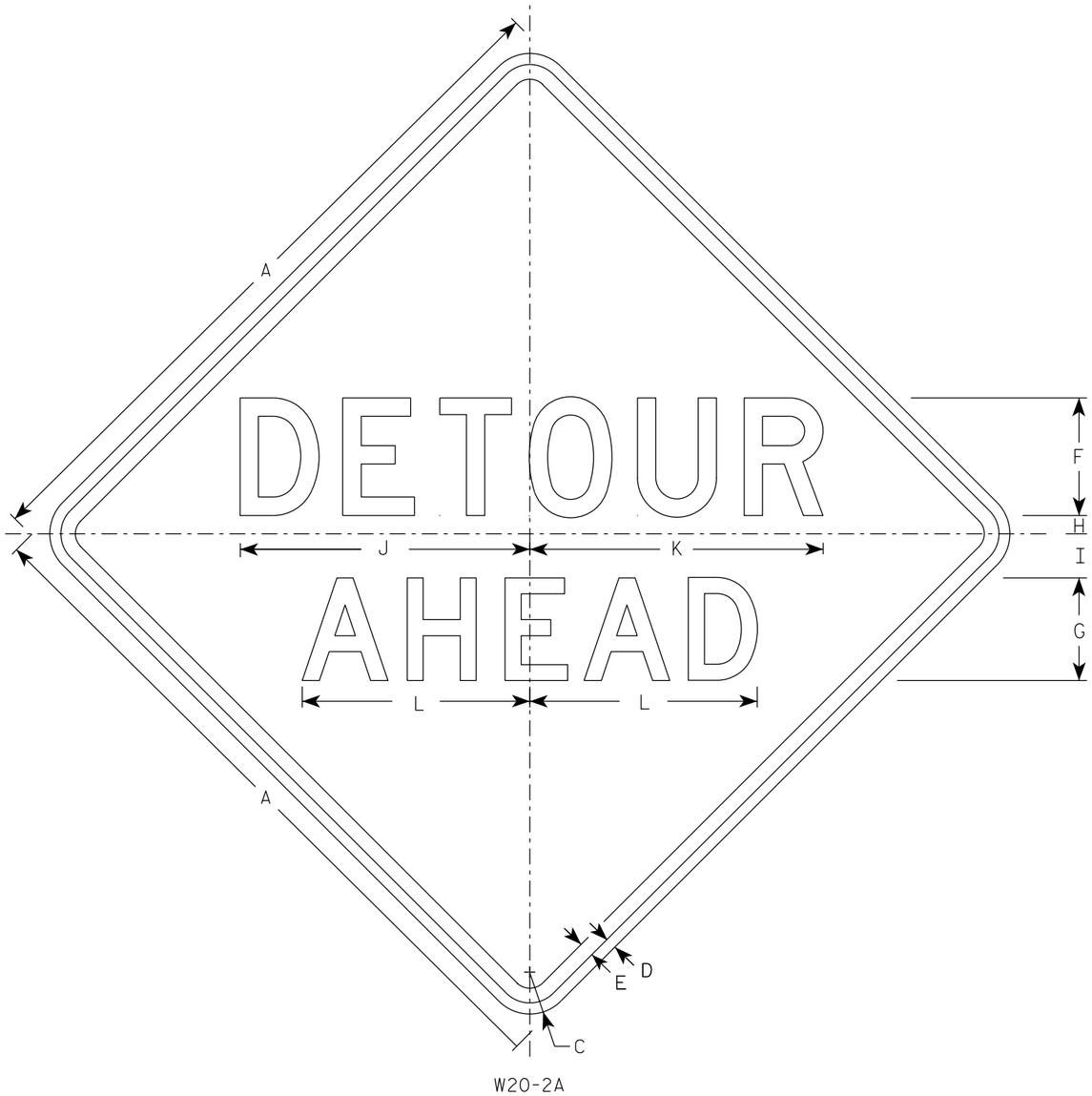
STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

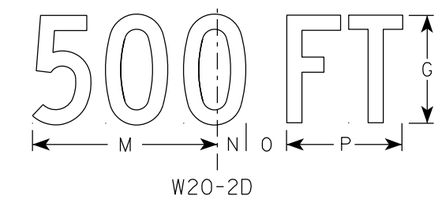
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/9/2024 PLATE NO. W16-7.9

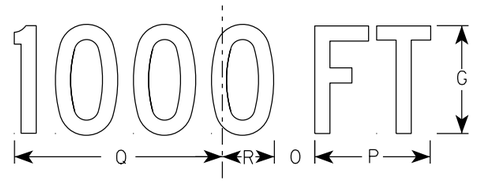
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



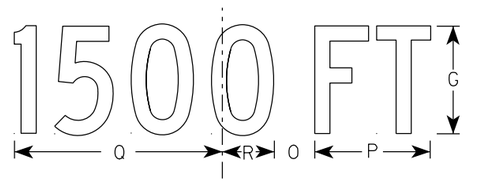
W20-2A



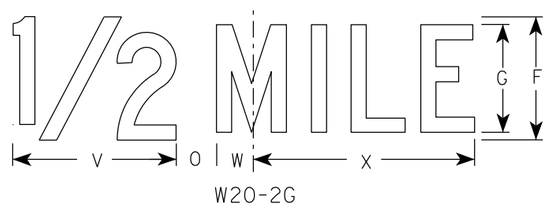
W20-2D



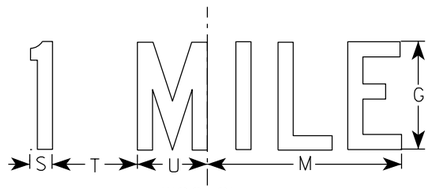
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A,B,C,D,F & G

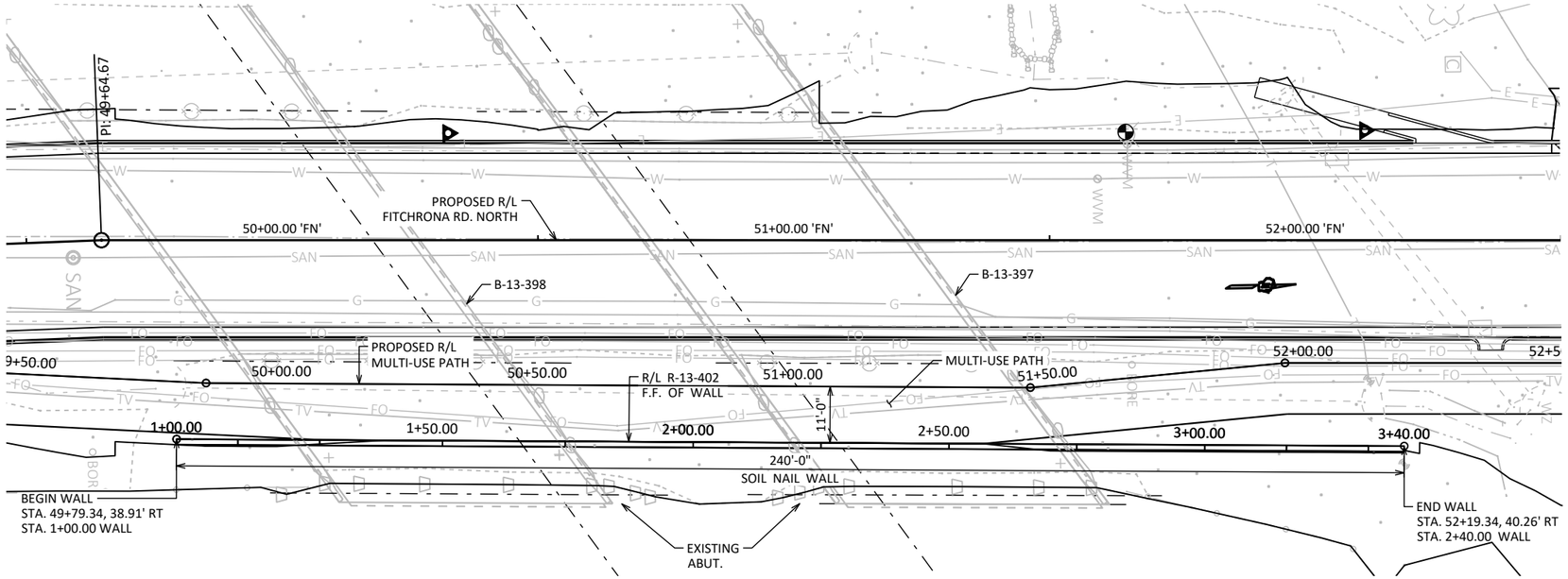
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-2.7

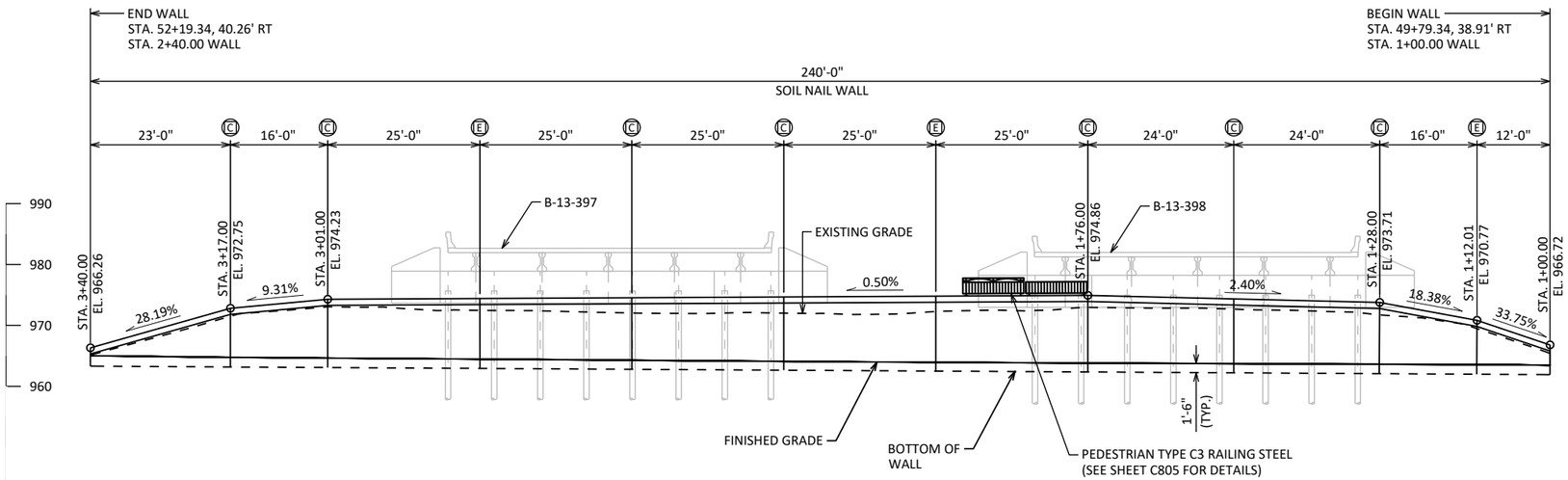
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

7



PLAN

SOIL NAIL RETAINING WALLS



ELEVATION

LOOKING EAST AT F.F. WALL.
STATIONS SHOWN ARE WALL STATIONS.
STATIONS AND ELEVATIONS SHOWN ARE ALONG F.F. OF WALL.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THE EXISTING GROUND LINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURE.

LENGTH OF RETAINING WALL IS MEASURED ALONG THE FRONT FACE.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

WALL FACE SHALL HAVE THE APPEARANCE OF LEDGE STONE OR APPROVED EQUAL. WALL CONCRETE STAINING COLOR TO BE FEDERAL COLOR NO. 33448. COPING CONCRETE STAINING COLOR TO BE FEDERAL COLOR NO. 26134.

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATIONS AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

ALL RETAINING WALL STATIONS AND OFFSETS ARE MEASURED ALONG THE FICTHRONA RD NORTH PROPOSED PROFILE.

OFFSETS ARE MEASURED TO THE FRONT FACE OF THE RETAINING WALL.

BEVEL EXPOSED EDGES OF CONCRETE ¾", UNLESS NOTED OR SHOWN OTHERWISE.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR, UNLESS NOTED OR SHOWN OTHERWISE.

THE FIRST DIGIT OF A THREE DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK INDICATE THE SIZE OF BAR.

ALL BAR STEEL REINFORCEMENT IS TO BE EPOXY COATED.

CONTRACTOR SHALL SUPPLY AND INSTALL A NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATION.

POT HOLE ALL EXISTING EAST ABUTMENT PILE LOCATIONS FOR STRUCTURES B-13-397 AND B-13-398 PRIOR TO CONSTRUCTION. POT HOLE METHOD TO BE APPROVED BY ENGINEER.

SPACE SOIL NAILS TO AVOID EXISTING ABUTMENT PILING.

MONITORING OF EXISTING ABUTMENT STABILITY DURING CONSTRUCTION IS REQUIRED AND INCLUDED IN "SOIL NAIL RETAINING WALL" SPECIFICATION.

EXISTING BRIDGE PLANS AND DATA CAN BE FOUND IN PROJECT MANUAL FOR CONTRACTOR REVIEW.

DESIGN DATA

LIVE LOAD:
- LIVE LOAD SURCHARGE — 100 PSF (WITHIN LIMITS OF ABUT)
- LIVE LOAD SURCHARGE — 100 PSF (OUTSIDE LIMITS OF ABUT)

MATERIAL PROPERTIES:
- SHOTCRETE — f'c = 2,000 PSI (3 DAY); f'c = 4,000 PSI (28 DAY)
- NAIL GROUT — f'c = 1,500 PSI (3 DAY); f'c = 3,000 PSI (28 DAY)
- CONCRETE MASONRY — f'c = 3,500 PSI
- BAR STEEL REINFORCEMENT, GRADE 60 — fy = 60,000 PSI
- STRUCTURAL STEEL CARBON, ASTM A709, GRADE 36 — fy = 36,000 PSI

LIST OF DRAWINGS

C-801. GENERAL PLAN & ELEVATION
C-802. QUANTITIES & WALL DATA
C-803. WALL DETAILS 1
C-804. WALL DETAILS 2
C-805. RAILING DETAILS
C-806. SUBSURFACE EXPLORATION

LEGEND

(C) = CONTRACTION JOINT

(E) = EXPANSION JOINT

THE CITY OF Fitchburg PUBLIC WORKS

R-13-402
FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE: ##########
SHEET NO.: C-801	DATE: JULY 2024
	REVISION: 100% PLAN SET

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\400_Technical\480_Structures\CAD\Soil Nail Walls\USH 18 151\01_USH18151_soilnail_genpln.dwg Layout: C-801 User: Collins,J Plotted: Jul 12, 2024 - 4:10pm

TOTAL ESTIMATED QUANTITIES

RETAINING WALL BID AS A LUMP SUM
FOR INFORMATION PURPOSES ONLY.

	BID ITEM 940: SOIL NAIL WALL R-13-402			
	WISDOT STD. ITEM	WISDOT STD. ITEM DESCRIPTION	UNIT	TOTALS
	310.0115	BASE AGGREAGATE OPEN-GRADED	CY	15
	504.0500	CONCRETE MASONRY RETAINING WALLS	CY	105
	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	5,990
	513.8016	RAILING STEEL PEDESTRIAN TYPE C3 R-13-402	LF	240
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	43
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	240
	645.0112	GEOTEXTILE TYPE DF SCHEDULE B	SY	130
⛑ ✳	SPV.0060	SOIL NAIL VERIFICATION TESTS R-13-402	EACH	6
✳	SPV.0060	SOIL NAIL PROOF TESTS	EACH	10
	SPV.0165	SOIL NAIL RETAINING WALLS R-13-402	SF	1880
		NON-BID ITEMS		
		PREFORMED JOINT FILLER	SIZE	½", ¾"

✳ QUANTITY IS AN ESTIMATE. REFER TO THE SPECIAL PROVISIONS

⛑ RECOMMENDED SOIL NAIL VERFICATION TESTS BE LOCATED BENEATH ABUTMENTS. DUE TO POTENTIAL WATER ISSUES FROM BACKFILL DRAINAGE. ONE VERIFICATION TEST TO BE LOCATED ON TOP ROW BENEATH ONE BRIDGE AND ANOTHER ON NEXT ROW DOWN BENEATH FIRST. THIRD VERIFICATION TEST MAY BE REQUIRED IF THIRD ROW OF SOIL NAILS EXIST.

SOIL PARAMETERS

SOIL PARAMETERS ARE FOR INFORMATIONAL PURPOSES ONLY.
CONTRACTOR IS REQUIRED TO VERIFY SOIL PARAMETERS FOR DESIGN.

SOIL DESCRIPTION	FRICTION ANGLE (DEGREES)	COHESION (PSF)	UNIT WEIGHT (PCF)
BORING B-17 - SOUTH OF B-13-398			
STIFF LEAN CLAY FROM EL. 965.0' TO EL. 953.5'	0 ST 26 LT	1500 ST 150 LT	115
MEDIUM DENSE SAND AND GRAVEL FROM EL. 953.5' TO EL. 950.0'	33	0	125
BORING B-18 - BETWEEN B-13-398 & B-13-397			
LOOSE TO MEDIUM DENSE SAND FILL FROM EL. 962.0' TO EL. 954.0'	28	0	120
STIFF LEAN CLAY FROM EL. 954.0' TO EL. 949.5'	0 ST 26 LT	1500 ST 150 LT	115
SOFT TO MEDIUM STIFF LEAN CLAY FROM EL. 949.5' TO EL. 944.5'	0 ST 25 LT	250 ST 125 LT	115
MEDIUM DENSE SAND FROM EL. 944.5' TO EL. 937.0'	34	0	120
BORING B-19 - NORTH OF B-13-397			
LOOSE TO MEDIUM DENSE SAND FILL FROM EL. 964.0' TO EL. 957.0'	28	0	120
MEDIUM STIFF TO STIFF LEAN CLAY FROM EL. 957.0' TO EL. 947.0'	0 ST 25 LT	500 ST 150 LT	115
LOOSE TO MEDIUM DENSE SAND FROM EL. 947.0' TO EL. 939.0'	33	0	120

NOTES: LT = LONG-TERM STRENGTH PARAMETER
ST = SHORT-TERM STRENGTH PARAMETER

LIST OF WALL ELEVATIONS

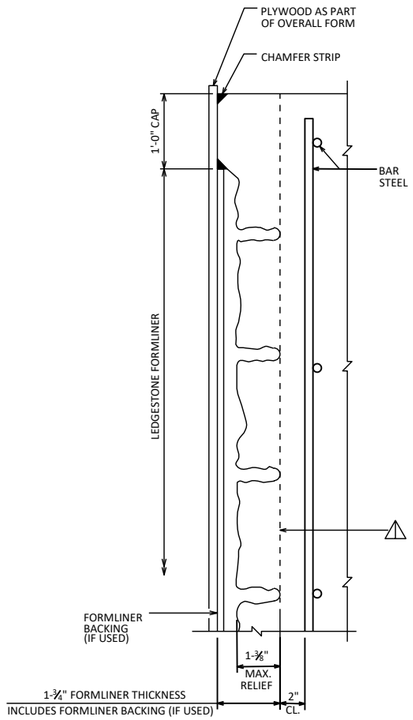
R/L FITCHRONA ROAD STATION	OFFSET TO F.F. OF WALL	WALL STATION	TOP OF WALL EL.	TOP OF SHOTCRETE EL.	FINISHED GRADE EL.	EXISTING GRADE EL.
49+79.34	38.91' RT	1+00.00	966.72	965.22	963.39	965.35
49+91.34	38.97' RT	1+12.00	970.77	969.27	963.51	969.42
50+07.34	39.06' RT	1+28.00	973.71	972.21	963.57	971.66
50+31.34	39.20' RT	1+52.00	974.29	972.79	963.66	972.61
50+55.34	39.33' RT	1+76.00	974.86	973.36	963.76	972.88
50+80.34	39.48' RT	2+01.00	974.74	973.24	963.88	972.23
51+05.34	39.62' RT	2+26.00	974.61	973.11	964.04	971.96
51+30.34	39.76' RT	2+51.00	974.48	972.98	964.22	971.99
51+55.34	39.90' RT	2+76.00	974.36	972.86	964.40	972.40
51+80.34	40.04' RT	3+01.00	974.23	972.73	964.58	973.00
51+96.34	40.13' RT	3+17.00	972.75	971.25	964.70	971.44
52+19.34	40.26' RT	3+40.00	966.26	964.76	964.96	965.08

THE CITY OF Fitchburg PUBLIC WORKS

R-13-402
FITCHRONA ROAD

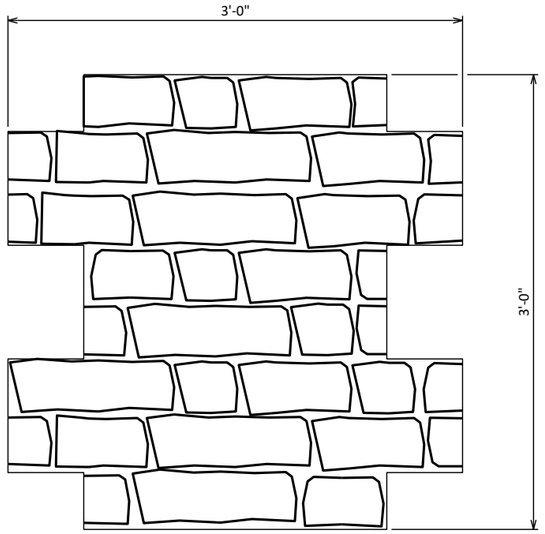
PROJECT NO.: 60703122	SCALE: ##########	
SHEET NO.: C-802	DATE: JULY 2024	REVISION: 100% PLAN SET

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\400_Technical\480_Structures\CAD\Soil Nail Walls\USH 18 151\02_USH18151_quantities_walldata.dwg Layout: C-802 User: CollinsJ Plotted: Jul 12, 2024 - 4:10pm



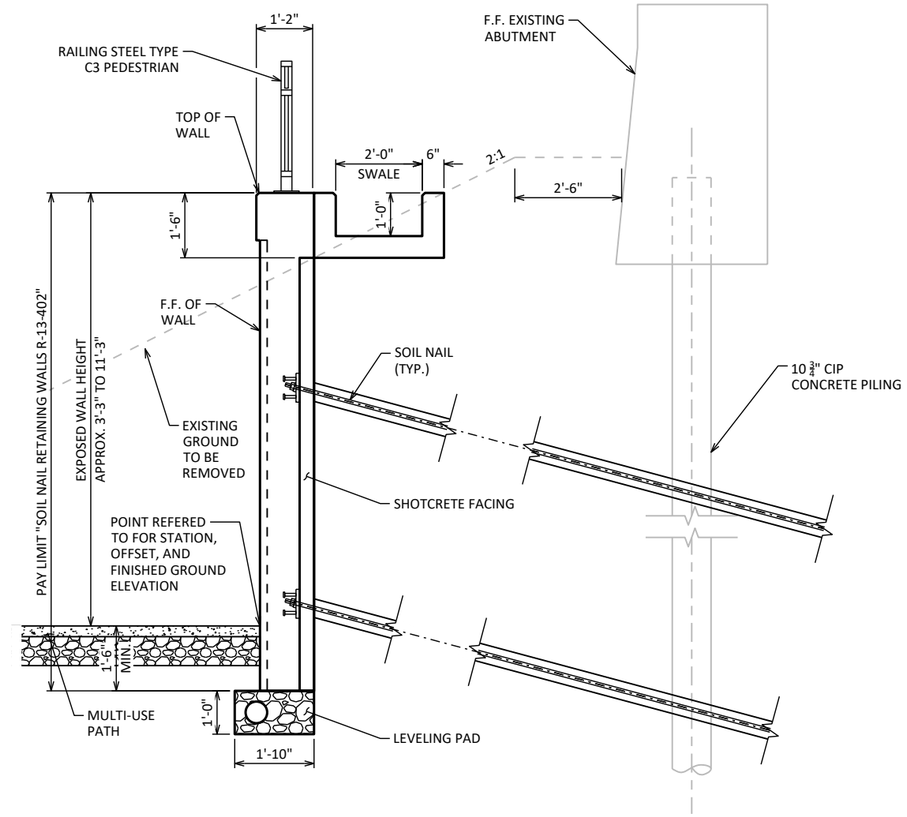
SECTION THRU FORMLINER

⚠ STRUCTURAL CONCRETE CAN ONLY BE ASSUMED TO THIS LINE. PROVIDE ADDITIONAL STRUCTURE SIZE AS NECESSARY TO MAINTAIN MINIMUM FULL STRUCTURAL CONCRETE DIMENSIONS AS INDICATED ON THE STANDARDS.



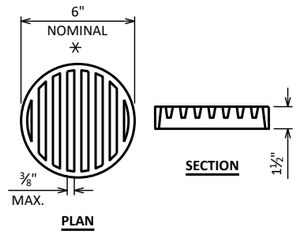
ELEVATION OF FORMLINER

SEE SHEET C801 FOR WALL CONCRETE STAINING COLOR AND COPING COLOR.



RETAINING WALL TYPICAL SECTION

LOOKING NORTH

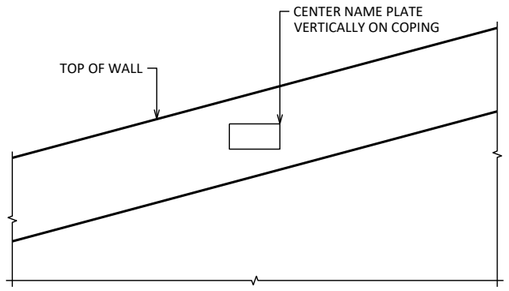


RODENT SHIELD DETAIL

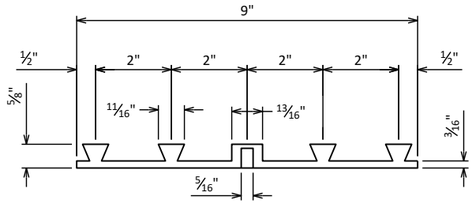
⁎ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



NAME PLATE DETAIL



P.C.W. "TYPE B" DETAIL

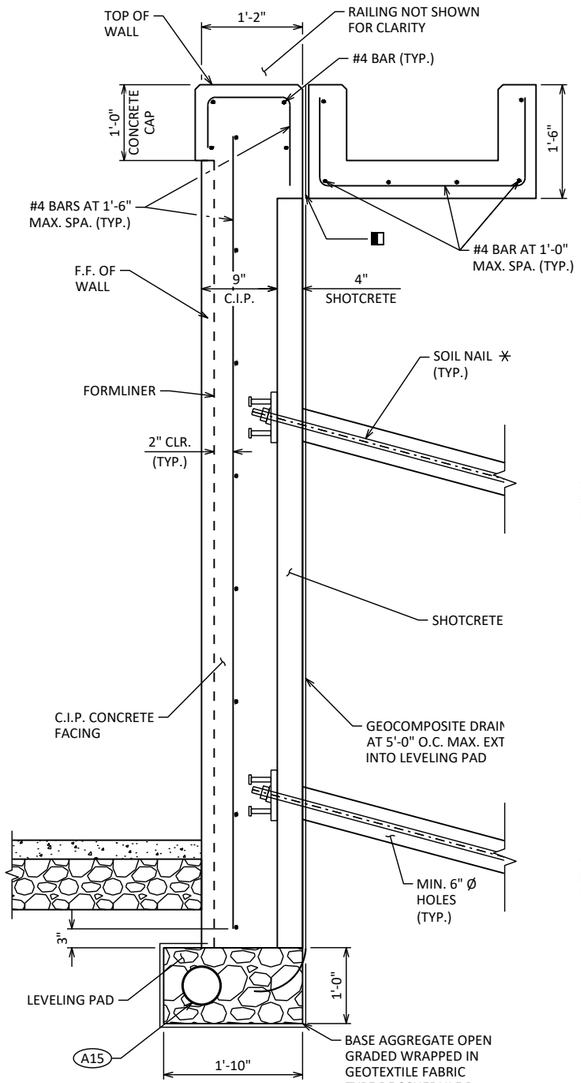
(POLYVINYL CHLORIDE WATERSTOP)
(INCLUDED IN BID ITEM "CONCRETE MASONRY RETAINING WALLS")
P.C.W. SHALL BE BUTT SPLICED AT ANY INTERSECTIONS BY USING A HEATED SPLICING IRON. HOLD P.C.W. FLUSH WITH CONCRETE. SEAL TOP ENDS OF P.C.W. WITH NON-STAINING NON-BITUMINOUS JOINT SEALER.

THE CITY OF Fitchburg PUBLIC WORKS

R-13-402
FITCHRONA ROAD

SCALE:	##########
DATE:	JULY 2024
REVISION:	100% PLAN SET
PROJECT NO.:	60703122
SHEET NO.:	C-803

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\400_Technical\480_Structures\CAD\Soil Nail Walls\USH 18 151\03_USH18151 walldetails.dwg Layout: WALL DETAILS 1 User: CollinsJ Plotted: Jul 12, 2024 - 4:10pm



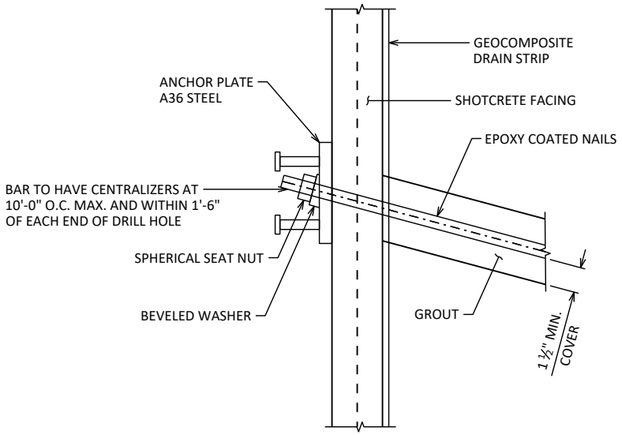
SOIL NAIL TYPICAL SECTION

STEEL REINFORCEMENT PER CONTRACTOR DESIGN

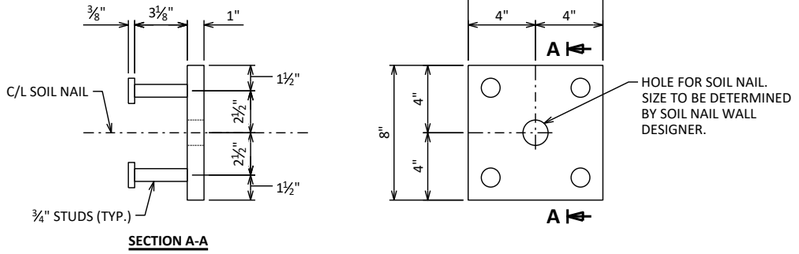
✳ NUMBER OF ROWS AND SPACING TO BE DETERMINED BY CONTRACTOR.

◧ 18" RUBBERIZED MEMBRANE WATERPROOFING (R.M.W). SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE. PLACE PRIOR TO CONSTRUCTION OF SWALE.

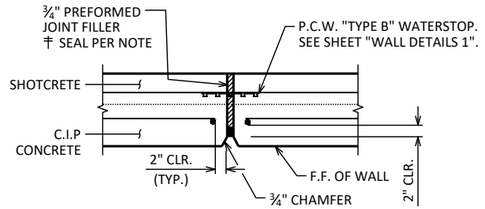
(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.



NAIL HEAD DETAIL



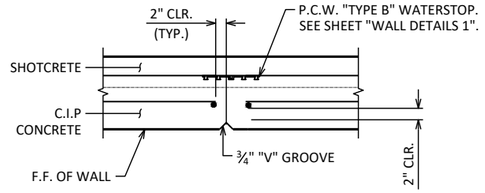
ANCHOR PLATE DETAILS



VERTICAL EXPANSION JOINT

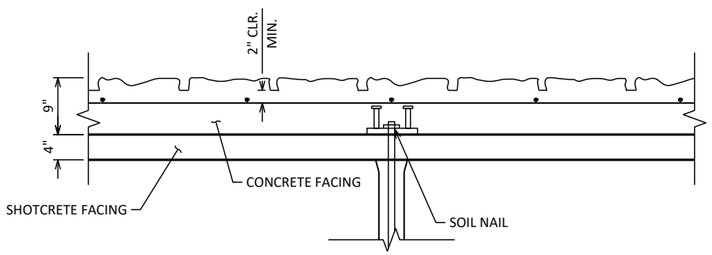
DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 90'-0".

ǂ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING NON-BITUMINOUS JOINT SEALER. COLOR TO MATCH CONCRETE STAIN. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE.)



VERTICAL CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 30'-0".



CONCRETE FACING DETAIL

(CONCRETE CAP NOT SHOWN)

DESIGN NOTES

1. SOIL NAIL AND ANCHOR PLATE DETAILS ARE PROVIDED TO SHOW GENERAL WALL CONFIGURATION. CONTRACTOR'S WALL DESIGN SHALL DESIGN AND DETAIL SOIL NAIL WALL SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS AND THE SPECIFIC SITE REQUIREMENTS.

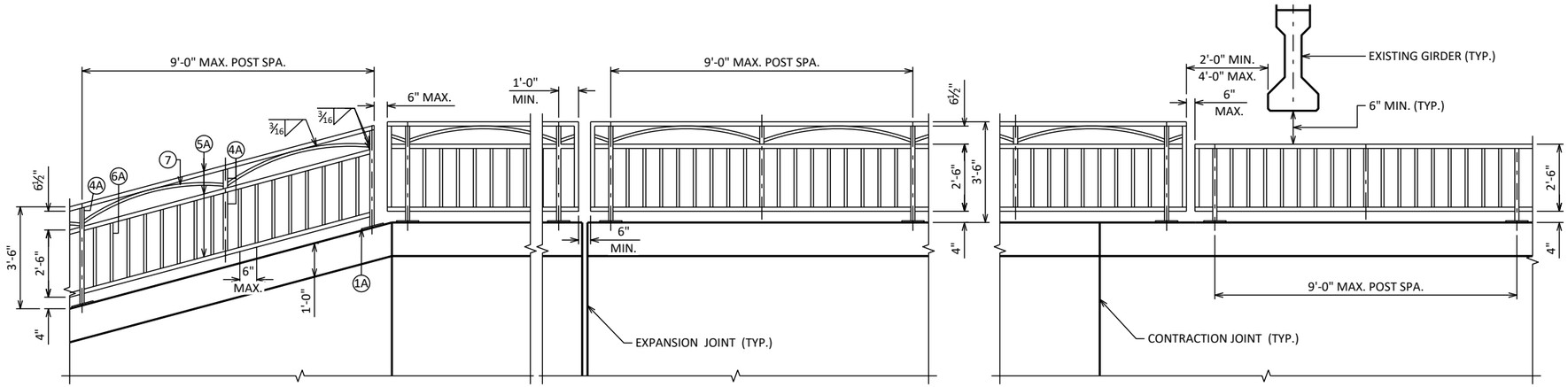
2. CAST-IN-PLACE CONCRETE FACING IS INTENDED TO PROVIDE AN AESTHETIC WALL FINISH. THE CONCRETE FACING HAS NOT BEEN DESIGNED TO TRANSFER LATERAL LOADS BETWEEN THE SOIL NAIL ANCHOR PLATES. THE CONTRACTOR'S WALL DESIGNER SHALL REVIEW AND REVISE CONCRETE FACING AND ANCHOR PLATE DESIGN AS REQUIRED TO MEET THE CONTRACTOR'S SOIL NAIL WALL DESIGN.

THE CITY OF Fitchburg PUBLIC WORKS

R-13-402
FITCHRONA ROAD

PROJECT NO.: 60703122
SHEET NO.: C-804
SCALE: ##########
DATE: JULY 2024
REVISION: 100% PLAN SET

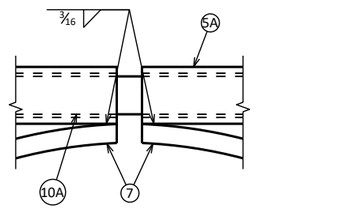
File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\400_Technical\480_Structures\CAD\Soil Nail Walls\USH 18 151\03_USH18151_walldetails.dwg Layout: WALL DETAILS 2 User: CollinsJ Plotted: Jul 12, 2024 - 4:10pm



ELEVATION VIEW

LEGEND

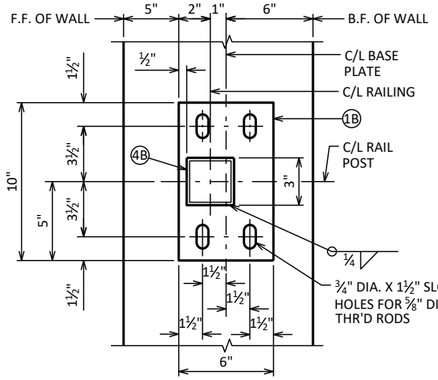
- (1A) PLATE ⅝" X 6" X 10" WITH ¾" X 1½" SLOTTED HOLES.
- (2B) ¼" X 5" X 9" ANCHOR PLATE WITH $^{11}/_{16}$" DIA. HOLES FOR THR'D RODS NO. 3.
- (3) ⅝" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. ALTERNATIVE ANCHORAGE: CONCRETE ADHESIVE ANCHORS ⅝-INCH. EMBED 7" IN CONCRETE FOR RAIL POSTS. EMBED 5" IN CONCRETE FOR END RAILS. ADHESIVE ANCHORS SHALL CONFORM TO SECTIONS 502.2.12 AND 502.3.14 OF THE STANDARD SPECIFICATIONS.
- (4A) STRUCTURAL TUBING 3" X 3" X $^{3}/_{16}$". PLACE VERTICAL. WELD TO NO. 1 & 5.
- (5A) STRUCTURAL TUBING 3" X 1½" X $^{3}/_{16}$" RAILS. WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.
- (6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. PLACE VERTICAL.
- (7) BAR 1" X 1". BEND TO REQUIRED RADIUS. WELD TO NO. 4 & 5.
- (9A) RECTANGULAR SLEEVE FABRICATED FROM $^{3}/_{16}$" PLATES. PROVIDE "SLIDING FIT".
- (10A) RECTANGULAR SLEEVE FABRICATED FROM $^{3}/_{16}$" PLATES. (1'-4" @ FIELD ERECTION JTS.) (1'-4" @ STRIP SEAL EXP. JTS.)



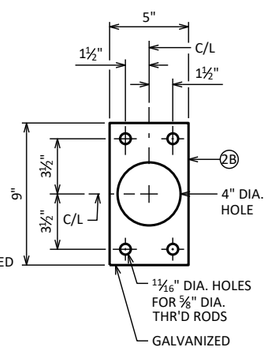
CURVED MEMBER JOINT DETAIL

ANCHORAGE FOR RAIL POSTS

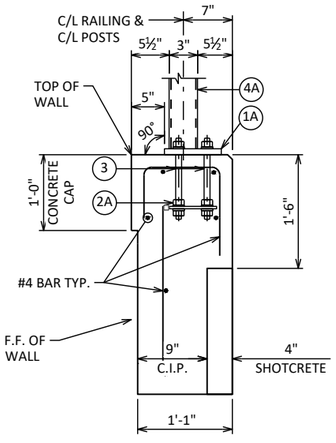
NOTE: ANCHOR PLATE NOT REQUIRED WHEN ADHESIVE ANCHORS ARE USED.



TYPICAL RAIL POST BASE PLATE

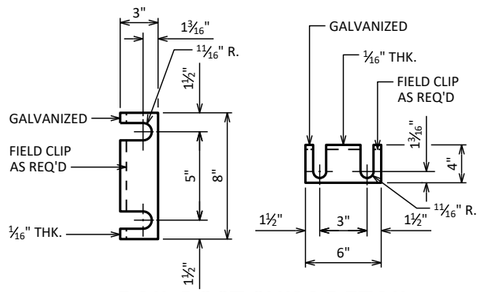


ANCHOR PLATE



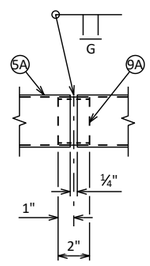
SECTION THRU SOIL NAIL WALL

✳ ADJUST LOCATIONS OF BARS TO ALLOW PLACEMENT OF ANCHOR ASSEMBLY FOR RAILING.



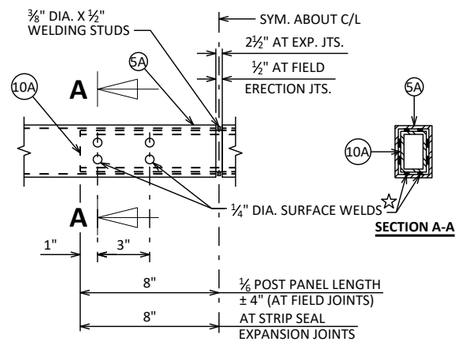
RAIL POST SHIM DETAIL

(2 SETS PER POST)



SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



FIELD ERECTION JOINT DETAIL

☆ MIN. ⅝" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.

RAILING NOTES

BID ITEM SHALL BE "RAILING STEEL PEDESTRIAN TYPE C3 R-13-402", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT, AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

ALL PLATES, BARS, AND RECTANGULAR SLEEVES SHALL CONFORM TO ASTM A709 GRADE 36. ALL STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

▪ CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

ALL JOINTS AND RECESSES IN CONCRETE PARAPET ARE TO BE VERTICAL.

ALL MATERIAL (EXCEPT NO. 3 & 12) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE RAILING SHALL BE PAINTED AMS STD. COLOR NO. 14090 (GREEN).

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.

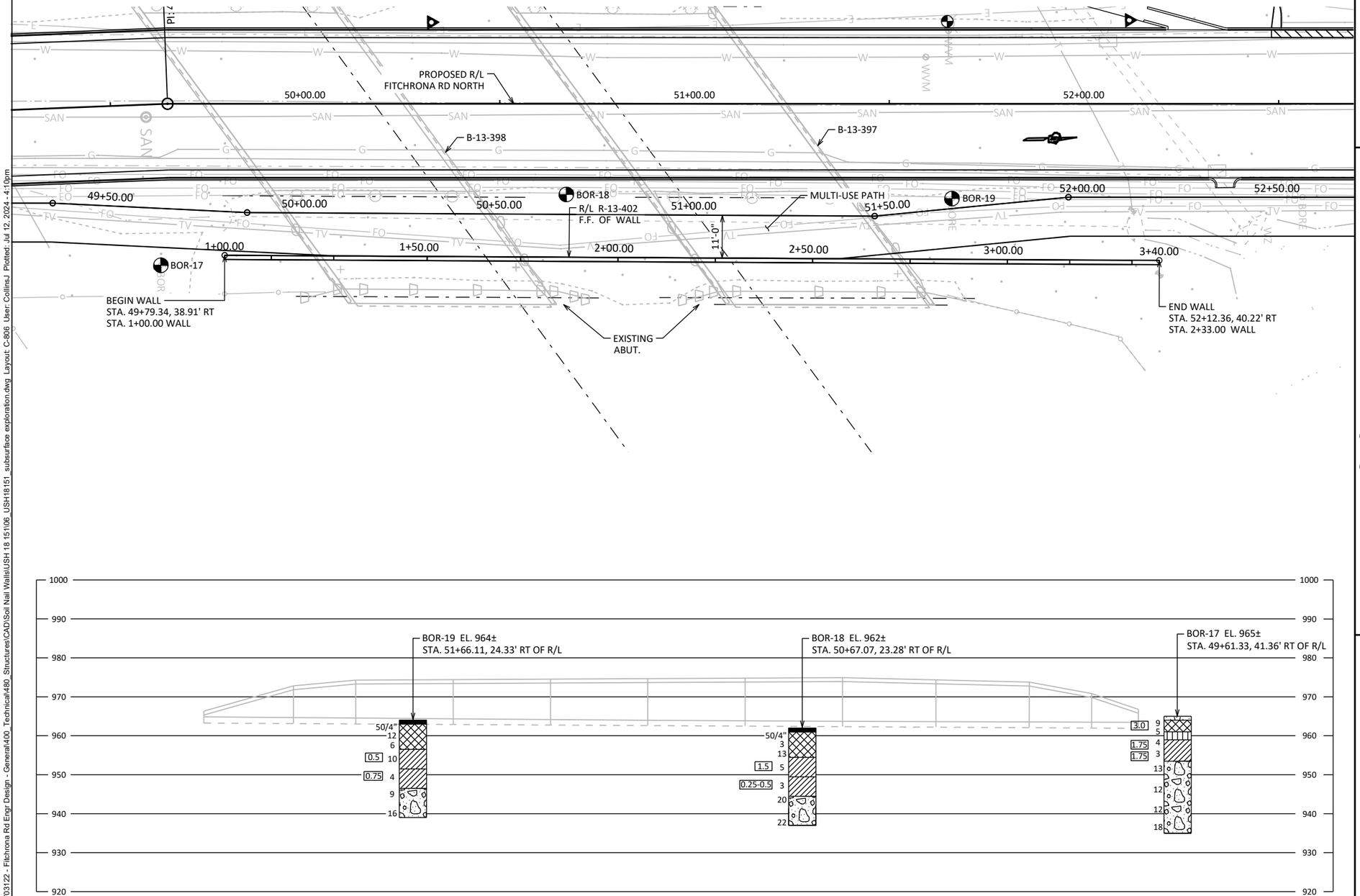
THE CITY OF Fitchburg PUBLIC WORKS

R-13-402
FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE: ##########
SHEET NO.: C-805	DATE: JULY 2024
	REVISION: 100% PLAN SET

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\400_Technical\480_Structures\CAD\Soil Nail Walls\USH 18 151\05_USH18151_Type C3 rail 'modified'.dwg Layout: C805 User: Collins,J Plotted: Jul 12, 2024 - 4:10pm

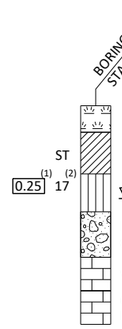
BORING	DATE COMPLETED	NORTHING (Y)	EASTING (X)
17	7/31/2023	457485.314	794439.477
18	8/1/2023	457589.735	794423.093
19	8/1/2023	457688.744	794425.858
BORINGS COMPLETED BY: CGC, INC.			
REPORT COMPLETED BY: CGC, INC.			
ALL COORDINATES REFERENCED TO WISCRS NAD 83(2011) DANE COUNTY			



MATERIAL SYMBOLS

ASPHALT · TOPSOIL · PEAT
CONCRETE · FILL · GRAVEL
SAND · CLAY · SILT
BOULDERS OR COBBLES · LIMESTONE · BEDROCK (UNKNOWN)
SHALE · SANDSTONE · IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE · M-MEDIUM · C-COARSE · ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

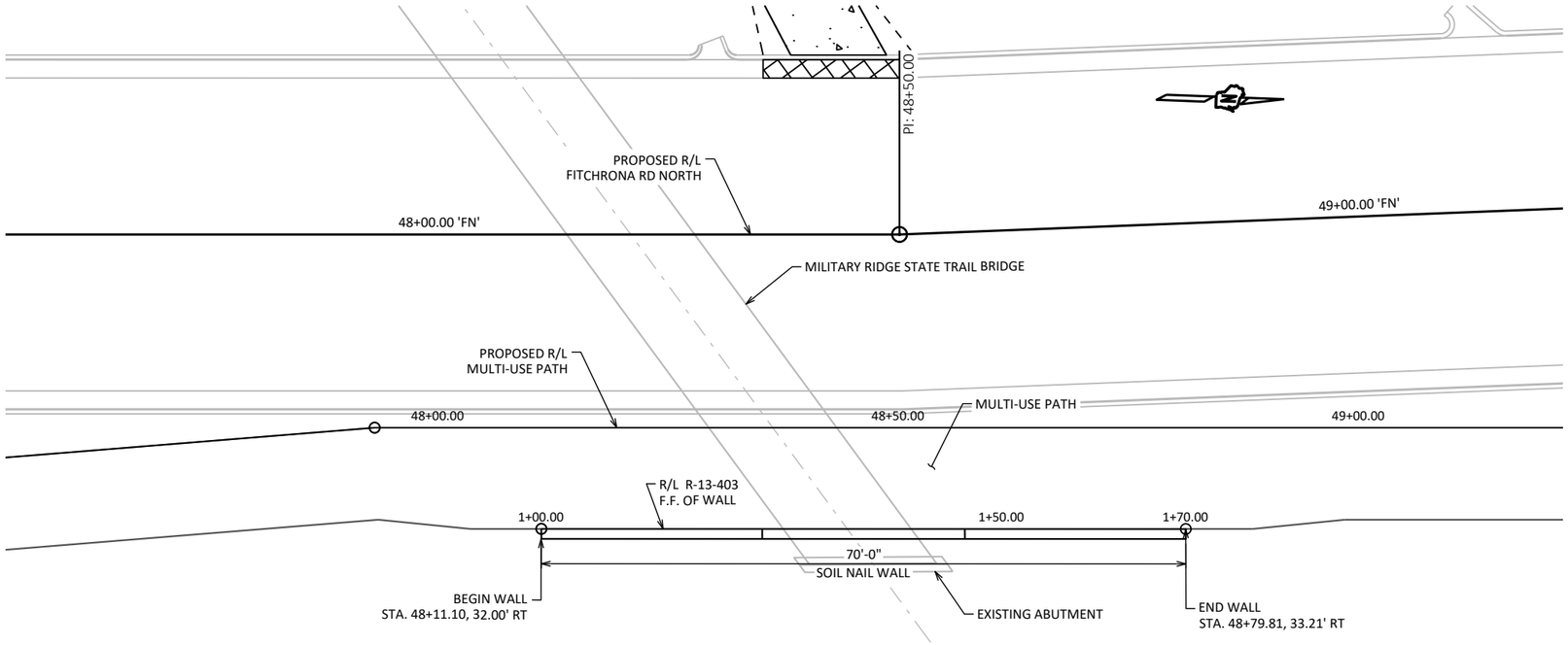
BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

THE CITY OF Fitchburg PUBLIC WORKS

R-13-402
FITCHRONA ROAD

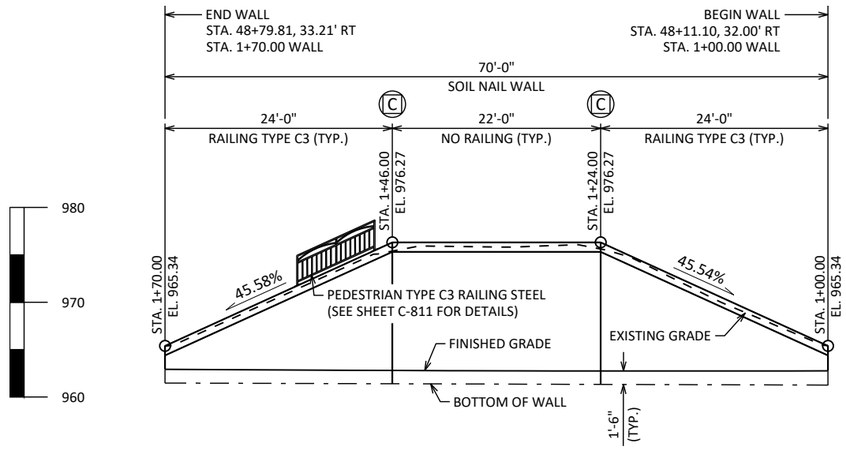
SCALE:	##########
DATE:	JULY 2024
REVISION:	100% PLAN SET
PROJECT NO.:	60703122
SHEET NO.:	C-806

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PLAN

SOIL NAIL RETAINING WALL



ELEVATION

LOOKING EAST AT F.F. WALL.
STATIONS SHOWN ARE WALL STATIONS.
STATIONS AND ELEVATIONS ARE ALONG F.F. OF WALL.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THE EXISTING GROUND LINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURE.

LENGTH OF RETAINING WALL IS MEASURED ALONG THE FRONT FACE.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

WALL FACE SHALL HAVE THE APPEARANCE OF LEDGE STONE OR APPROVED EQUAL. WALL CONCRETE STAINING COLOR TO BE FEDERAL COLOR NO. 33448. COPING CONCRETE STAINING COLOR TO BE FEDERAL COLOR NO. 26134.

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATIONS AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

ALL RETAINING WALL STATIONS AND OFFSETS ARE MEASURED ALONG THE FICTHRONA RD NORTH PROPOSED PROFILE.

OFFSETS ARE MEASURED TO THE FRONT FACE OF THE RETAINING WALL.

BEVEL EXPOSED EDGES OF CONCRETE ¾", UNLESS NOTED OR SHOWN OTHERWISE.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR, UNLESS NOTED OR SHOWN OTHERWISE.

THE FIRST DIGIT OF A THREE DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK INDICATE THE SIZE OF BAR.

ALL BAR STEEL REINFORCEMENT IS TO BE EPOXY COATED.

CONTRACTOR SHALL SUPPLY AND INSTALL A NAME PLACE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

MONITORING OF EXISTING ABUTMENT STABILITY DURING CONSTRUCTION IS REQUIRED AND INCLUDED IN "SOIL NAIL RETAINING WALL" SPECIFICATION.

EXISTING BRIDGE ABUTMENT IS A STUB ABUTMENT WITH NO PILING. DESIGN SOIL NAIL RETAINING WALL TO RESIST LOADING INDUCED BY EXISTING BRIDGE ABUTMENT.

THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF EXISTING ABUTMENT DURING CONSTRUCTION.

EXISTING BRIDGE PLANS AND DATA CAN BE FOUND IN PROJECT MANUAL FOR CONTRACTOR REVIEW.

