

NOTICE OF SERVICE INTERRUPTION/WORK FORM

Date of Request (yyyy/mm/dd): _____		Requester: _____	
Start Date – End			
Start Date (yyyy/mm/dd) _____	Time (s) _____	Notes _____ _____	
End Date (yyyy/mm/dd) _____	Time (s) _____		
Building(s) Affected:		1: _____	2: _____
		3: _____	4: _____
Areas/Rooms Affected: _____			
Service to be interrupted:		1: _____	2: _____
		3: _____	4: _____
Description/Reason for Project:			
Contractor: _____		Phone #: _____	
Contractor/Project Managers: _____		Phone #: _____	
Should you have any questions or concerns, please contact			
Notes:			

The Corporation of the City of Windsor Sunset Avenue Sewer Separation

Phase 3 Wyandotte Street West to College Avenue



LIST OF PROJECT SHEETS

Sheet Number Sheet Title

G - GENERAL	
G-0000	Cover Sheet
GI-0301	General Notes and Legend
GC-6201	Suggested Minimum Traffic Control Plan - College Avenue Closed
GC-6202	Suggested Minimum Traffic Control Plan - College Avenue Open
C - CIVIL	
CD-1001	Demolition - Sunset Ave - 0+000 to 0+480
CD-1002	Demolition - Sunset Ave - 0+480 to End and Union St
CP-1001	Paving & Grading - Sunset Ave - 0+000 to 0+160
CP-1002	Paving & Grading - Sunset Ave - 0+160 to 0+320
CP-1003	Paving & Grading - Sunset Ave - 0+320 to 0+480
CP-1004	Paving & Grading - Union St
CP-3001	Paving & Grading - Cross Sections
CP-3002	Paving & Grading - Cross Sections 2
CP-5001	Paving & Grading - Details
CN-6001	Paving & Grading - Centreline Alignment & Profiles
CU-1001	Utilities - Sunset Ave - 0+000 to 0+150
CU-1002	Utilities - Sunset Ave - 0+150 to 0+300
CU-1003	Utilities - Sunset Ave - 0+300 to 0+450
CU-1004	Utilities - Sunset Ave - 0+450 to 0+550
CU-1005	Utilities - Union St
CU-5001	Maintenance Hole Details
CU-6001	Utilities - Sanitary Sewer Drainage Plan
CU-6002	Utilities - Storm Sewer Drainage Plan
E - Electrical	
EL-1001	PXO Streetlighting



BENCH MARKS

- CITY OF WINDSOR BENCH MARK 161: UNIVERSITY OF WINDSOR, ESSEX COLLEGE AT THE NORTH WEST CORNER OF WYANDOTTE STREET AND PATRICIA ROAD; THE PLATE IS LOCATED ON THE SOUTH WALL AND 0.80m WEST OF THE EAST WALL. ELEVATION = 182.920m.
- CITY OF WINDSOR BENCH MARK 590: 794 PATRICIA ROAD; THE PLATE IS LOCATED ON THE WEST WALL, 0.2M FROM THE SOUTH WALL AND 0.3M ABOVE GRADE. ELEVATION = 182.465.
- CITY OF WINDSOR BENCH MARK 784: LOCATED ON VANIER HALL OF THE UNIVERSITY OF WINDSOR, HURON CHURCH ROAD, ON THE WEST WALL, 0.20m FROM THE SOUTH WALL AND 0.40m ABOVE GRADE (ON SOUTH PRODUCTION OF DONNELLY STREET). ELEVATION = 182.344m.

APPROVED AS TO FORM, IN RELIANCE UPON THE PROFESSIONAL SKILL AND ABILITY OF AECOM AS TO DESIGN AND SPECIFICATION.