DESIGN DATA

LIVE LOAD:
- LIVE LOAD SURCHARGE — 240 PSF (WITHIN LIMITS OF ABUT)
- LIVE LOAD SURCHARGE — 100 PSF (OUTSIDE LIMITS OF ABUT)

MATERIAL PROPERTIES:
- SHOTCRETE — f'c = 2,000 PSI (3 DAY); f'c = 4,000 PSI (28 DAY)
- NAIL GROUT — f'c = 1,500 PSI (3 DAY); f'c = 3,000 PSI (28 DAY)
- CONCRETE MASONRY — f'c = 3,500 PSI
- BAR STEEL REINFORCEMENT, GRADE 60 — fy = 60,000 PSI
- STRUCTURAL STEEL CARBON, ASTM A709, GRADE 36 — fy = 36,000 PSI

LIST OF DRAWINGS

C-807. GENERAL PLAN & ELEVATION
C-808. QUANTITIES & WALL DATA
C-809. WALL DETAILS 1
C-810. WALL DETAILS 2
C-811. RAILING DETAILS
C-812. SUBSURFACE EXPLORATION

LEGEND

Ⓒ = CONTRACTION JOINT

THE CITY OF Fitchburg PUBLIC WORKS

R-13-403
FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE: ##########
SHEET NO.: C-807	DATE: JULY 2024
	REVISION: 100% PLAN SET

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TOTAL ESTIMATED QUANTITIES

RETAINING WALL BID AS A LUMP SUM
FOR INFORMATION PURPOSES ONLY

BID ITEM 941: SOIL NAIL WALL R-13-403			
WISDOT STD. ITEM	WISDOT STD. ITEM DESCRIPTION	UNIT	TOTALS
310.0115	BASE AGGREAGATE OPEN-GRADED	CY	5
504.0500	CONCRETE MASONRY RETAINING WALLS	CY	35
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,040
513.8016	RAILING STEEL PEDESTRIAN TYPE C3	LF	53
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	15
604.0500	SLOPE PAVING CRUSHED AGGREGATE	SY	5
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	70
645.0112	GEOTEXTILE TYPE DF SCHEDULE B	SY	40
⛑ ✳ SPV.0060	SOIL NAIL VERIFICATION TESTS R-13-403	EACH	3
✳ SPV.0060	SOIL NAIL PROOF TESTS R-13-403	EACH	2
SPV.0165	SOIL NAIL RETAINING WALLS R-13-403	SF	580
	NON-BID ITEMS		
	PREFORMED JOINT FILLER	SIZE	½", ¾"

✳ QUANTITY IS AN ESTIMATE. REFER TO THE SPECIAL PROVISIONS

⛑ RECOMMENDED SOIL NAIL VERFICATION TESTS BE LOCATED BENEATH ABUTMENTS. DUE TO POTENTIAL WATER ISSUES FROM BACKFILL DRAINAGE. ONE VERIFICATION TEST TO BE LOCATED ON TOP ROW BENEATH BRIDGE AND ANOTHER ON NEXT ROW DOWN BENEATH FIRST. THIRD VERIFICATION TEST MAY BE REQUIRED IF THIRD ROW OF SOIL NAILS EXIST.

SOIL PARAMETERS

SOIL PARAMETERS ARE FOR INFORMATIONAL PURPOSES ONLY.
CONTRACTOR IS REQUIRED TO VERIFY SOIL PARAMETERS FOR DESIGN.

SOIL DESCRIPTION	FRICTION ANGLE (DEGREES)	COHESION (PSF)	UNIT WEIGHT (PCF)
BORING B-14 - SOUTH OF MILITARY RIDGE STATE TRAIL PEDESTRIAN BRIDGE			
LOOSE T0 MEDIUM DENSE SAND FROM EL. 963.0' TO EL. 951.5'	32	0	115
MEDIUM DENSE SAND AND GRAVEL FROM EL. 951.5' TO EL. 948.0'	33	0	125
BORING B-15 - NORTH OF MILITARY RIDGE STATE TRAIL PEDESTRIAN BRIDGE			
MEDIUM STIFF TO STIFF LEAN CLAY FROM EL. 963.0' TO EL. 951.0'	0 ST 26 LT	2000 ST 200 LT	115
MEDIUM DENSE SAND TO SILT FROM EL. 951.0' TO EL. 948.0'	32	0	125

NOTES: LT = LONG-TERM STRENGTH PARAMETER
ST = SHORT-TERM STRENGTH PARAMETER

LIST OF WALL ELEVATIONS

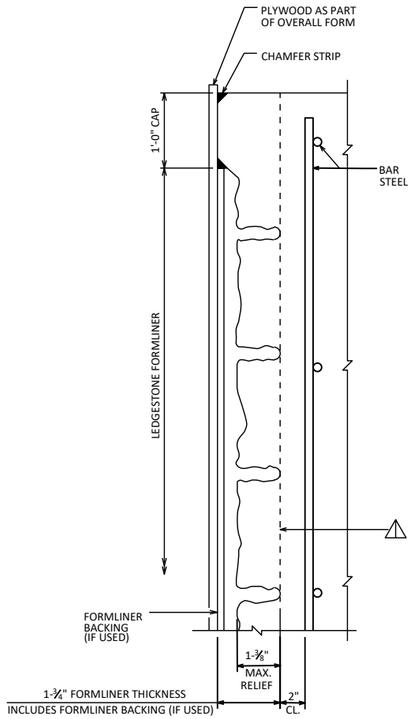
R/L FITCHRONA ROAD STATION	OFFSET TO F.F. OF WALL	F.F. OF WALL STATION	TOP OF WALL EL.	TOP OF SHOTCRETE EL.	FINISHED GRADE EL.	EXISTING GRADE EL.
48+11.10	32.00' RT	1+00.00	965.34	963.84	962.71	965.40
48+35.10	32.01' RT	1+24.00	976.27	974.77	962.70	975.57
48+55.83	32.25' RT	1+46.00	976.27	974.77	962.75	975.35
48+79.81	33.21' RT	1+70.00	965.34	963.84	962.88	965.33

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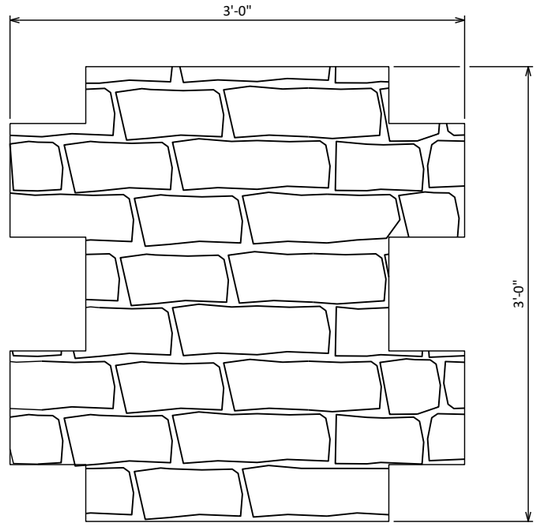
R-13-403
FITCHRONA ROAD

PROJECT NO.: 60703122
SCALE: ##########
DATE: JULY 2024
REVISION: 100% PLAN SET
SHEET NO.: C-808

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\400_Technical\480_Structures\CAD\Soil Nail Walls\Military Ridge State Trail\02_MRST_quantities_walldata.dwg Layout: C-808 User: Collins,I Plotted: Jul 12, 2024 - 4:29pm

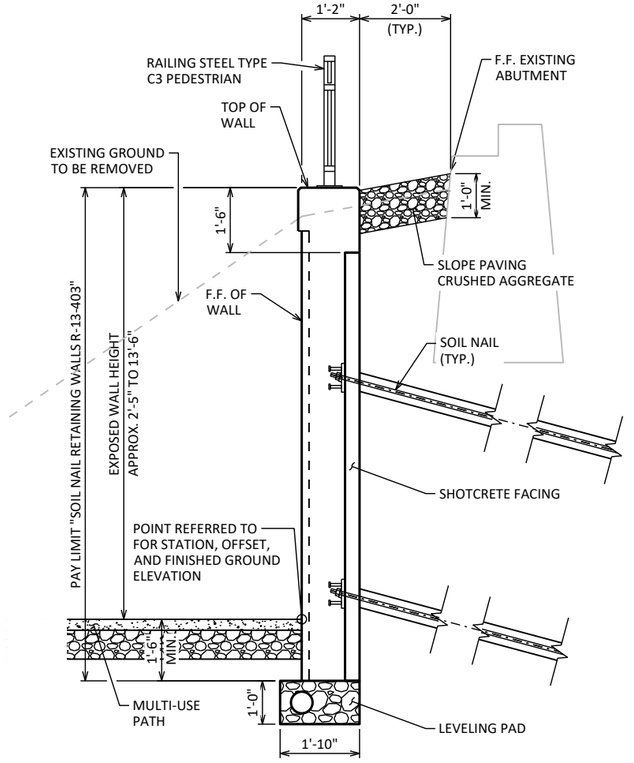


SECTION THRU FORMLINER

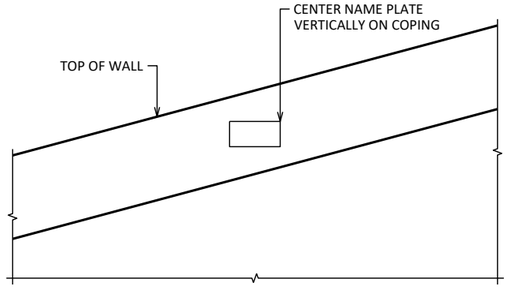


ELEVATION OF FORMLINER

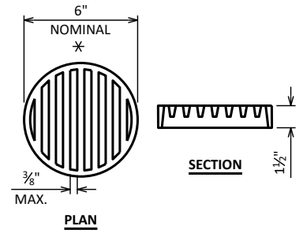
SEE SHEET C807 FOR WALL CONCRETE STAINING COLOR AND COPING STAINING COLOR.



RETAINING WALL TYPICAL SECTION



NAME PLATE DETAIL

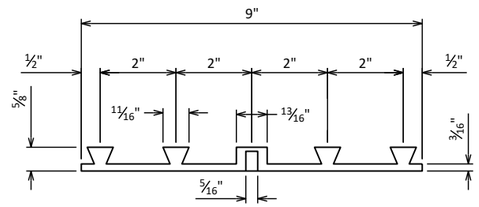


RODENT SHIELD DETAIL

⁎ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



P.C.W. "TYPE B" DETAIL

(POLYVINYL CHLORIDE WATERSTOP)
(INCLUDED IN BID ITEM "CONCRETE MASONRY RETAINING WALLS")
P.C.W. SHALL BE BUTT SPLICED AT ANY INTERSECTIONS BY USING A HEATED SPLICING IRON. HOLD P.C.W. FLUSH WITH CONCRETE. SEAL TOP ENDS OF P.C.W. WITH NON-STAINING NON-BITUMINOUS JOINT SEALER.

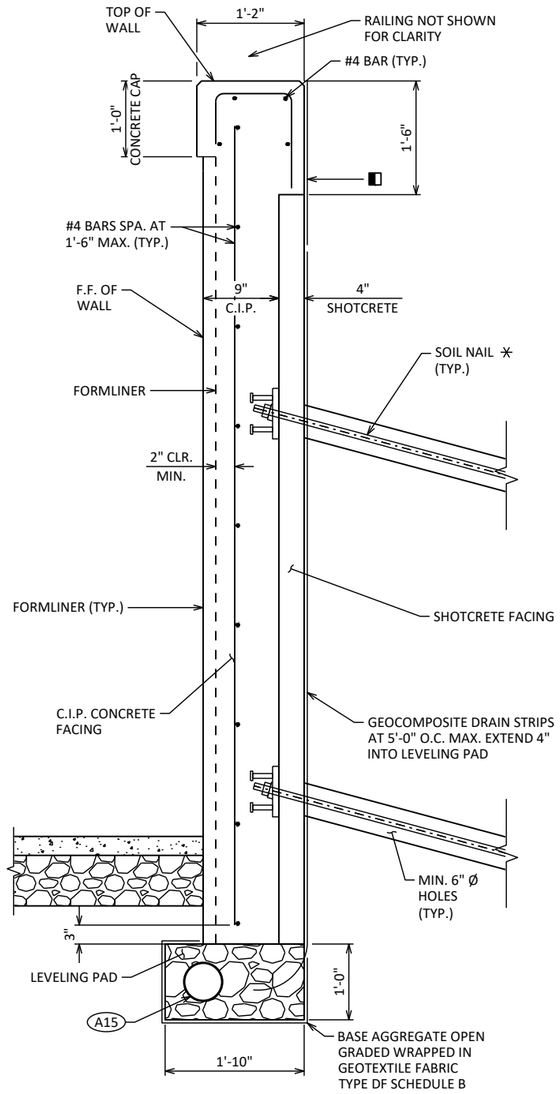
THE CITY OF Fitchburg PUBLIC WORKS

R-13-403
FITCHRONA ROAD

SCALE: ##########
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REVISION: 100% PLAN SET

PROJECT NO.: 60703122
SHEET NO.: C-809

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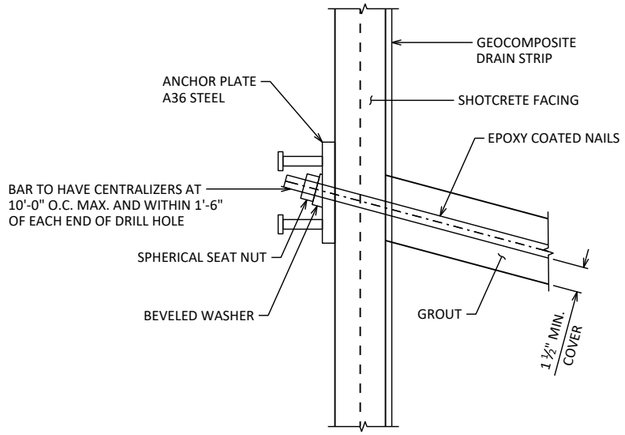
SOIL NAIL TYPICAL SECTION

STEEL REINFORCEMENT PER CONTRACTOR DESIGN

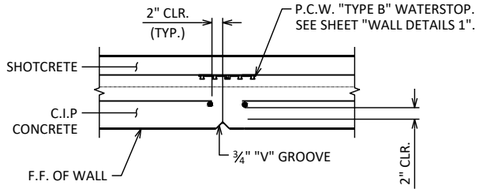
✳ NUMBER OF ROWS AND SPACING TO BE DETERMINED BY CONTRACTOR.

◧ 18" RUBBERIZED MEMBRANE WATERPROOFING (R.M.W). SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

(A01) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAIMAGE. RODENT SHIELD REQUIRED.

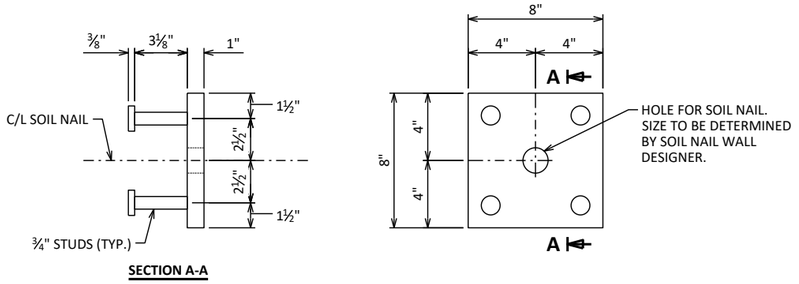


NAIL HEAD DETAIL

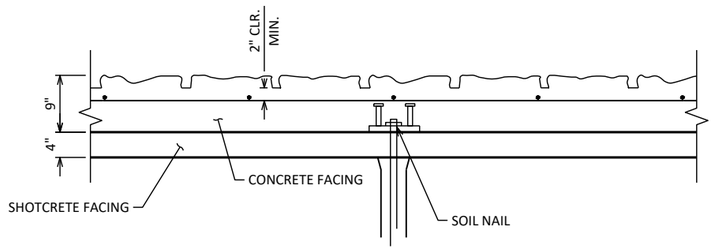


VERTICAL CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 30'-0".



ANCHOR PLATE DETAILS



CONCRETE FACING DETAIL

(CONCRETE CAP NOT SHOWN)

DESIGN NOTES

1. SOIL NAIL AND ANCHOR PLATE DETAILS ARE PROVIDED TO SHOW GENERAL WALL CONFIGURATION. CONTRACTOR'S WALL DESIGN SHALL DESIGN AND DETAIL SOIL NAIL WALL SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS AND THE SPECIFIC SITE REQUIREMENTS.

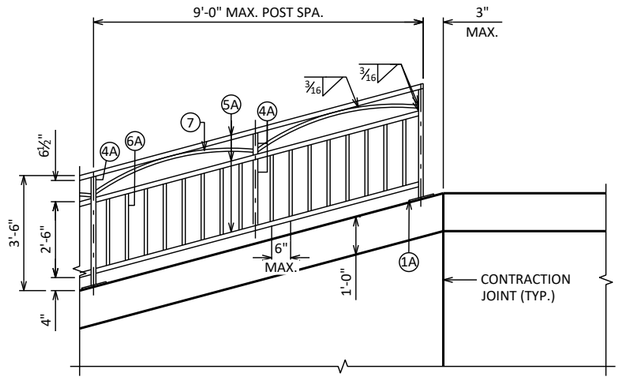
2. CAST-IN-PLACE CONCRETE FACING IS INTENDED TO PROVIDE AN AESTHETIC WALL FINISH. THE CONCRETE FACING HAS NOT BEEN DESIGNED TO TRANSFER LATERAL LOADS BETWEEN THE SOIL NAIL ANCHOR PLATES. THE CONTRACTOR'S WALL DESIGNER SHALL REVIEW AND REVISE CONCRETE FACING AND ANCHOR PLATE DESIGN AS REQUIRED TO MEET THE CONTRACTOR'S SOIL NAIL WALL DESIGN.

THE CITY OF Fitchburg PUBLIC WORKS

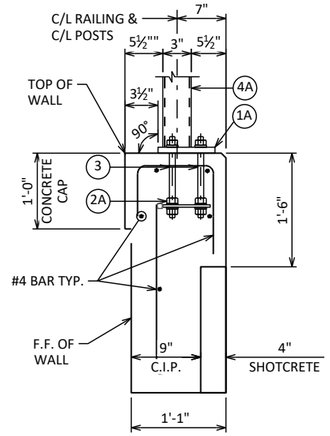
R-13-403
FITCHRONA ROAD

PROJECT NO.: 60703122
SHEET NO.: C-810
SCALE: ##########
DATE: JULY 2024
REVISION: 100% PLAN SET

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\400_Technical\480_Structures\CAD\Soil Nail Walls\Military Ridge State Trail\03_MRST_walldetails.dwg Layout: WALL DETAILS 2 User: Collins,I Plotted: Jul 12, 2024 - 4:29pm



ELEVATION VIEW



SECTION THRU SOIL NAIL WALL

⚹ ADJUST LOCATIONS OF BARS TO ALLOW PLACEMENT OF ANCHOR ASSEMBLY FOR RAILING.

LEGEND

(1A) PLATE ⅝" X 6" X 10" WITH ¾" X 1½" SLOTTED HOLES.

(2B) ¼" X 5" X 9" ANCHOR PLATE WITH $^{11}/_{16}$" DIA. HOLES FOR THR'D RODS NO. 3.

(3) ⅝" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. ALTERNATIVE ANCHORAGE: CONCRETE ADHESIVE ANCHORS ⅝-INCH. EMBED 7" IN CONCRETE FOR RAIL POSTS. EMBED 5" IN CONCRETE FOR END RAILS. ADHESIVE ANCHORS SHALL CONFORM TO SECTIONS 502.2.12 OF THE STANDARD SPECIFICATIONS.

(4A) STRUCTURAL TUBING 3" X 3" X $^{3}/_{16}$". PLACE VERTICAL. WELD TO NO. 1 & 5.

(5A) STRUCTURAL TUBING 3" X 1½" X $^{3}/_{16}$" RAILS. WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.

(6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. PLACE VERTICAL.

(7) BAR 1" X 1". BEND TO REQUIRED RADIUS. WELD TO NO. 4 & 5.

(9A) RECTANGULAR SLEEVE FABRICATED FROM $^{3}/_{16}$" PLATES. PROVIDE "SLIDING FIT".

(10A) RECTANGULAR SLEEVE FABRICATED FROM $^{3}/_{16}$" PLATES. (1'-4" @ FIELD ERECTION JTS.) (1'-4" @ STRIP SEAL EXP. JTS.)

RAILING NOTES

BID ITEM SHALL BE "RAILING STEEL PEDESTRIAN TYPE C3", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT, AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

ALL PLATES, BARS, AND RECTANGULAR SLEEVES SHALL CONFORM TO ASTM A709 GRADE 36. ALL STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

▩ CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

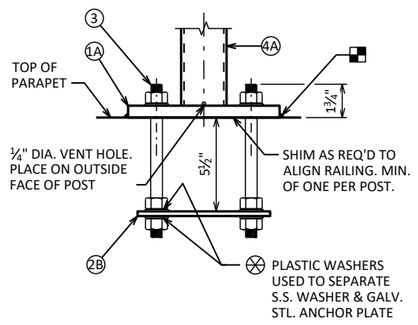
ALL JOINTS AND RECESSES IN CONCRETE PARAPET ARE TO BE VERTICAL.

ALL MATERIAL (EXCEPT NO. 3 & 12) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE RAILING SHALL BE PAINTED AMS STD. COLOR NO. 14090 (GREEN).

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

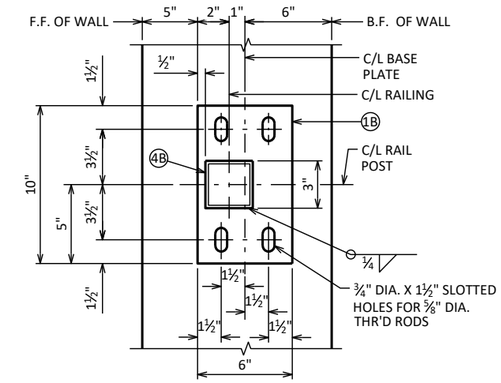
RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.

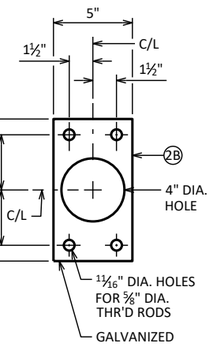


ANCHORAGE FOR RAIL POSTS

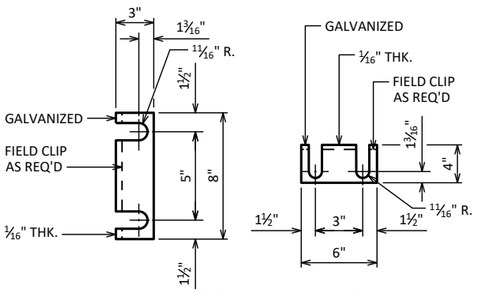
NOTE: ANCHOR PLATE NOT REQUIRED WHEN ADHESIVE ANCHORS ARE USED.



TYPICAL RAIL POST BASE PLATE

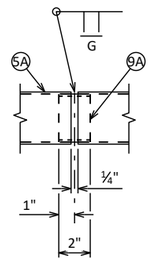


ANCHOR PLATE



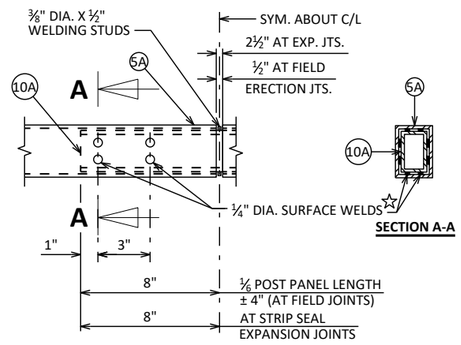
RAIL POST SHIM DETAIL

(2 SETS PER POST)



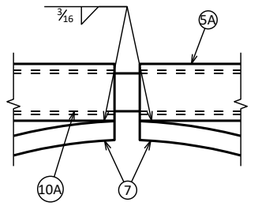
SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



FIELD ERECTION JOINT DETAIL

☆ MIN. ⅝" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



CURVED MEMBER JOINT DETAIL

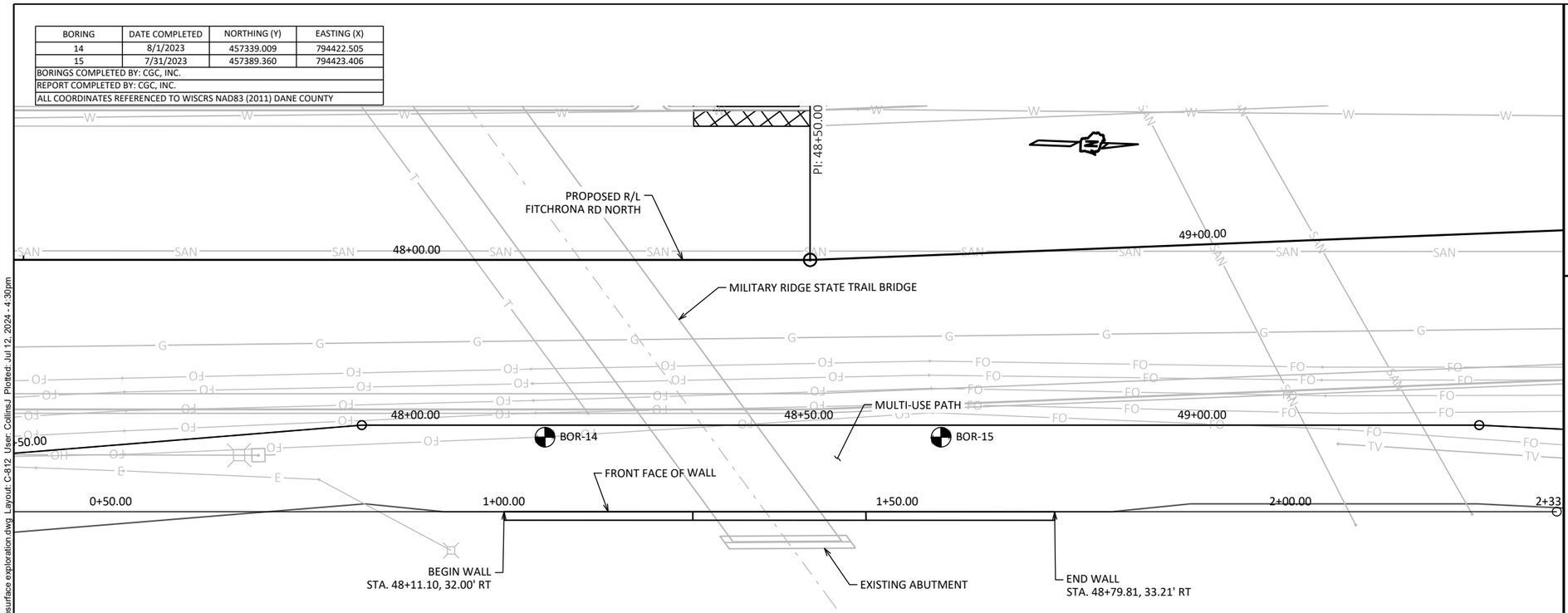
THE CITY OF Fitchburg PUBLIC WORKS

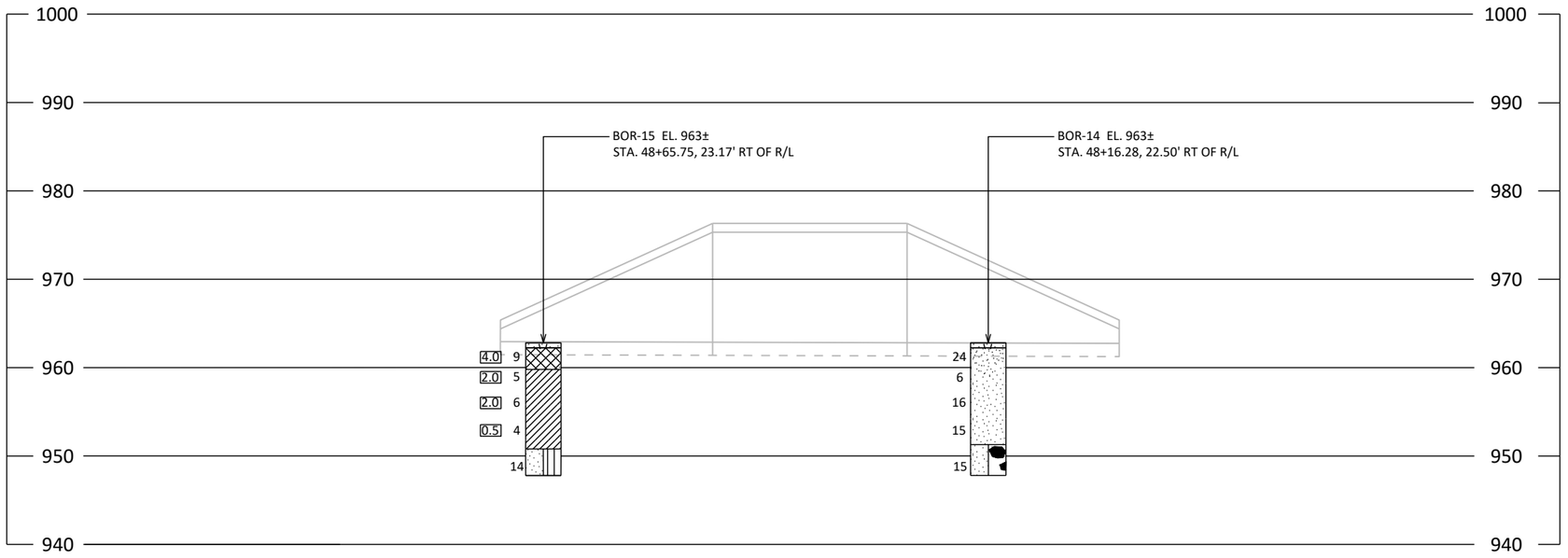
R-13-403
FITCHRONA ROAD

SCALE:	##########
DATE:	JULY 2024
REVISION:	100% PLAN SET
PROJECT NO.:	60703122
SHEET NO.:	C-811

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\400_Technical\480_Structures\CAD\Soil Nail Walls\Military Ridge State Trail\11_MRST_Railing Steel PedestrianType C3.dwg Layout: TITLE_BLOCK User: CollinsJ Plotted: Jul 12, 2024 - 4:29pm

BORING	DATE COMPLETED	NORTHING (Y)	EASTING (X)
14	8/1/2023	457339.009	794422.505
15	7/31/2023	457389.360	794423.406
BORINGS COMPLETED BY: CGC, INC.			
REPORT COMPLETED BY: CGC, INC.			
ALL COORDINATES REFERENCED TO WISCRS NAD83 (2011) DANE COUNTY			

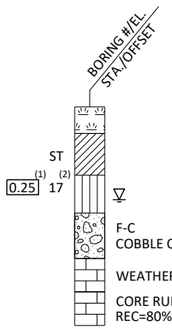




MATERIAL SYMBOLS

ASPHALT, TOPSOIL, PEAT, CONCRETE, FILL, GRAVEL, SAND, CLAY, SILT, BOULDERS OR COBBLES, LIMESTONE, BEDROCK (UNKNOWN), SHALE, SANDSTONE, IGNEOUS/META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

AT TIME OF DRILLING
END OF DRILLING
AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

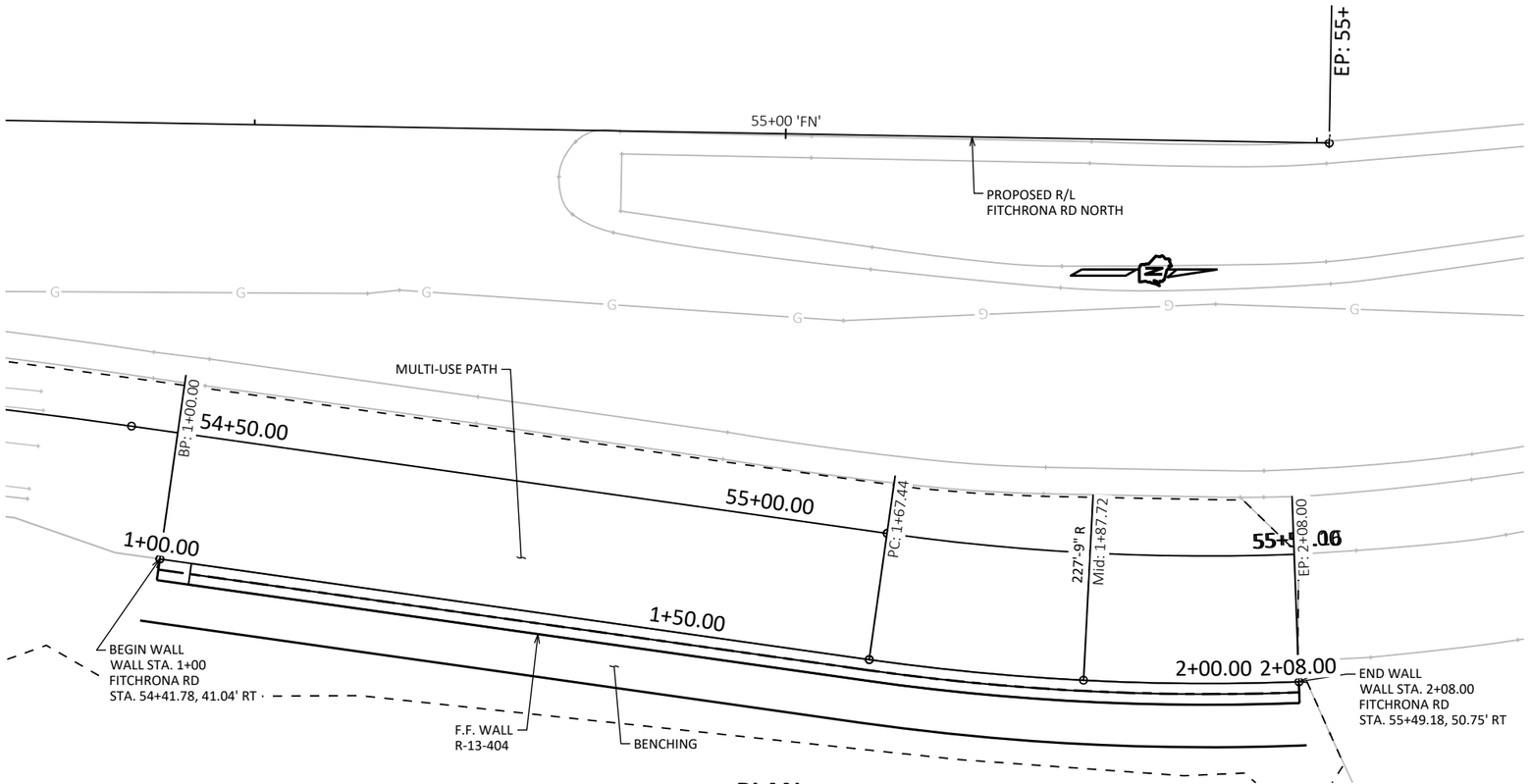
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R-13-403
FITCHRONA ROAD

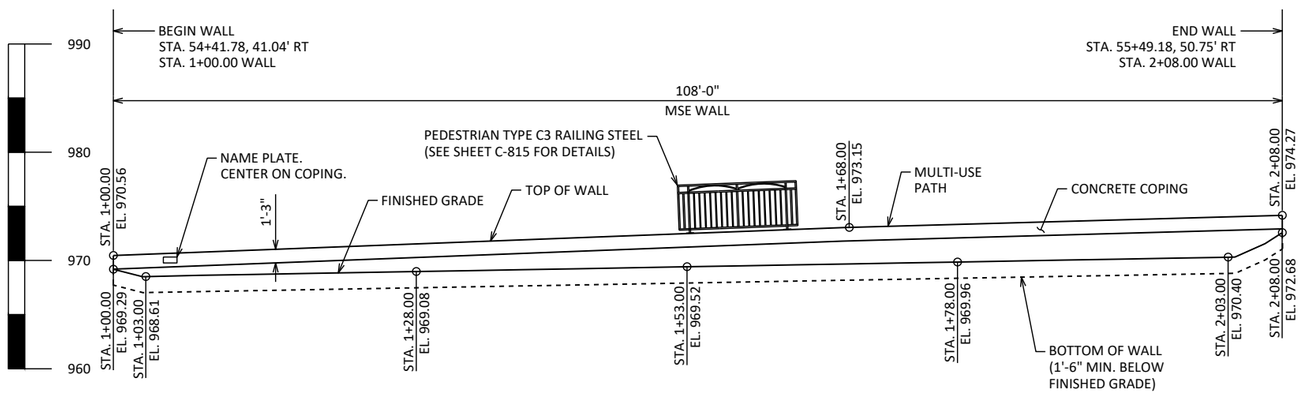
SCALE: ##########
DATE: JULY 2024
REVISION: 100% PLAN SET

PROJECT NO.: 60703122
SHEET NO.: C-812

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\400_Technical\480_Structures\CAD\Soil Nail Walls\Military Ridge State Trail\12_MRST_subsurface exploration.dwg Layout: C-812 User: Collins,J Plotted: Jul 12, 2024 - 4:30pm



PLAN



ELEVATION

LOOKING WEST AT F.F. WALL.
STATIONS SHOWN ARE WALL STATIONS.
STATIONS AND ELEVATIONS SHOWN ARE ALONG F.F. OF WALL.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE NOTED.

THE PLAN QUANTITY FOR THE BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH R-13-404" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

BLOCK FACE SHALL HAVE THE APPEARANCE OF REDI-ROCK LEDGESTONE OR APPROVED EQUAL. WALL CONCRETE STAINING COLOR TO BE FEDERAL COLOR NO. 33448. COPING CONCRETE STAINING COLOR TO BE FEDERAL COLOR NO. 26134.

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALL IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH R-13-404".

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE GRADES AND CROSS SECTIONS PROVIDED ON THIS DETAIL.

DESIGN FOR THE RETAINING WALL TO PROVIDE FOR THE FINISHED SLOPE BEHIND THE WALL AS SHOWN ON THE CROSS SECTIONS.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

DESIGN RETAINING WALL FOR LIVE LOAD SURCHARGE OF 240 PSF, AND ADDITIONAL LIVE LOAD APPLIED BY RAILING.

ALLOWABLE SOIL BEARING CAPACITY = 4000 PSF.

GEOMETRY TABLE

	FITCHRONA ROAD STATION	FITCHRONA ROAD OFFSET	WALL STATION	TOP OF WALL ELEVATION	FINISHED GROUND ELEVATION
BEGIN WALL	54+41.04	41.04' RT	1+00.00	970.56	969.29
	54+44.75	41.41' RT	1+03.00	970.67	968.61
	54+69.56	44.49' RT	1+28.00	971.62	969.08
	54+94.37	47.58' RT	1+53.00	972.58	969.52
PC	55+08.70	49.36' RT	1+64.44	973.00	969.72
	55+19.39	50.44' RT	1+78.00	973.43	969.96
MID	55+28.48	50.95' RT	1+84.22	973.61	970.07
	55+44.19	50.97' RT	2+03.00	974.13	970.40
END WALL	55+49.18	50.75' RT	2+08.00	974.27	972.68

LIST OF DRAWINGS

C-813. GENERAL PLAN & ELEVATION
C-814. QUANTITIES & WALL DATA
C-815. RAILING DETAILS
C-816. SUBSURFACE EXPLORATION

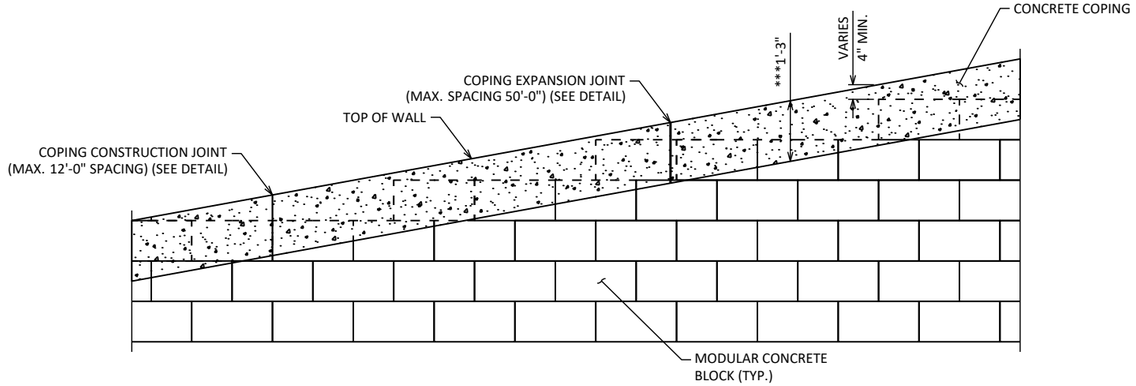
THE CITY OF Fitchburg PUBLIC WORKS

R-13-404
FITCHRONA ROAD

SCALE: ##########
DATE: JULY 2024
REVISION: 100% PLAN SET

PROJECT NO.: 60703122
SHEET NO.: C-813

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\400_Technical\480_Structures\CAD\Modular Block Walls\North Wall\13_blockwall_genplan.dwg Layout: C-813 User: CollinsJ Plotted: Jul 12, 2024 - 4:45pm



RETAINING WALL FACE & CONCRETE COPING

MSE WALL EXTERNAL STABILITY EVALUATION

DIMENSIONS		
WALL HEIGHT (FEET)	6.0	6.5
EXPOSED WALL HEIGHT (FEET)	4.5	5.0
WALL STATION	± 1+00	± 1+50
MINIMUM LENGTH OF REINFORCED ZONE (FEET)	8	8
◩ BORING USED	B-21	B-21
CAPACITY OF DEMAND RATIO (CDR)		
SLIDING CDR (≥ 1.0)	1.67	1.56
OVERTURNING CDR (≥ 1.0)	4.71	4.13
BEARING CDR (≥ 1.0)	2.86	2.67
GLOBAL STABILITY CDR (≥ 1.0)	---	1.99

◩ THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCEMENT LENGTHS BASED UPON THE MINIMUM DESCRIBED IN THE WALL SYSTEM SPECIAL PROVISIONS OR EXTERNAL AND OVERALL STABILITY AT THE DESIGNATED LOCATIONS. THE DESIGNATED LOCATIONS REPRESENT TYPICAL AND CRITICAL WALL LOCATIONS, BUT SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR DESIGN LENGTHS SHALL MEET OR EXCEED THE MINIMUM VALUES REPRESENTED IN THE TABLE AT THESE DESIGNATED LOCATIONS.

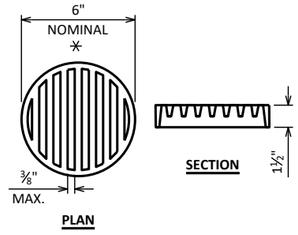
SOIL PARAMETERS

SOIL DESCRIPTION	UNIT WEIGHT (pcf)	FRICTION ANGLE (°)	COHESION (psf)
EMBANKMENT FILL/RETAINED SOIL	120	30	0
BACKFILL SOIL (REINFORCED ZONE)	120	32	0
MEDIUM DENSE TO DENSE SAND AND GRAVEL EL. 973.0' - EL. 966.5'	125	35	0
MEDIUM DENSE SAND EL. 966.5' - EL. 948.0'	125	33	0

TOTAL ESTIMATED QUANTITIES

RETAINING WALL BID AS A LUMP SUM
FOR INFORMATION PURPOSES ONLY

BID ITEM 942: MODULAR BLOCK WALL R-13-404			
WISDOT STD. ITEM	WISDOT STD. ITEM DESCRIPTION	UNIT	TOTALS
513.8016	RAILING STEEL PEDESTRIAN TYPE C3	LF	108
517.1010.S	CONCRETE STAINING STRUCTURE R-13-404	SF	690
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	130
SPV.0165	WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH R-13-404	SF	480
	NON-BID ITEMS		
	PREFORMED JOINT FILLER	SIZE	½", ¾"
	EXPANDED POLYSTYRENE	SIZE	1"

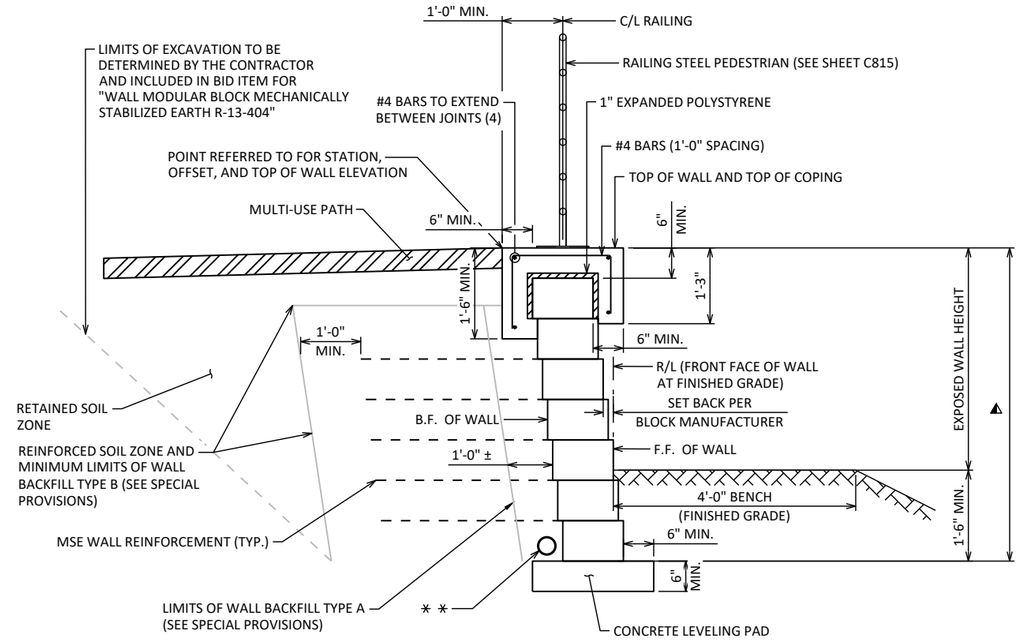


RODENT SHIELD DETAIL

⚹ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



TYPICAL SECTION OF RETAINING WALL

STA. 1+00.00 - STA. 2+08.00 (LOOKING NORTH)

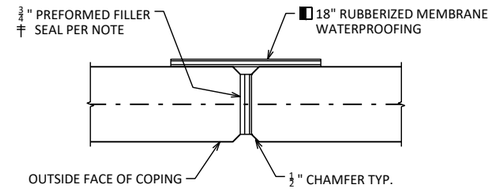
⚹ ⚹ PIPE UNDERDRAIN, WRAPPED 6-INCH, SLOPE 0.5% MIN. TO SUITABLE DISCHARGE.

⚹ ⚹ ⚹ THIS DIMENSION MAY CHANGE DEPENDING ON HEIGHT OF BLOCKS. THIS DIMENSION TO BE CONSTANT FOR ENTIRE LENGTH OF WALL.

⚠ PAY LIMITS FOR BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH R-13-404" AND "CONCRETE STAINING STRUCTURE R-13-404"

NOTES:
MAINTAIN 2" MINIMUM COVER ON ALL REBAR.

PLACE EXPANSION JOINTS AT EVERY THIRD JOINT AND AT ALL WALL RADIUS PC/PT POINTS AND BEND POINTS.

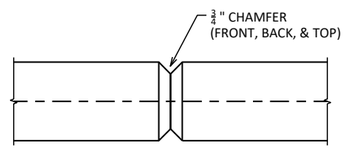


COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT.

◩ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO BOTTOM OF COPING

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)



COPING CONTRACTION JOINT

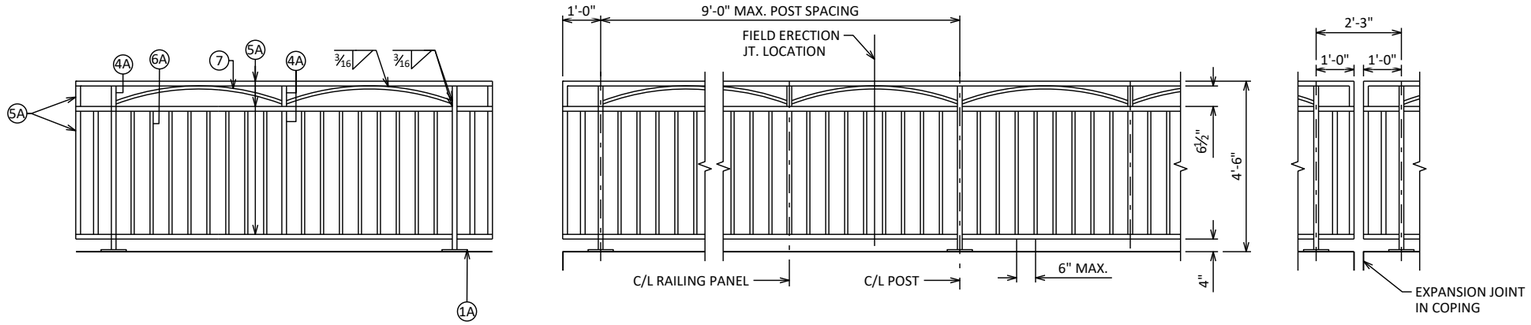
DO NOT RUN BAR STEEL THRU JOINT.

THE CITY OF Fitchburg PUBLIC WORKS

R-13-404
FITCHRONA ROAD

SCALE: ##########
DATE: JULY 2024
REVISION: 100% PLAN SET
PROJECT NO.: 60703122
SHEET NO.: C-814

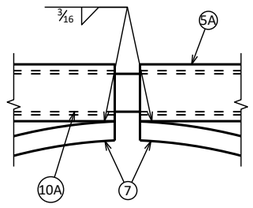
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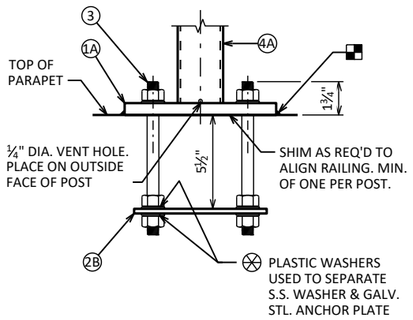
ELEVATION VIEW

LEGEND

- (1A) PLATE ⅝" X 6" X 10" WITH ¾" X 1½" SLOTTED HOLES.
- (2B) ¼" X 5" X 9" ANCHOR PLATE WITH 11/16" DIA. HOLES FOR THR'D RODS NO. 3.
- (3) ⅝" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. ALTERNATIVE ANCHORAGE: CONCRETE ADHESIVE ANCHORS ⅝-INCH. EMBED 7" IN CONCRETE FOR RAIL POSTS. EMBED 5" IN CONCRETE FOR END RAILS. ADHESIVE ANCHORS SHALL CONFORM TO SECTIONS 502.2.12 OF THE STANDARD SPECIFICATIONS.
- (4A) STRUCTURAL TUBING 3" X 3" X 3/16". PLACE VERTICAL. WELD TO NO. 1 & 5.
- (5A) STRUCTURAL TUBING 3" X 1½" X 3/16" RAILS. WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.
- (6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. PLACE VERTICAL.
- (7) BAR 1" X 1". BEND TO REQUIRED RADIUS. WELD TO NO. 4 & 5.
- (9A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. PROVIDE "SLIDING FIT".
- (10A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. (1'-4" @ FIELD ERECTION JTS.) (1'-4" @ STRIP SEAL EXP. JTS.)

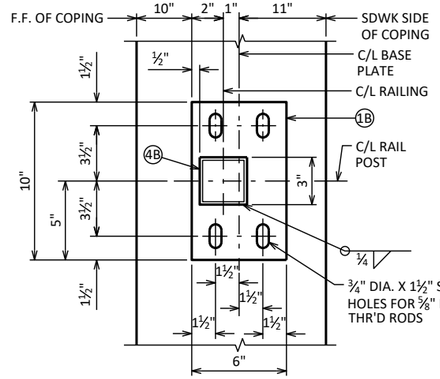


CURVED MEMBER JOINT DETAIL

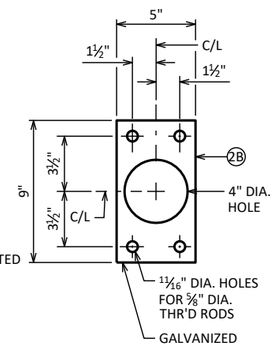


ANCHORAGE FOR RAIL POSTS

NOTE: ANCHOR PLATE NOT REQUIRED WHEN ADHESIVE ANCHORS ARE USED.



TYPICAL RAIL POST BASE PLATE



ANCHOR PLATE

RAILING NOTES

BID ITEM SHALL BE "RAILING STEEL PEDESTRIAN TYPE C3", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT, AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

ALL PLATES, BARS, AND RECTANGULAR SLEEVES SHALL CONFORM TO ASTM A709 GRADE 36. ALL STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

■ CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

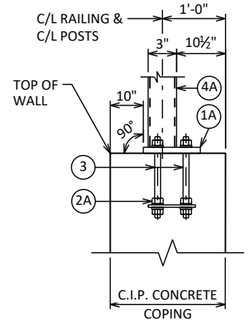
ALL JOINTS AND RECESSES IN CONCRETE PARAPET ARE TO BE VERTICAL.

ALL MATERIAL (EXCEPT NO. 3 & 12) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE RAILING SHALL BE PAINTED AMS STD. COLOR NO. 14090 (GREEN).

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

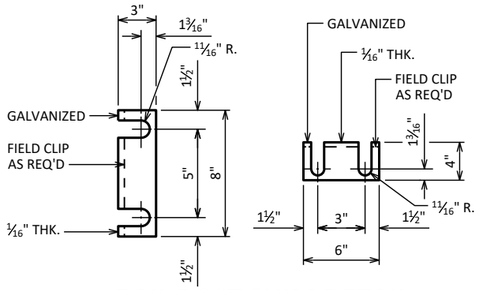
RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.



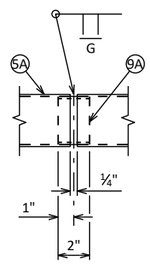
SECTION THRU COPING

ADJUST LOCATIONS OF BARS TO ALLOW PLACEMENT OF ANCHOR ASSEMBLY FOR RAILING.



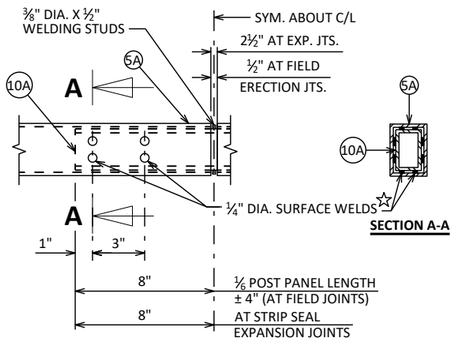
RAIL POST SHIM DETAIL

(2 SETS PER POST)



SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



FIELD ERECTION JOINT DETAIL

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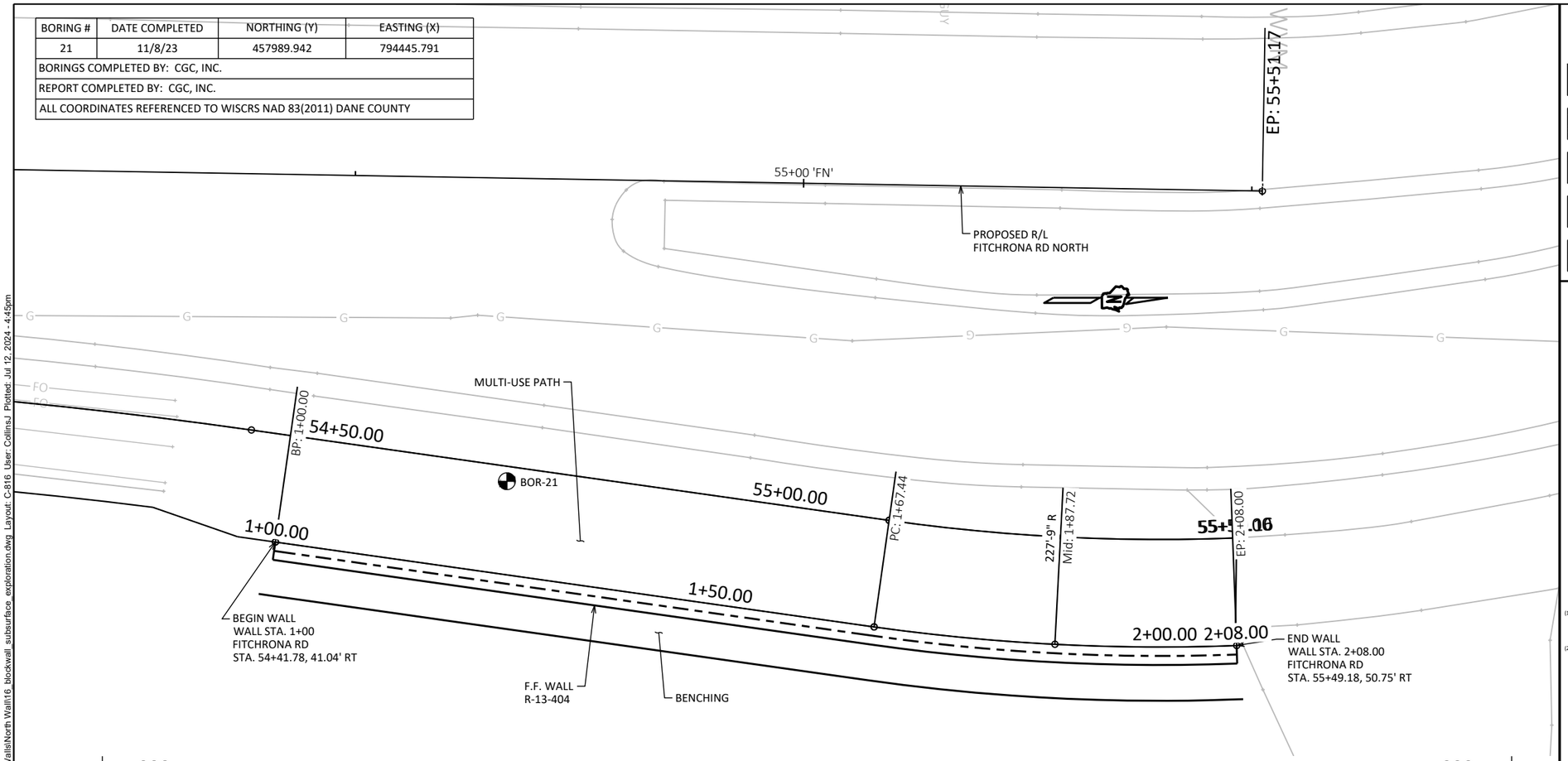
THE CITY OF Fitchburg PUBLIC WORKS

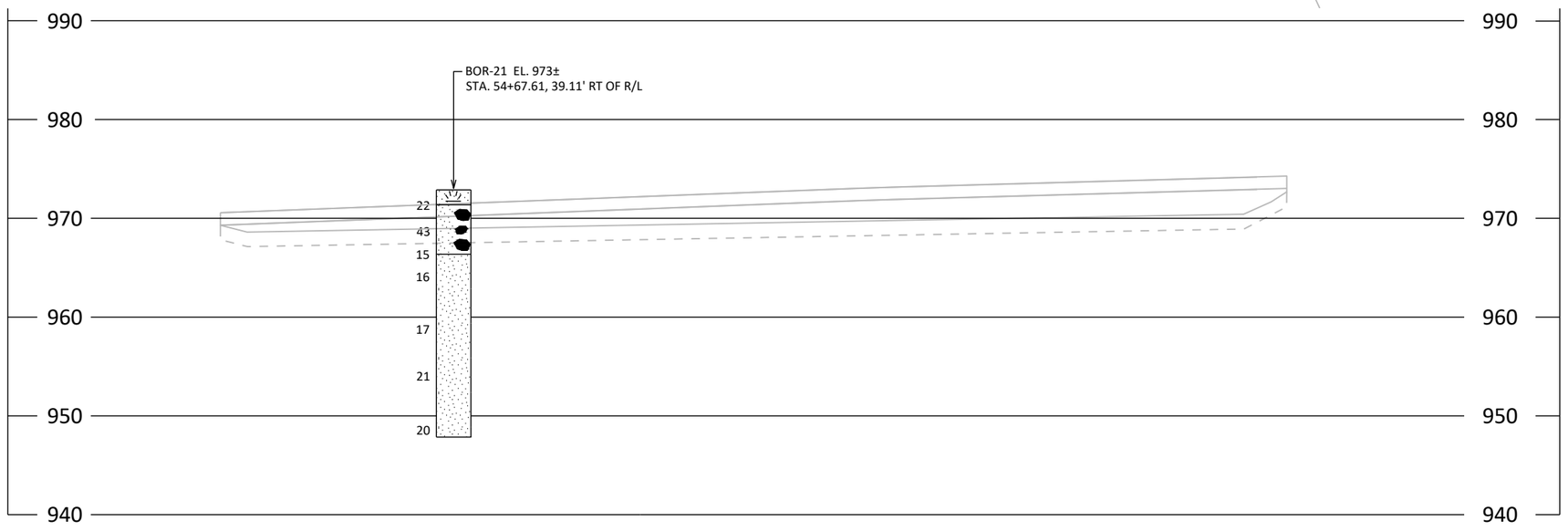
R-13-404
FITCHRONA ROAD

PROJECT NO.: 60703122	SCALE: ##########
SHEET NO.: C-815	DATE: JULY 2024
	REVISION: 100% PLAN SET

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\400_Technical\480_Structures\CAD\Modular Block Walls\North Wall\15 blockwall_type c3 rail.dwg Layout: c815 User: Collins,I Plotted: Jul 12, 2024 - 4:45pm

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
21	11/8/23	457989.942	794445.791
BORINGS COMPLETED BY: CGC, INC.			
REPORT COMPLETED BY: CGC, INC.			
ALL COORDINATES REFERENCED TO WISCRS NAD 83(2011) DANE COUNTY			

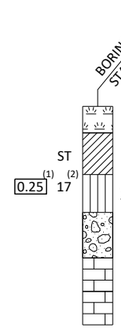




MATERIAL SYMBOLS

ASPHALT, TOPSOIL, PEAT
CONCRETE, FILL, GRAVEL
SAND, CLAY, SILT
BOULDERS OR COBBLES, LIMESTONE, BEDROCK (UNKNOWN)
SHALE, SANDSTONE, IGNEOUS/META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

AT TIME OF DRILLING
END OF DRILLING
AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

THE CITY OF Fitchburg PUBLIC WORKS

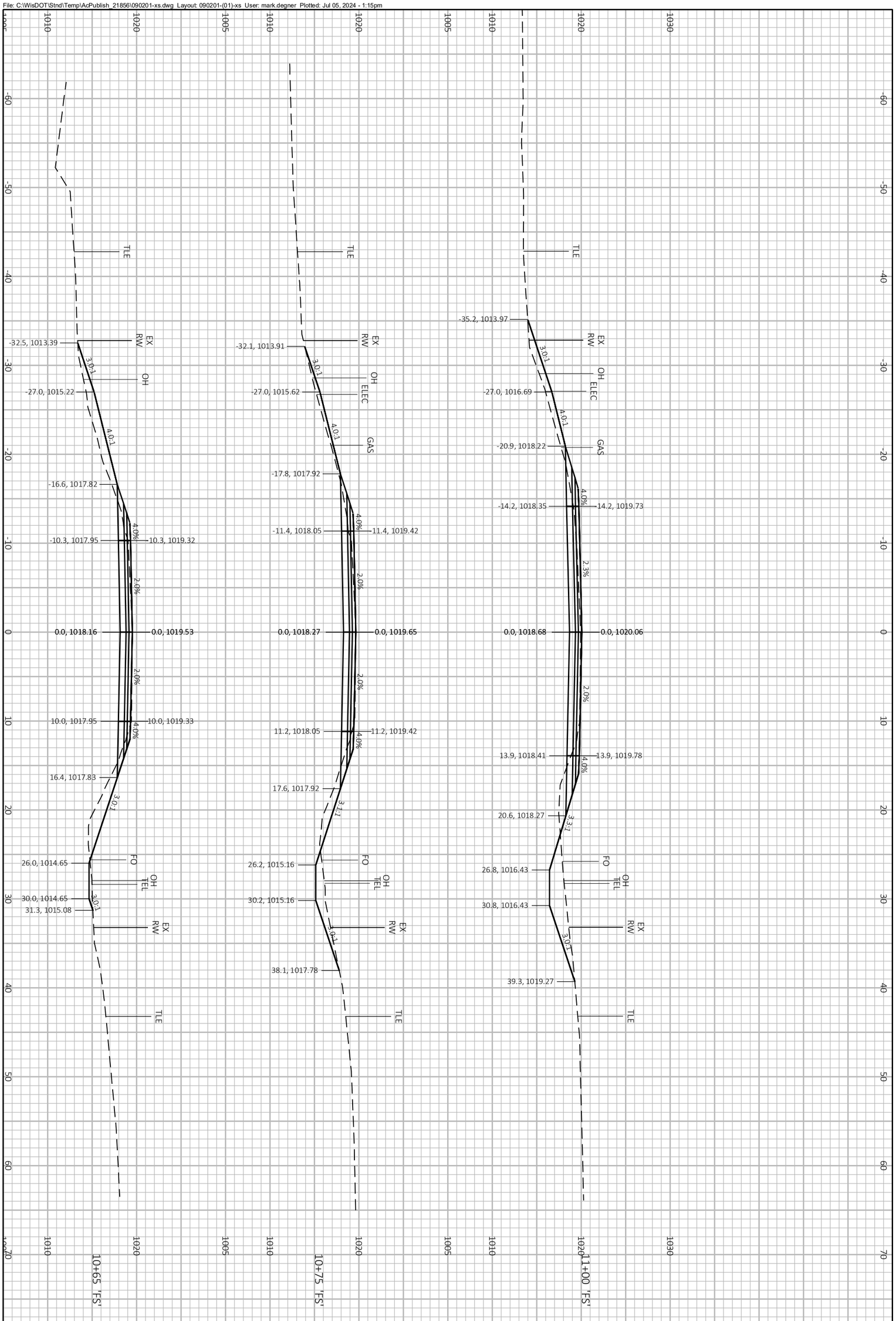
R-13-404
FITCHRONA ROAD

SCALE: ##########
DATE: JULY 2024
REVISION: 100% PLAN SET

PROJECT NO.: 60703122
SHEET NO.: C-816

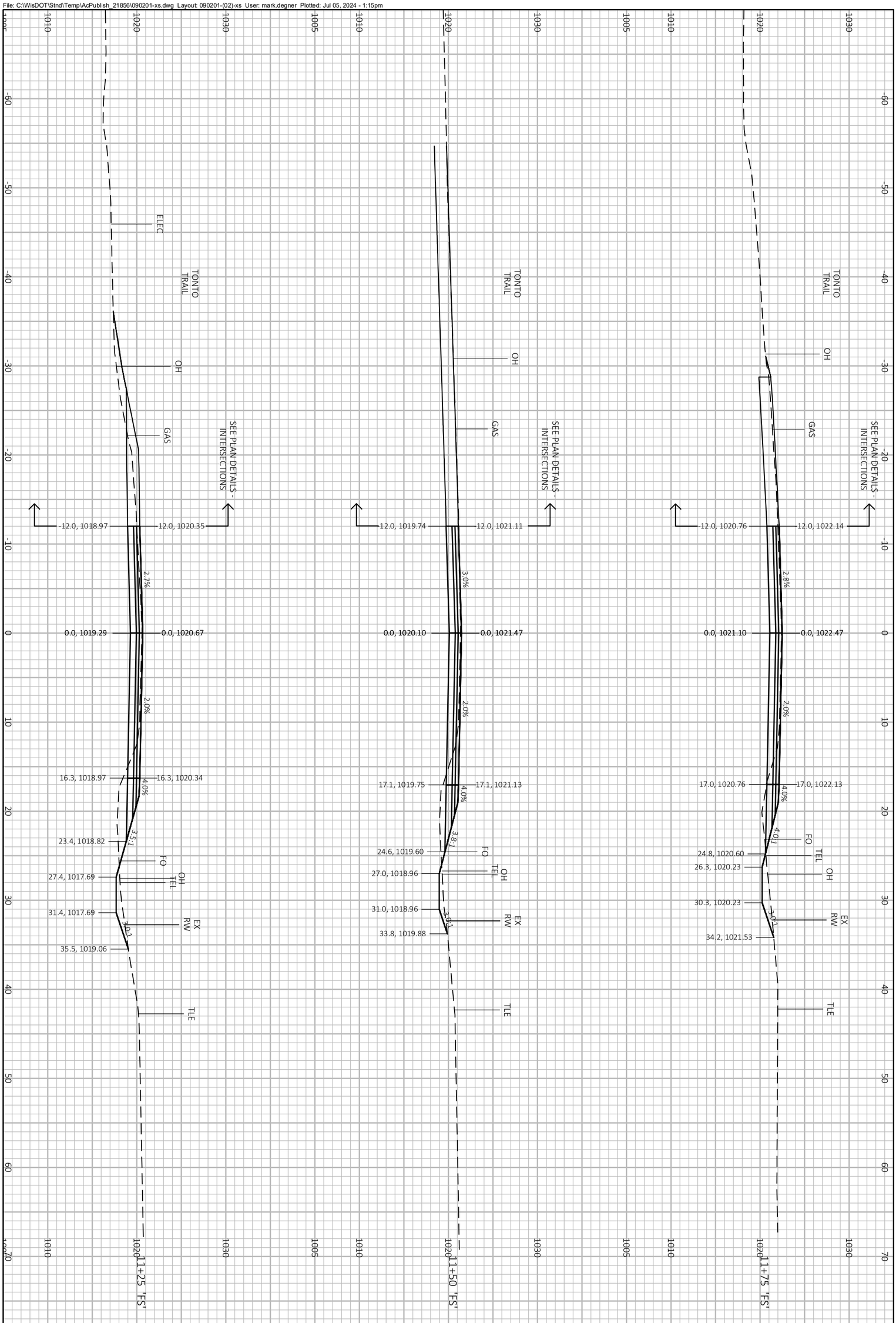
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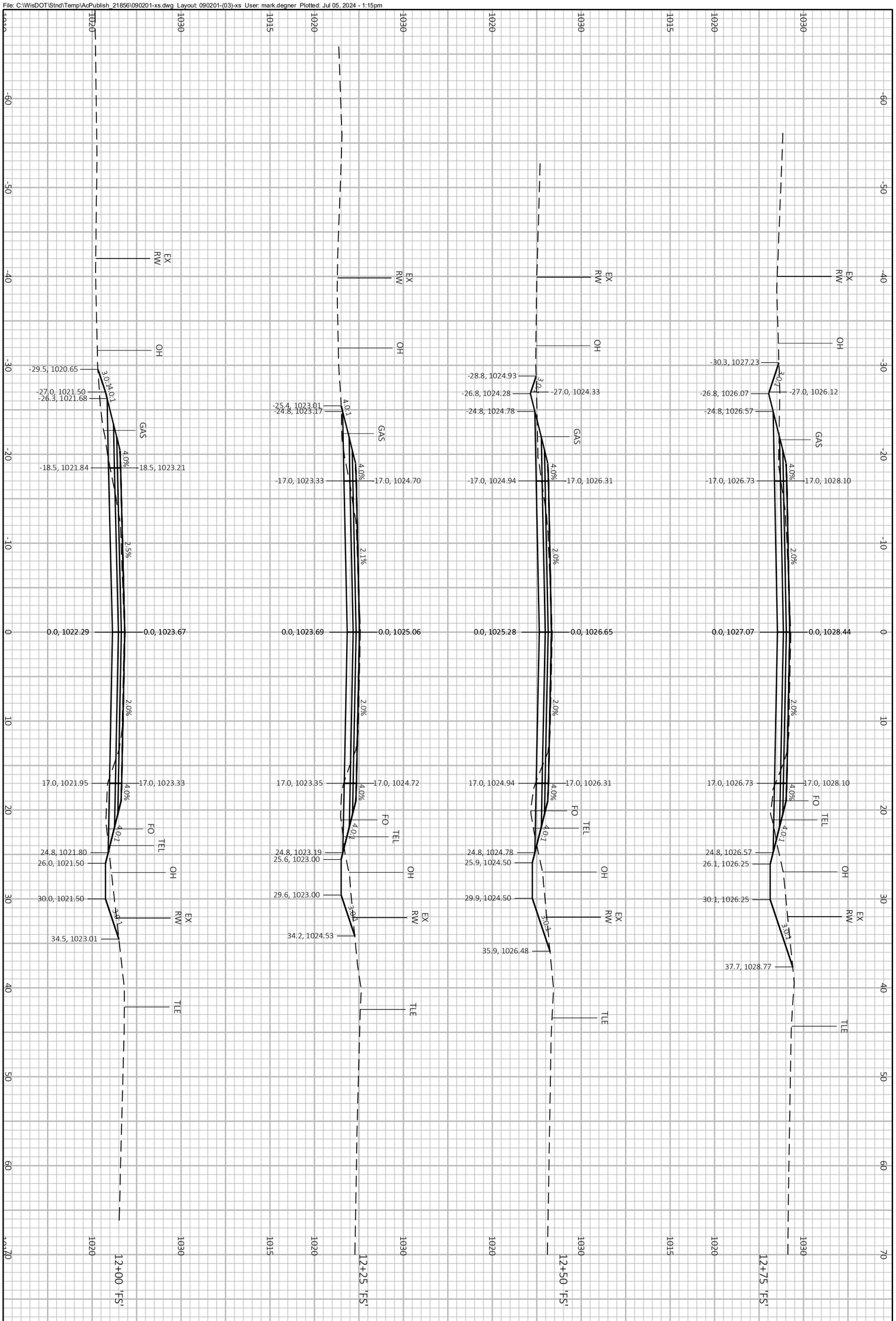
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SHEET NO.: **C-901**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

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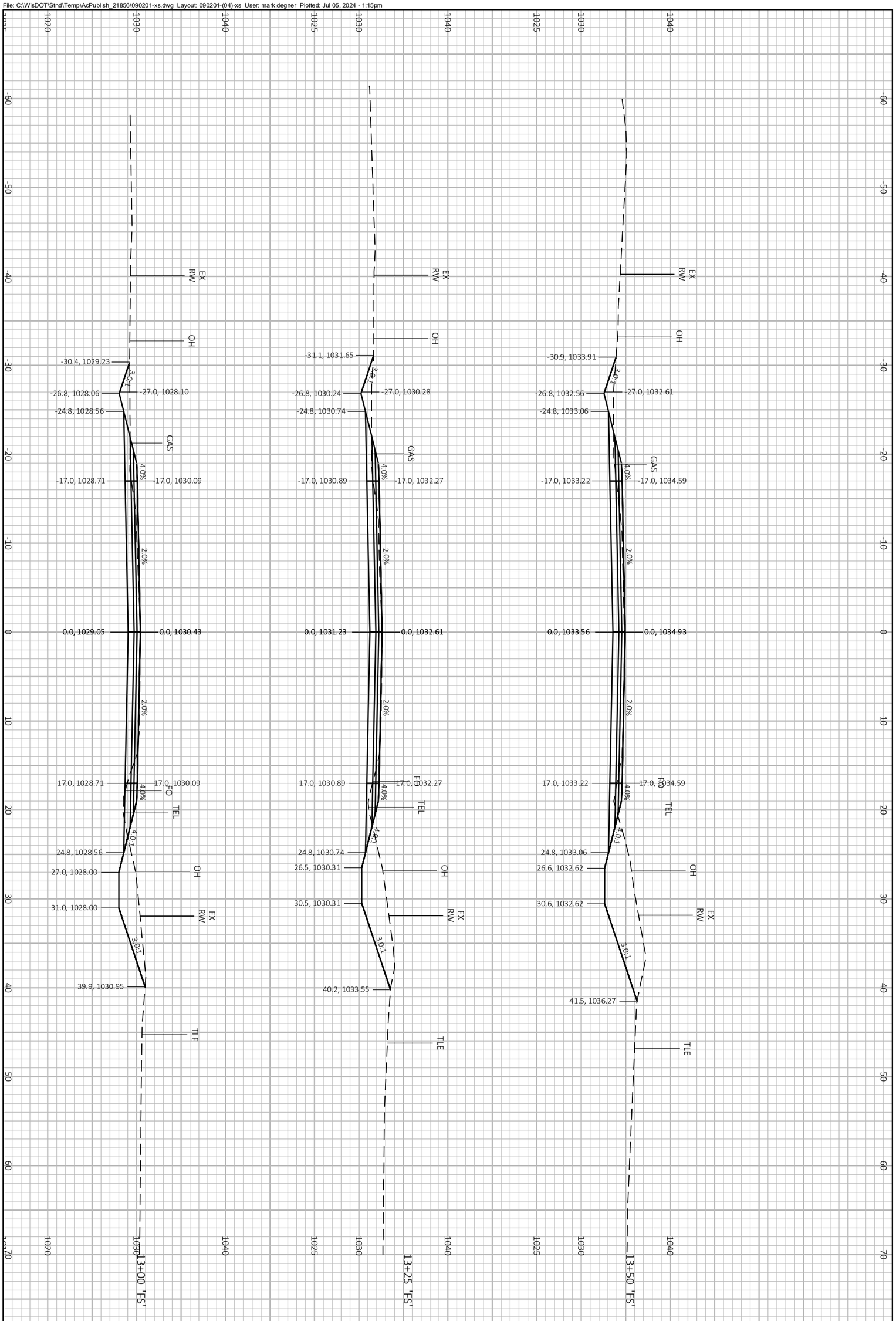
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	REVISION: 100% PLANS		

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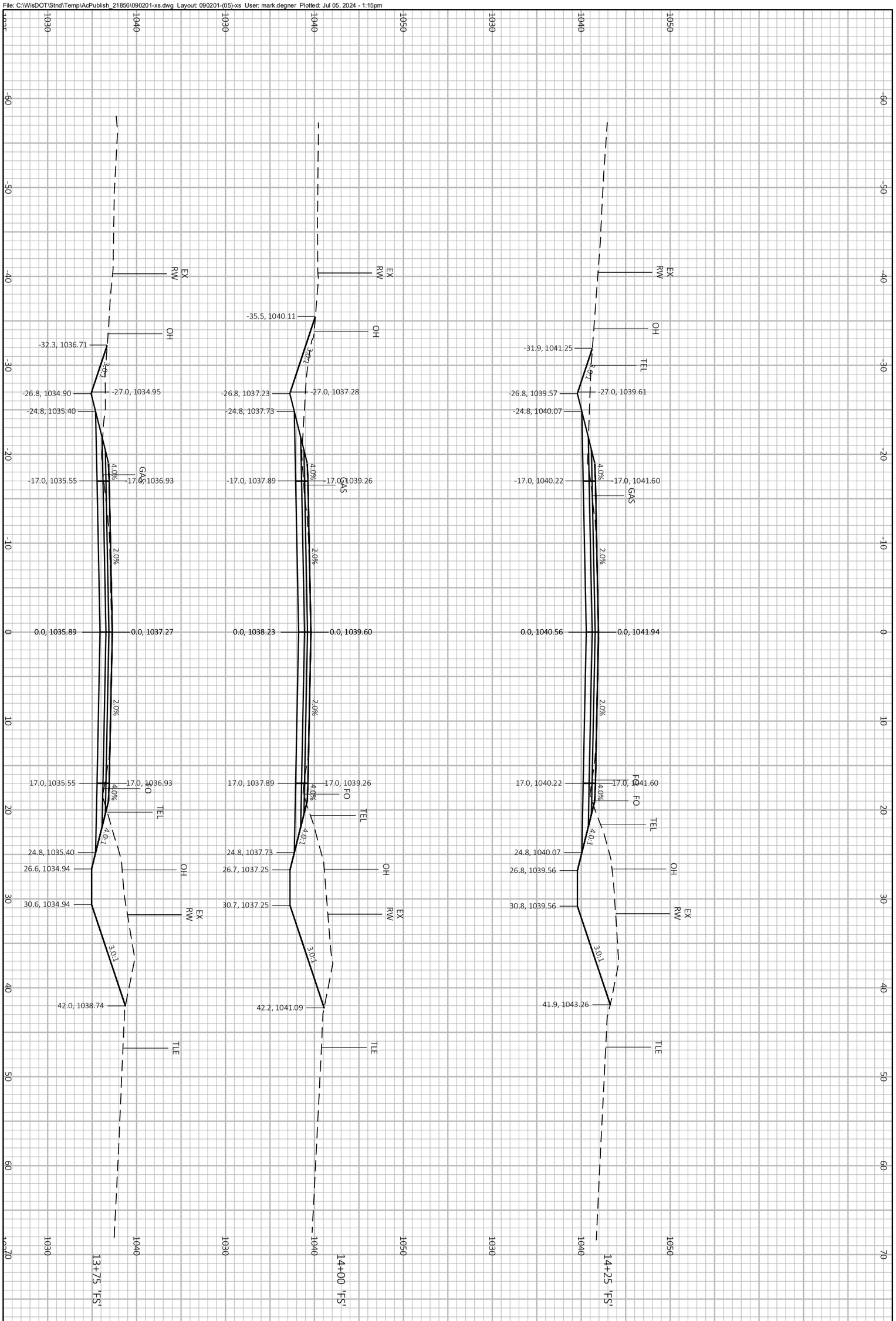
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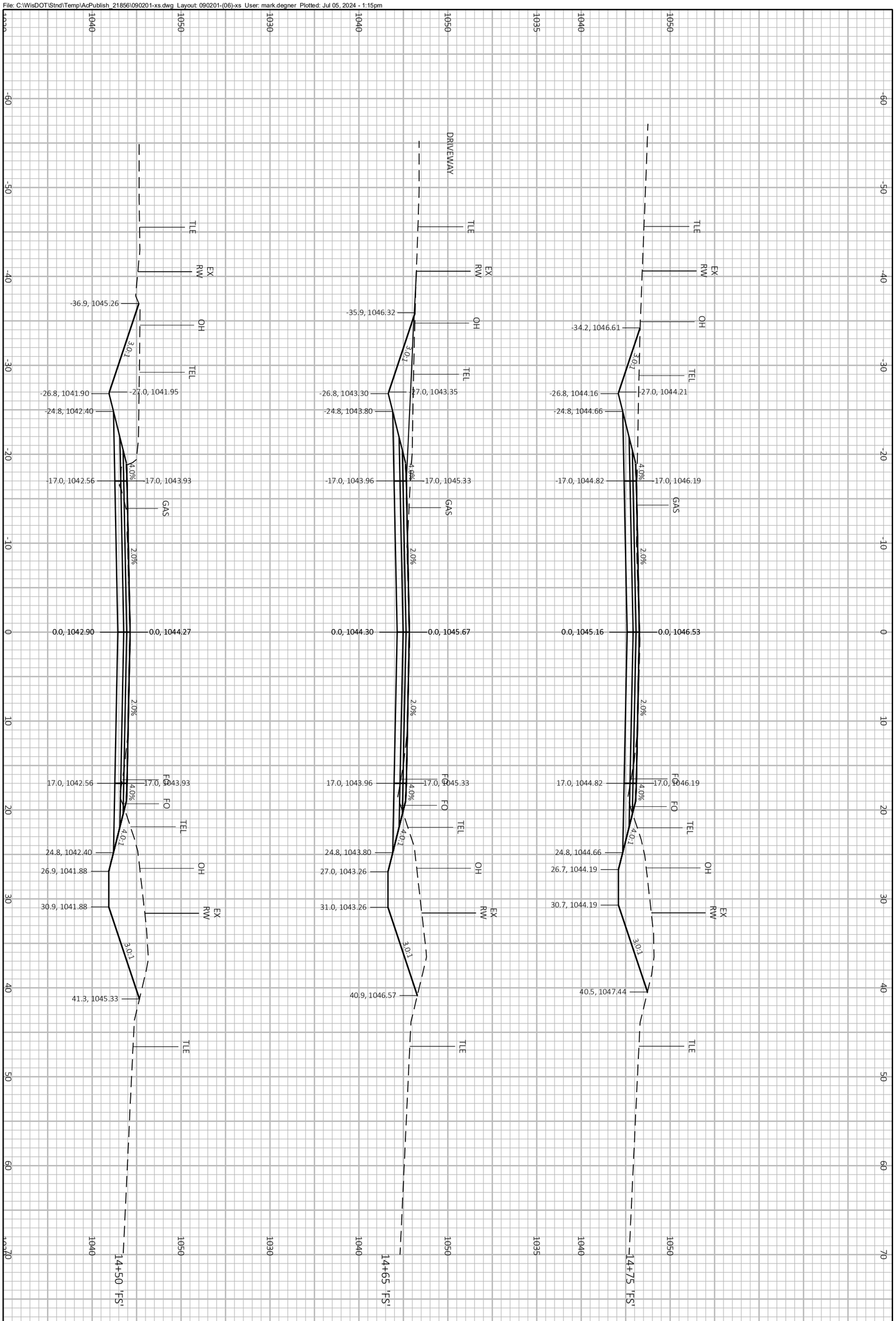
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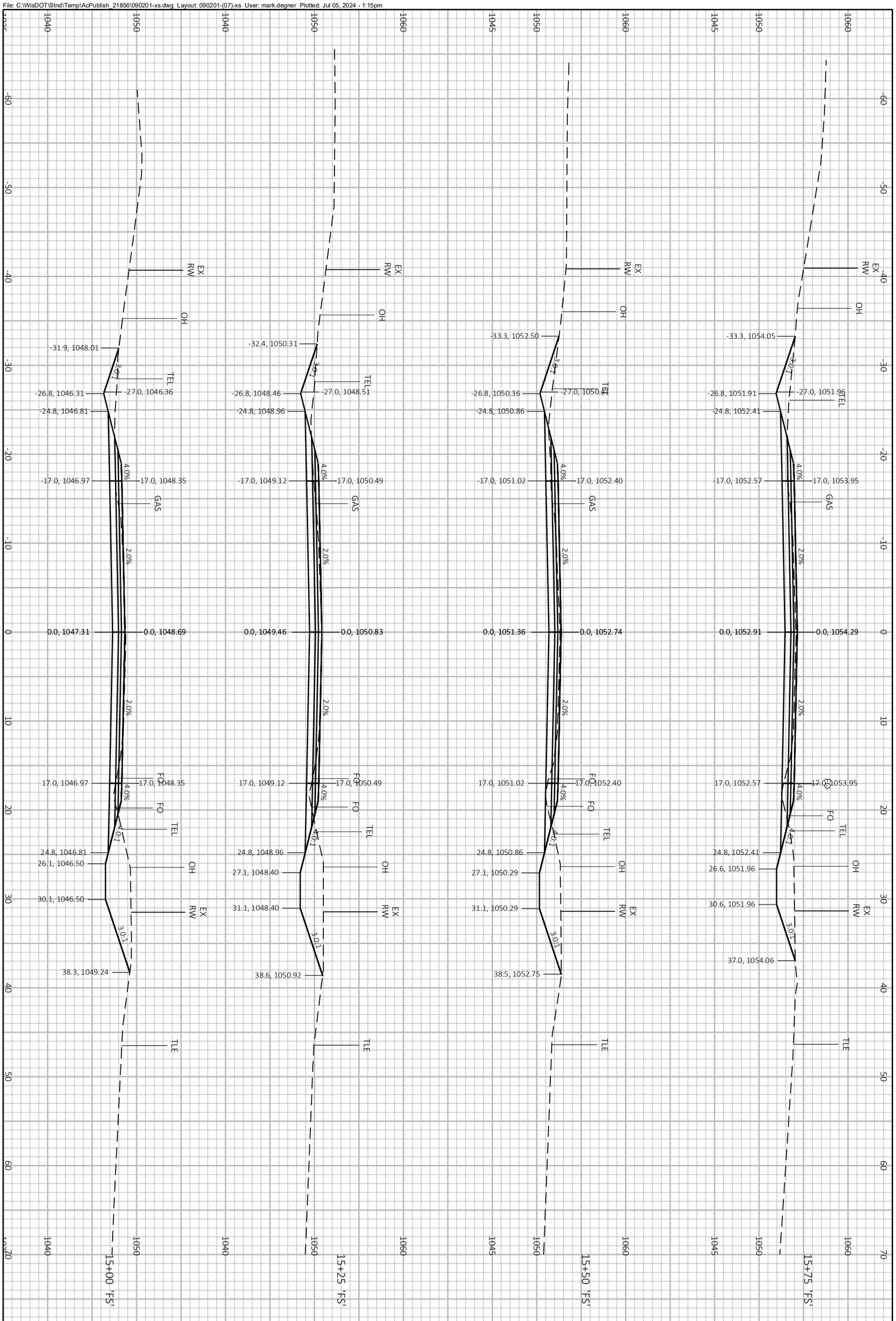
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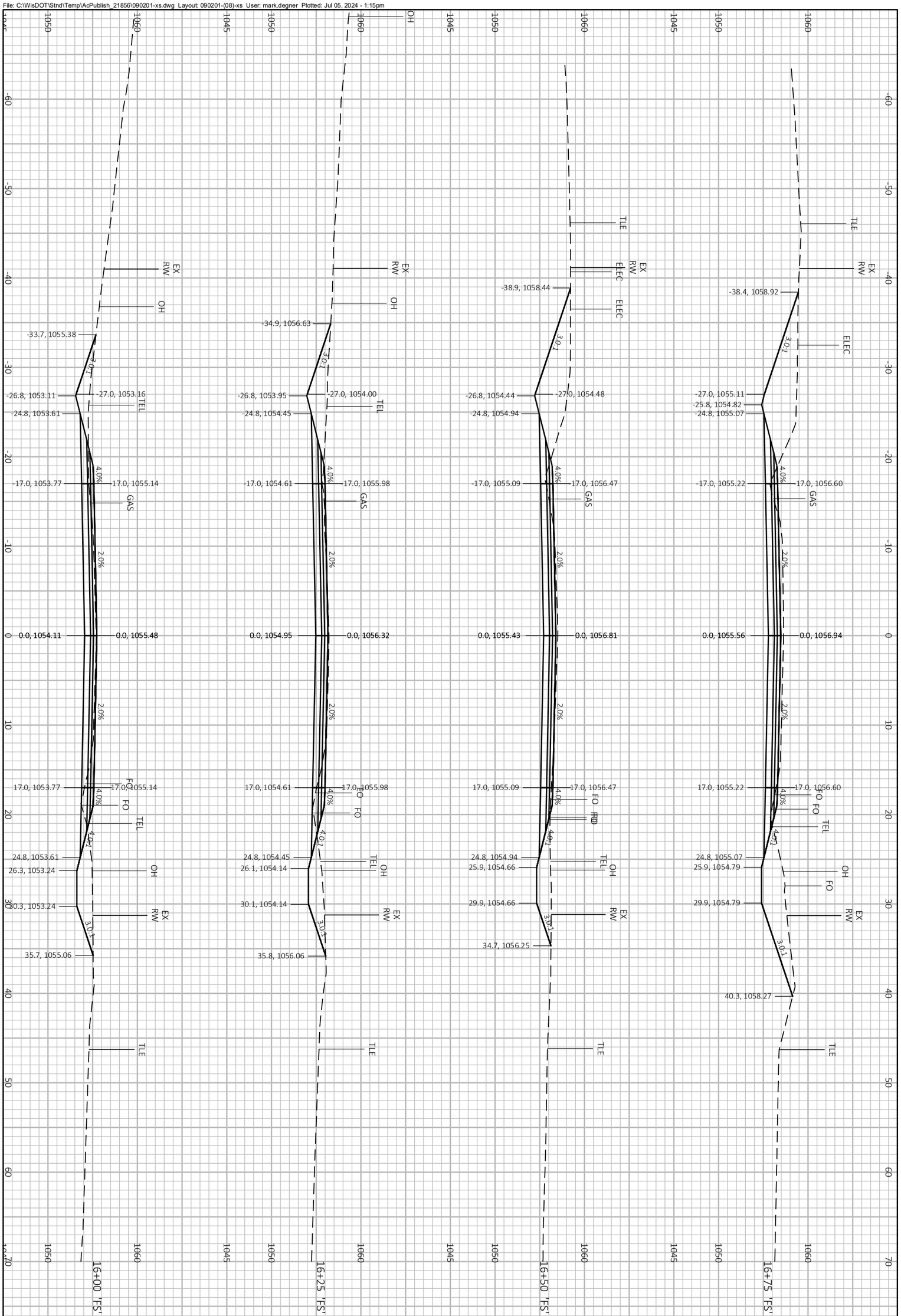
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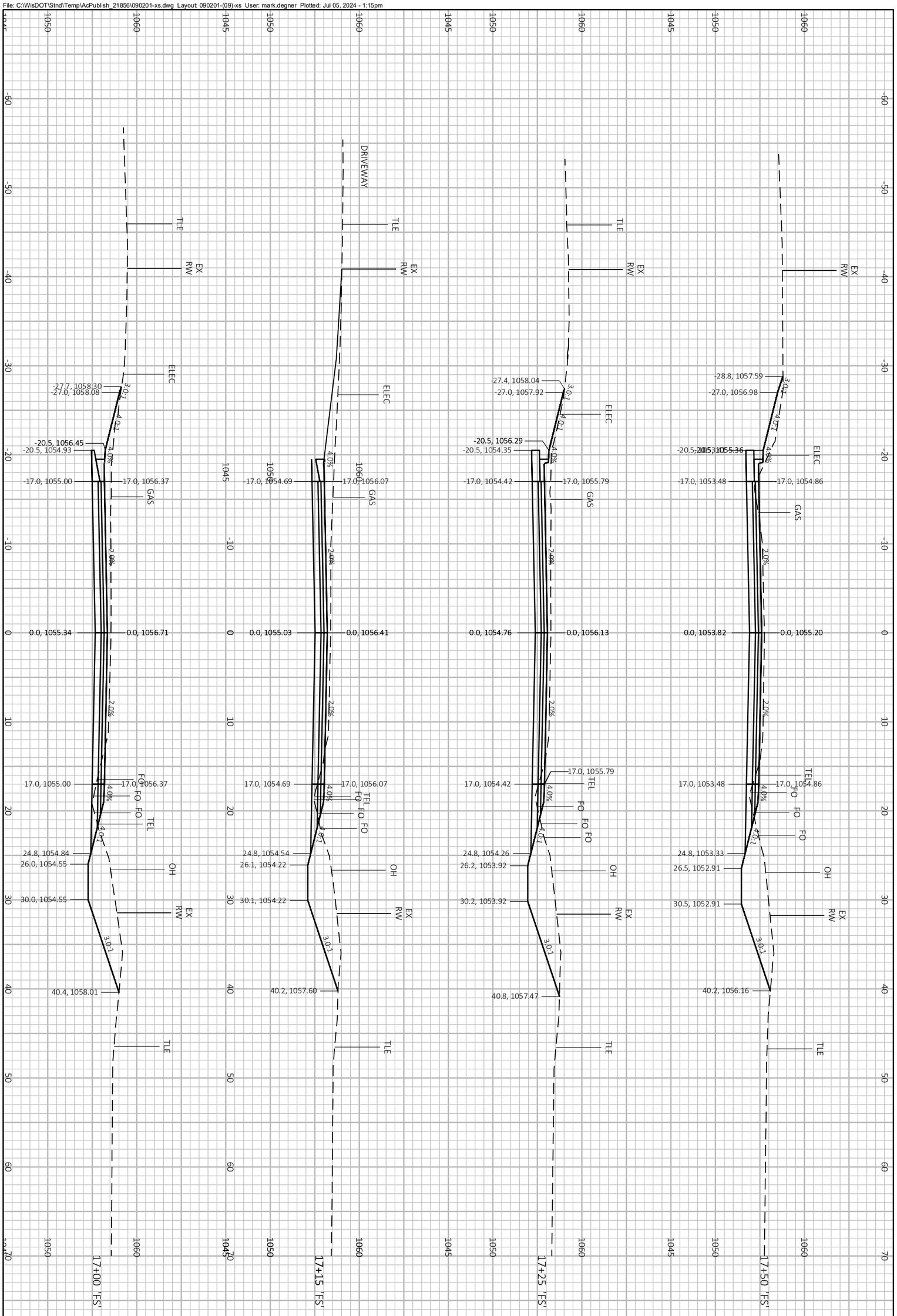
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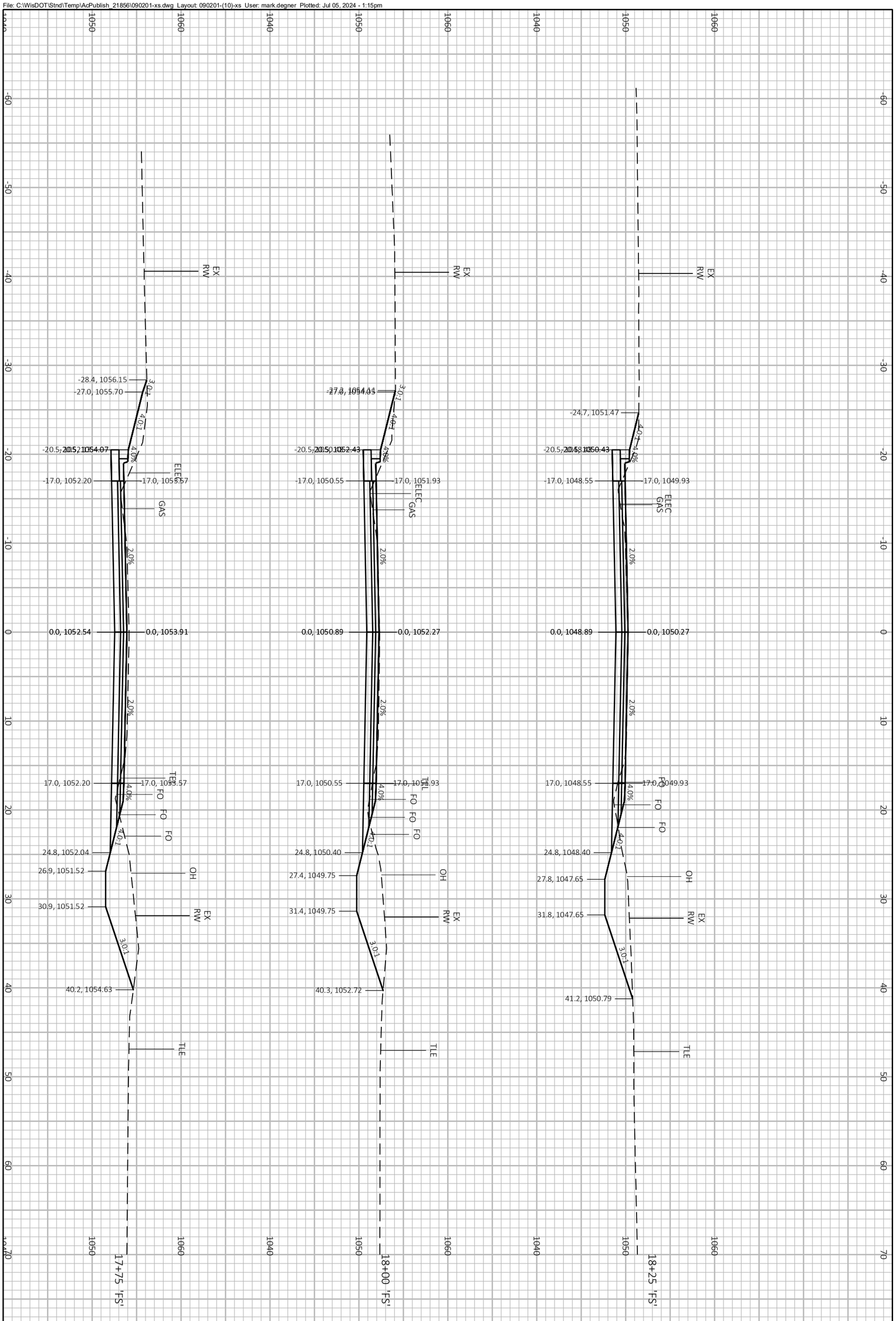
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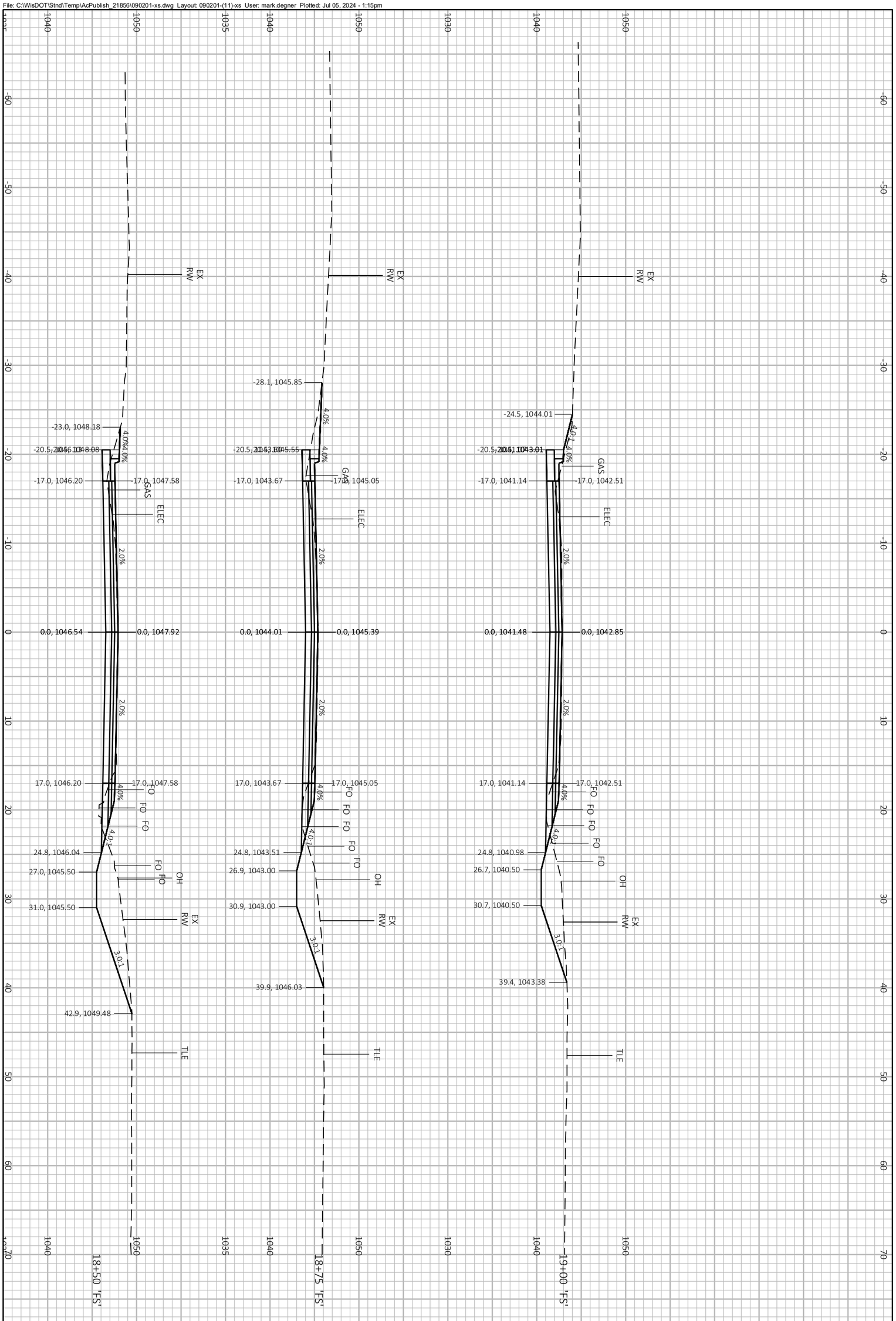
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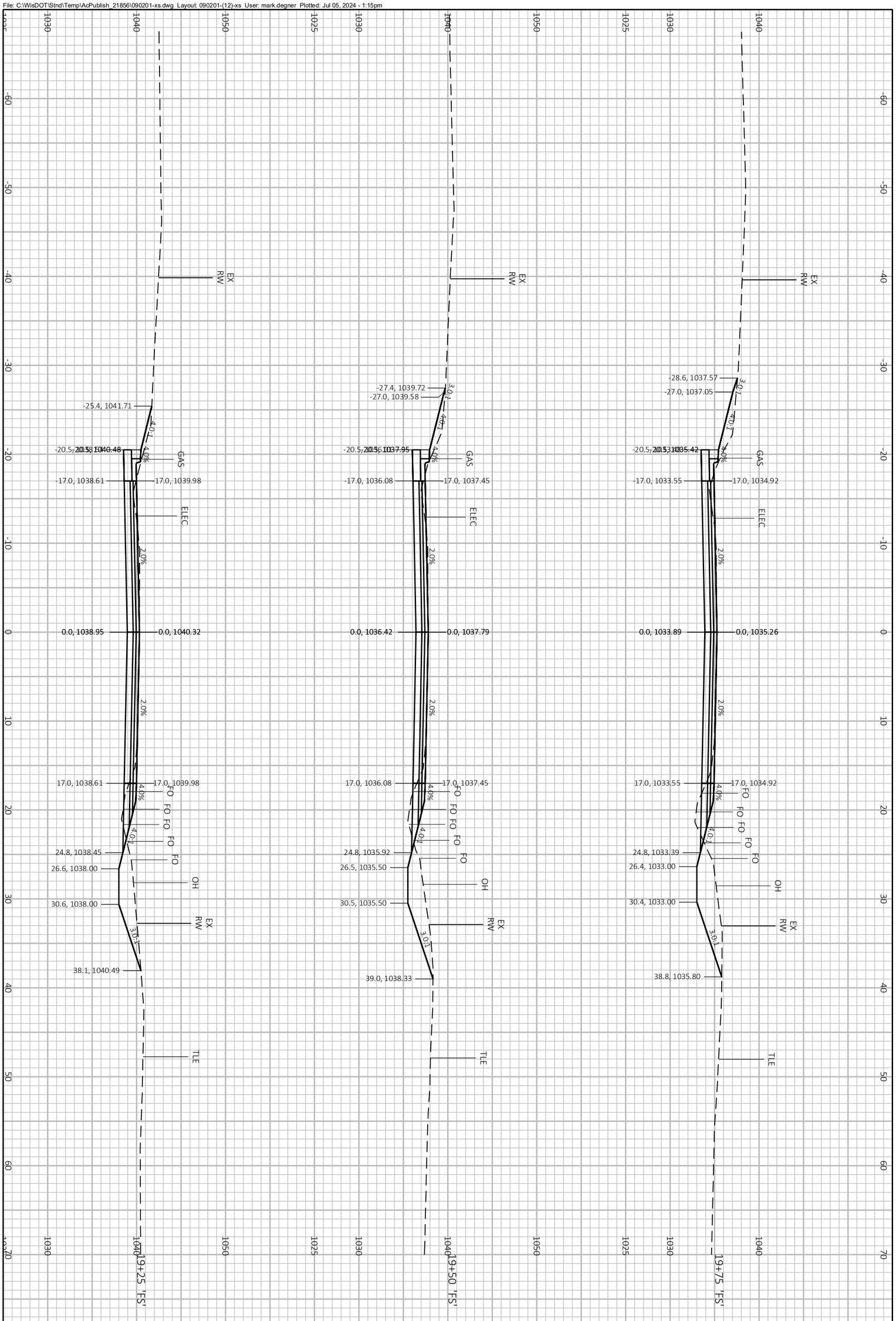
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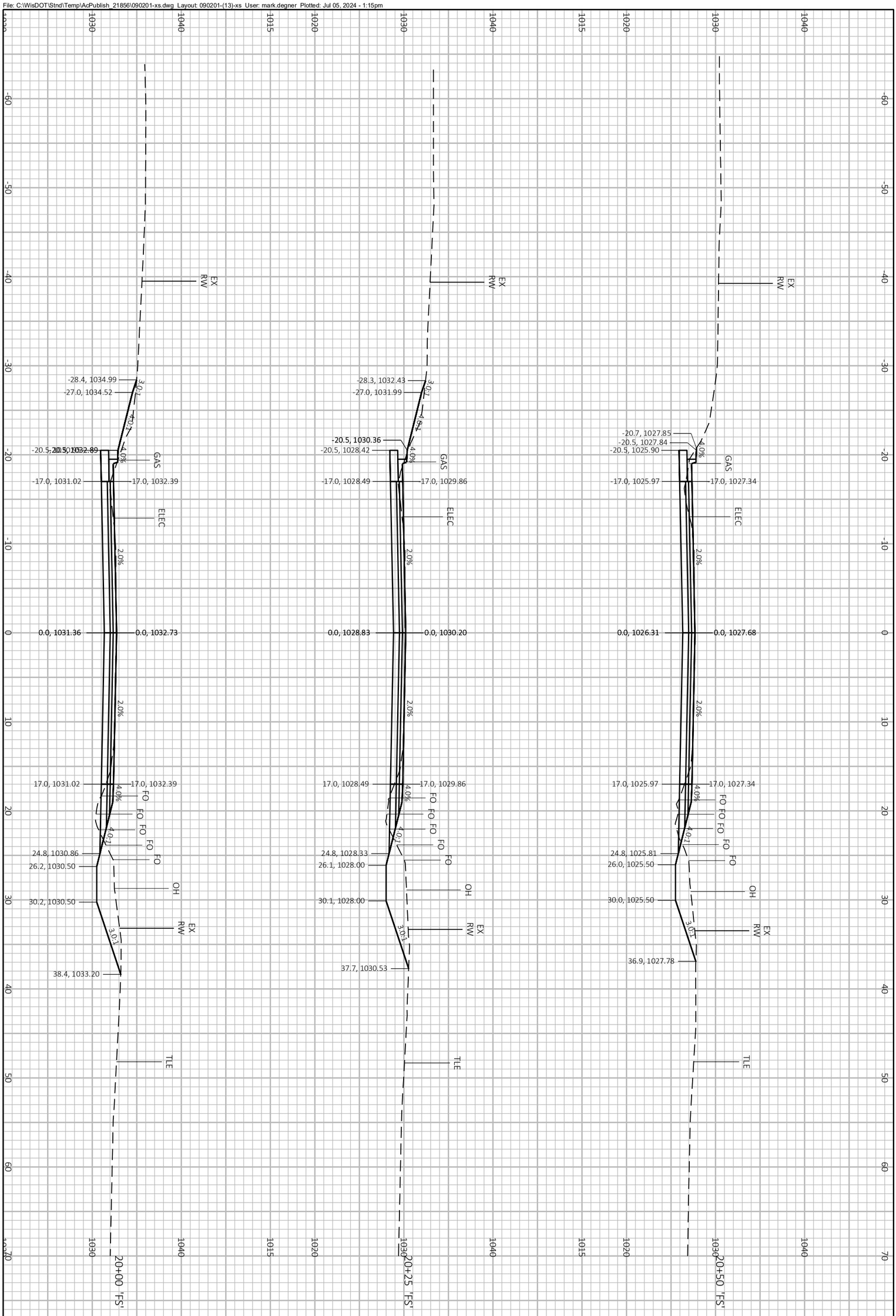
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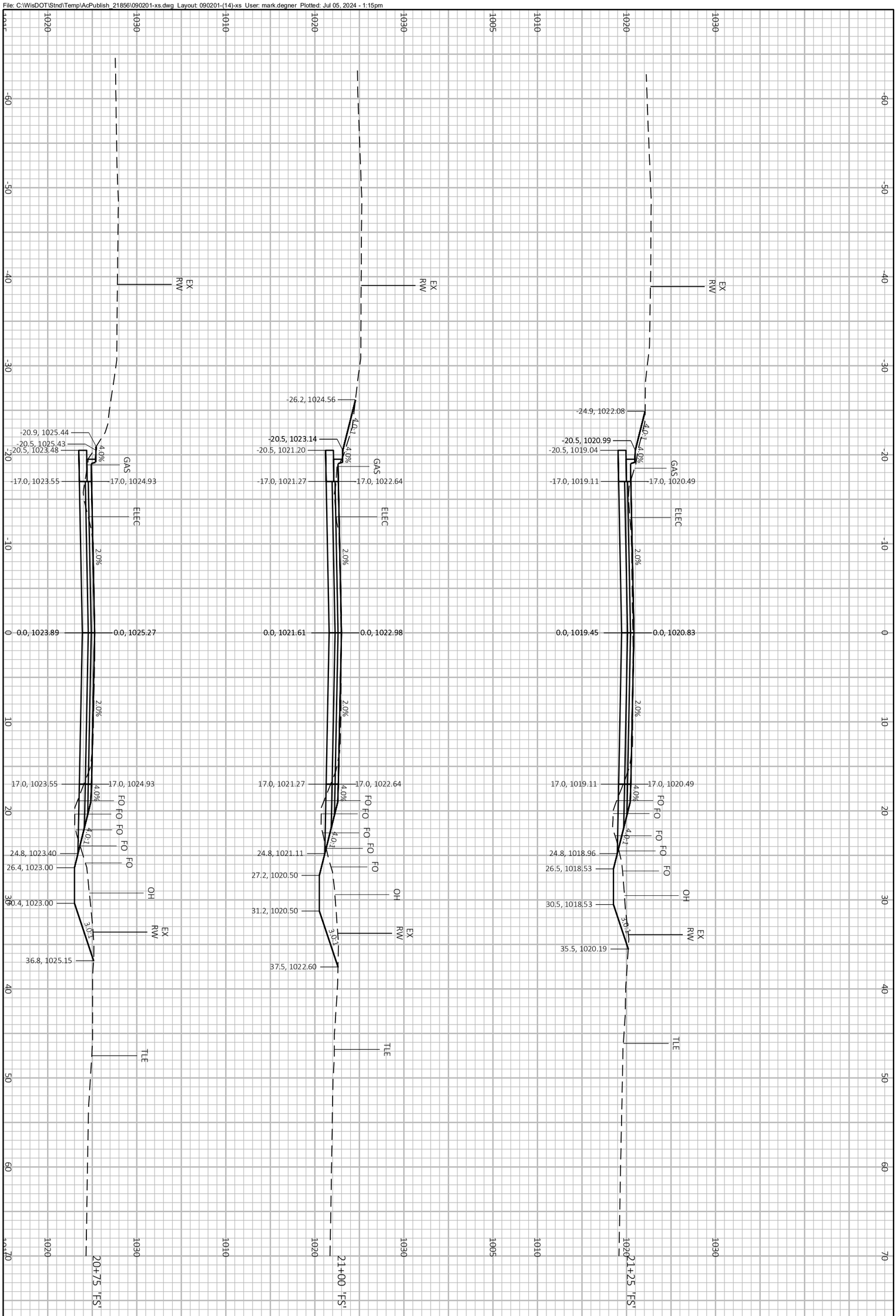
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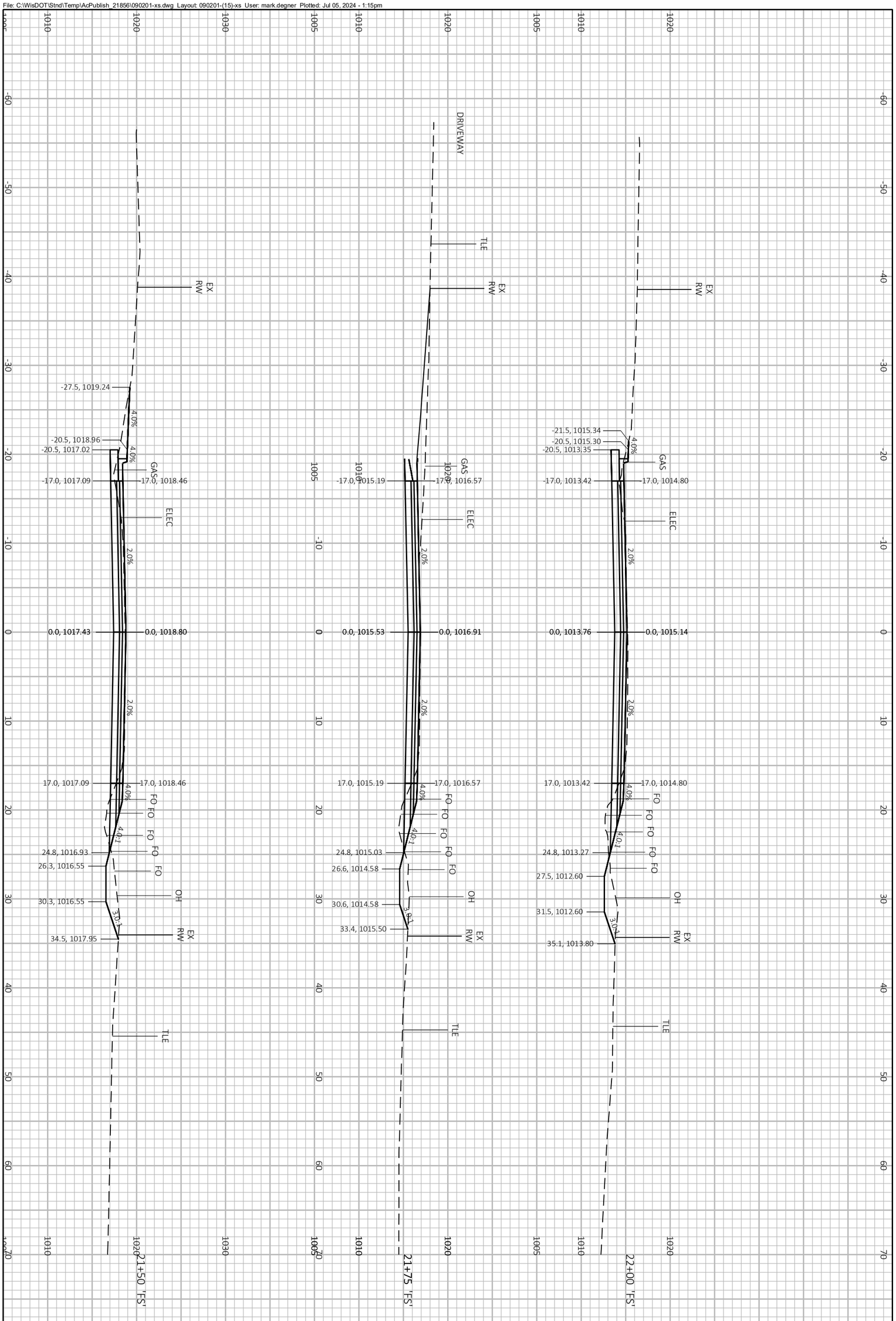
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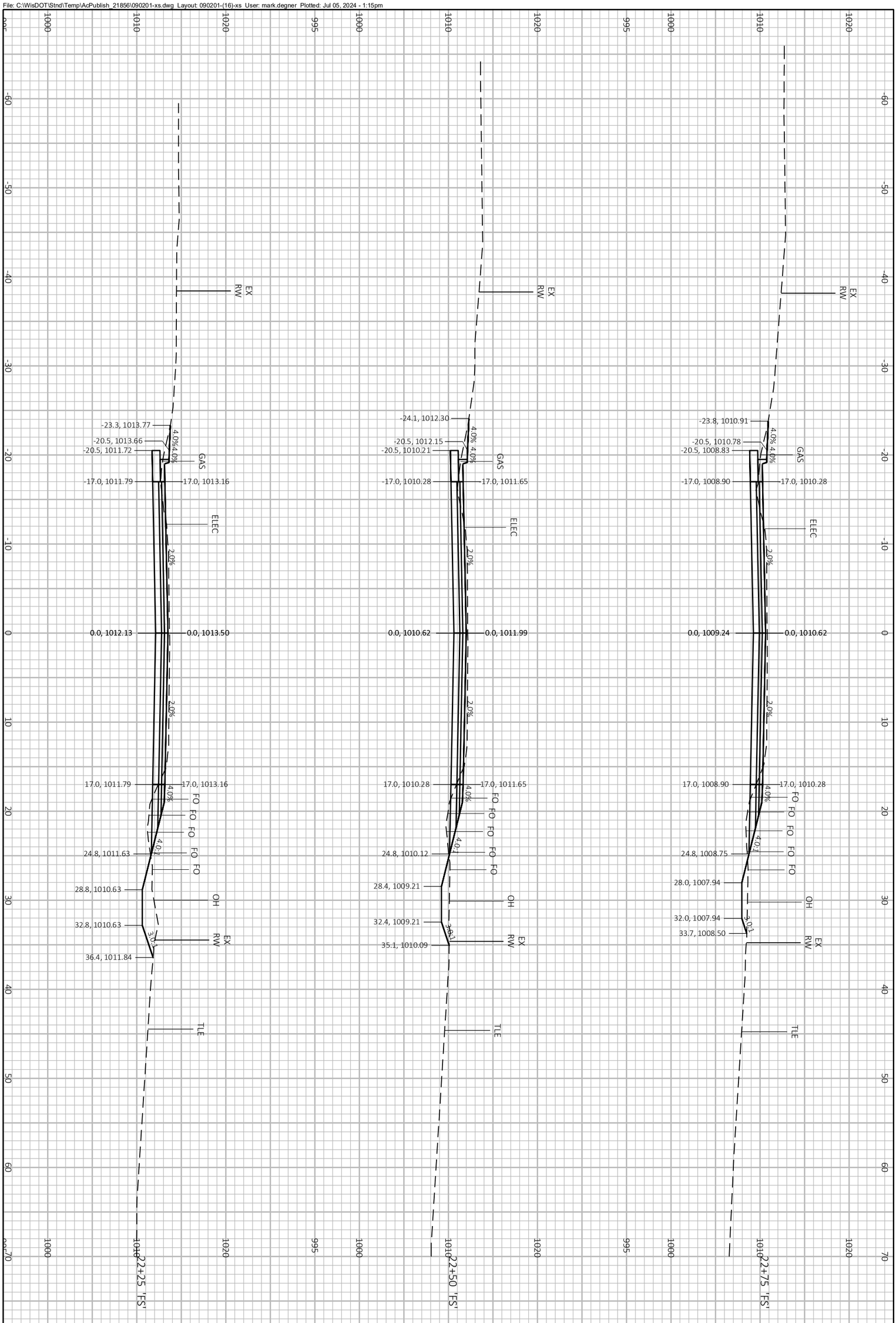
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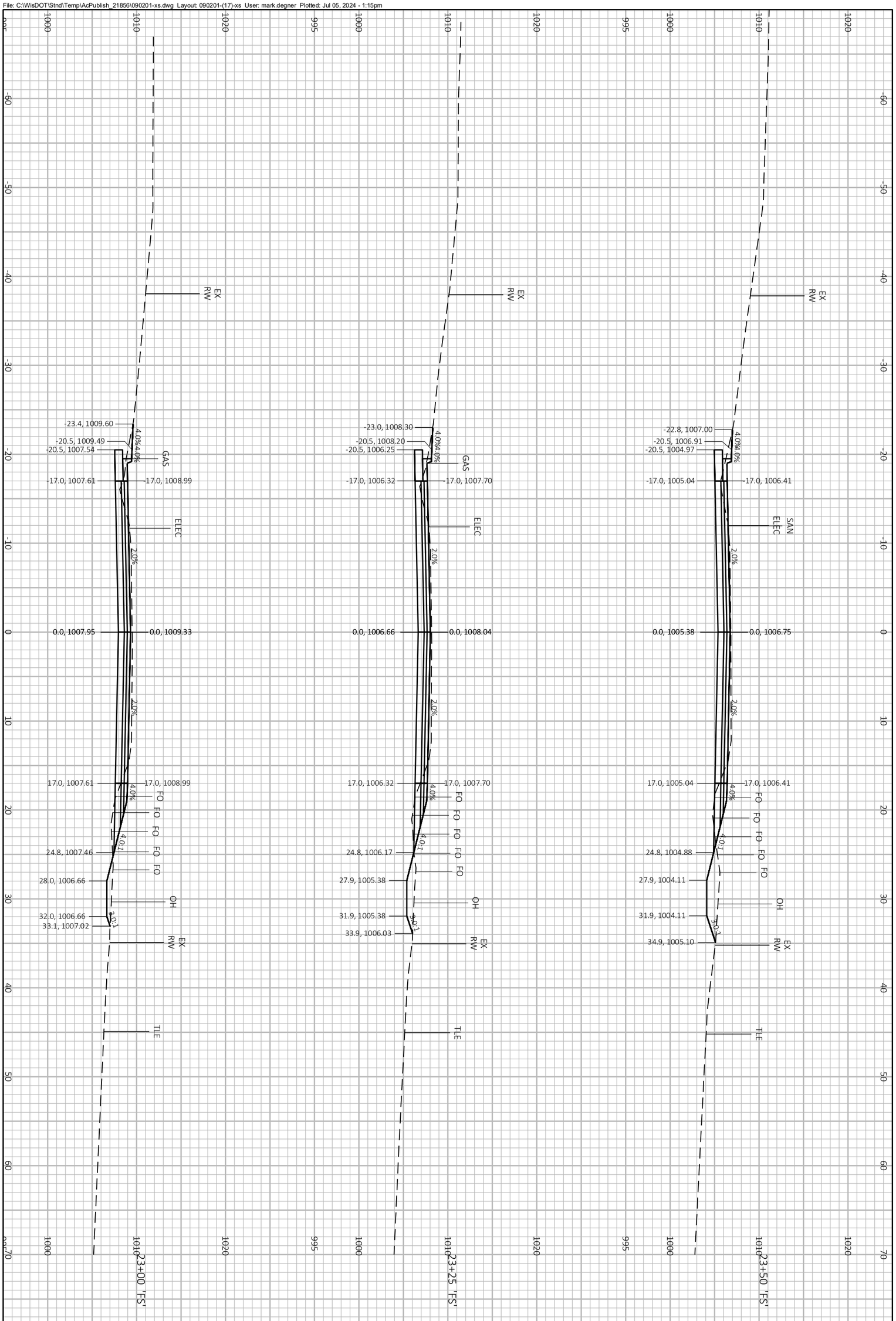
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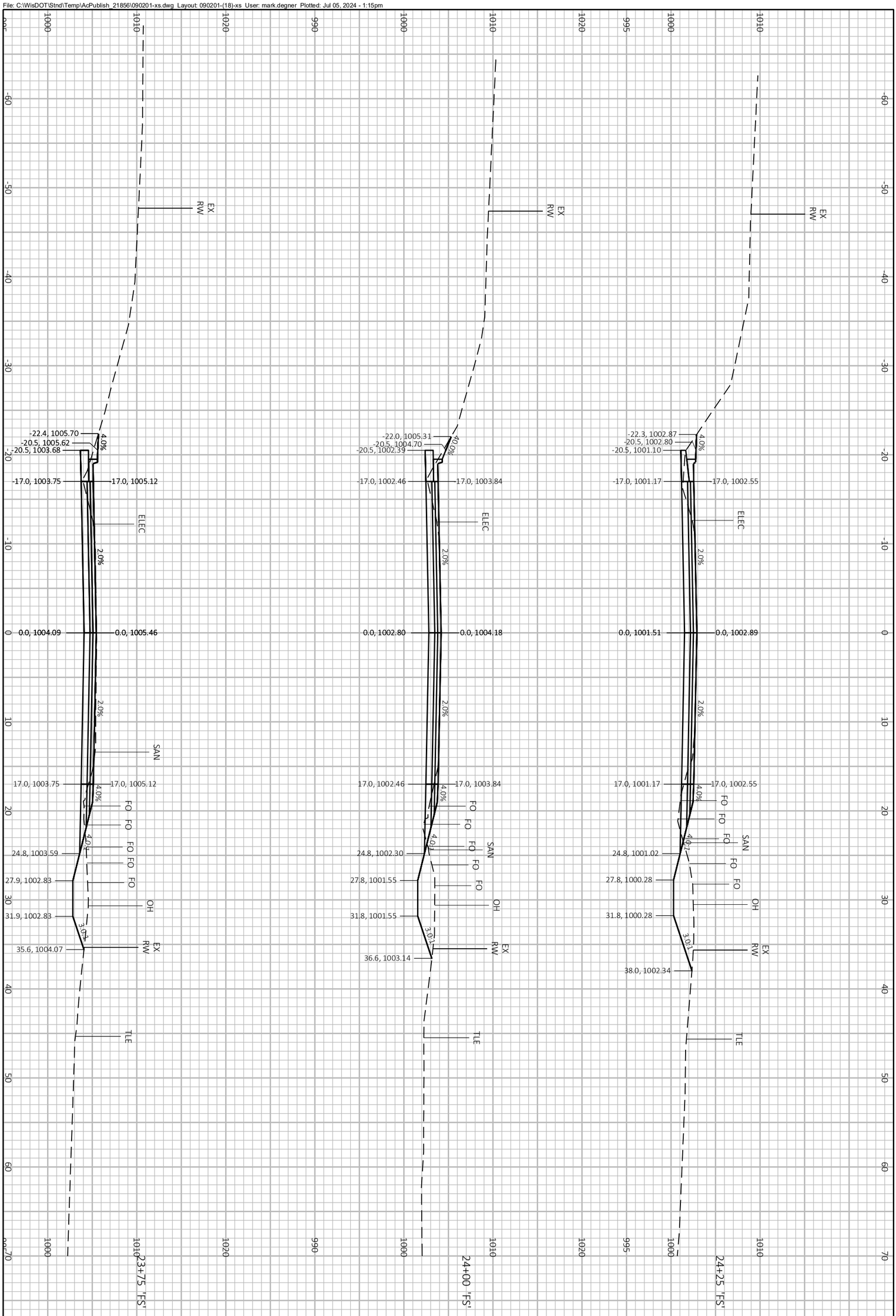
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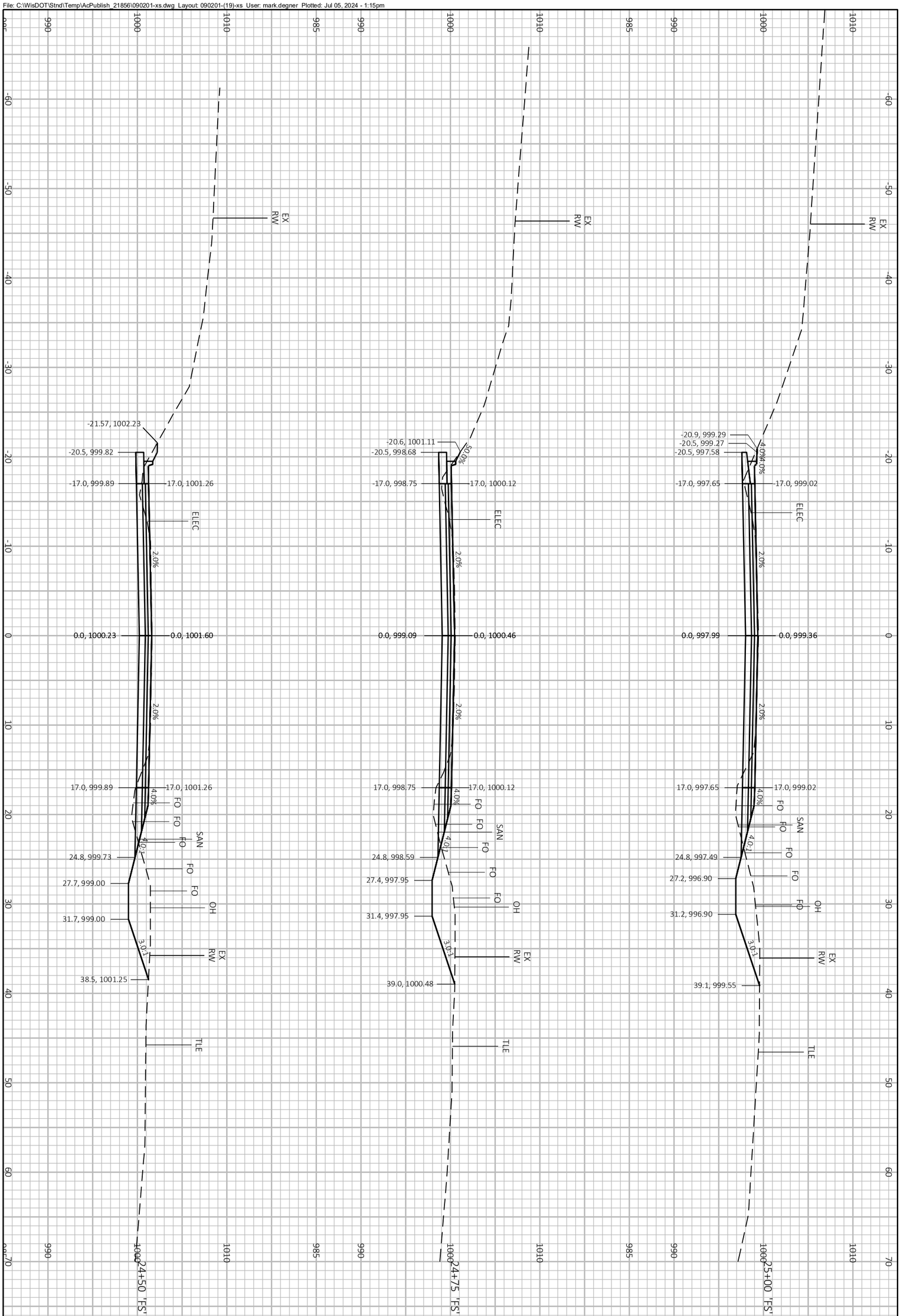
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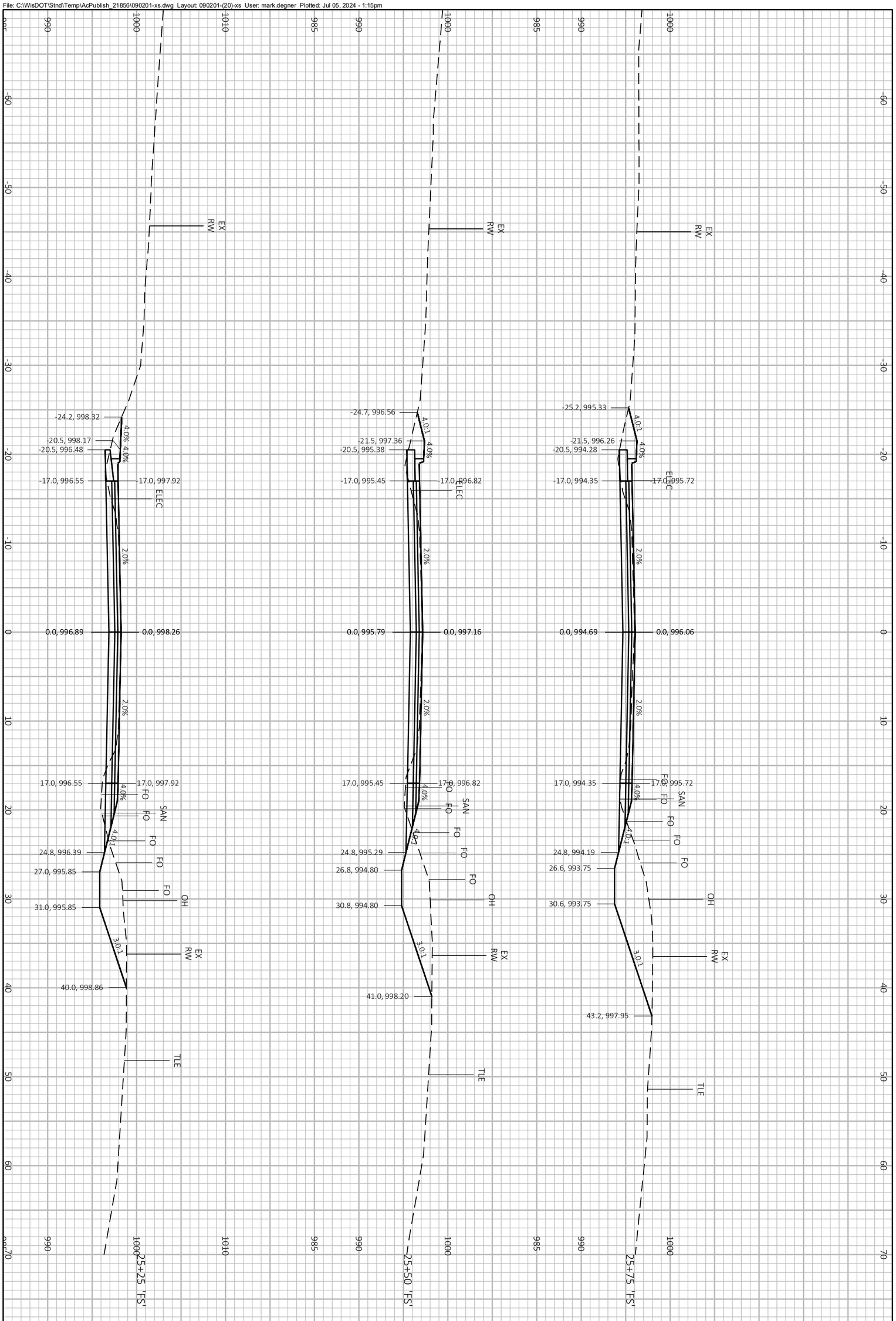
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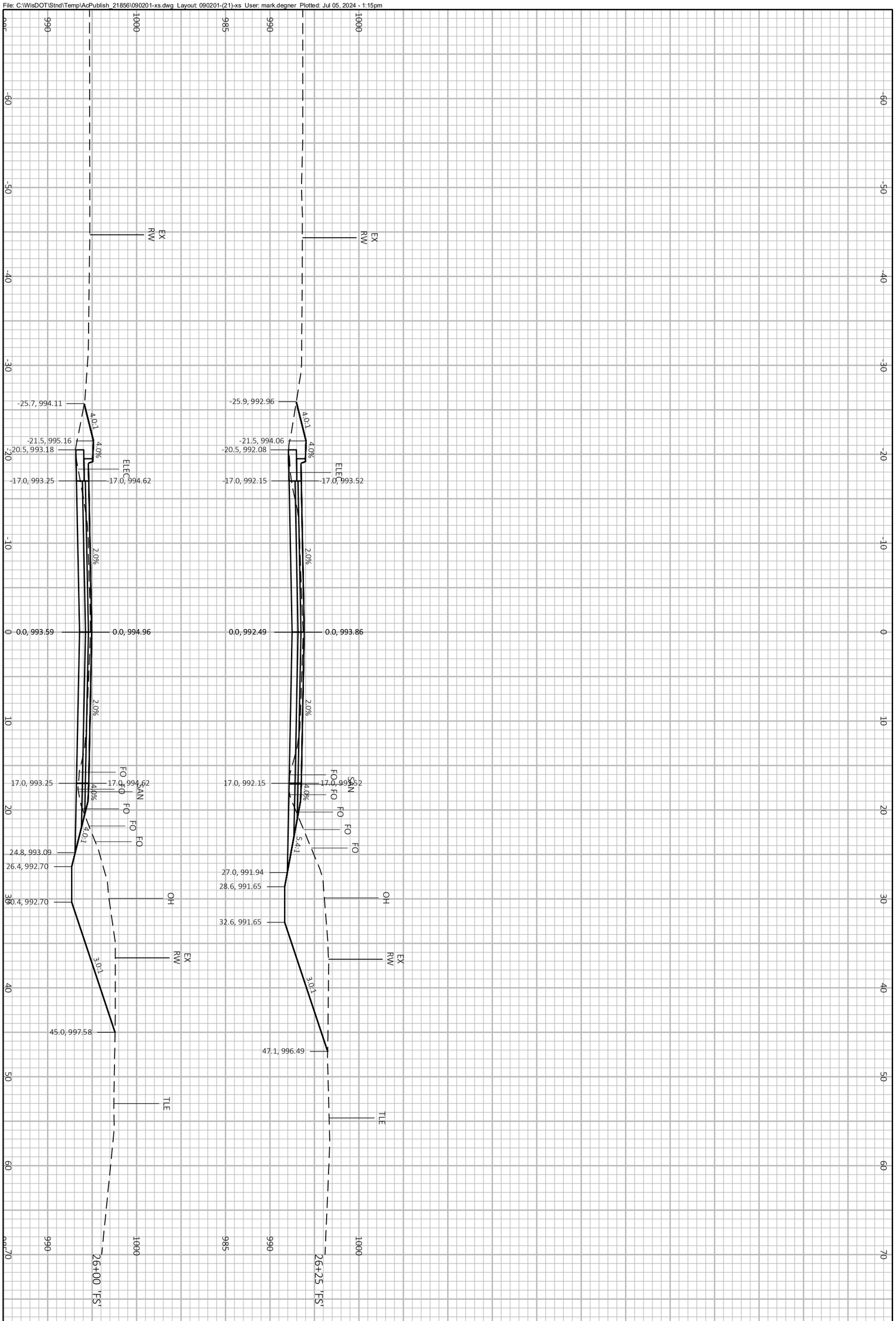
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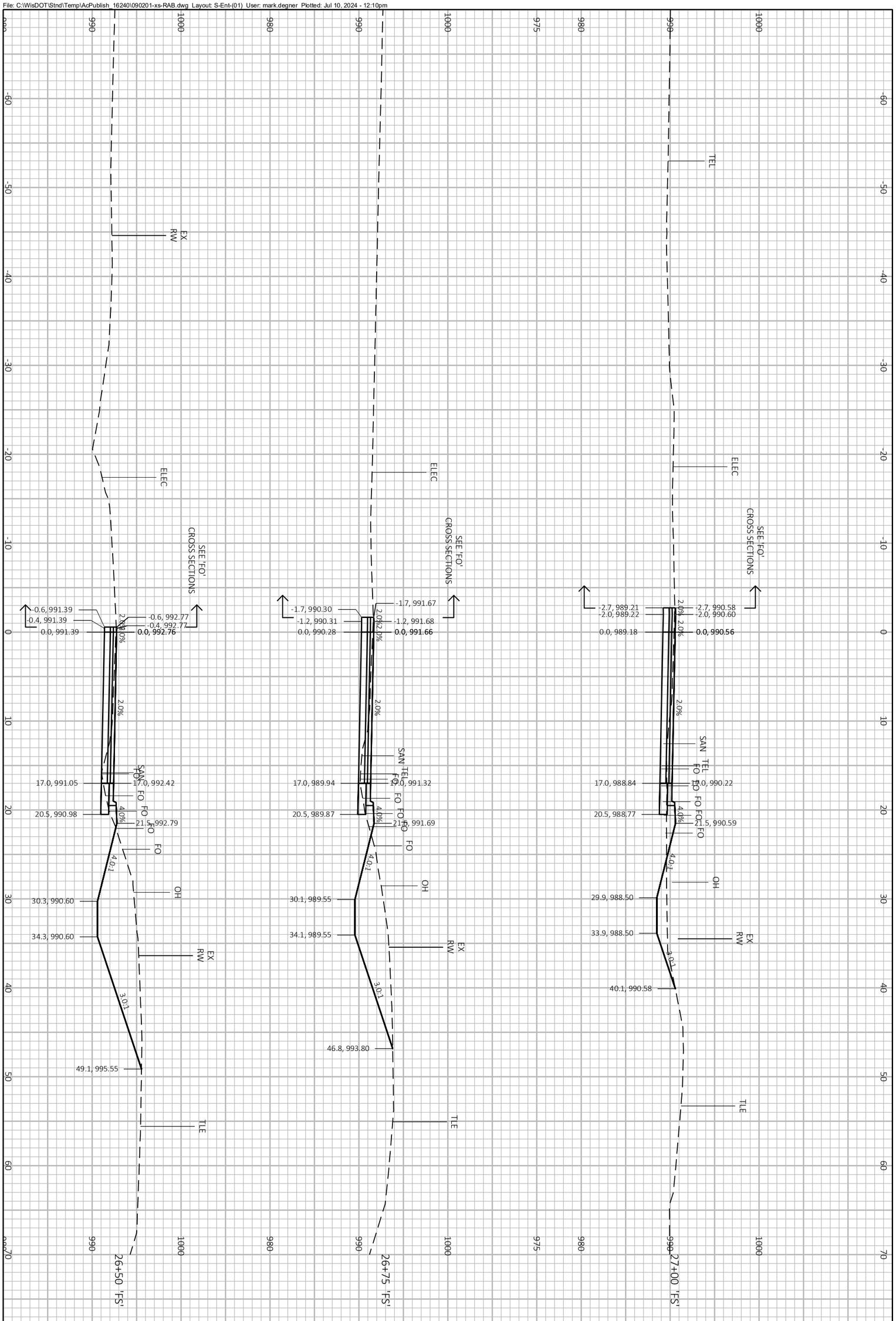
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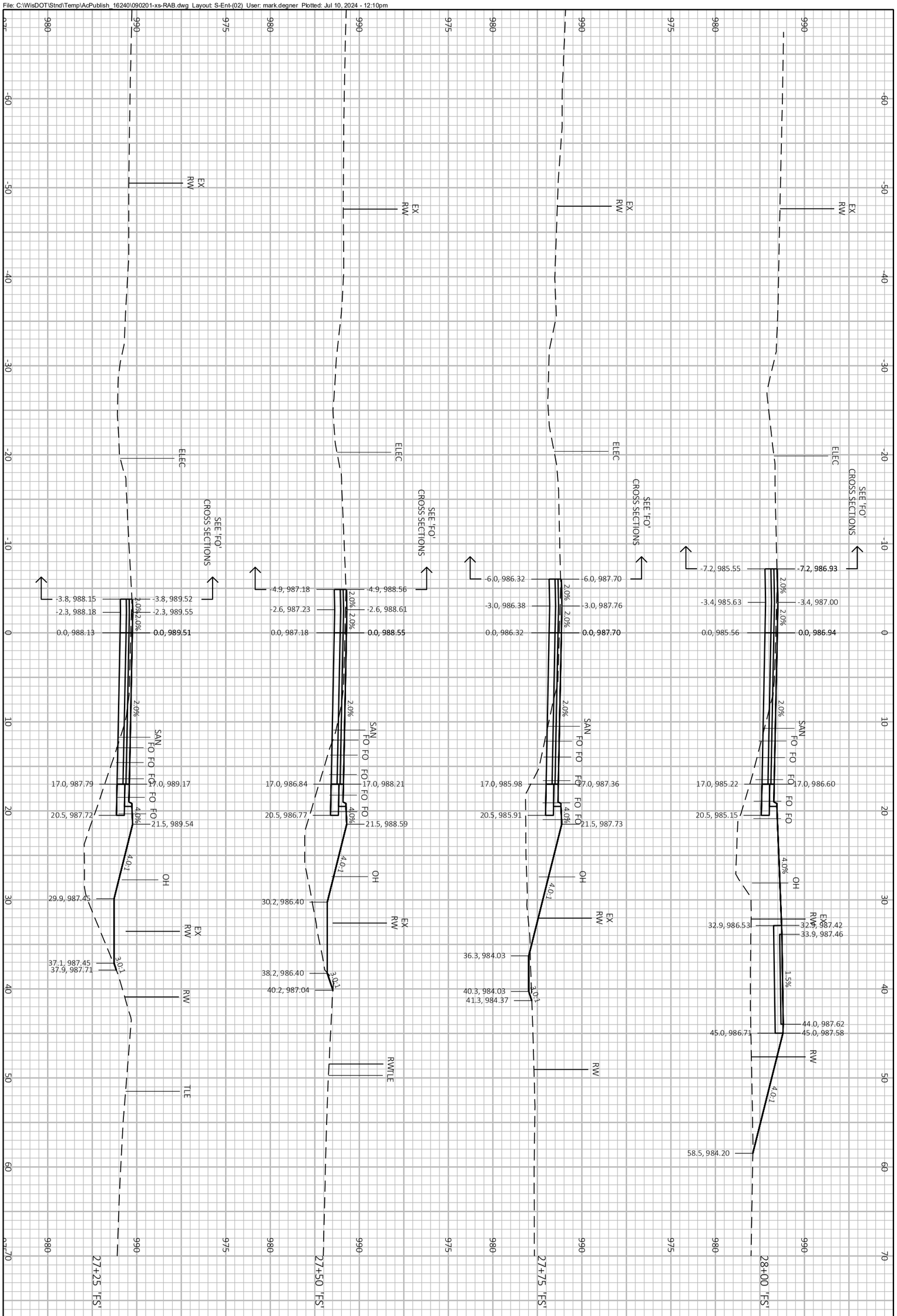
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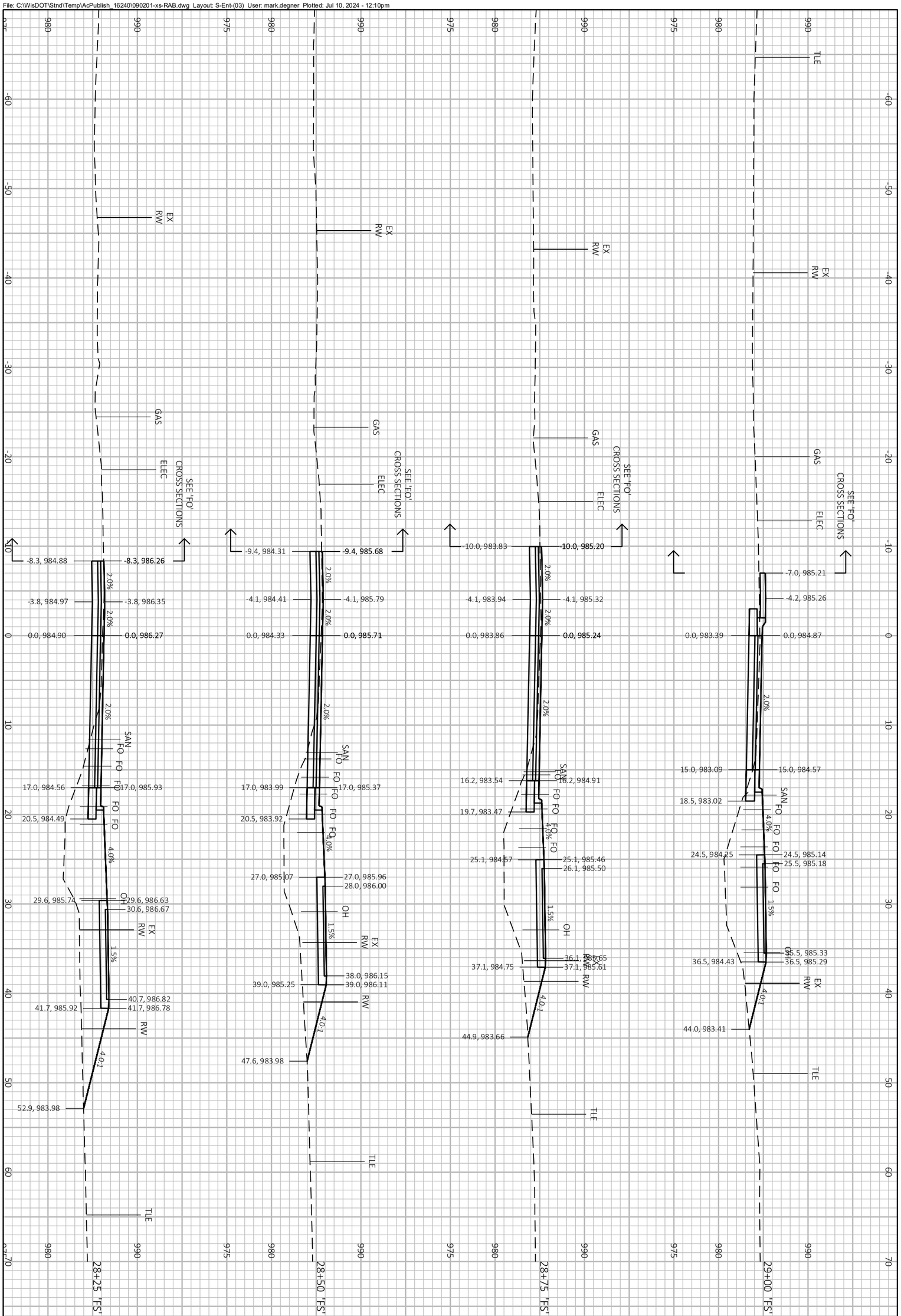
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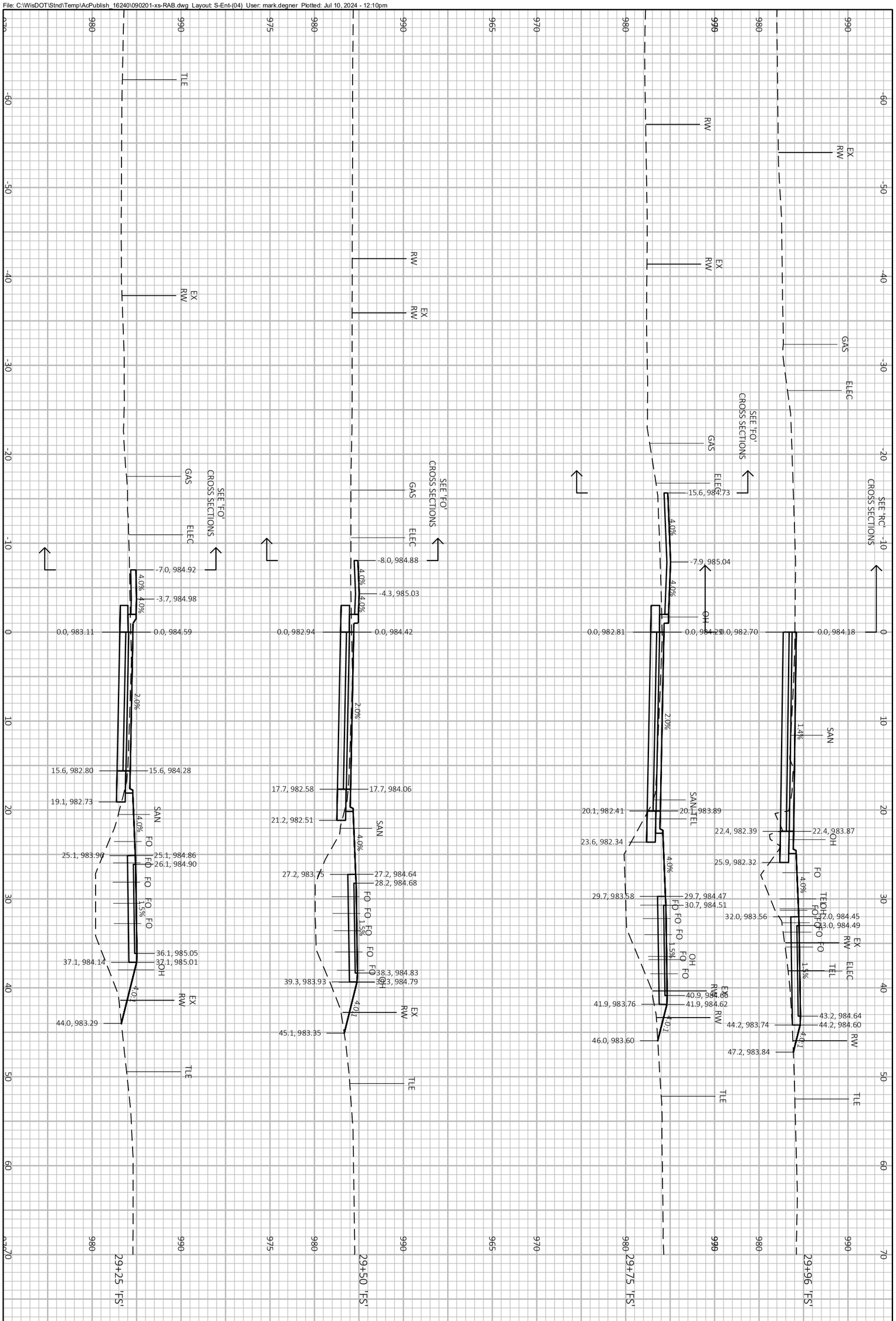
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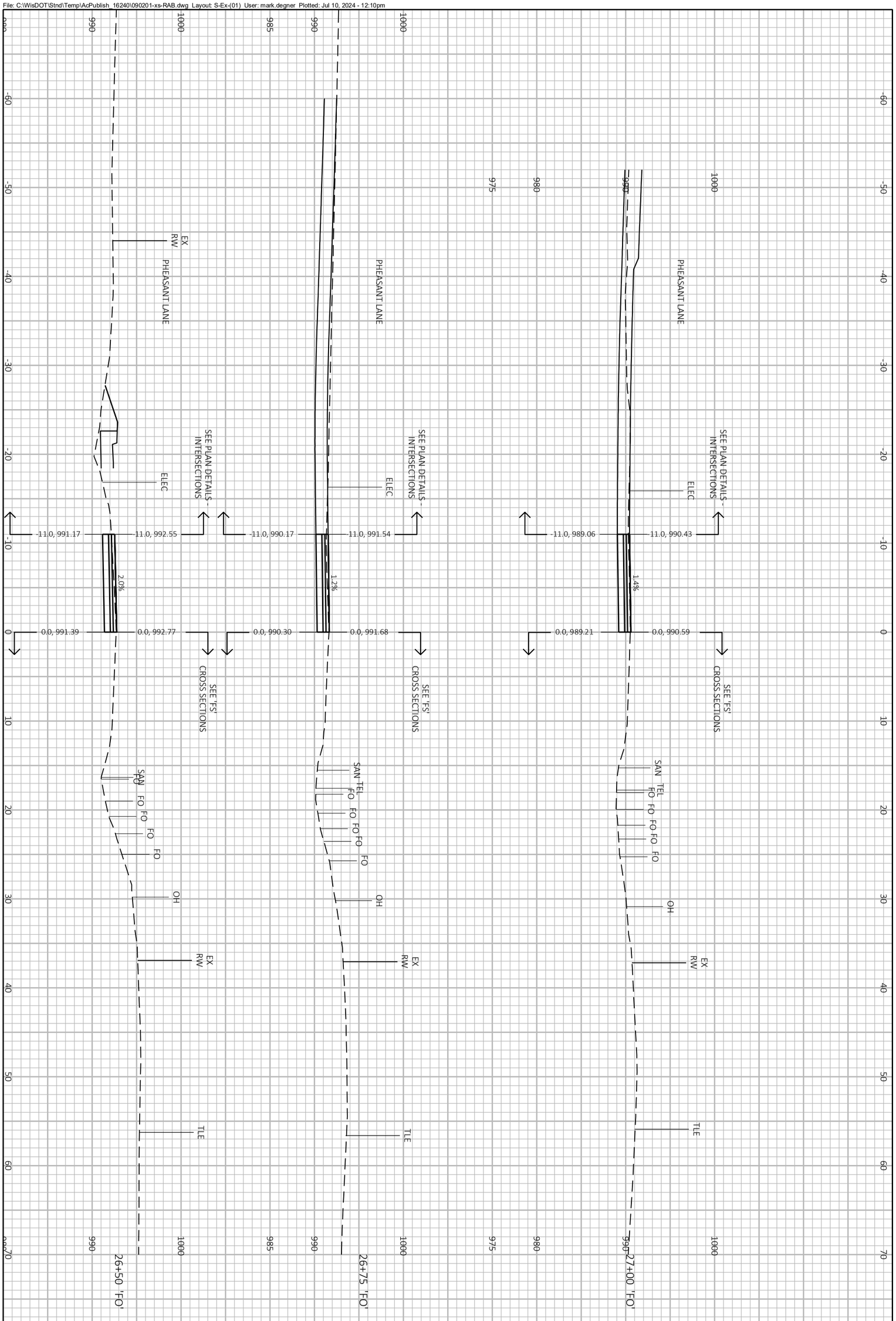
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	REVISION: 100% PLANS		

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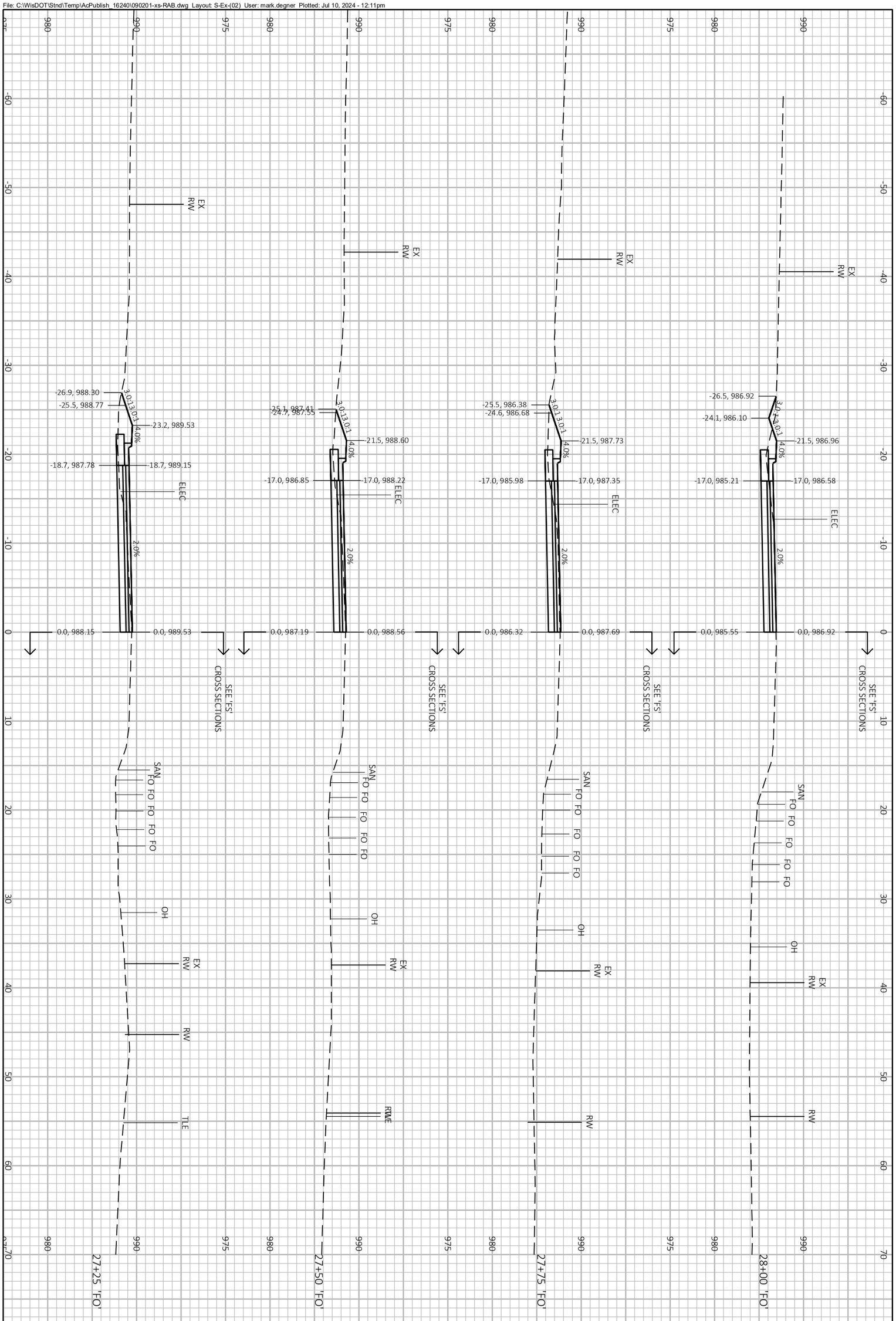
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SHEET NO.: **C-925**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

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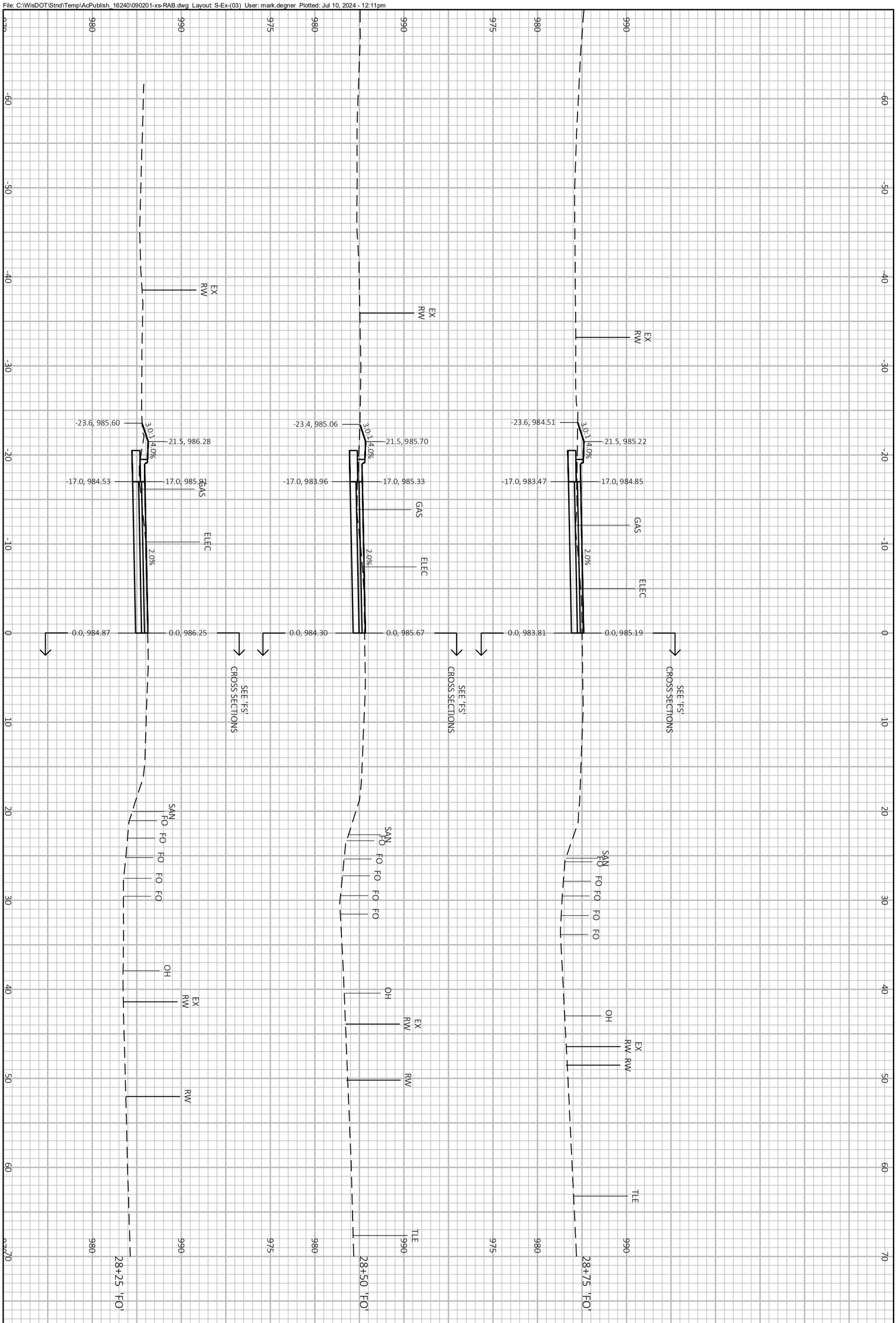
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SHEET NO.: **C-926**	DATE: JULY 2024		
	REVISION: 100% PLANS		

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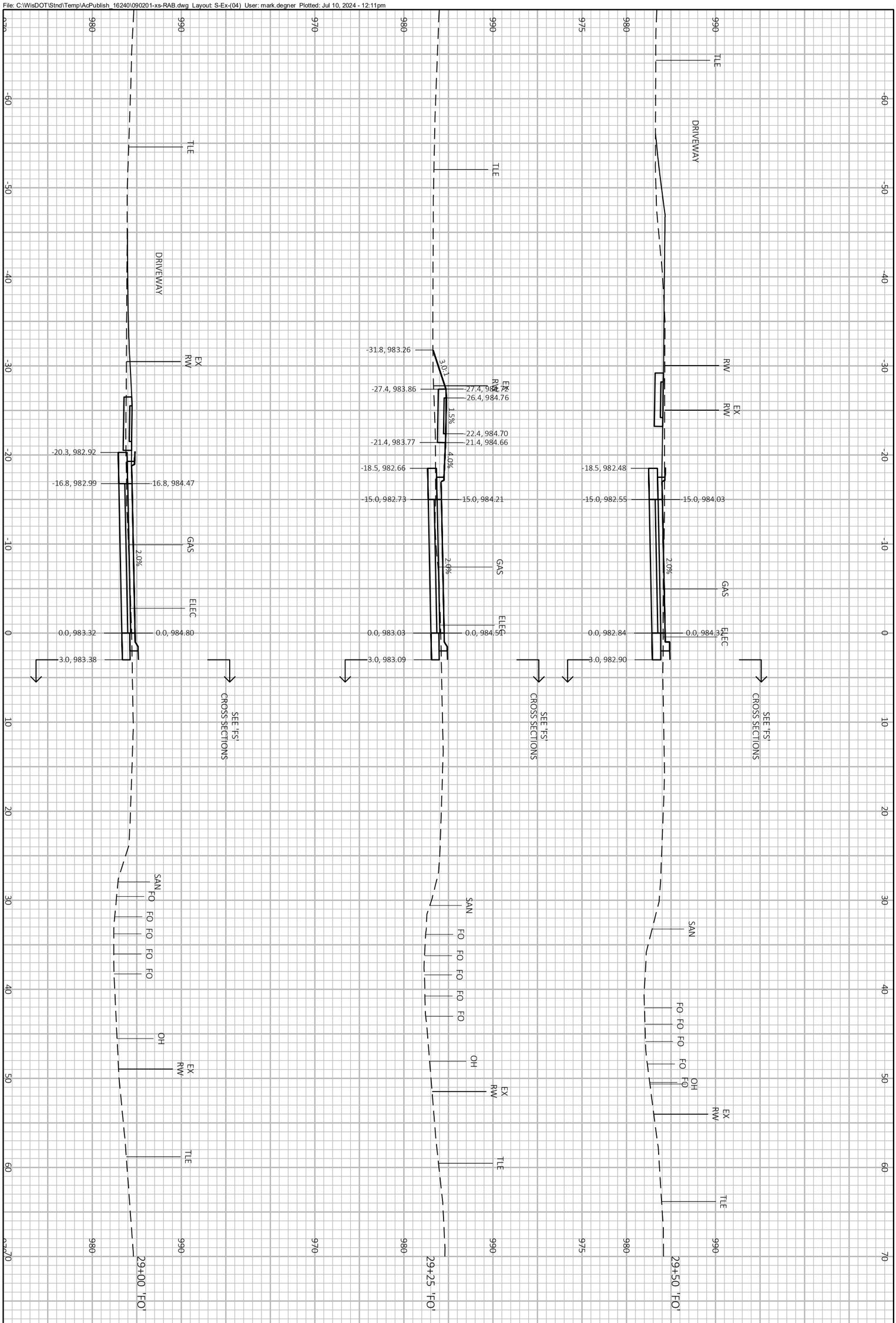
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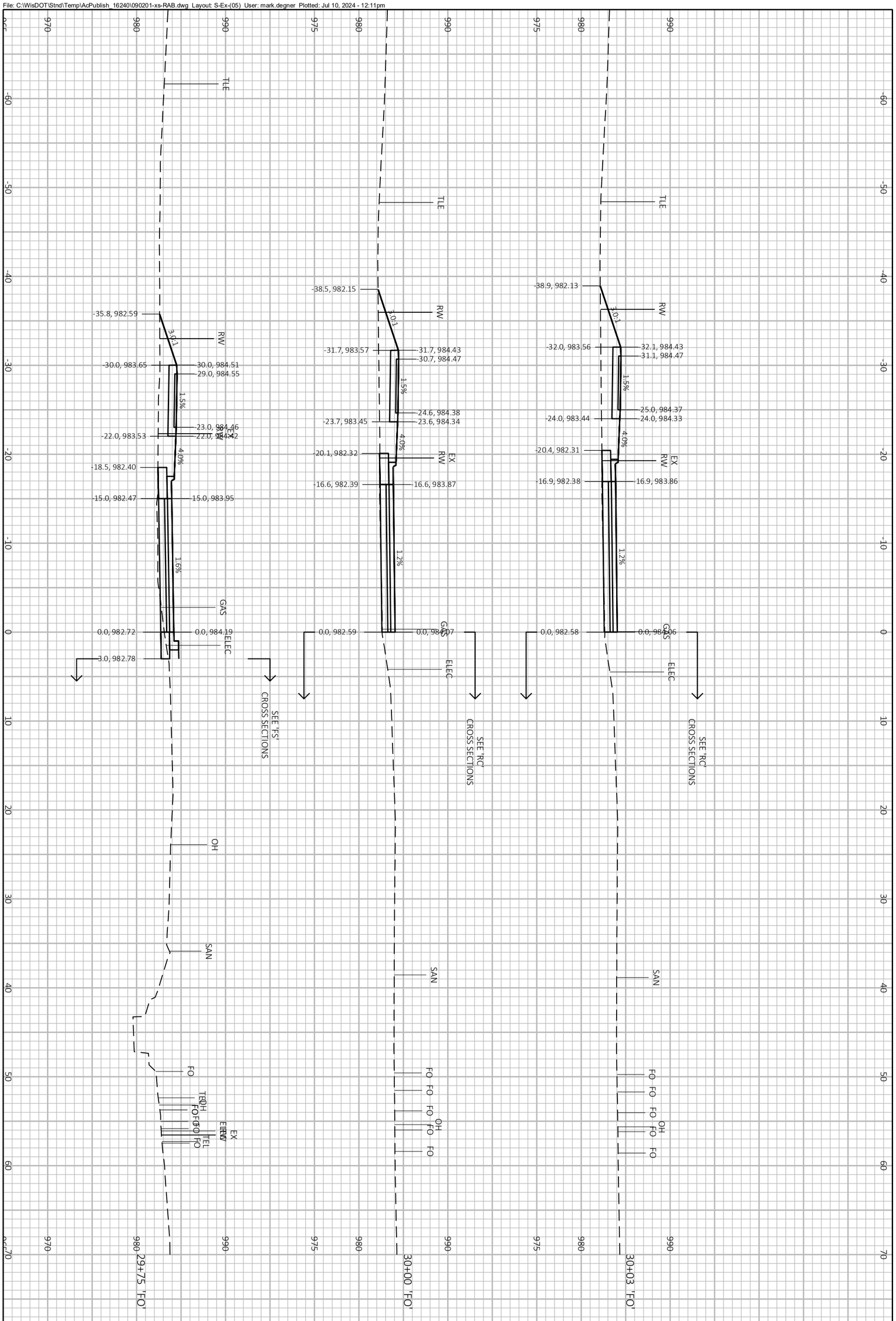
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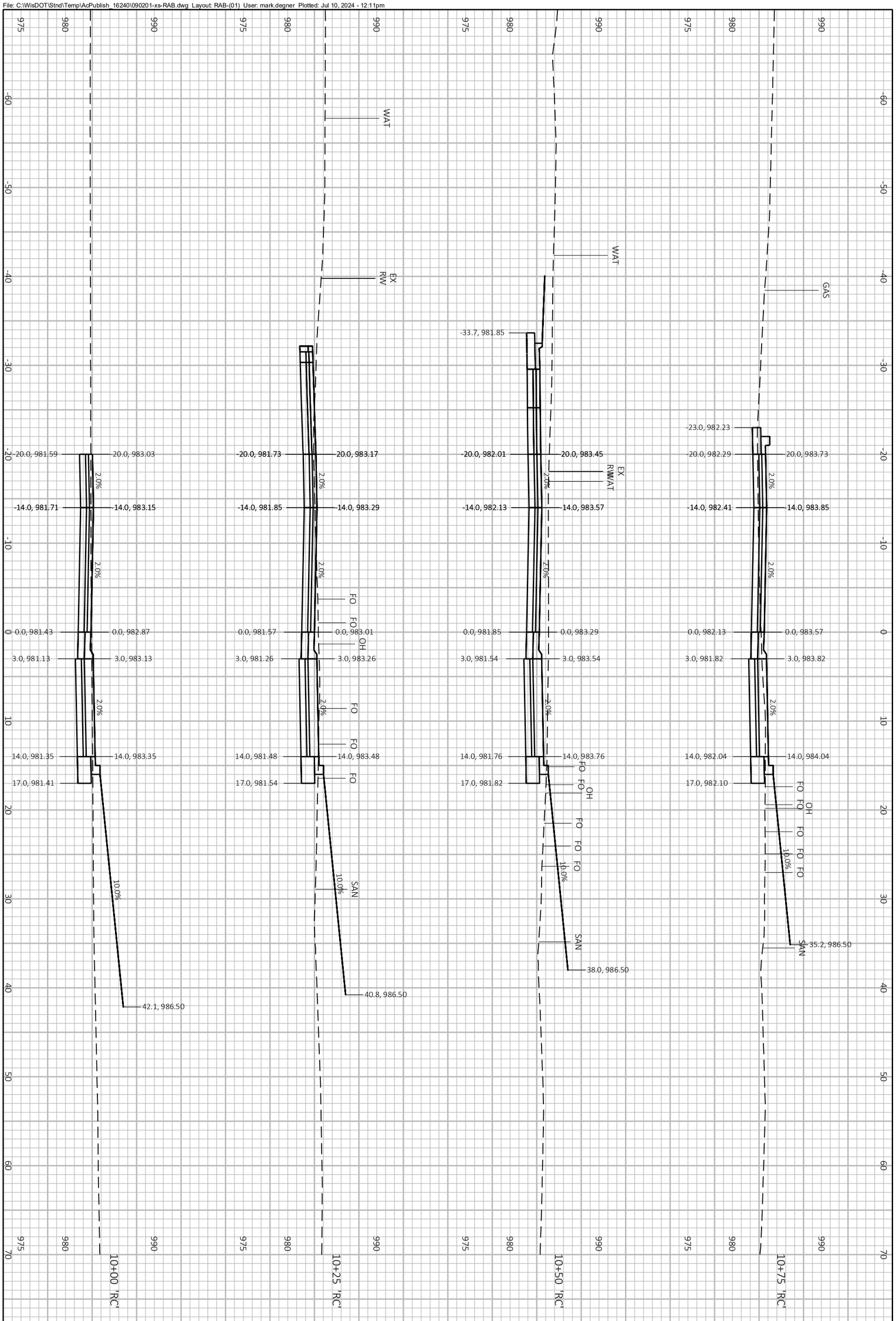
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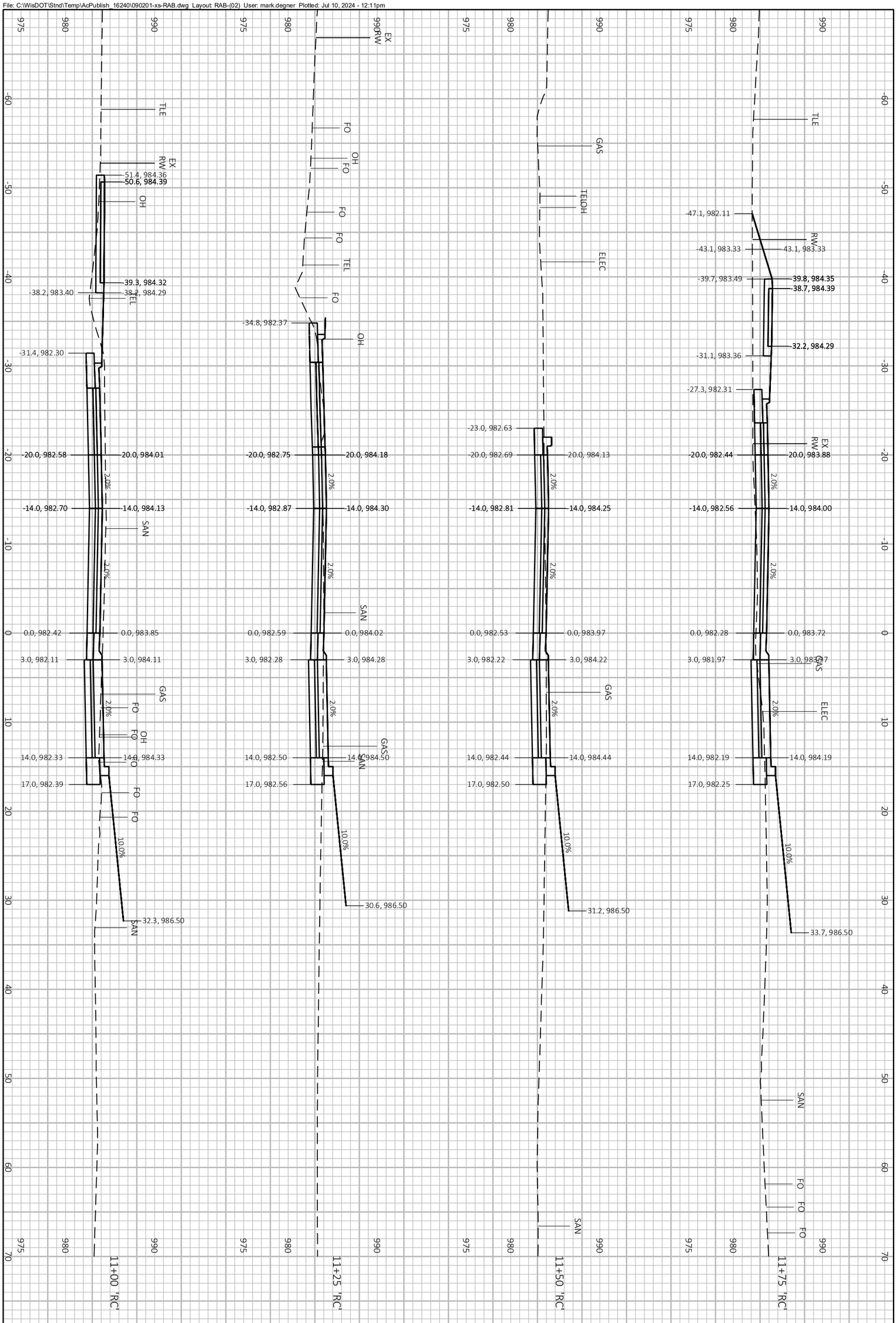
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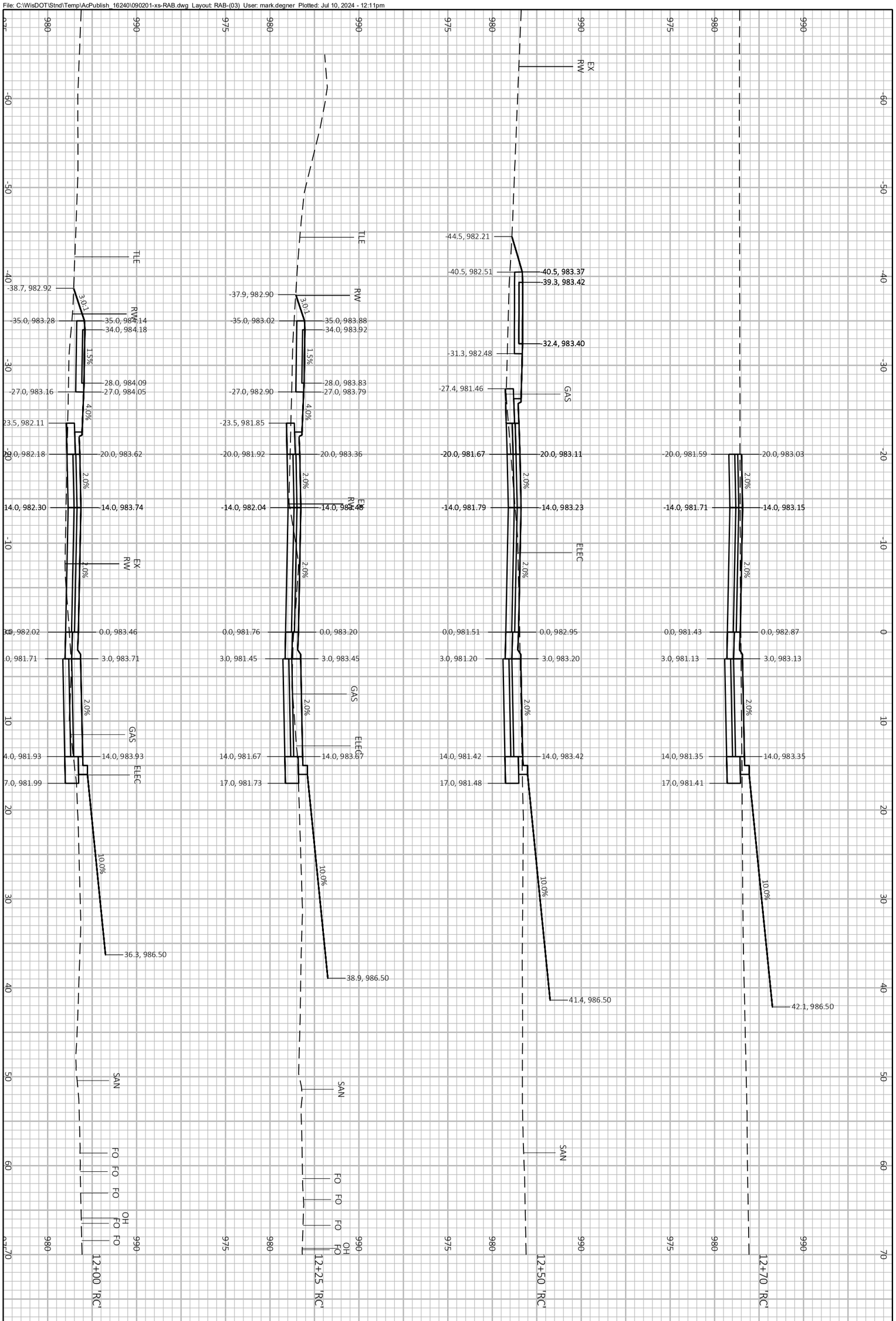
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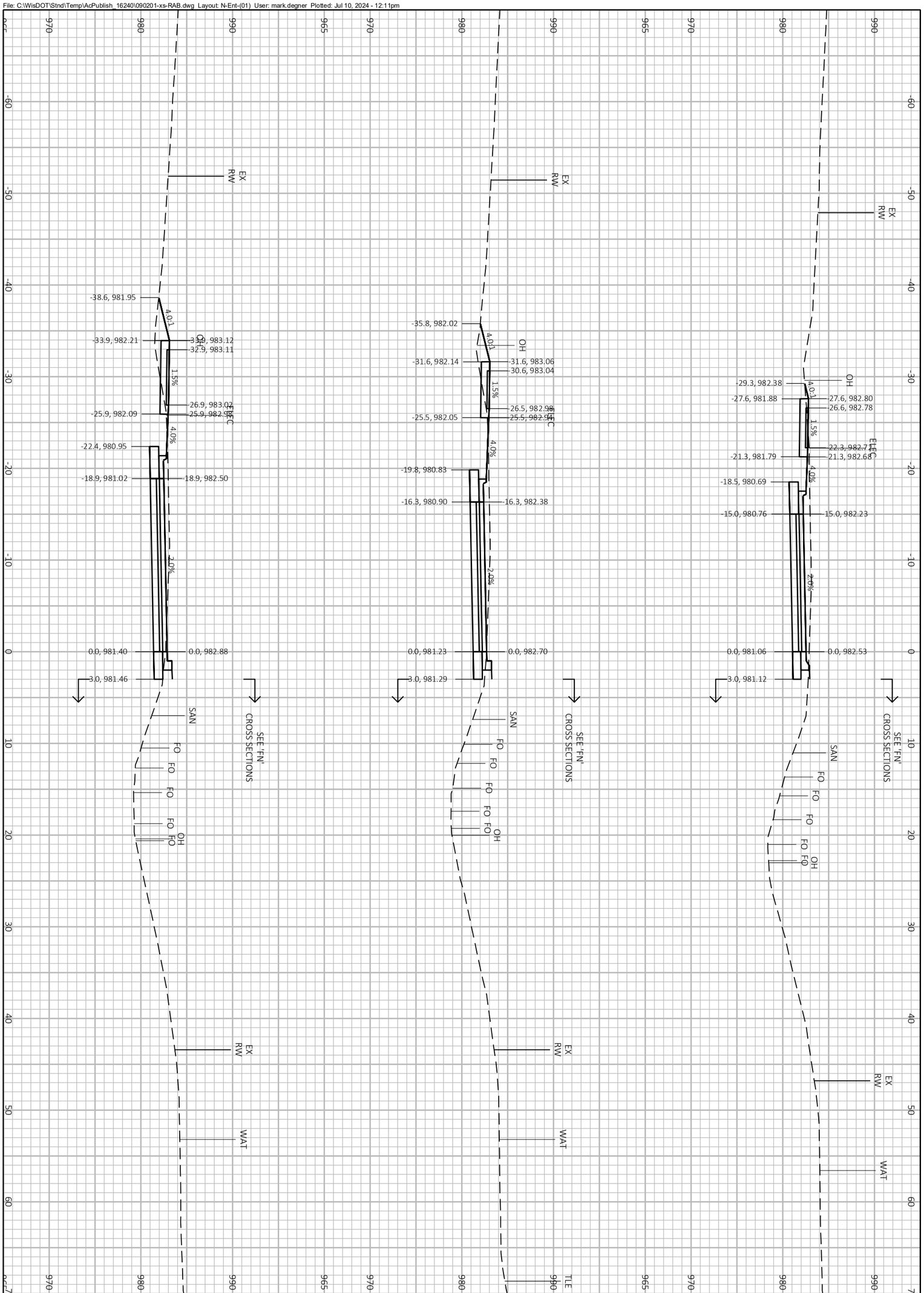
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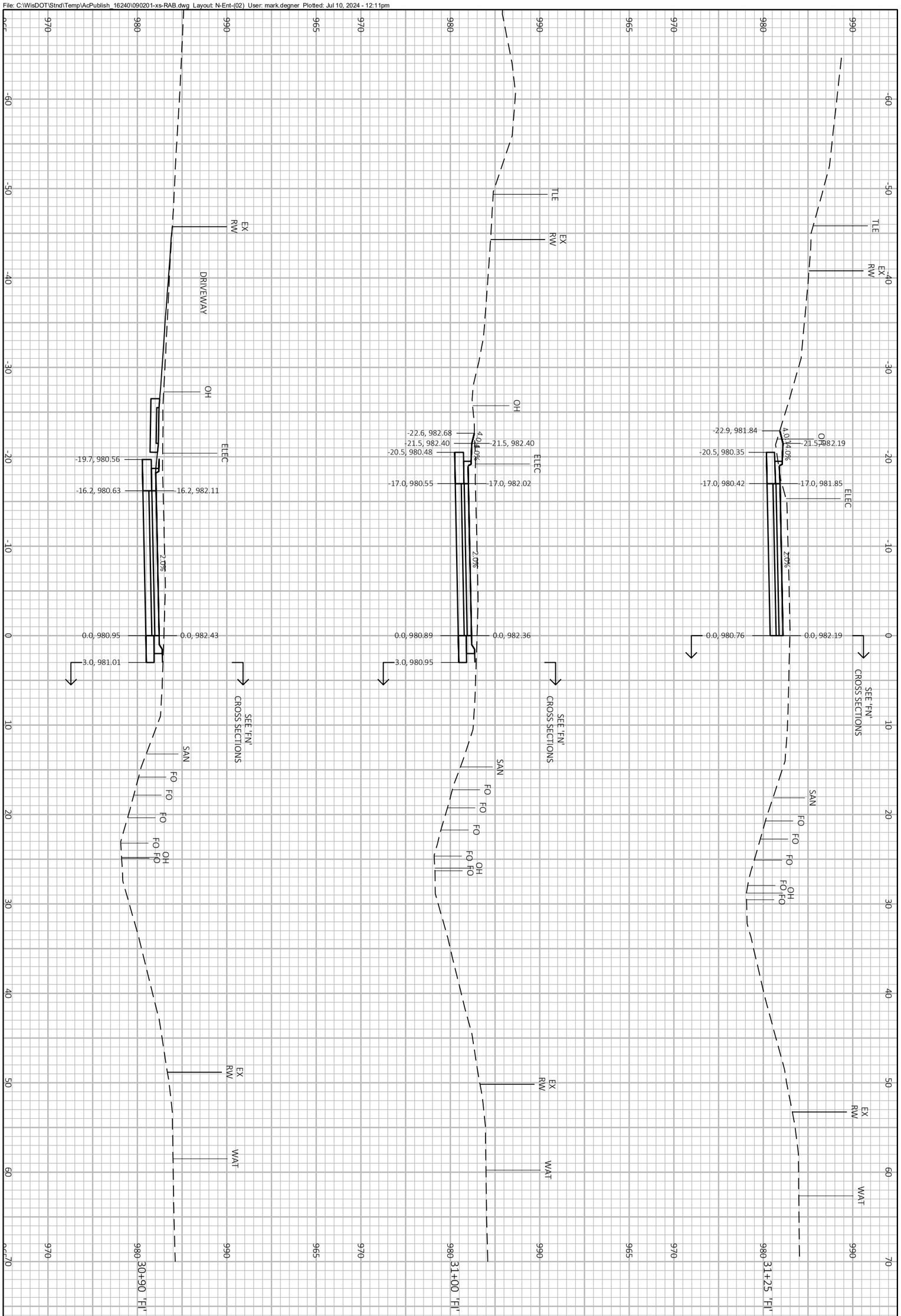
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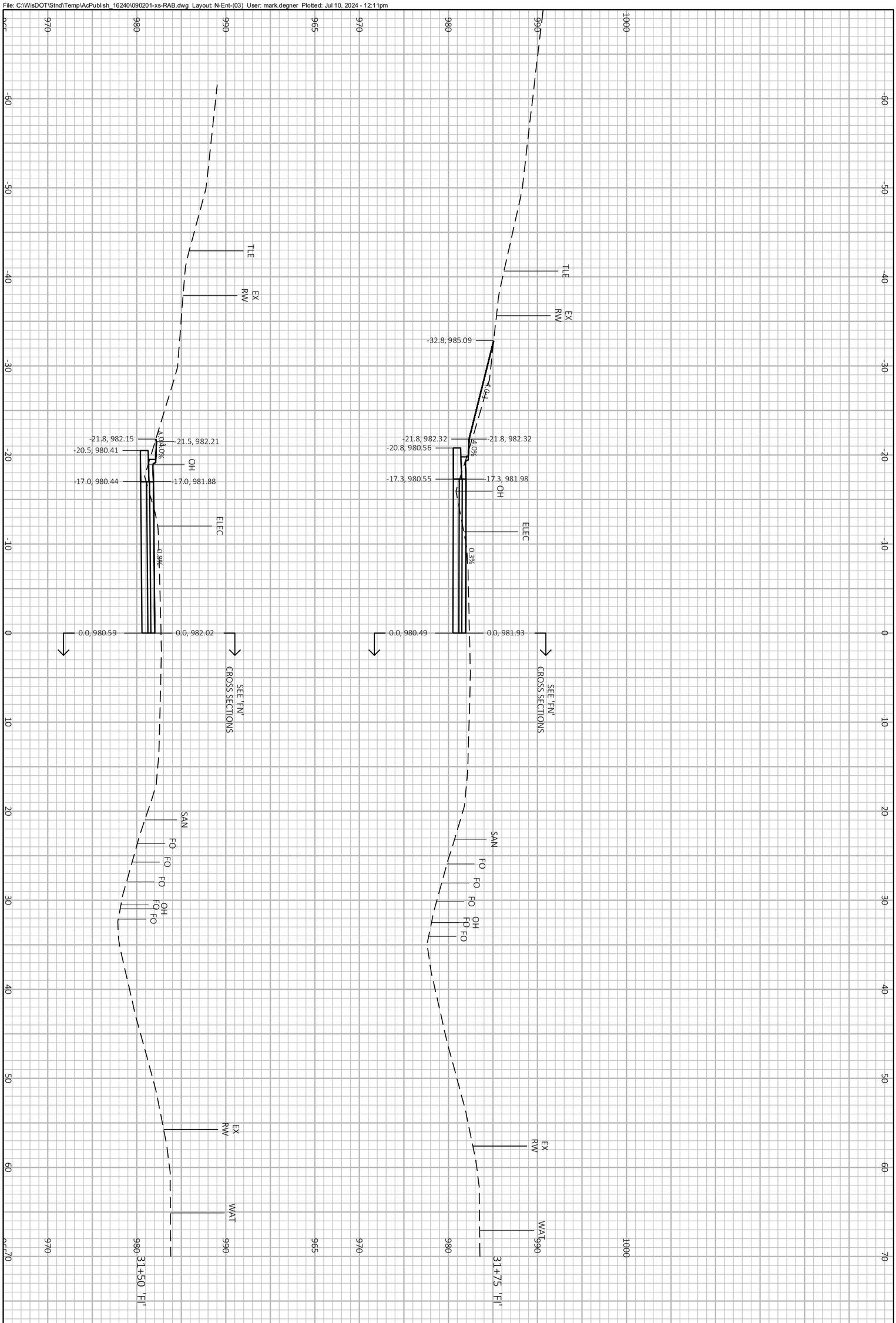
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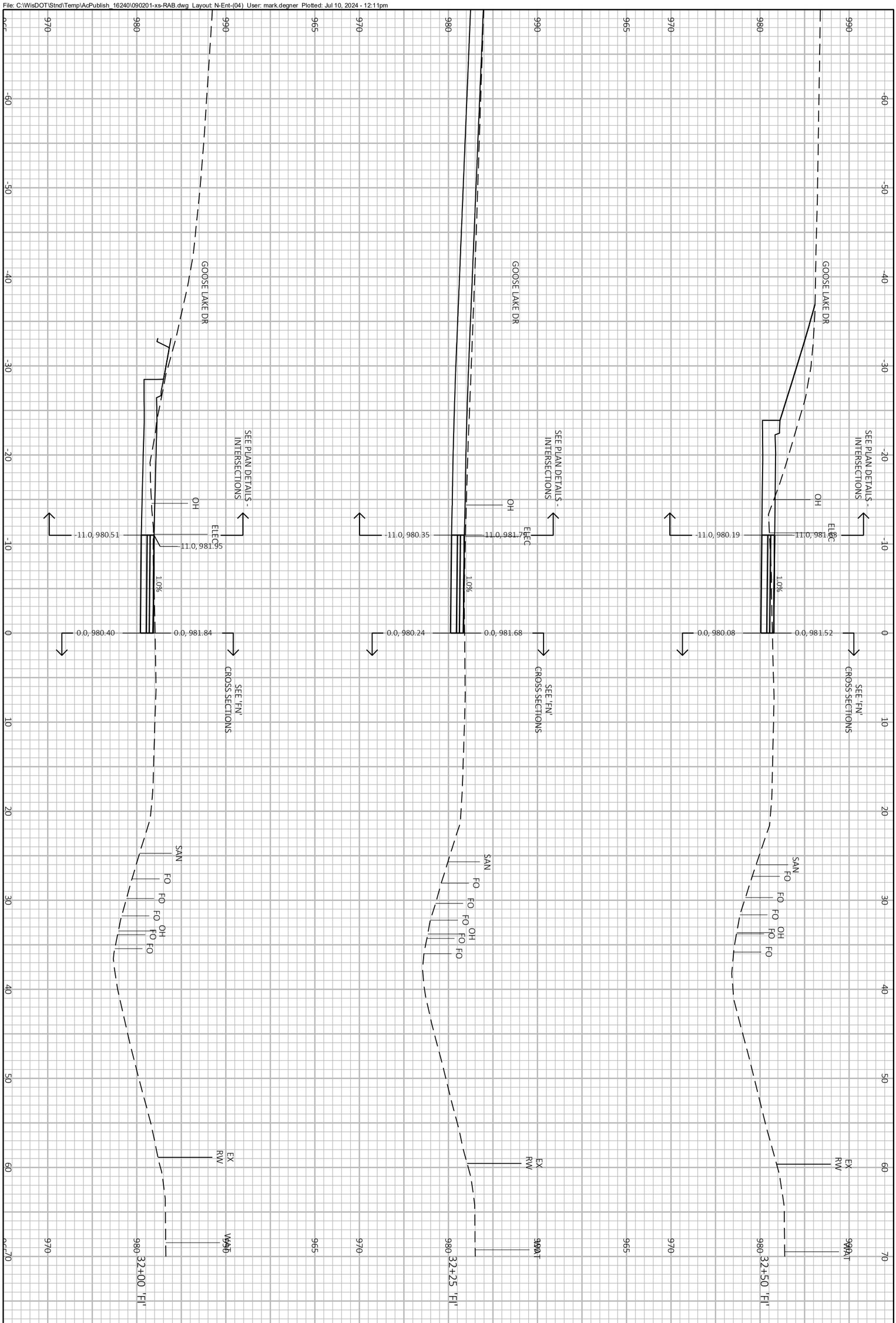
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SHEET NO.: **C-935**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
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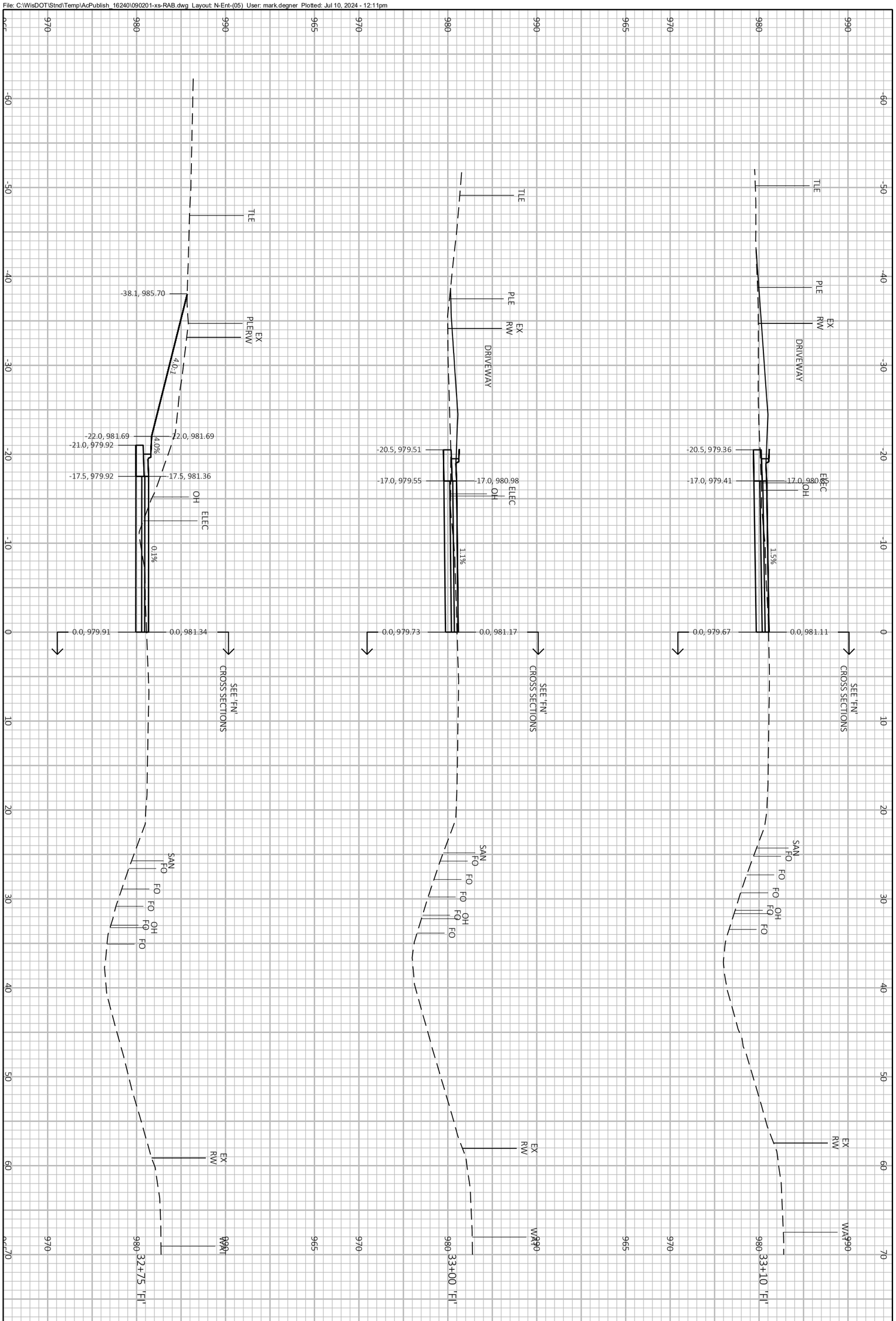
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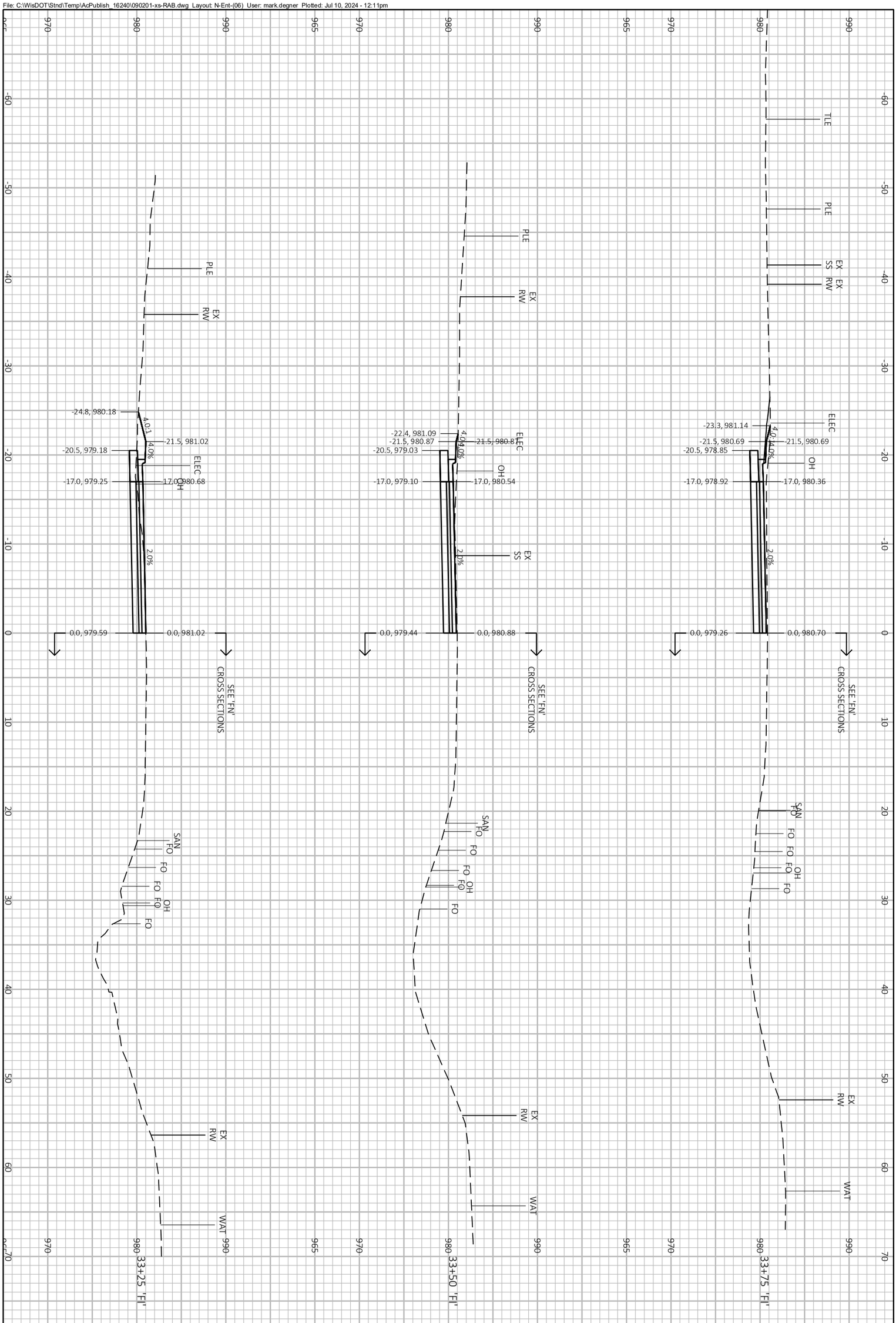
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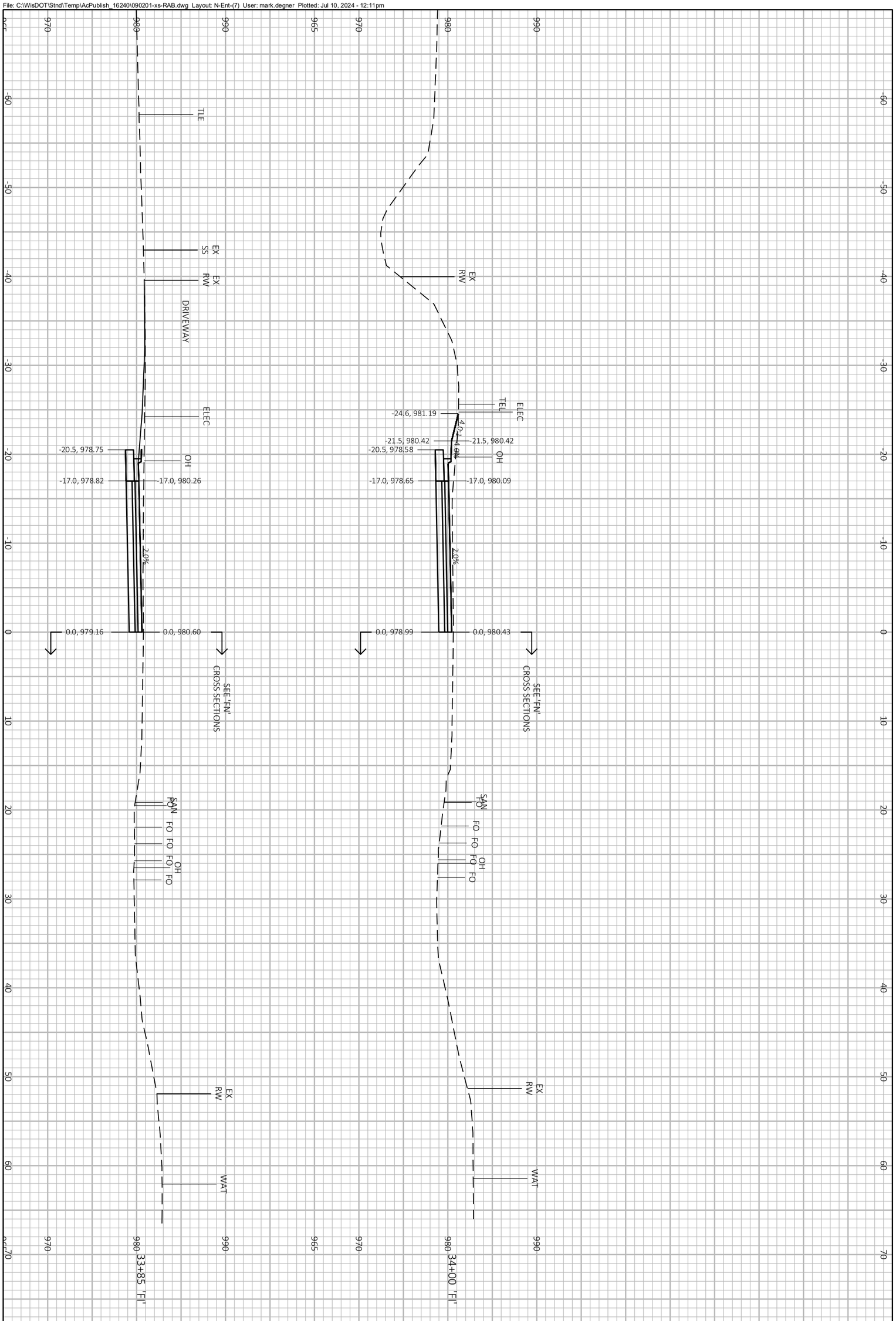
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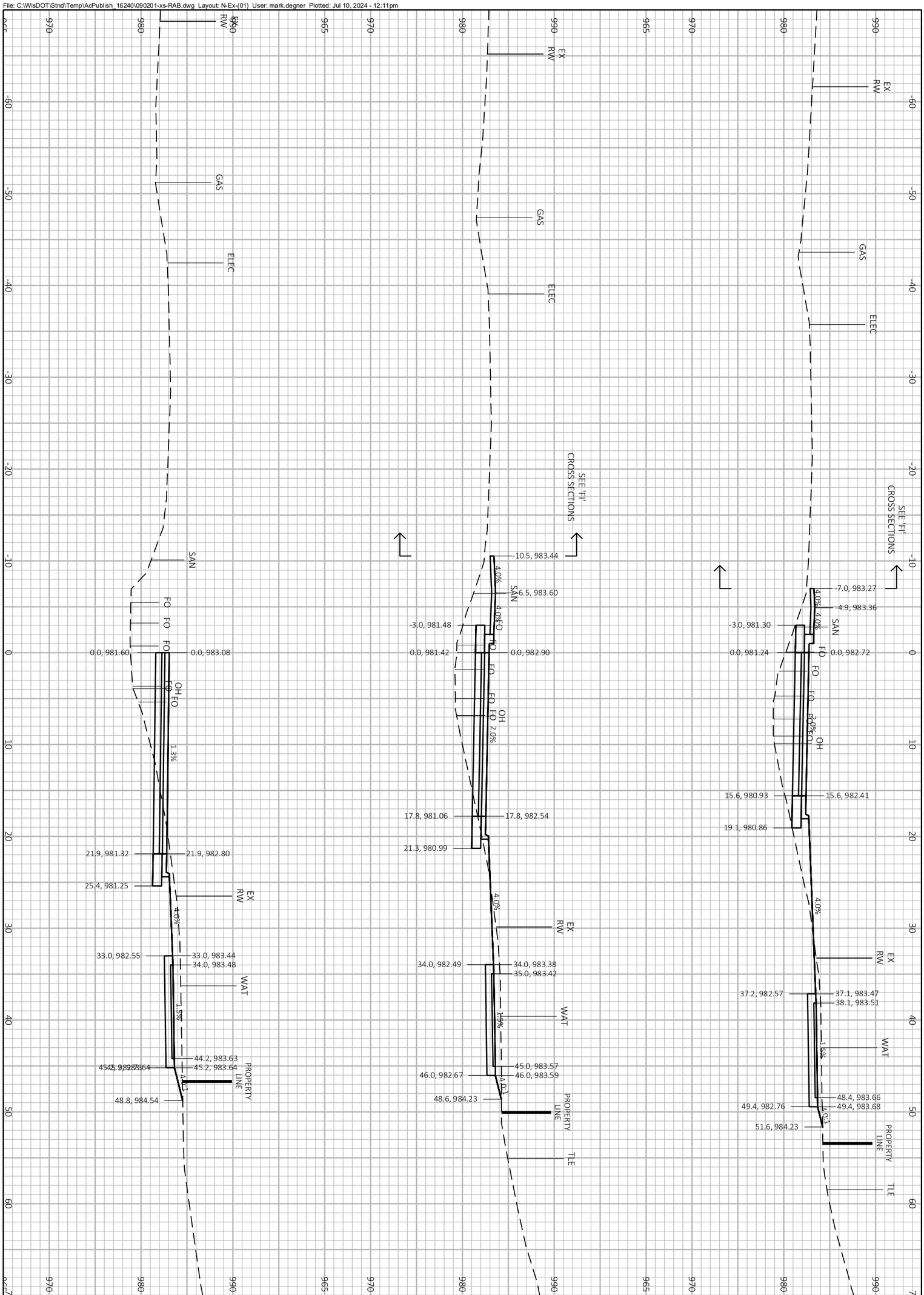
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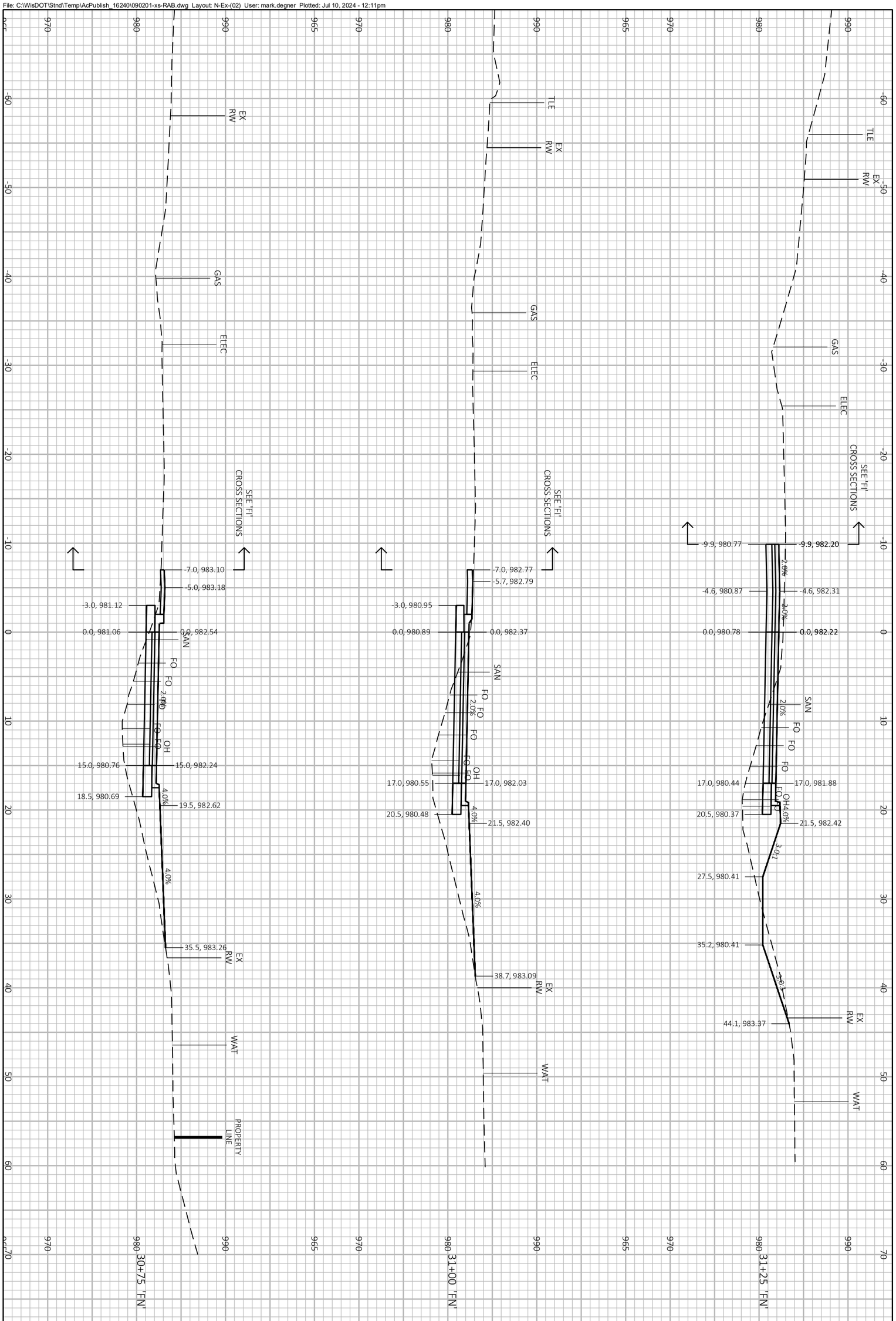
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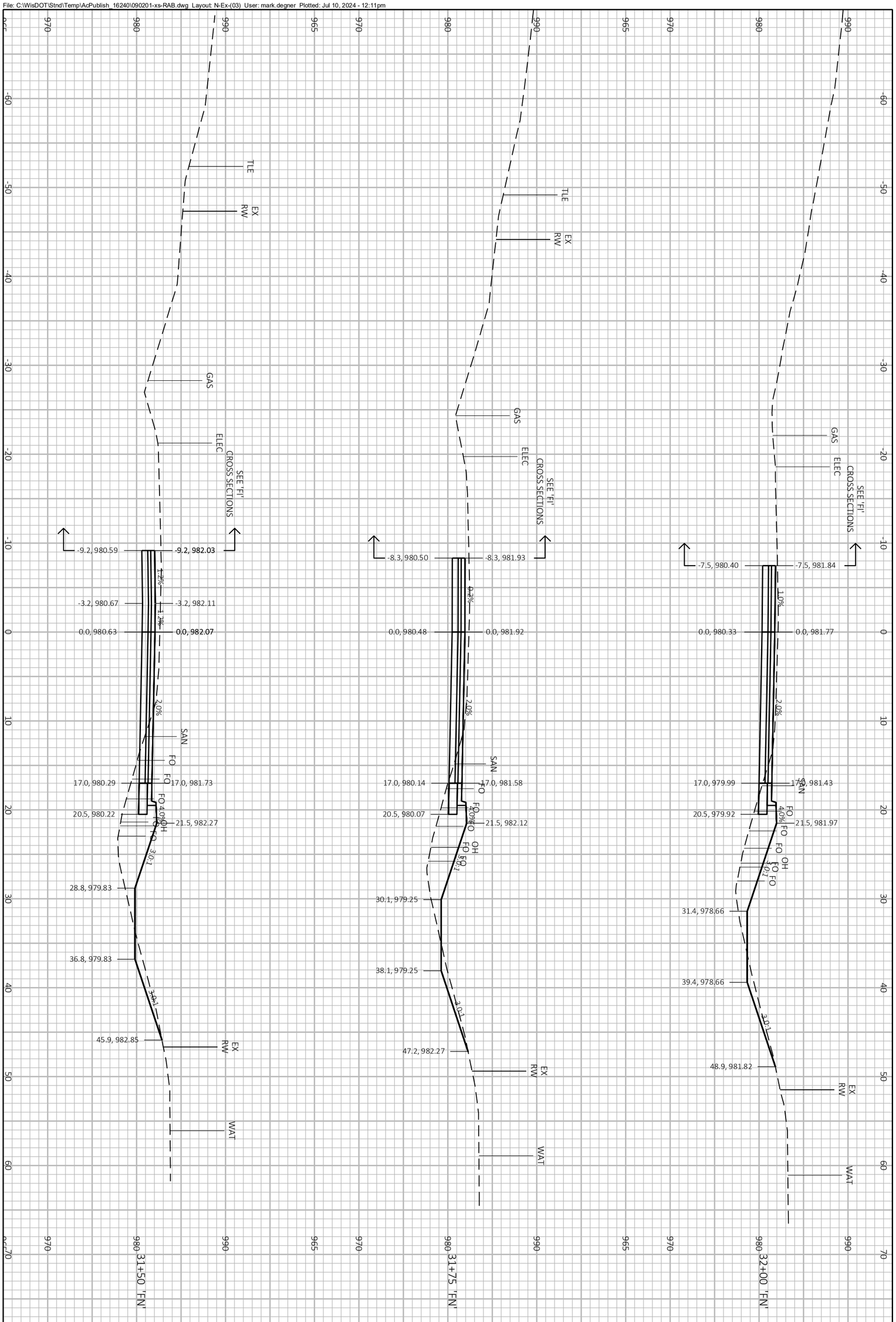
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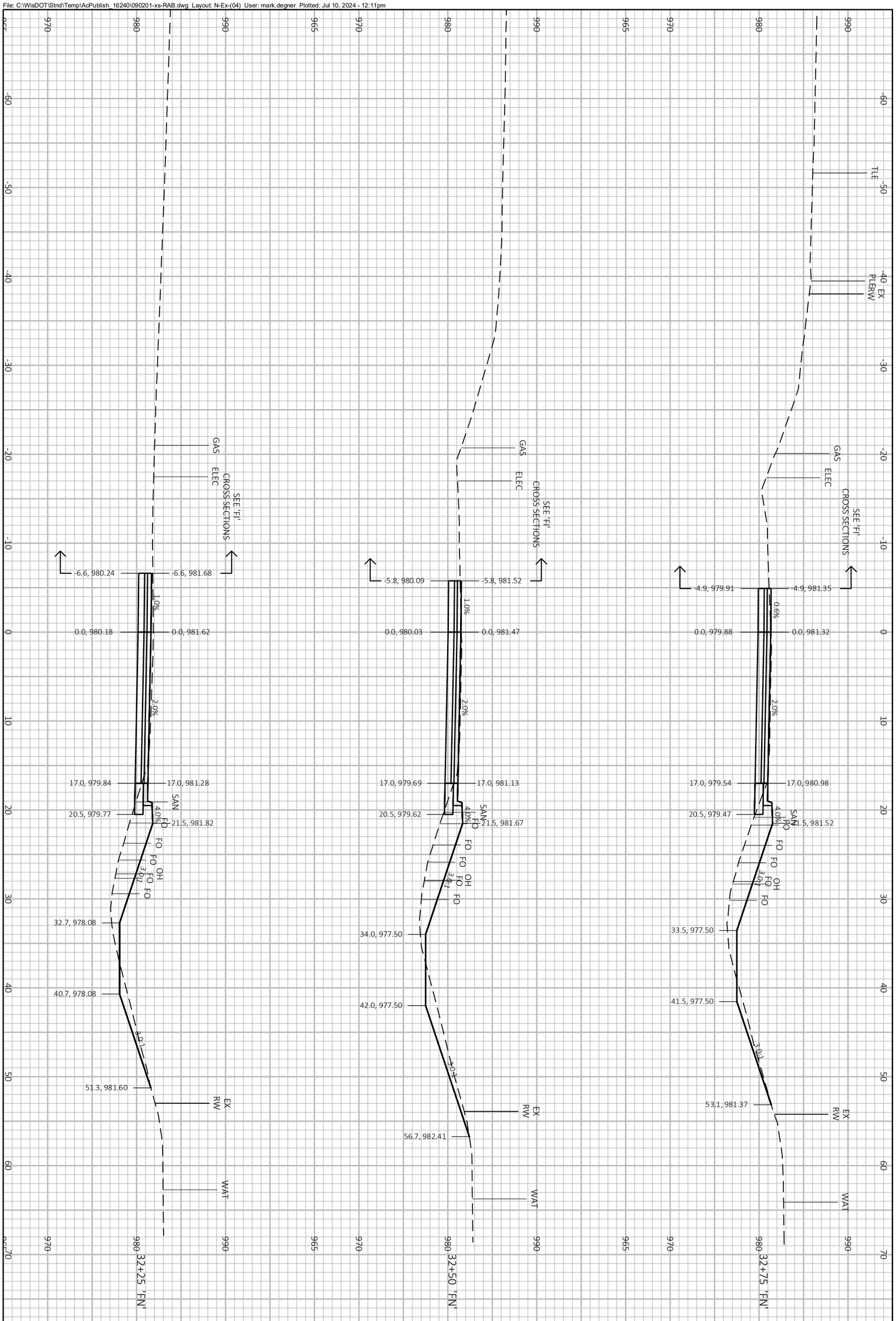
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	REVISION: 100% PLANS		

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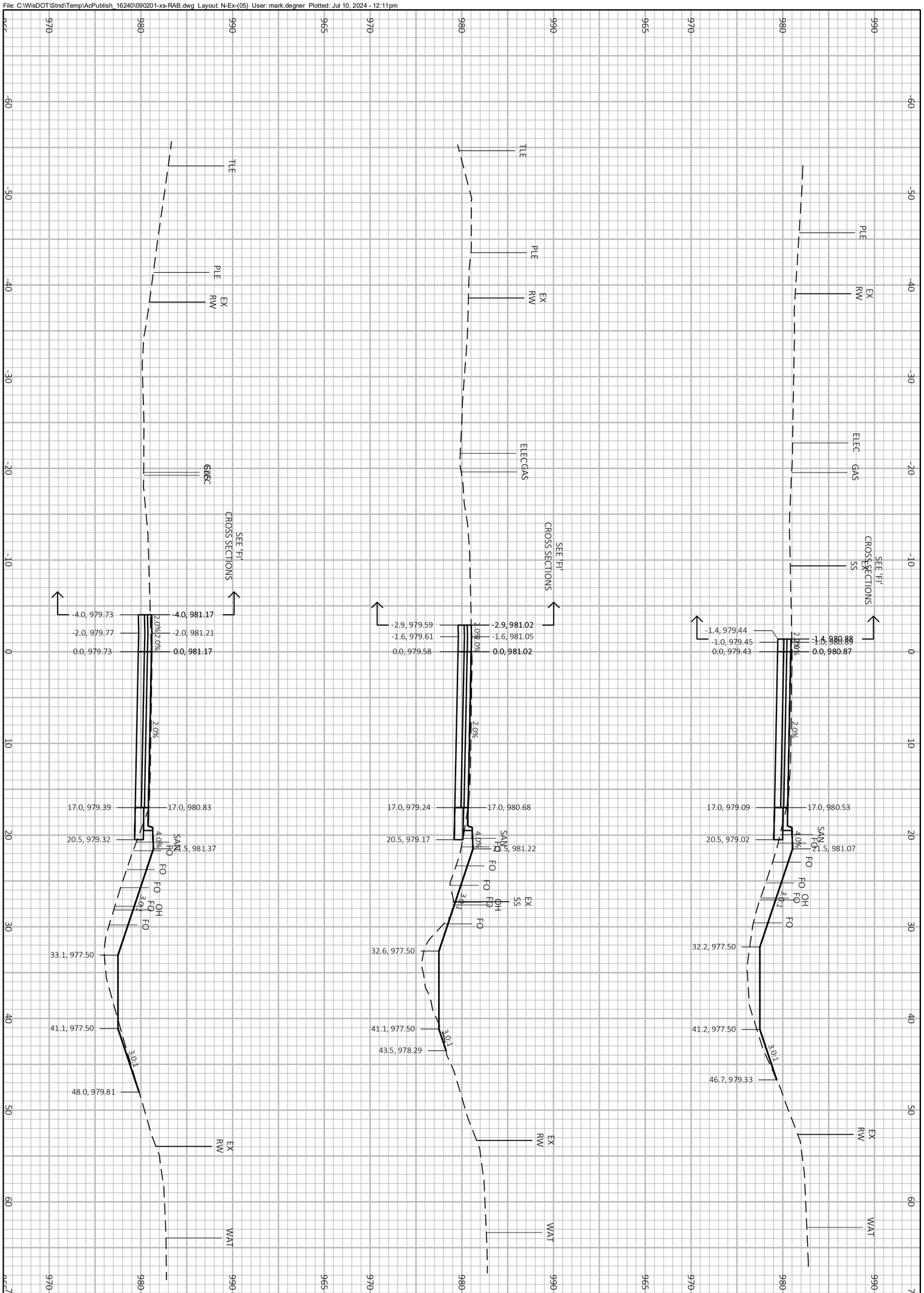
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	REVISION: 100% PLANS	

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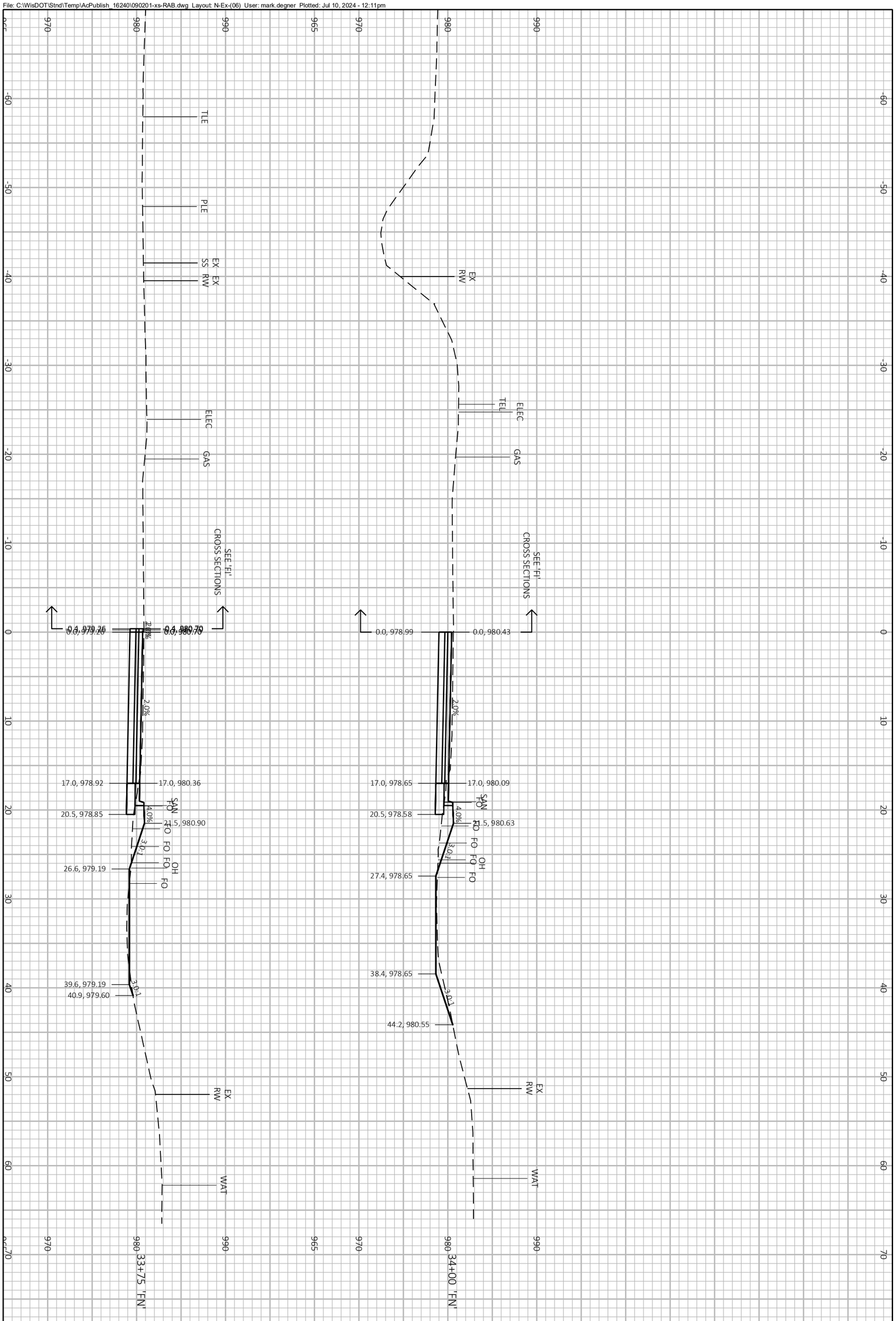
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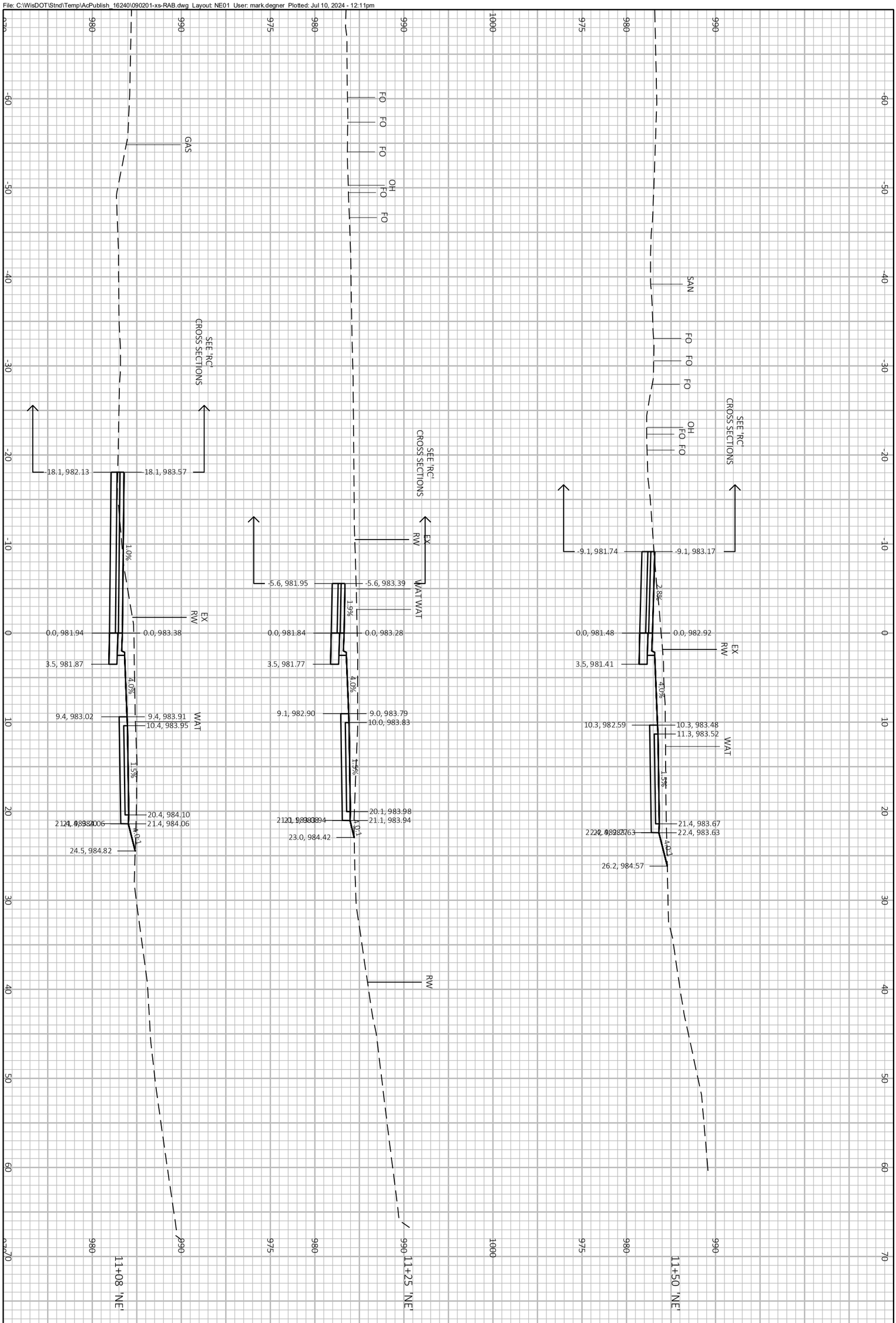
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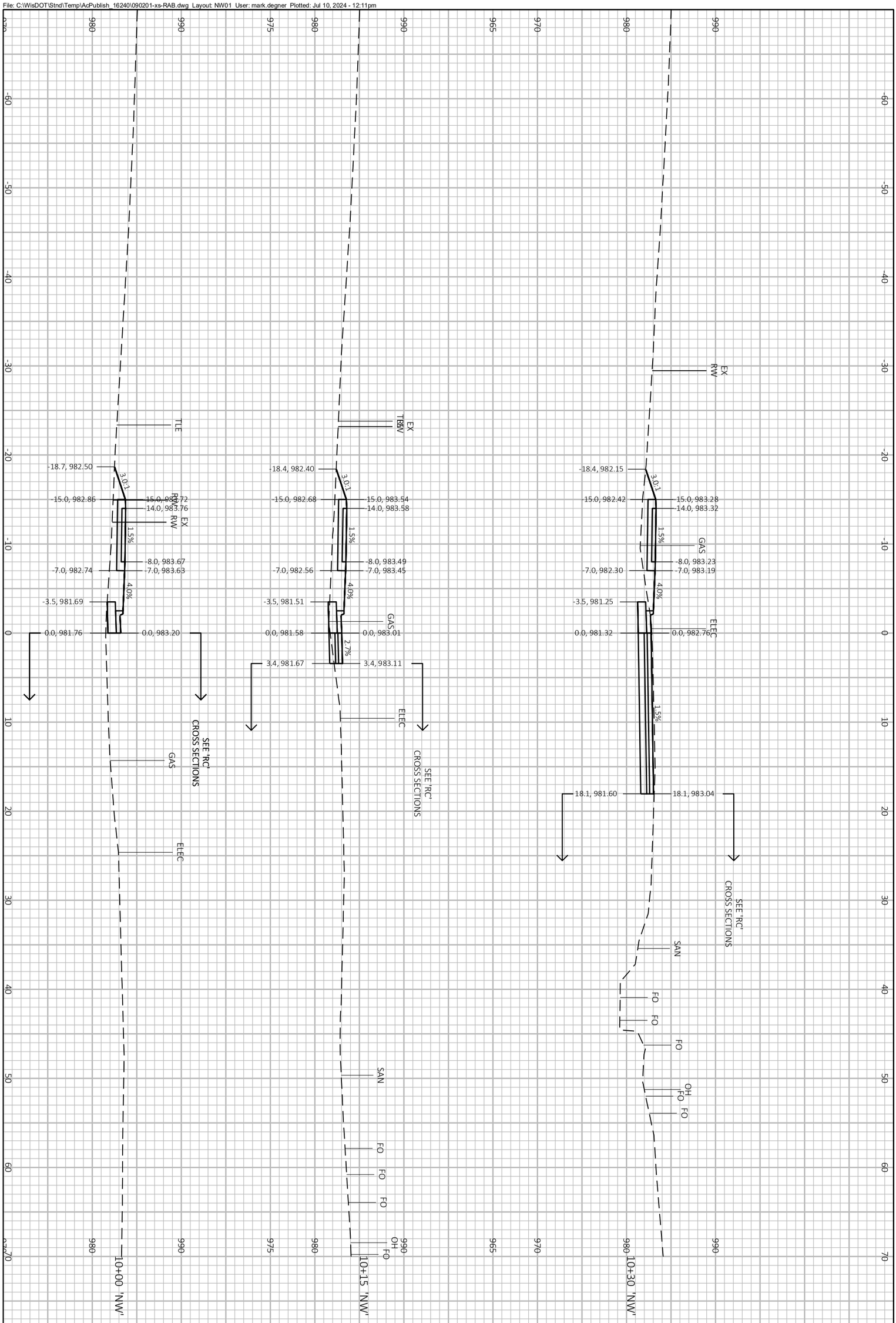
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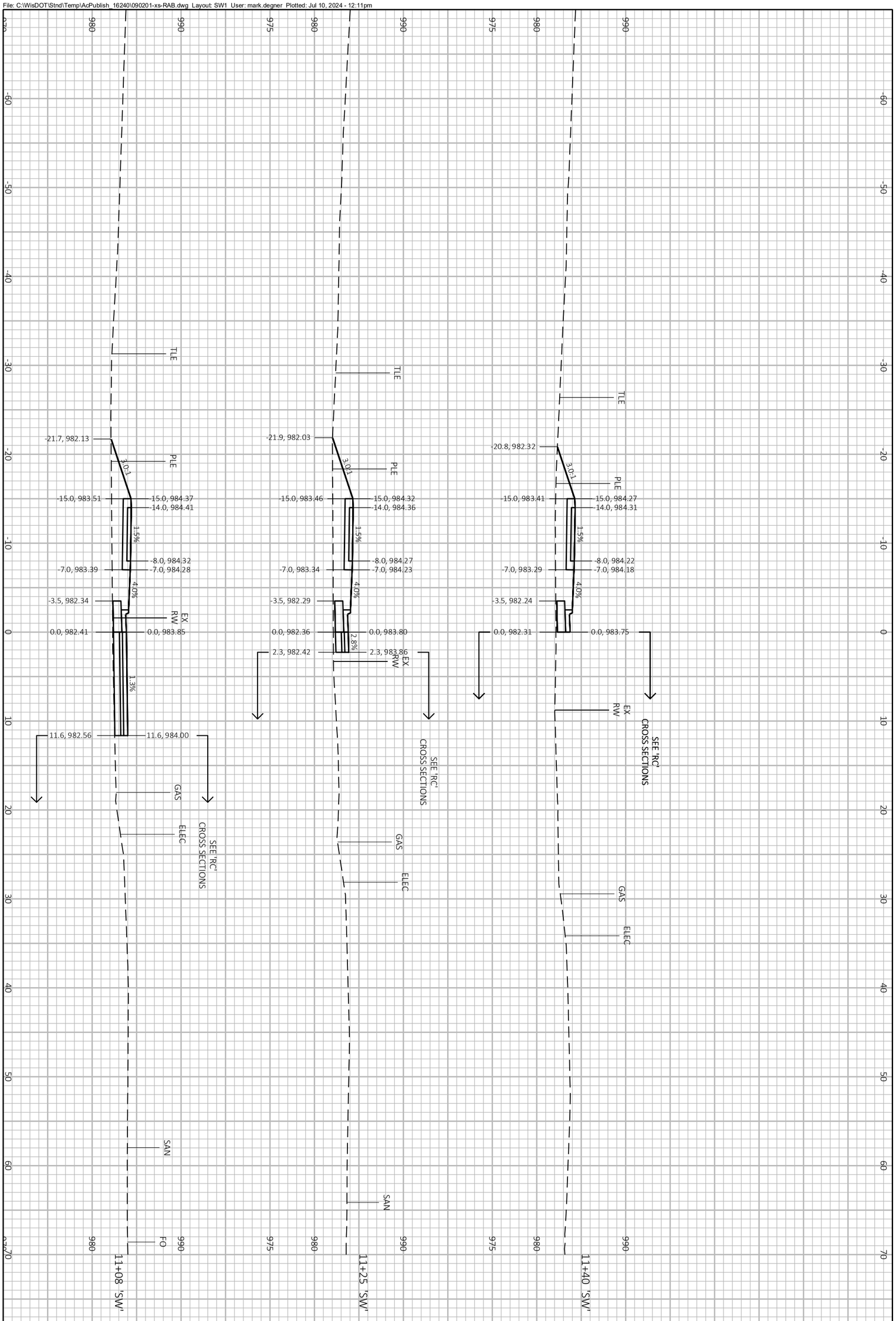
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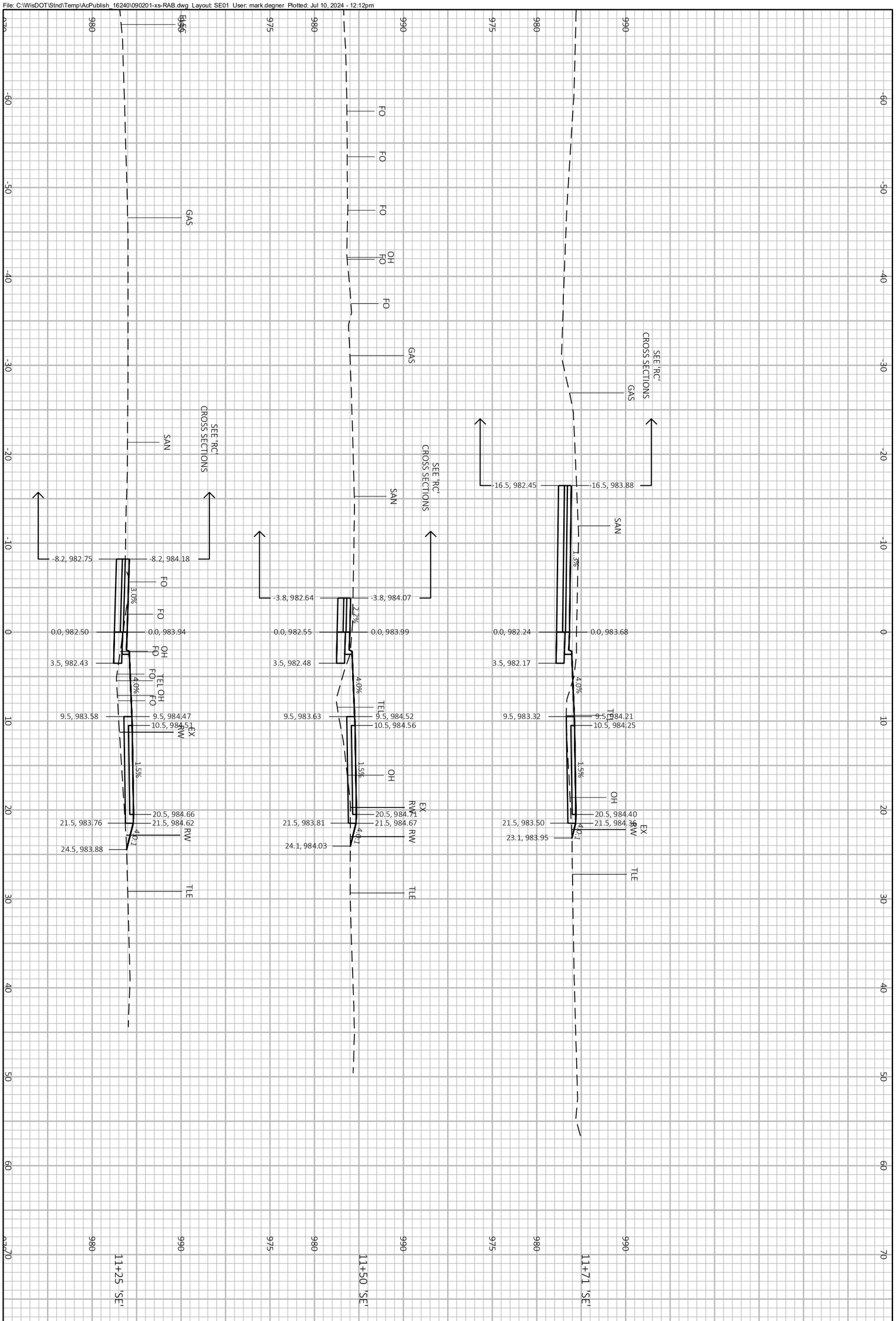
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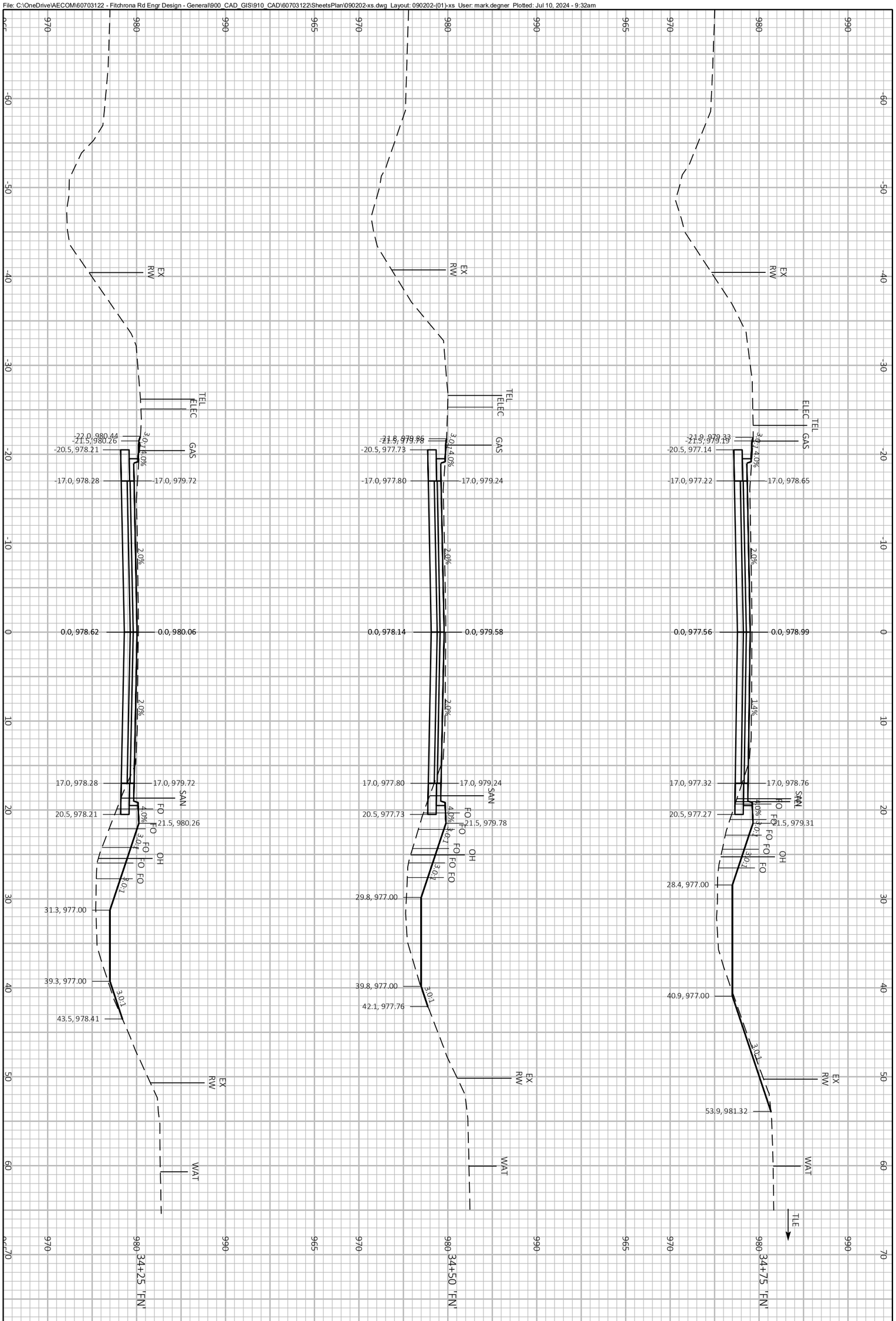
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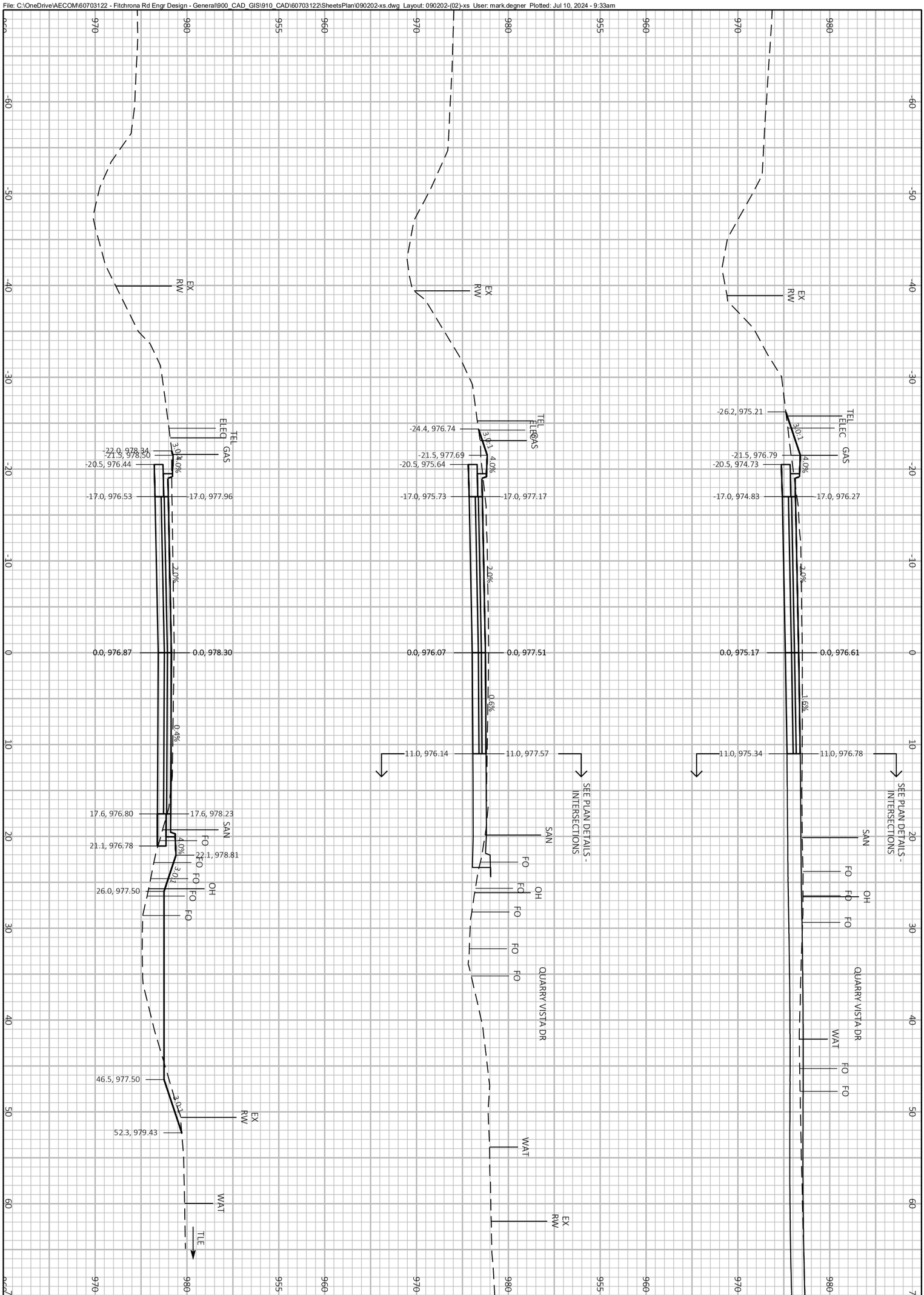
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SHEET NO.: **C-950**	DATE: JULY 2024		
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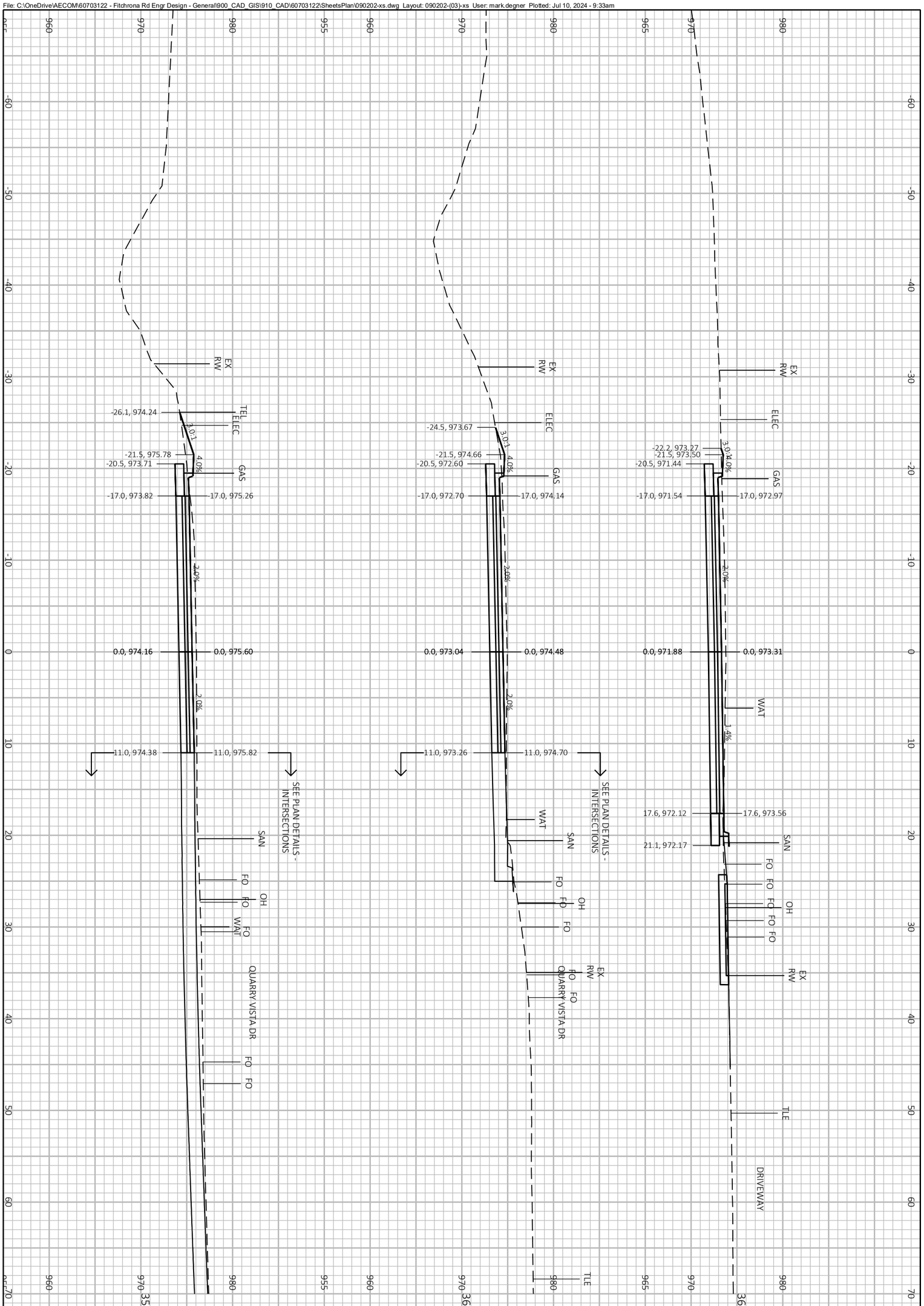
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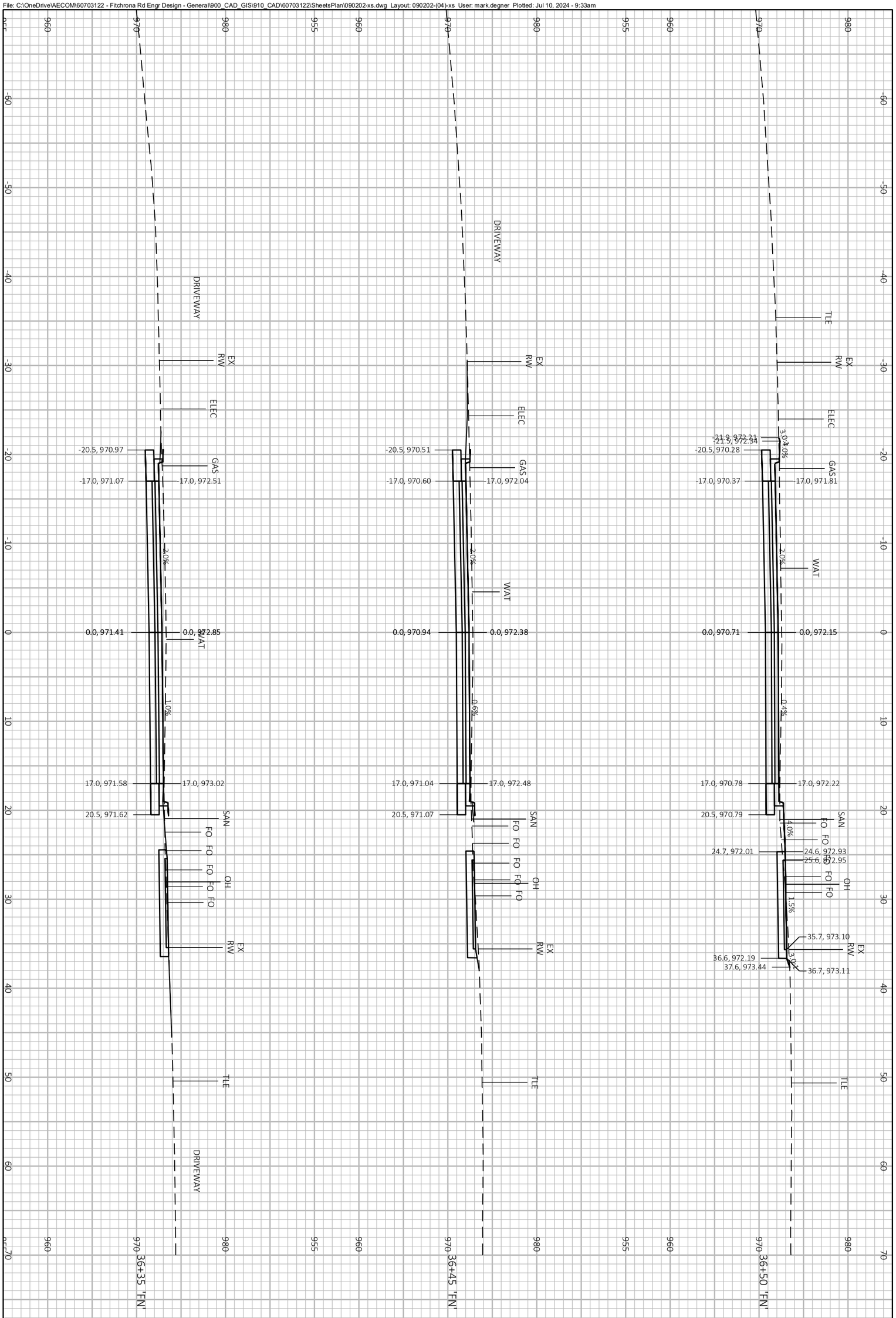
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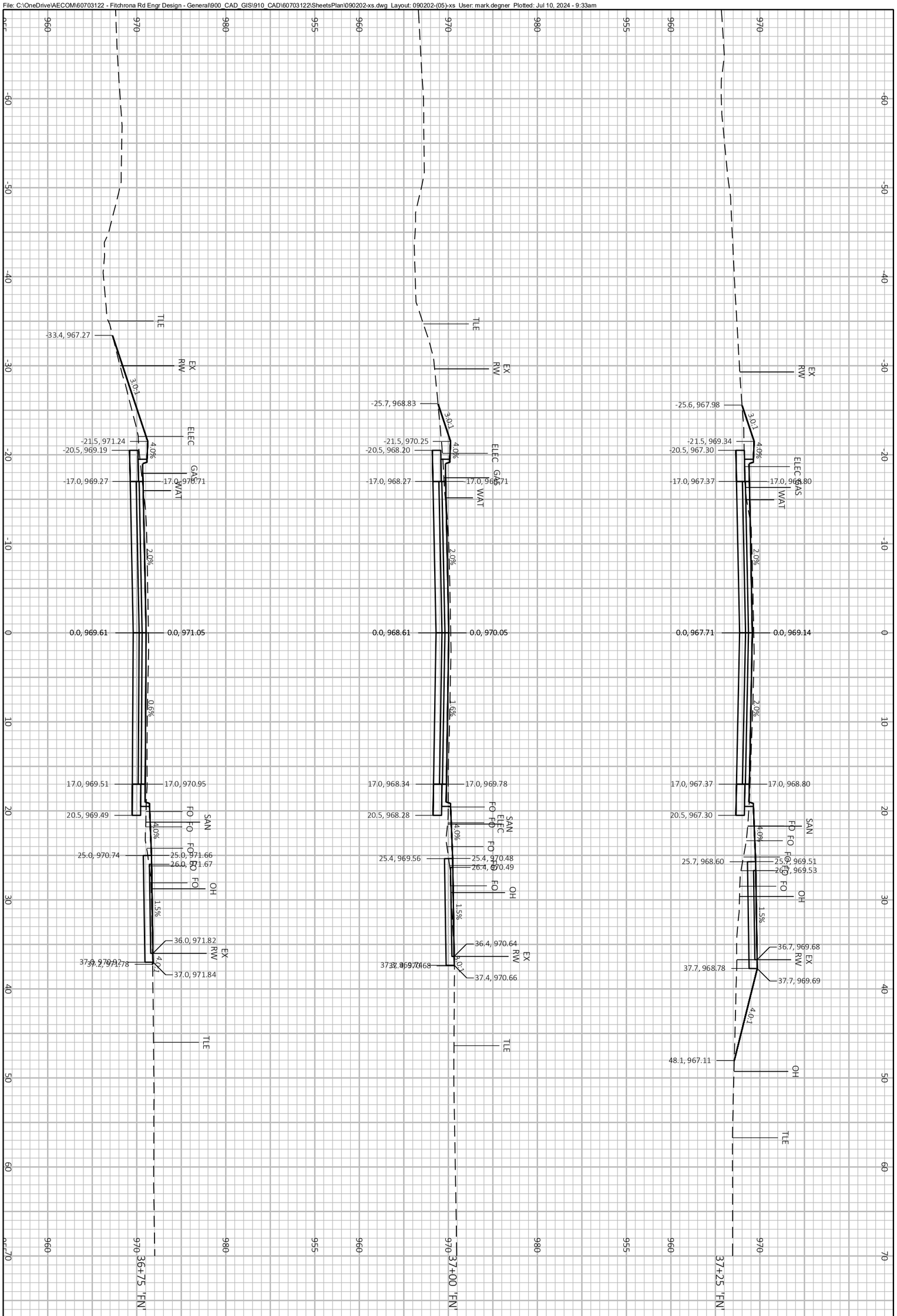
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SHEET NO.: **C-953**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

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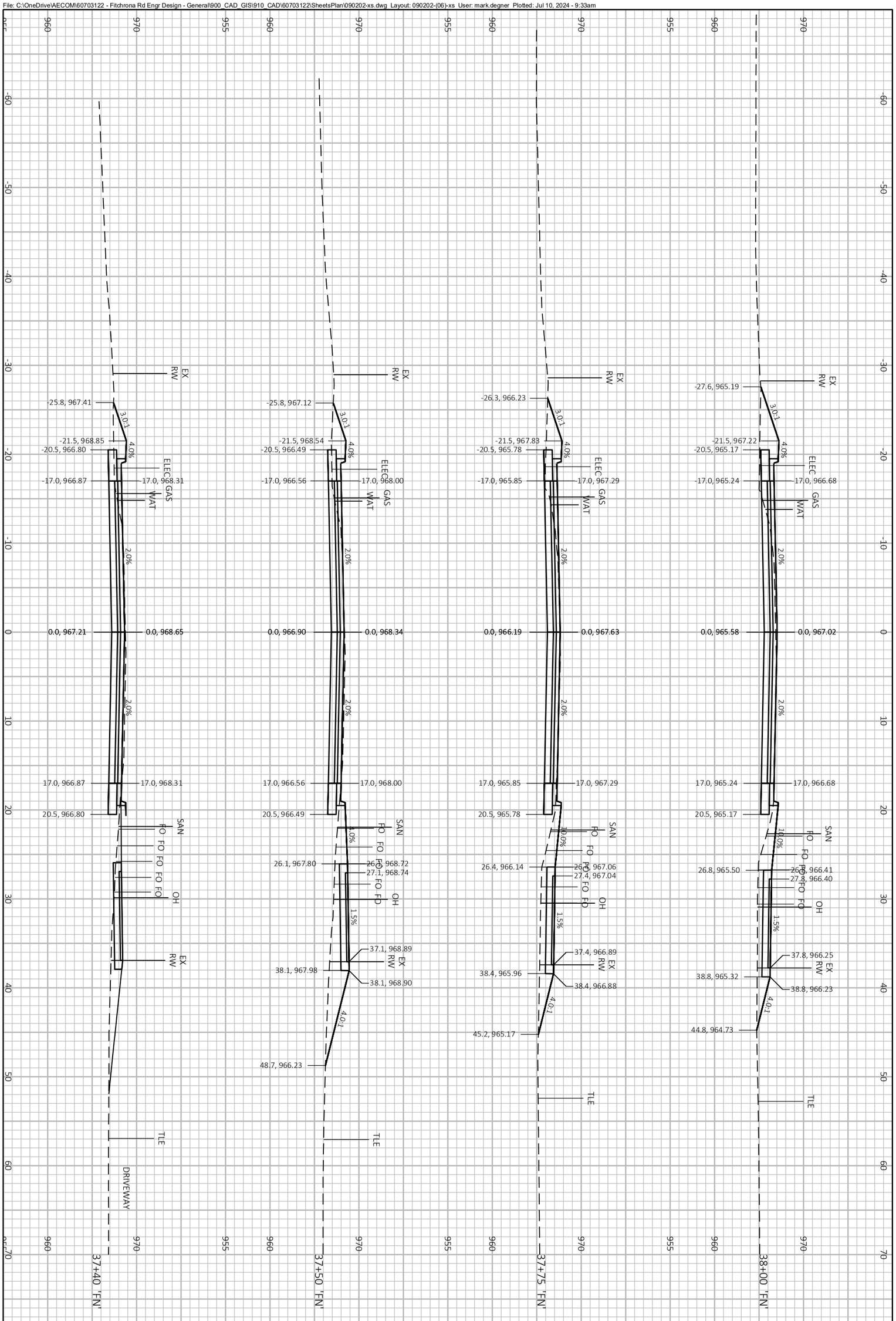
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SHEET NO.: **C-954**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

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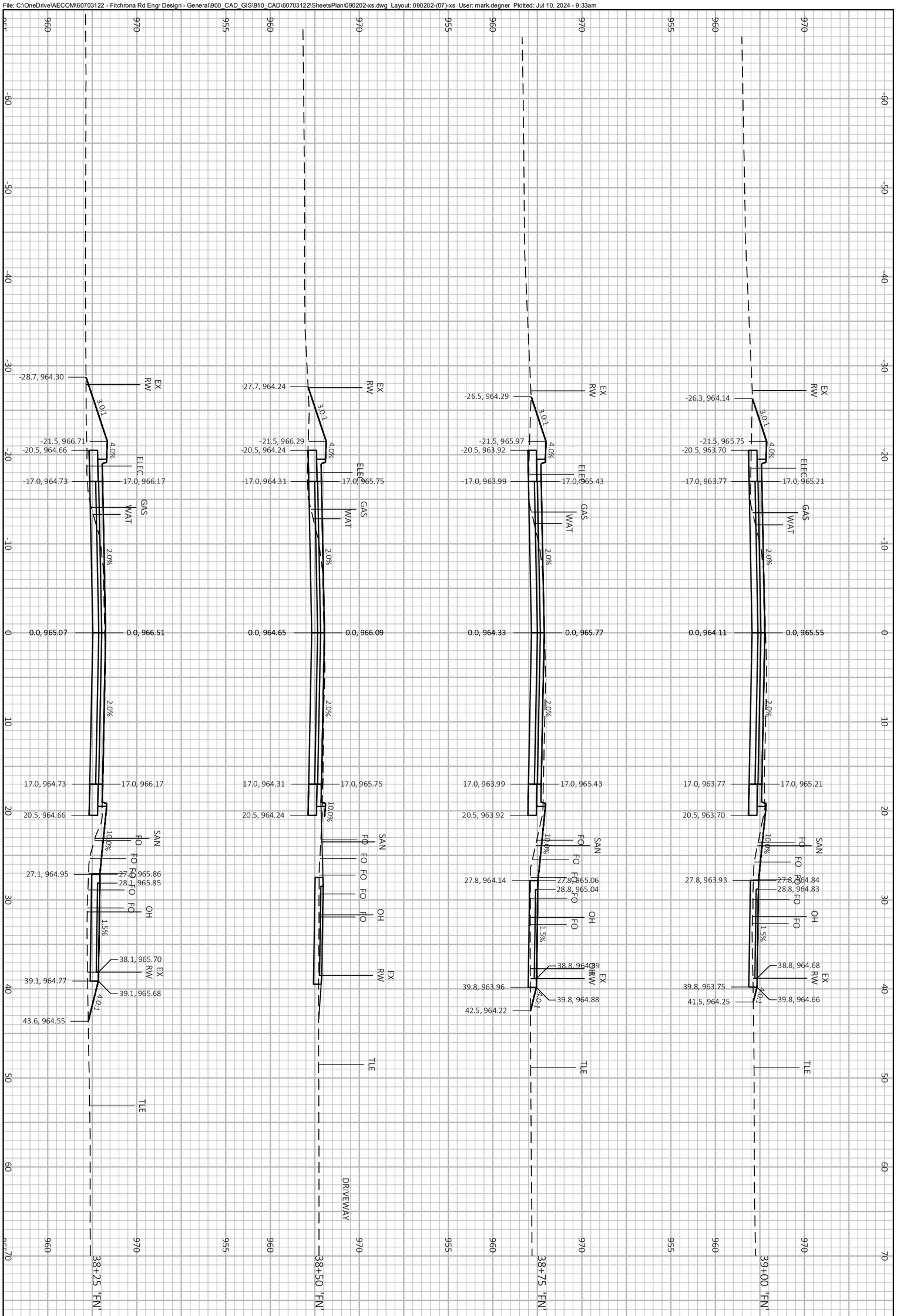
PROJECT NO.: 60703122	SCALE: 1 IN:10 FT	CROSS SECTIONS FITCHRONA ROAD	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-955**	DATE: JULY 2024		
	REVISION: 100% PLANS		

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\090202-xs.dwg Layout: 090202-(06)-xs User: mark.degner Plotted: Jul 10, 2024 - 9:33am



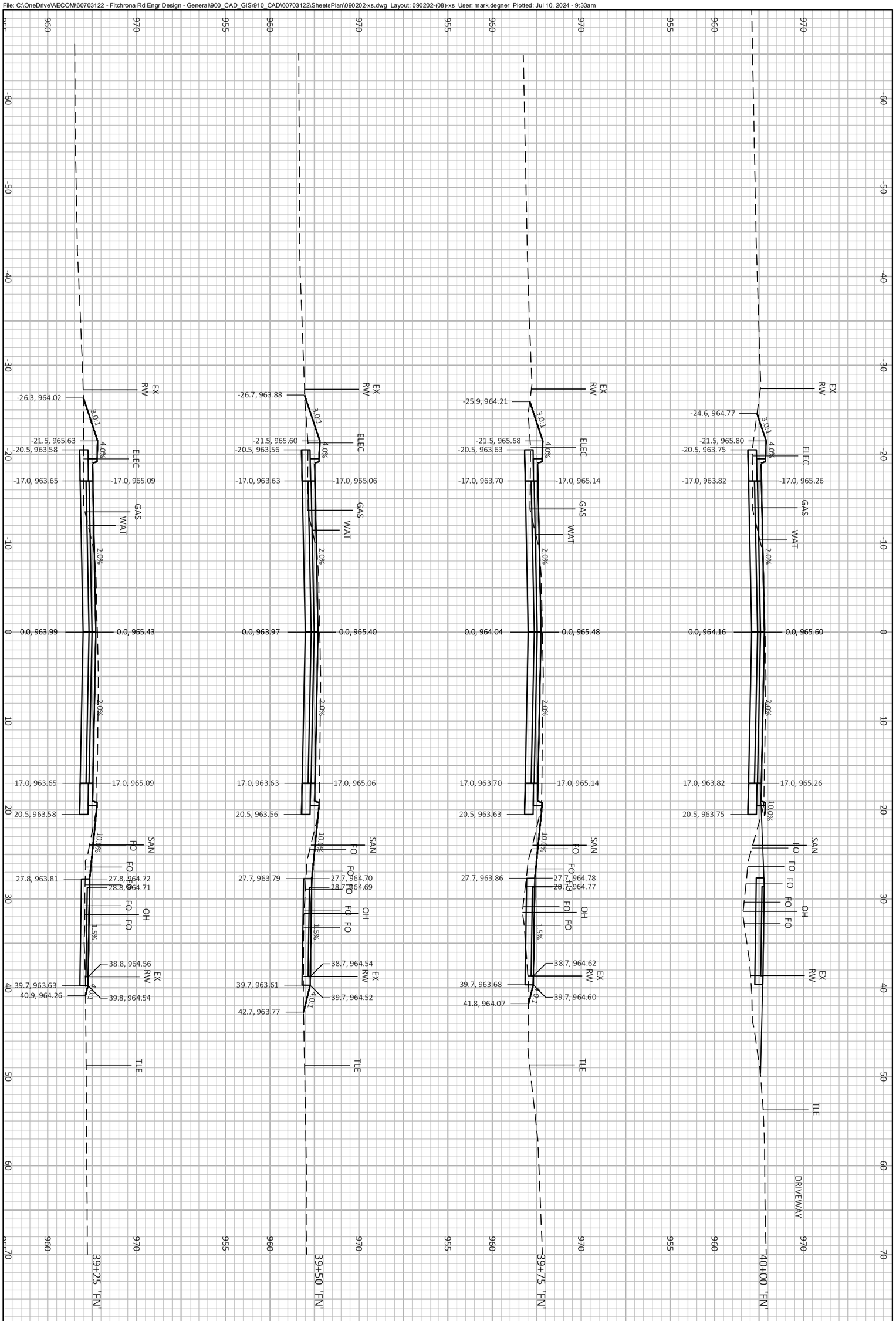
PROJECT NO.: 60703122	SCALE: 1 IN:10 FT	CROSS SECTIONS FITCHRONA ROAD	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-956**	DATE: JULY 2024		
	REVISION: 100% PLANS		

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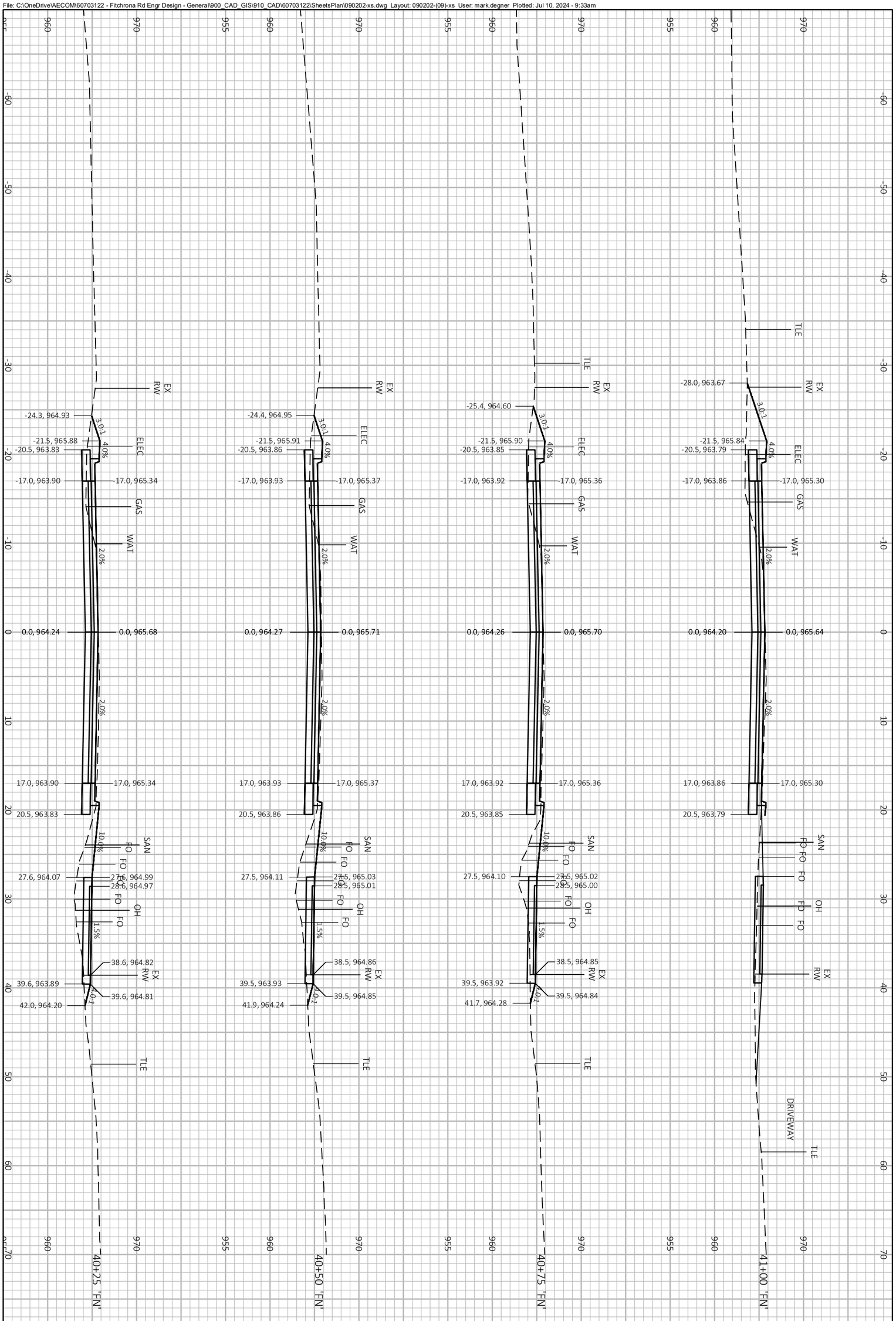
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SHEET NO.: **C-957**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\090202-xs.dwg Layout: 090202-(08)-xs User: mark.degner Plotted: Jul 10, 2024 - 9:33am



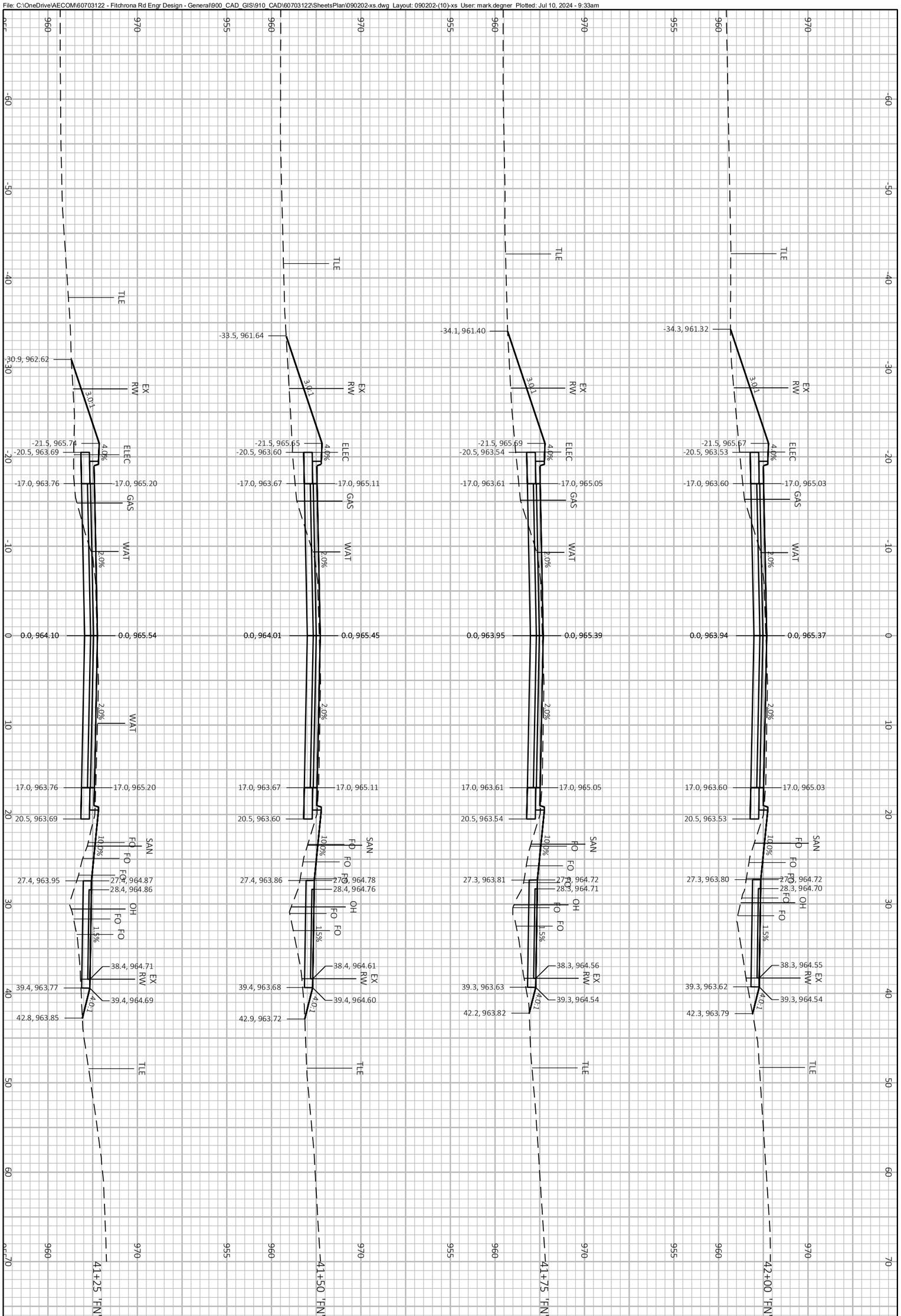
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SHEET NO.: **C-958**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

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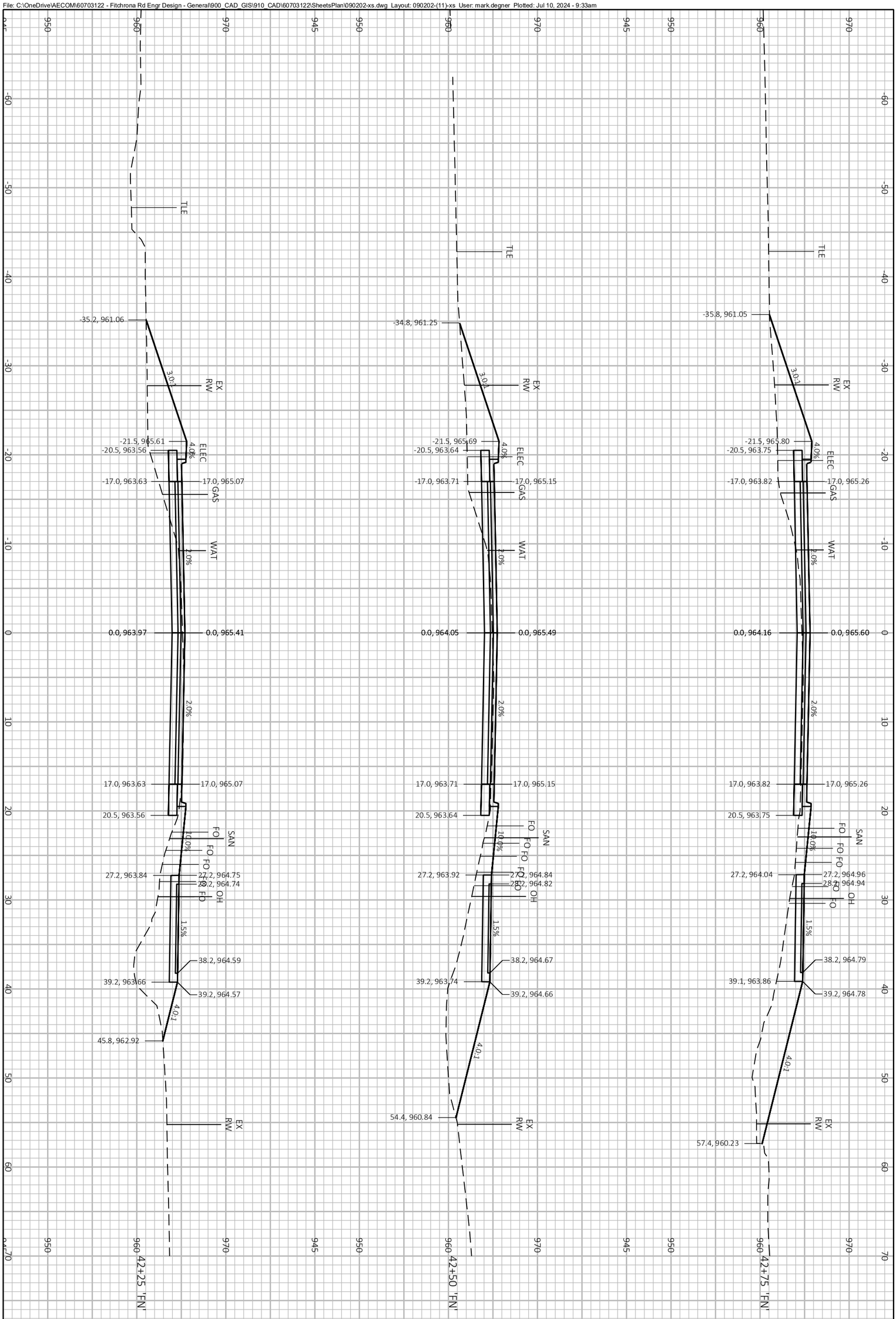
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SHEET NO.: **C-959**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

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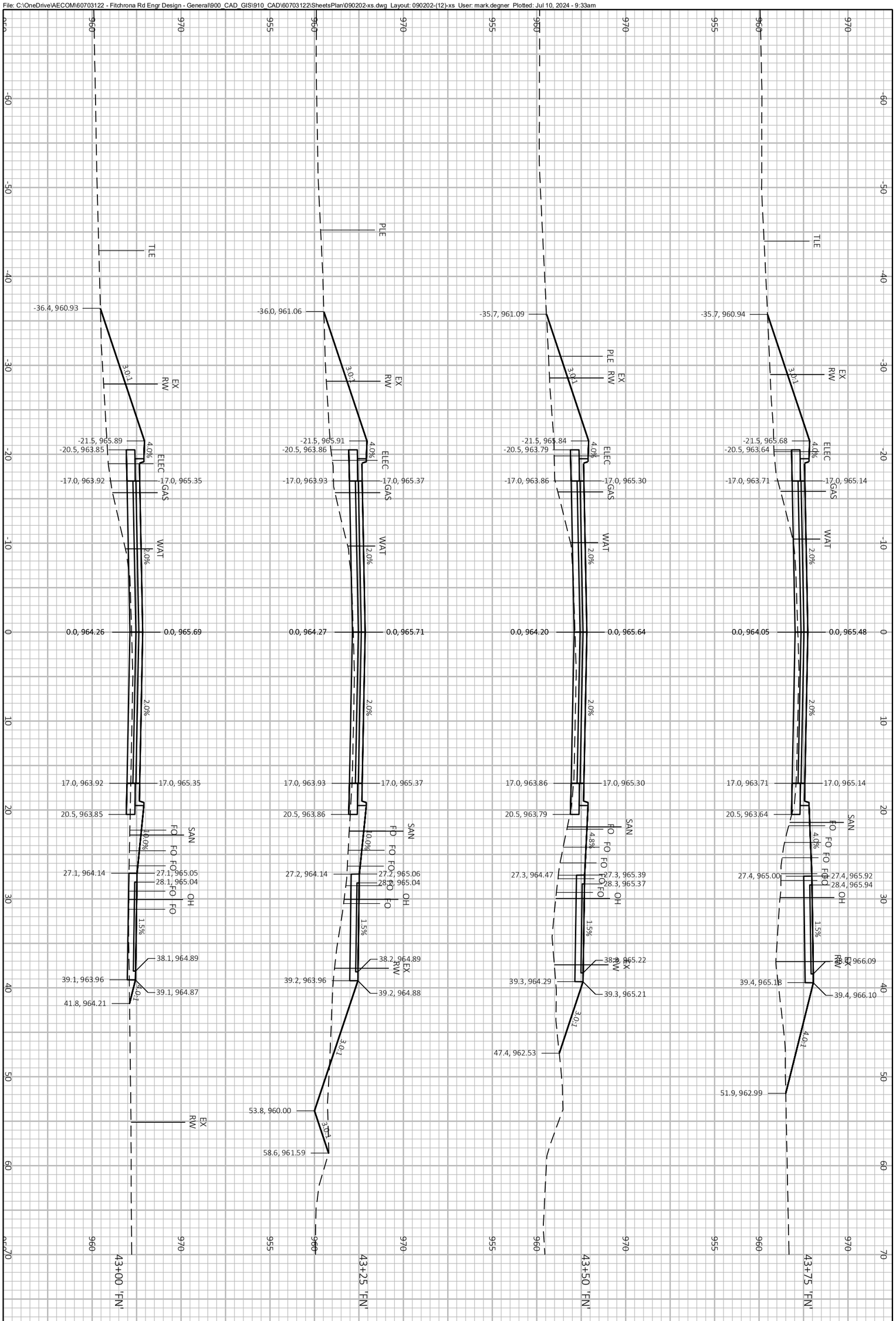
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SHEET NO.: **C-960**	DATE: JULY 2024		
	REVISION: 100% PLANS		

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\090202-xs.dwg Layout: 090202-(11)-xs User: mark.degner Plotted: Jul 10, 2024 - 9:33am



PROJECT NO.: 60703122	SCALE: 1 IN:10 FT	CROSS SECTIONS FITCHRONA ROAD	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-961**	DATE: JULY 2024		
	REVISION: 100% PLANS		

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\090202-xs.dwg Layout: 090202-(12)-xs User: mark.degner Plotted: Jul 10, 2024 - 9:33am



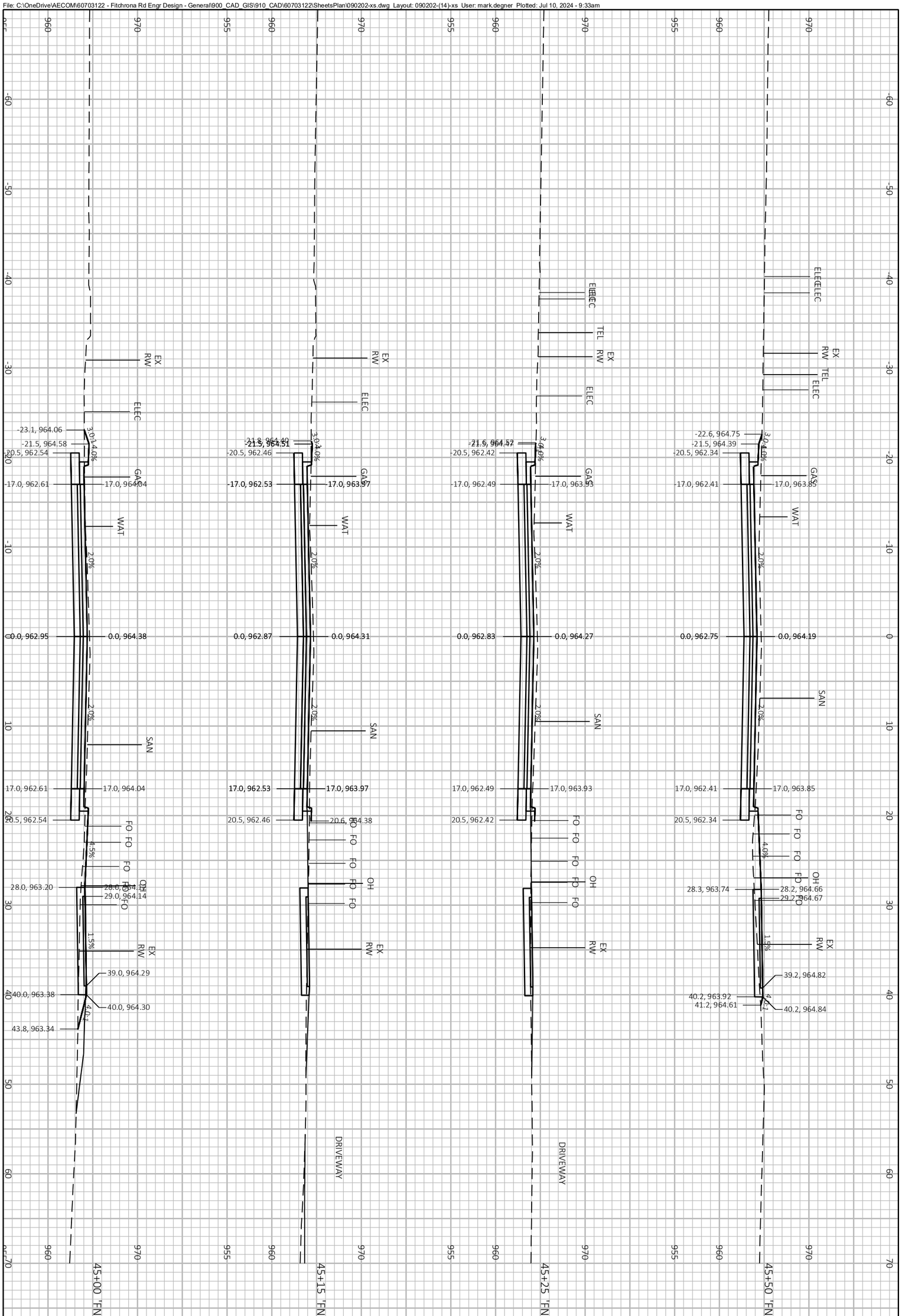
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SHEET NO.: **C-962**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

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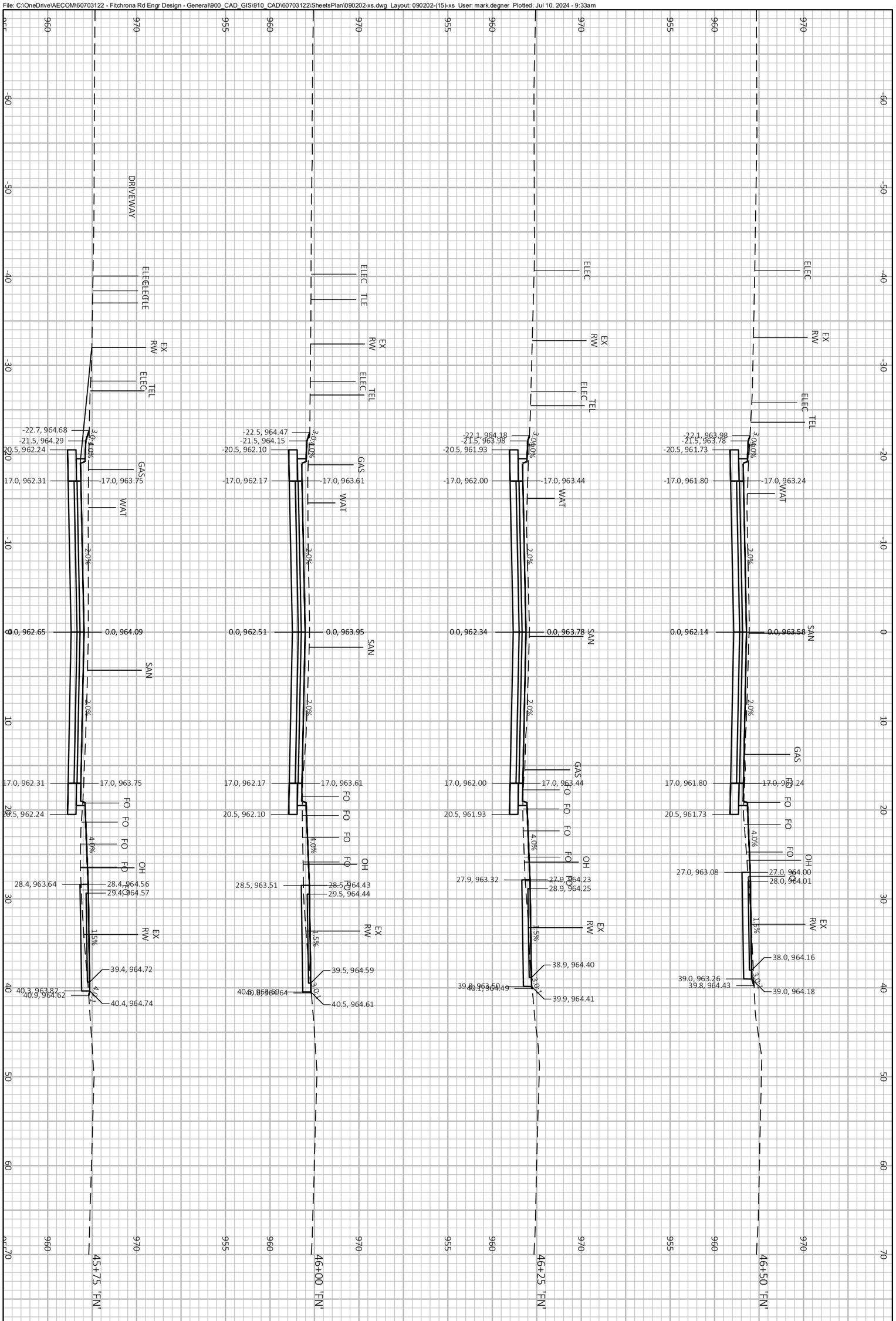
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SHEET NO.: **C-963**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

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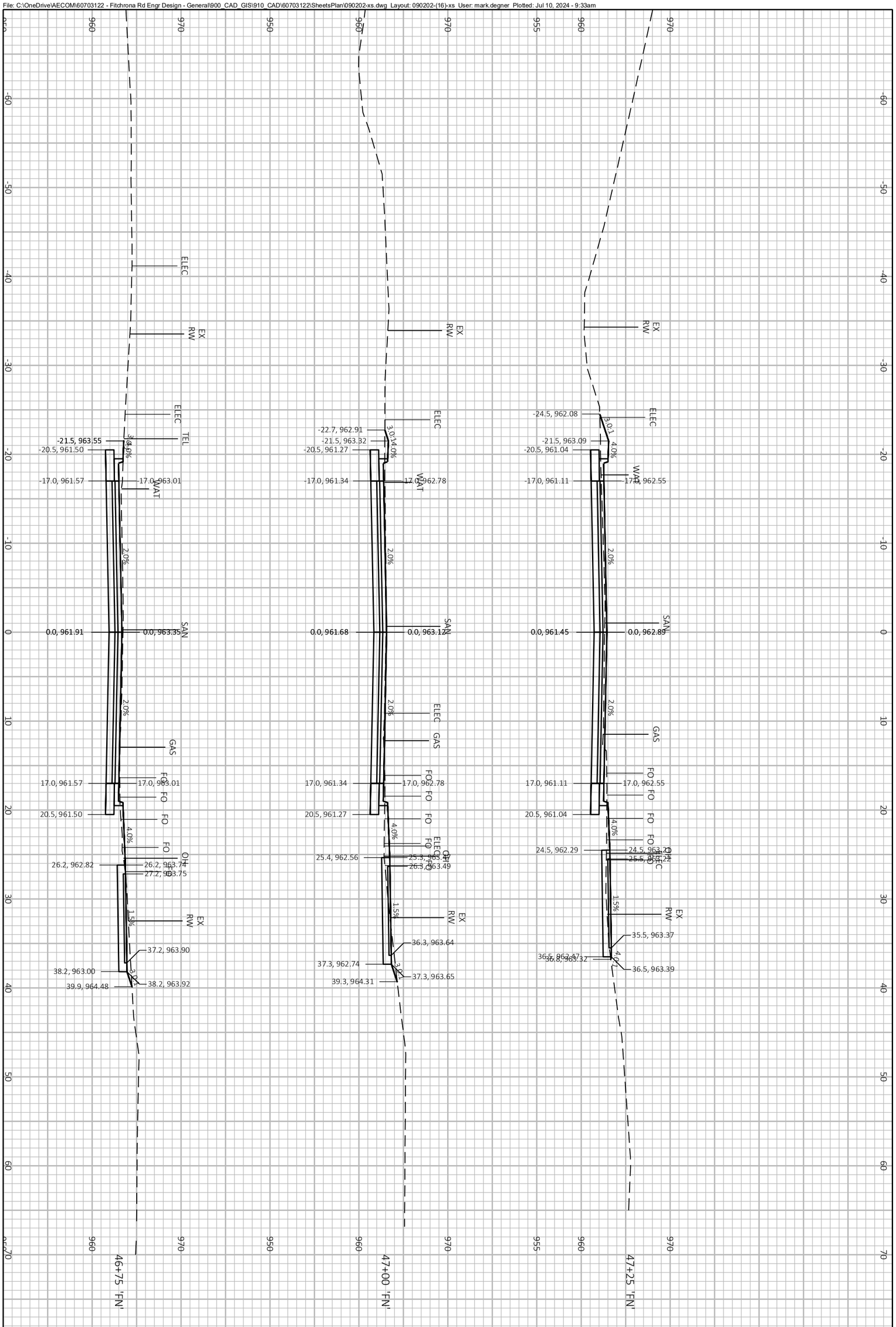
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SHEET NO.: **C-964**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

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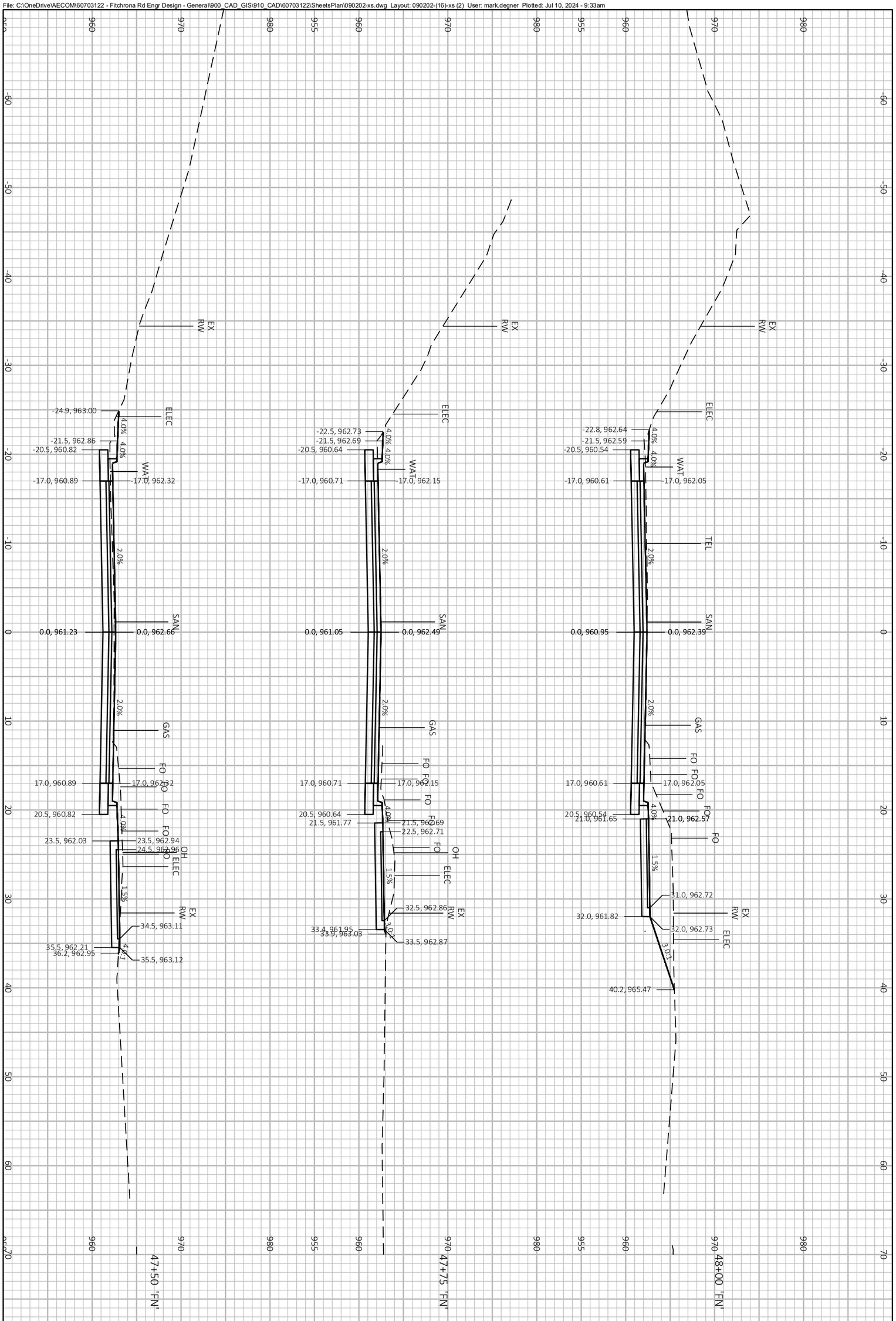
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SHEET NO.: **C-965**	DATE: JULY 2024	
	REVISION: 100% PLANS	THE CITY OF Fitchburg PUBLIC WORKS

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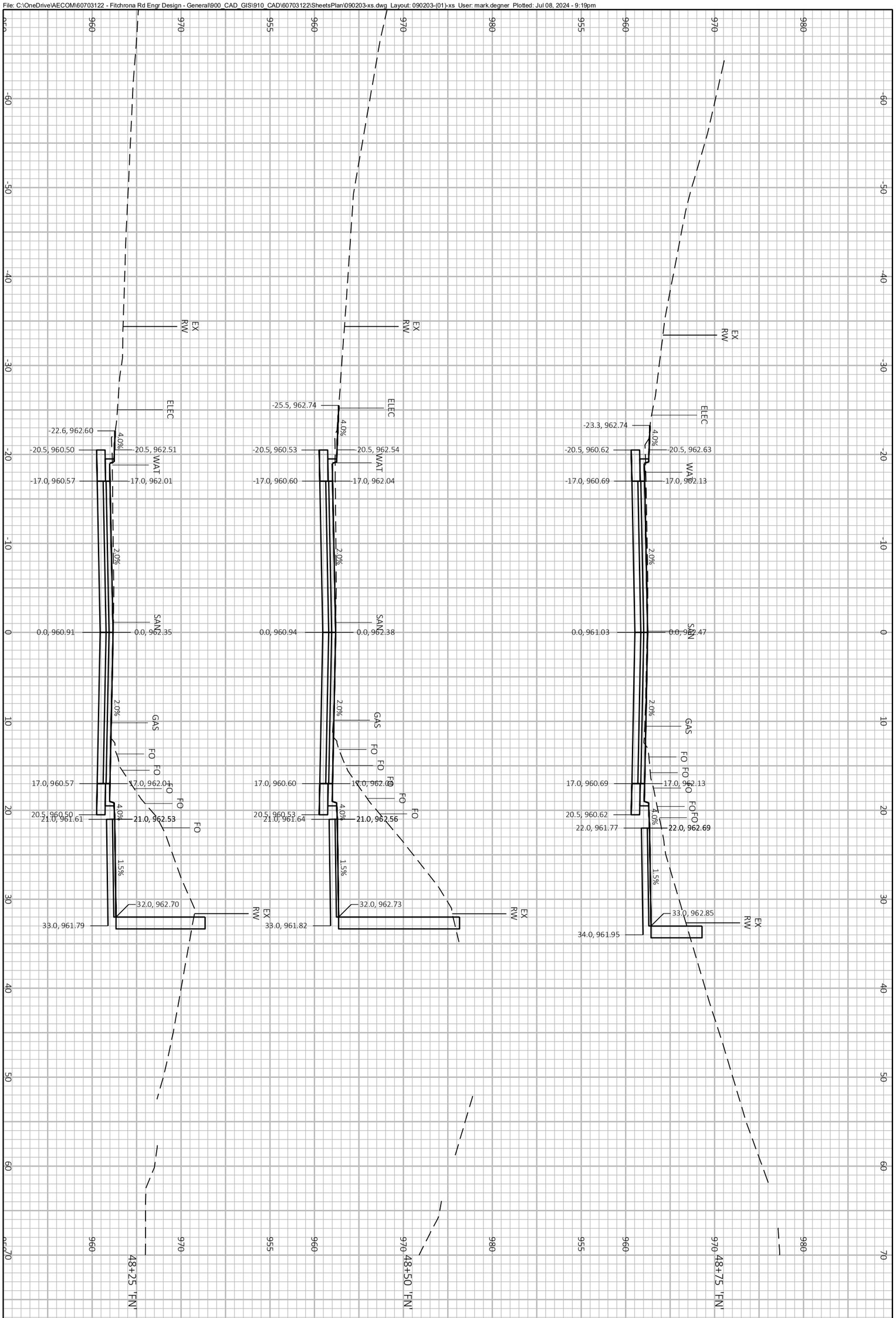
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SHEET NO.: **C-966**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

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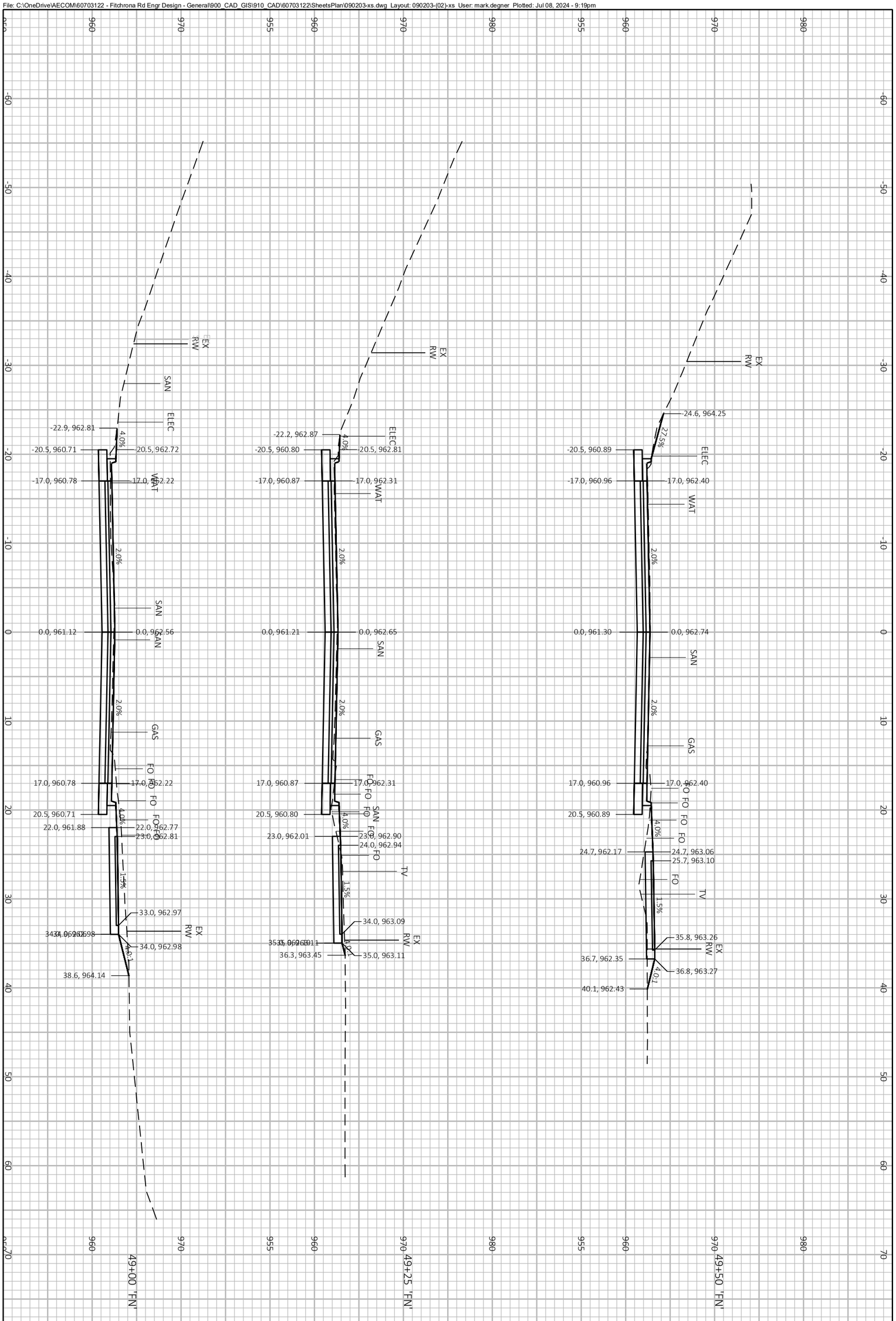
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SHEET NO.: **C-967**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

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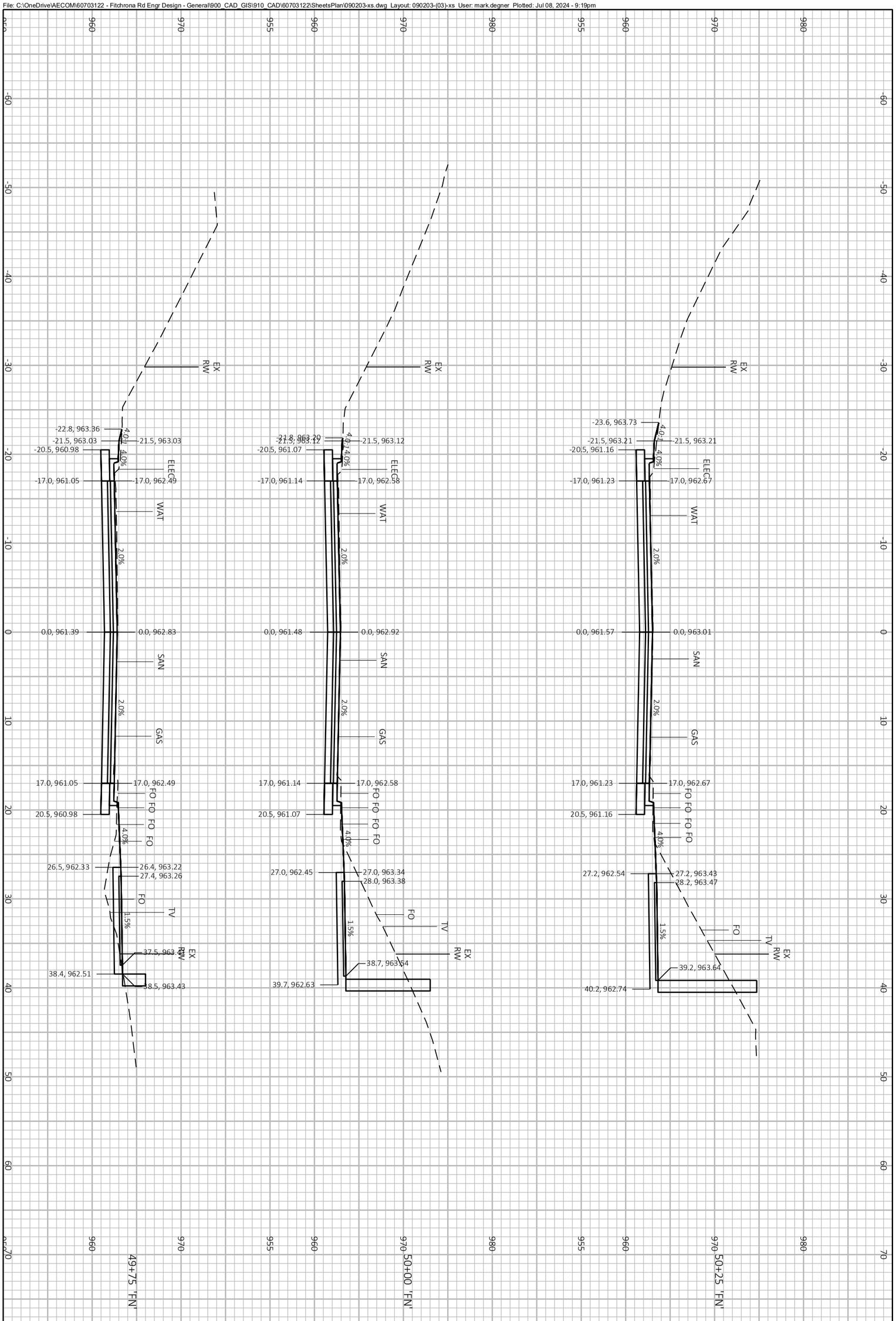
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SHEET NO.: **C-968**	DATE: JULY 2024		
	REVISION: 100% PLANS		

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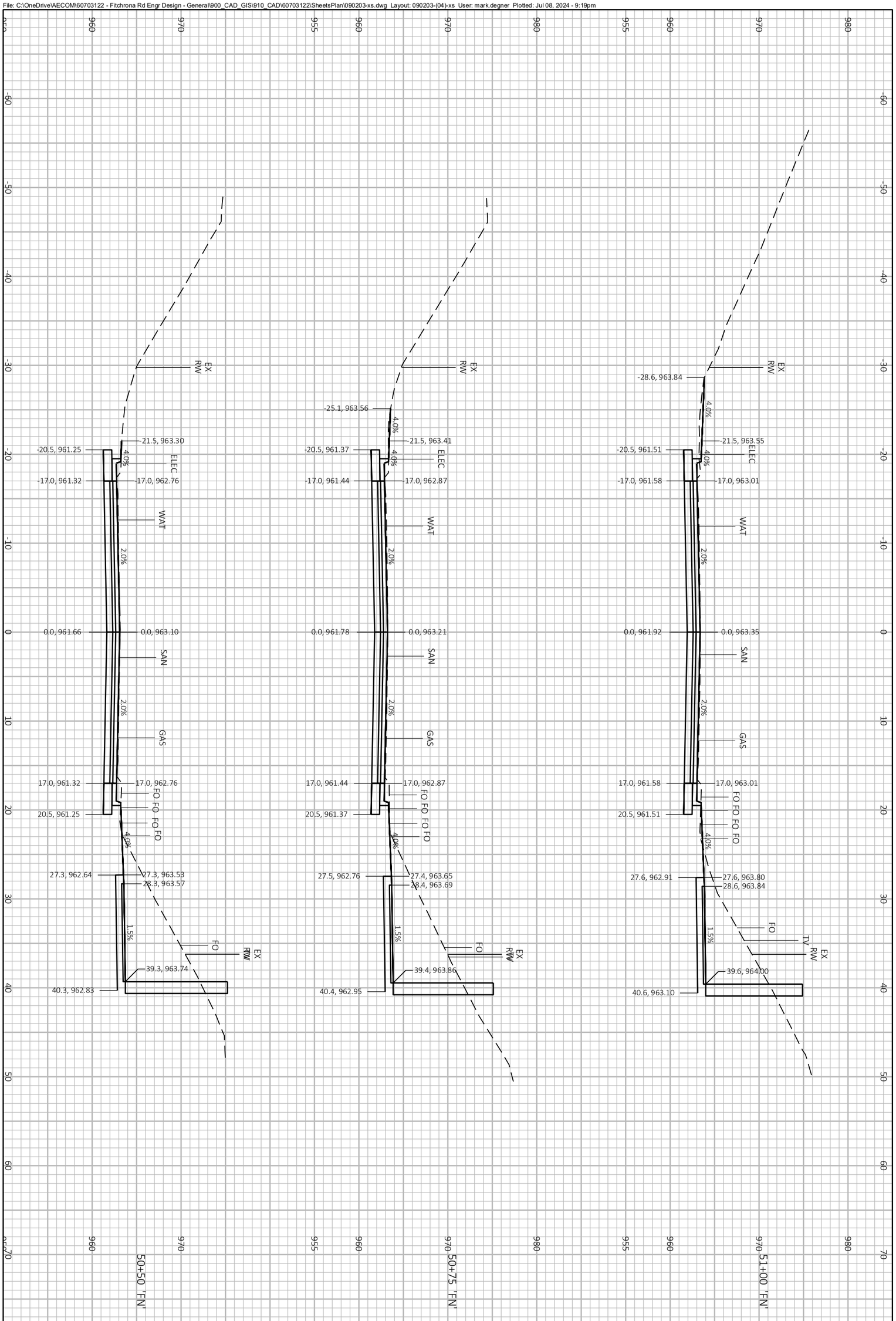
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	REVISION: 100% PLANS		

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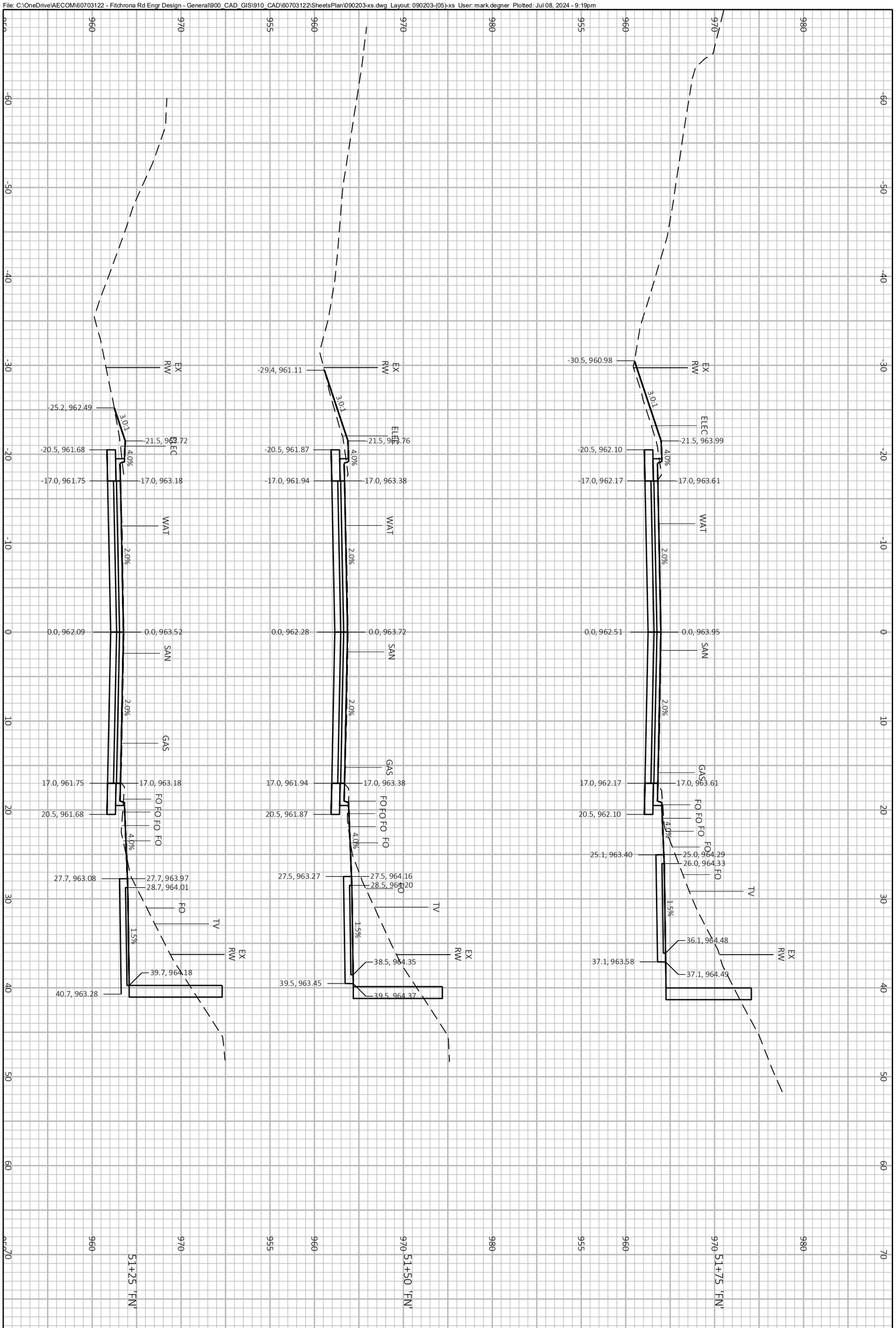
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	REVISION: 100% PLANS		

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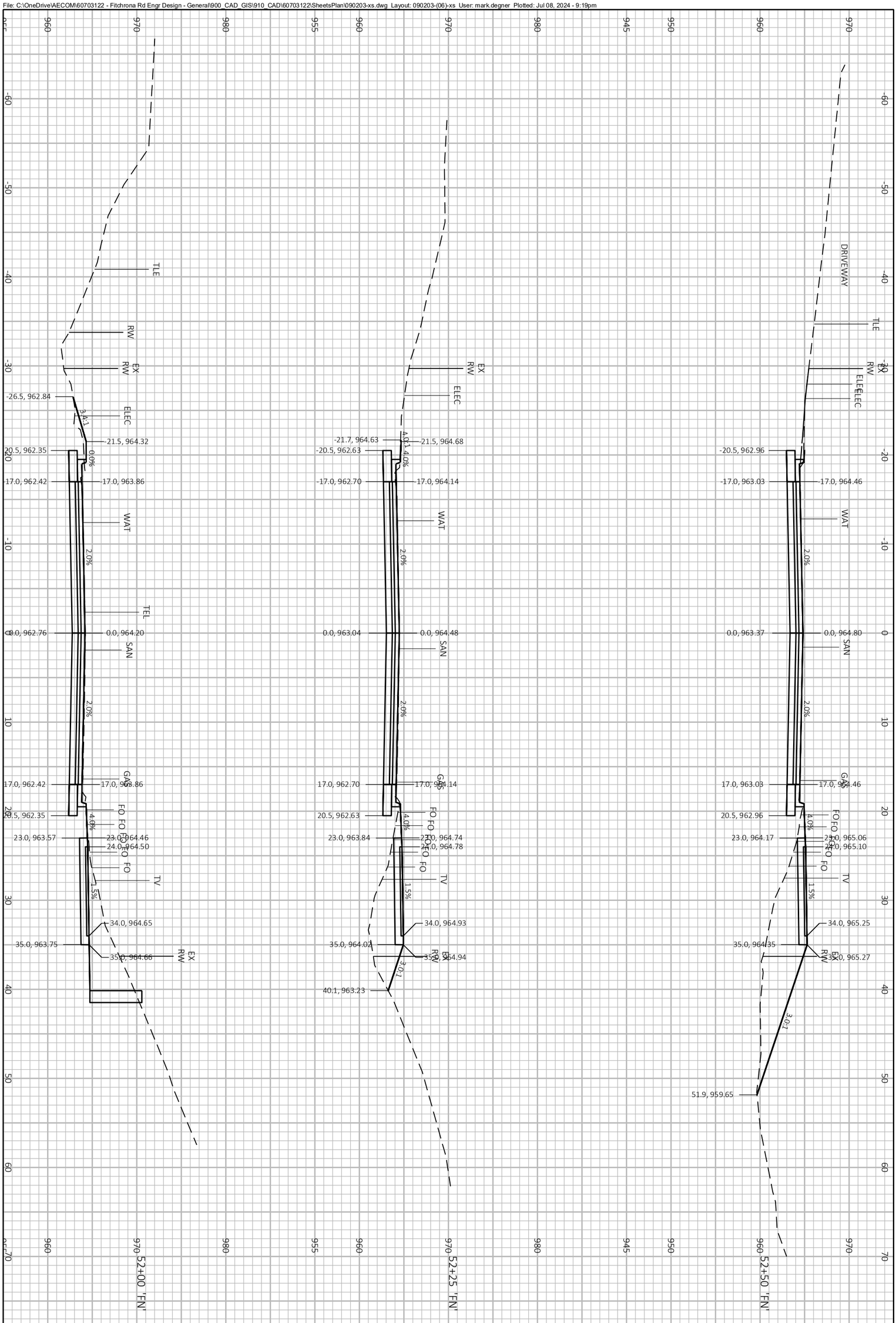
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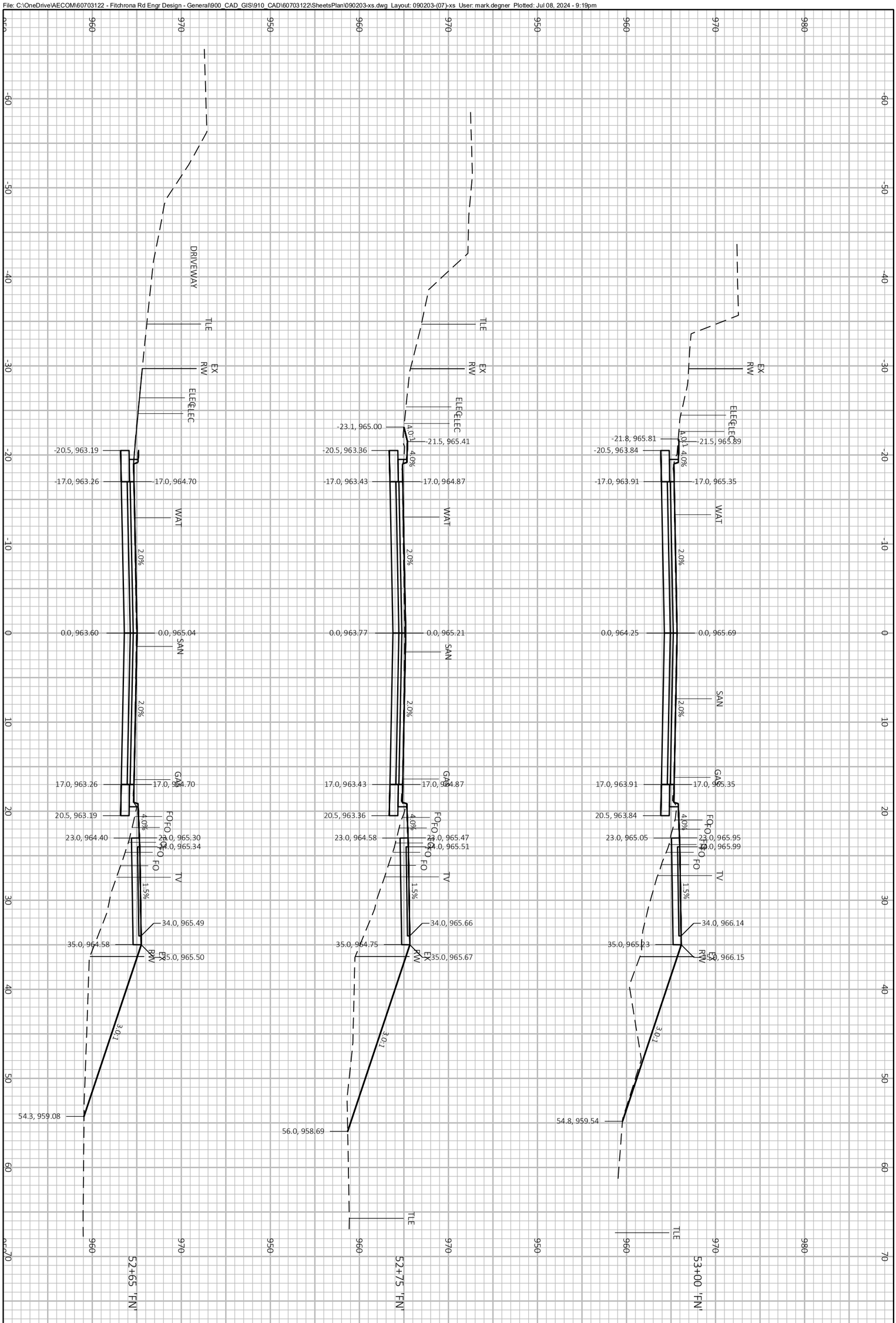
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SHEET NO.: **C-972**	DATE: JULY 2024		
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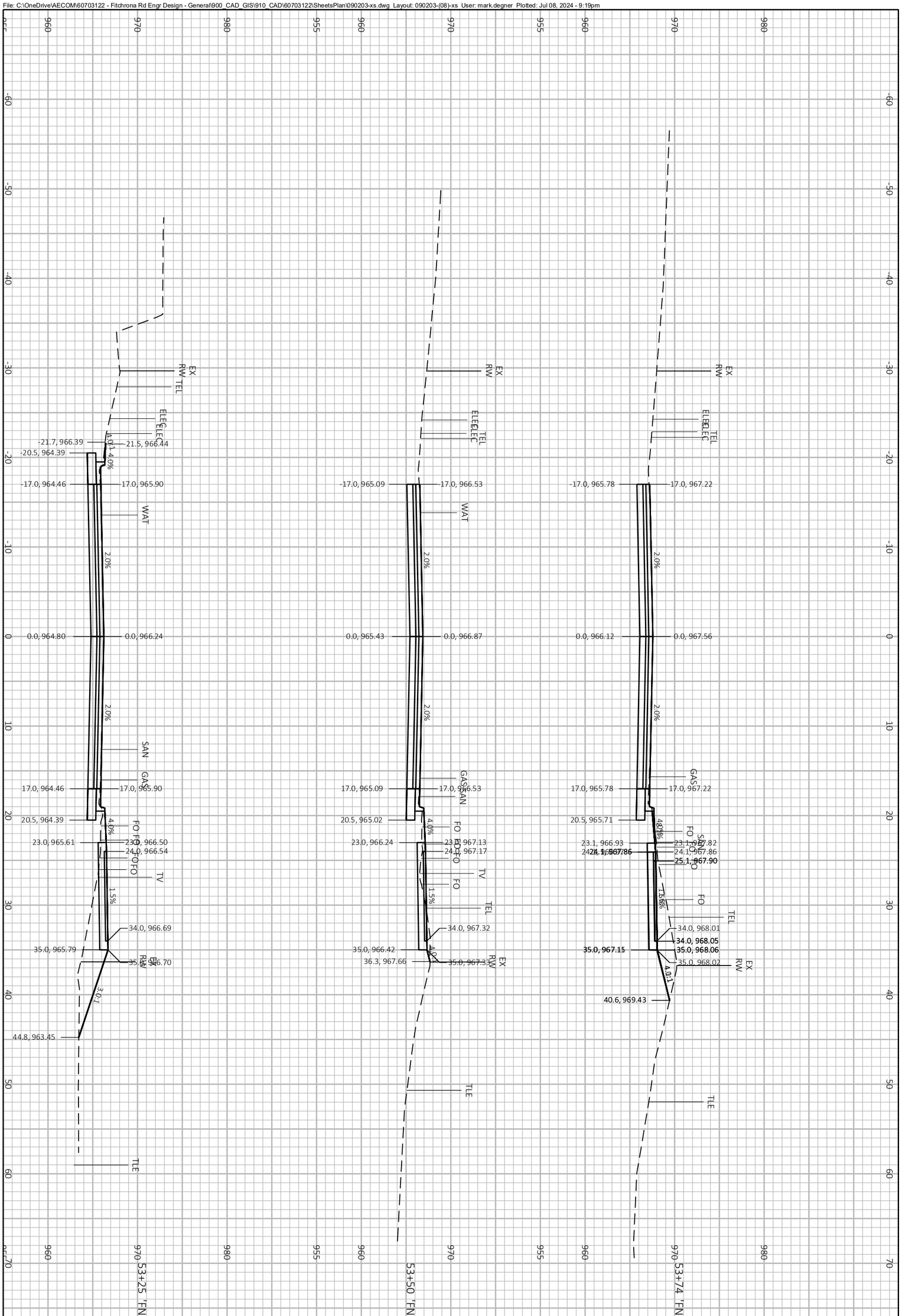
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SHEET NO.: **C-973**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

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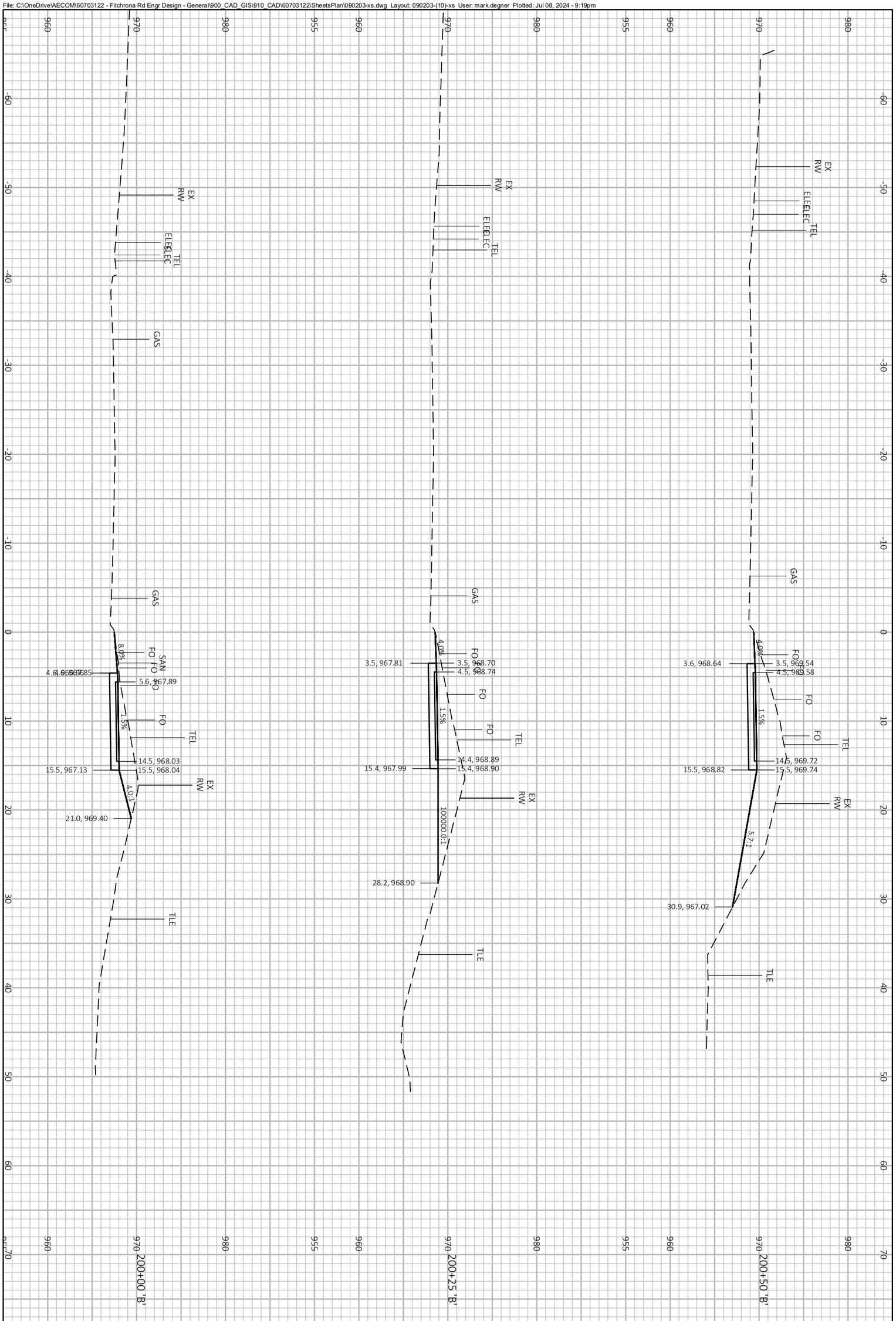
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SHEET NO.: **C-974**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
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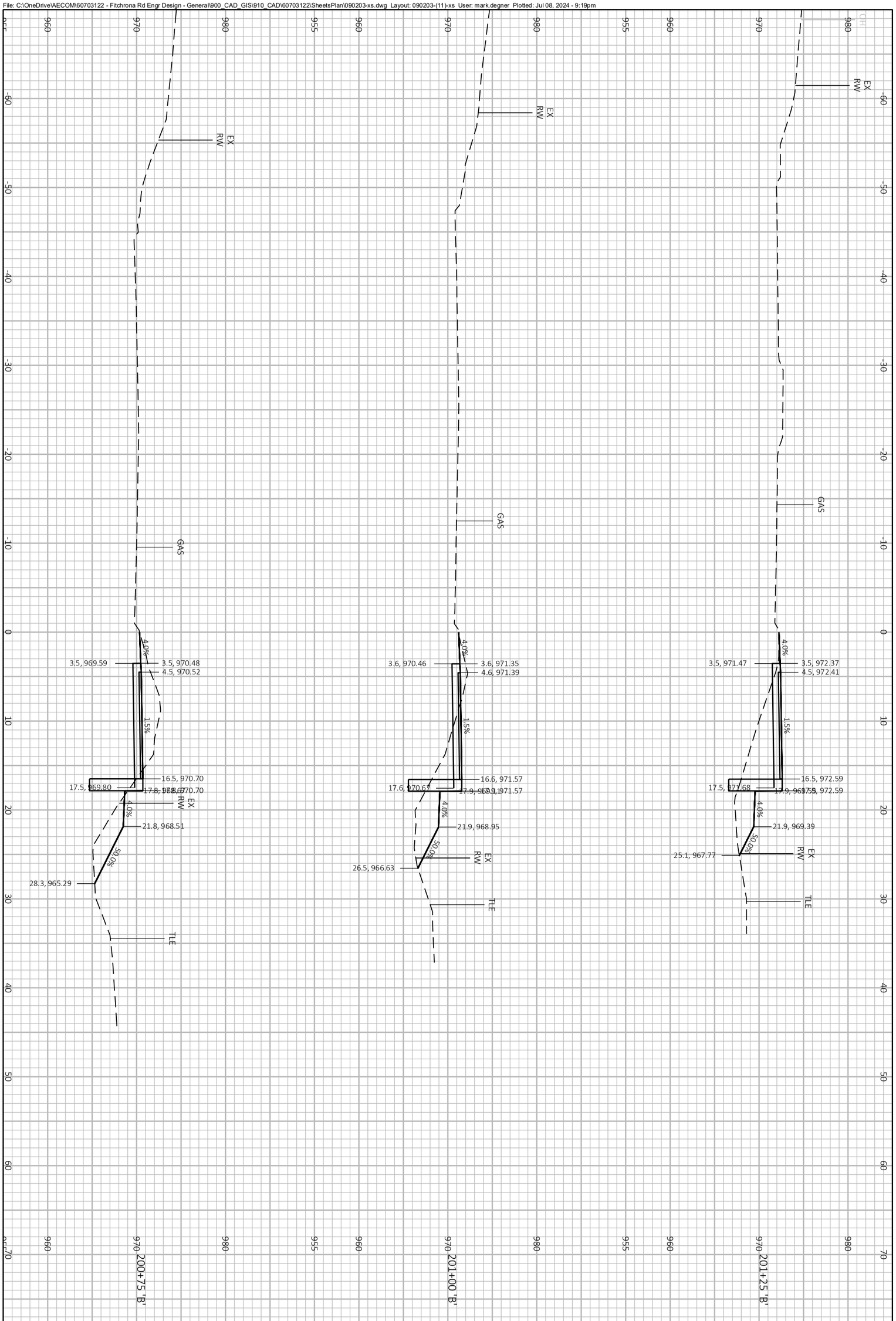
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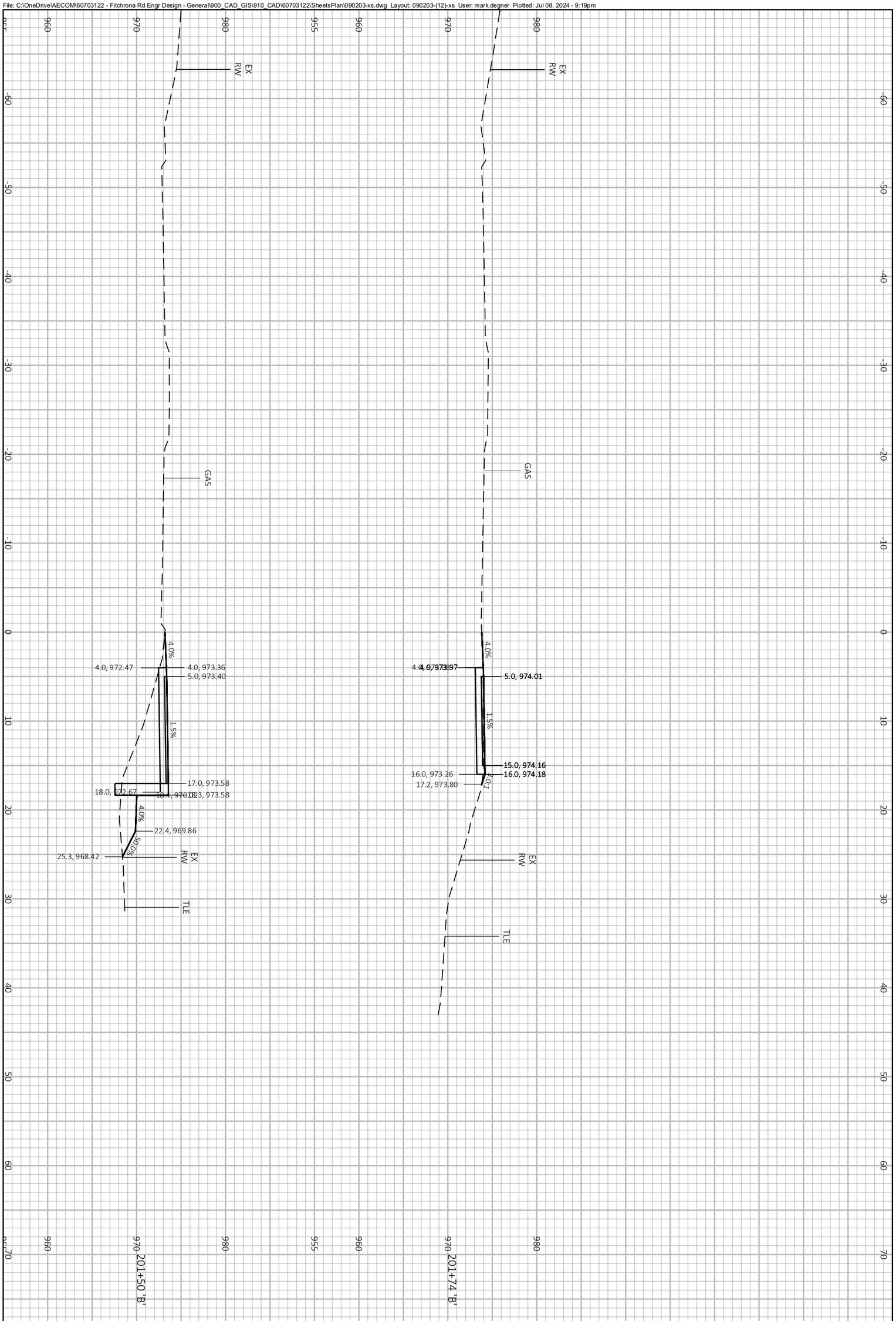
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SHEET NO.: **C-976**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\090203-xs.dwg Layout: 090203-(11)-xs User: mark.degner Plotted: Jul 08, 2024 - 9:19pm



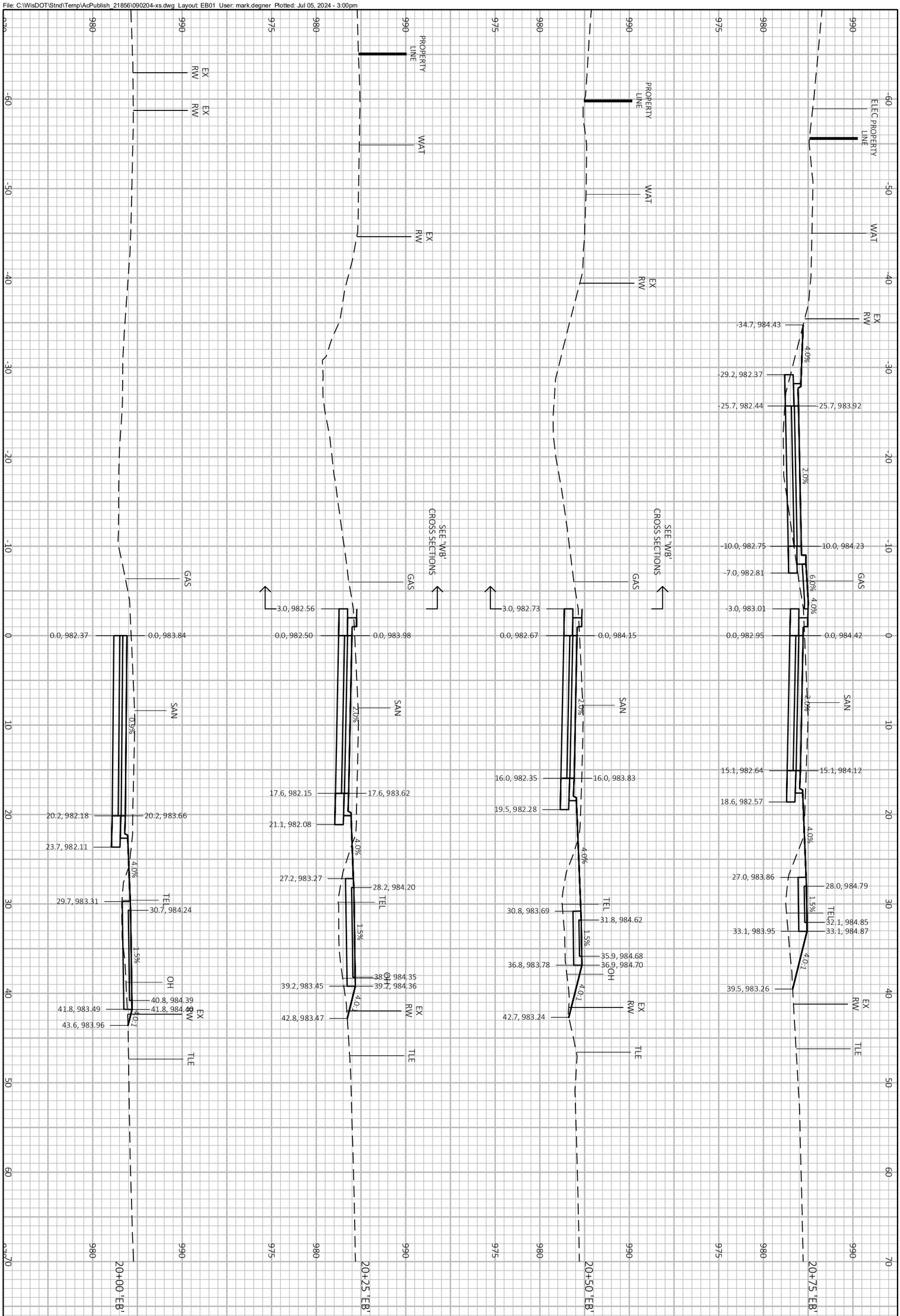
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SHEET NO.: **C-977**	DATE: JULY 2024		
	REVISION: 100% PLANS		

File: C:\OneDrive\AECOM\60703122 - Fitchrona Rd Engr Design - General\900_CAD_GIS\910_CAD\60703122\SheetsPlan\090203-xs.dwg Layout: 090203-(12)-xs User: mark.degner Plotted: Jul 08, 2024 - 9:19pm



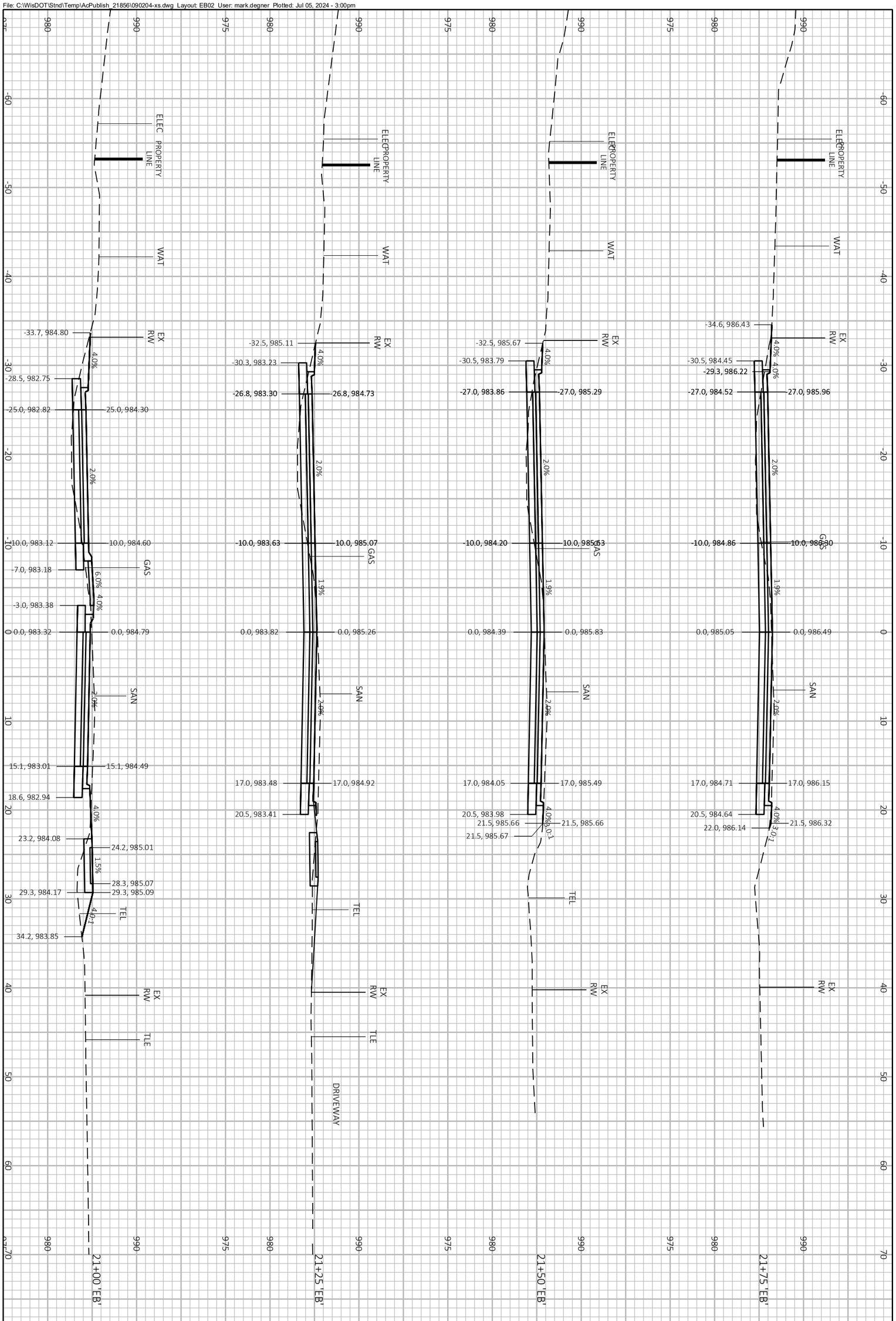
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SHEET NO.: **C-978**	DATE: JULY 2024		
	REVISION: 100% PLANS		

File: C:\WisDOT\Stnd\Temp\AcPublish_21856\090204-xs.dwg Layout: EB01 User: mark.degner Plotted: Jul 05, 2024 - 3:00pm



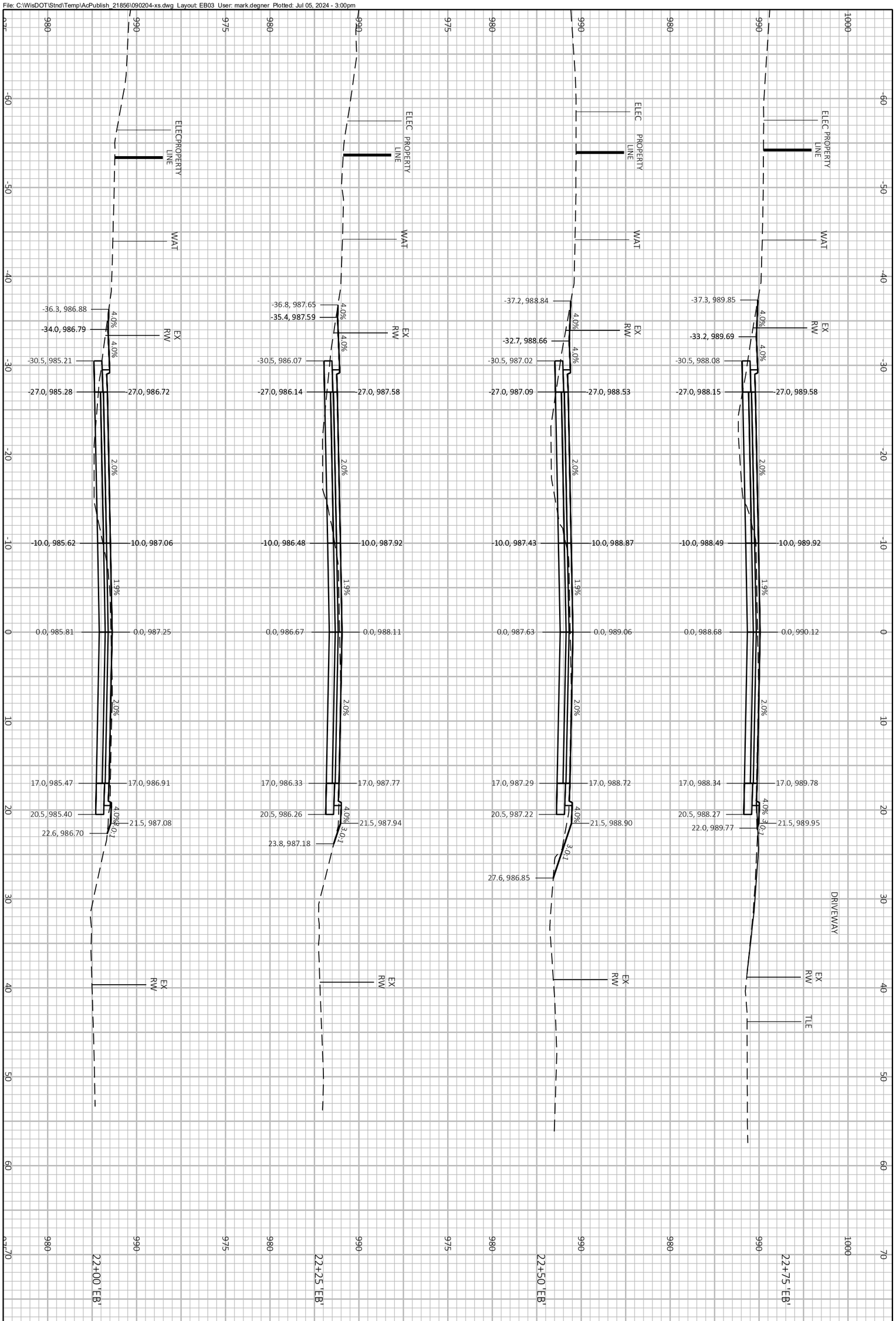
PROJECT NO.: 60703122	SCALE: 1 IN:10 FT	CROSS SECTIONS FITCHRONA ROAD
SHEET NO.: **C-979**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

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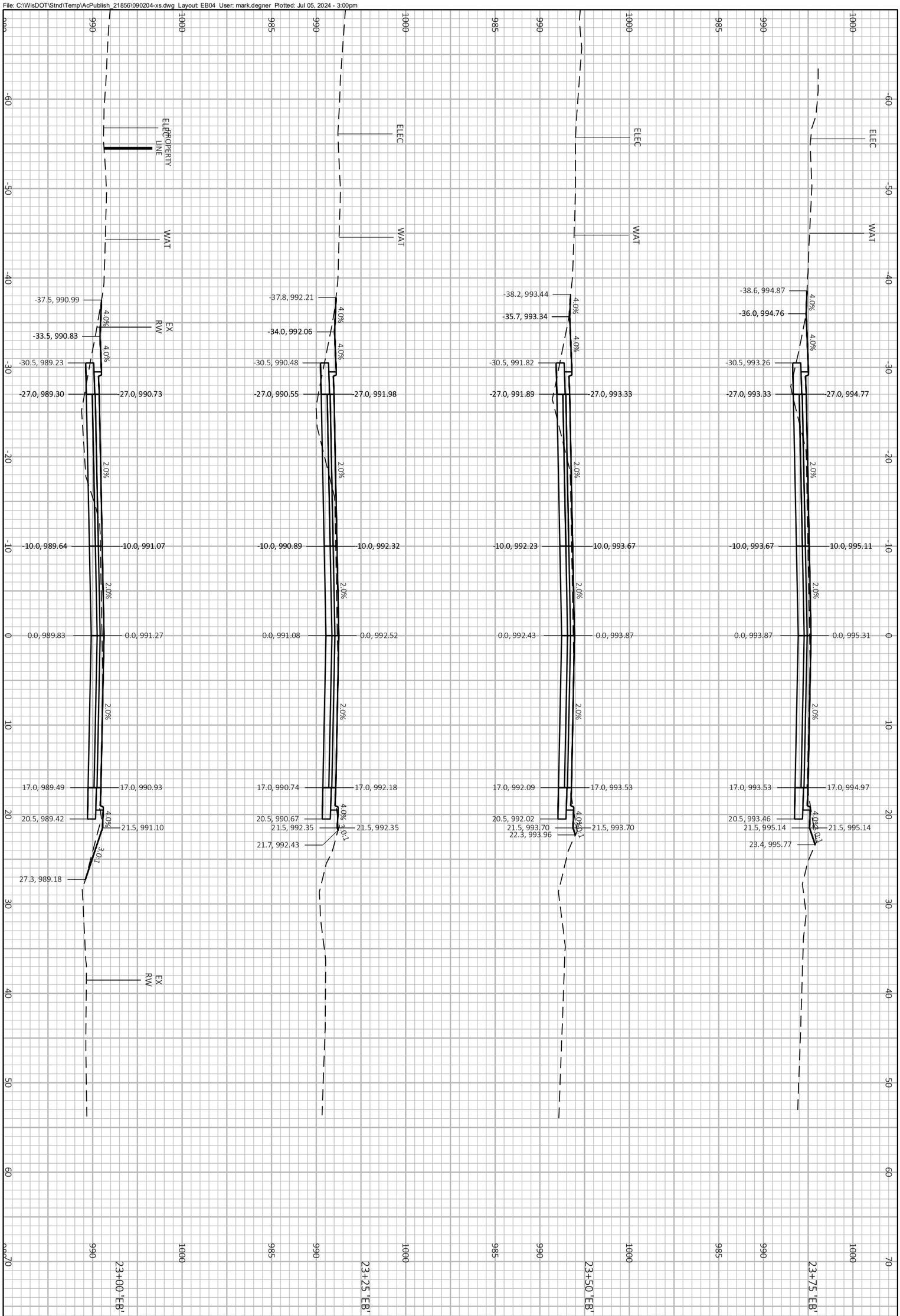
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SHEET NO.: **C-980**	DATE: JULY 2024		
	REVISION: 100% PLANS		

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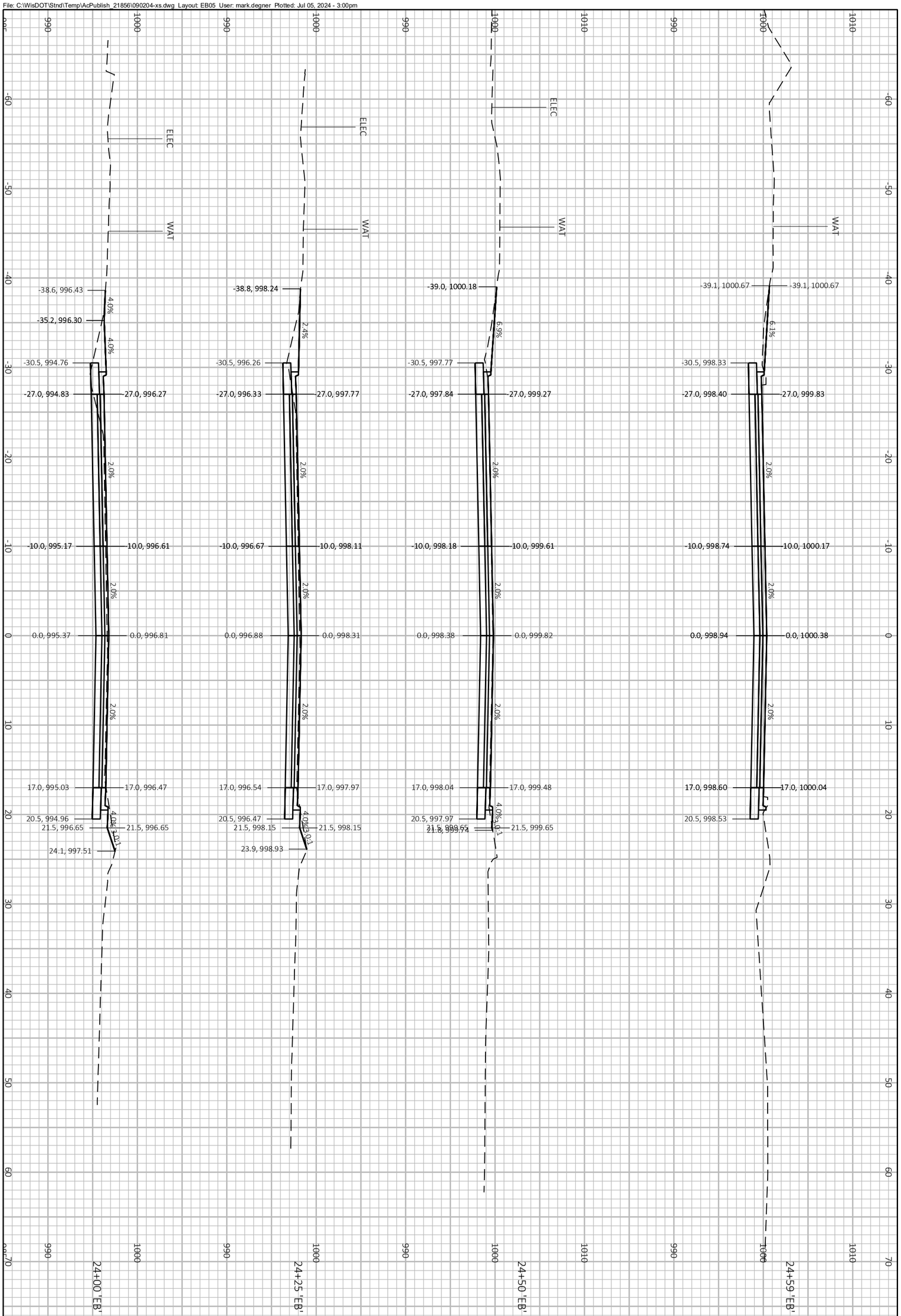
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SHEET NO.: **C-981**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

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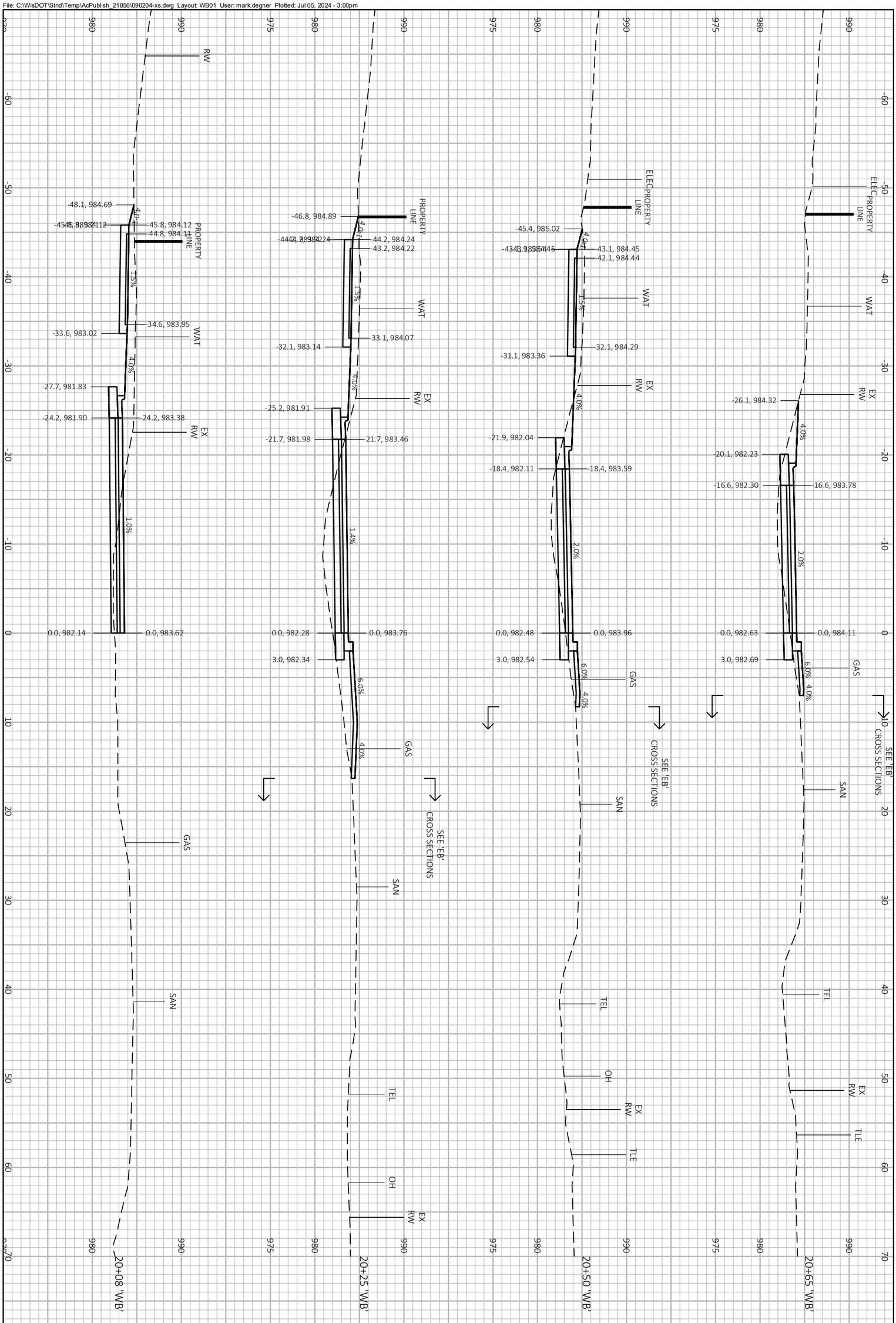
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SHEET NO.: **C-982**	DATE: JULY 2024	THE CITY OF Fitchburg PUBLIC WORKS
	REVISION: 100% PLANS	

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PROJECT NO.: 60703122	SCALE: 1 IN:10 FT	CROSS SECTIONS FITCHRONA ROAD	THE CITY OF Fitchburg PUBLIC WORKS
SHEET NO.: **C-983**	DATE: JULY 2024		
	REVISION: 100% PLANS		

File: C:\WisDOT\Stnd\Temp\AcPublish_21856\090204-xs.dwg Layout: WB01 User: mark.degner Plotted: Jul 05, 2024 - 3:00pm



PROJECT NO.:	SCALE:
60703122	1 IN:10 FT
SHEET NO.:	DATE:
C-984	JULY 2024
	REVISION: 100% PLANS

CROSS SECTIONS

FITCHRONA ROAD

THE CITY OF Fitchburg
PUBLIC WORKS