TENDER SET SIGNED BY
 MARK WINTERTON, P.ENG.
 COMMISSIONER
 INFRASTRUCTURE SERVICES

TENDER SET SIGNED BY
 STACEY McGUIRE, P.ENG.
 EXECUTIVE DIRECTOR OF ENGINEERING

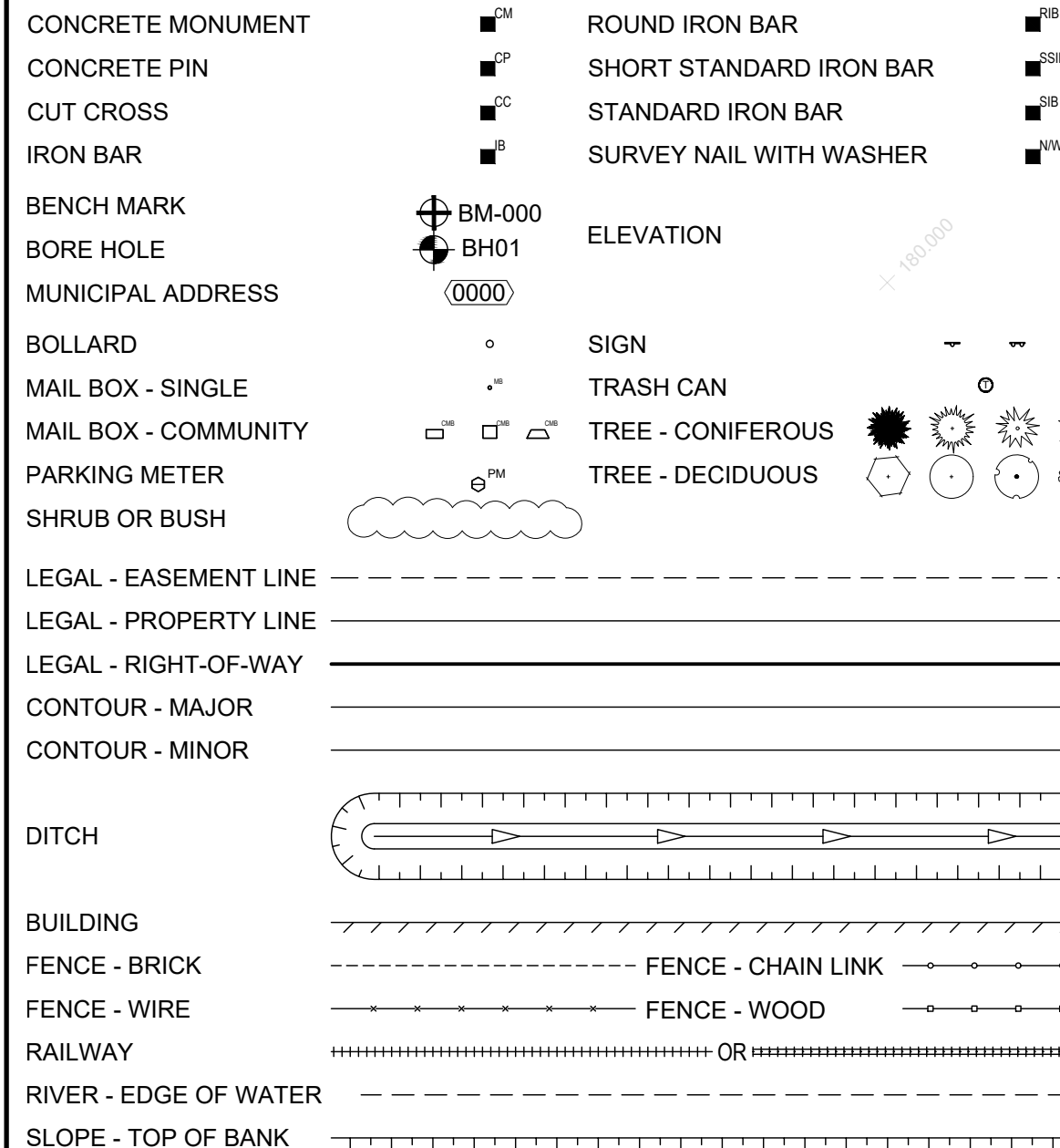
Sunset Avenue Sewer Separation Phase 3 Wyandotte Street West to College Avenue

AECOM

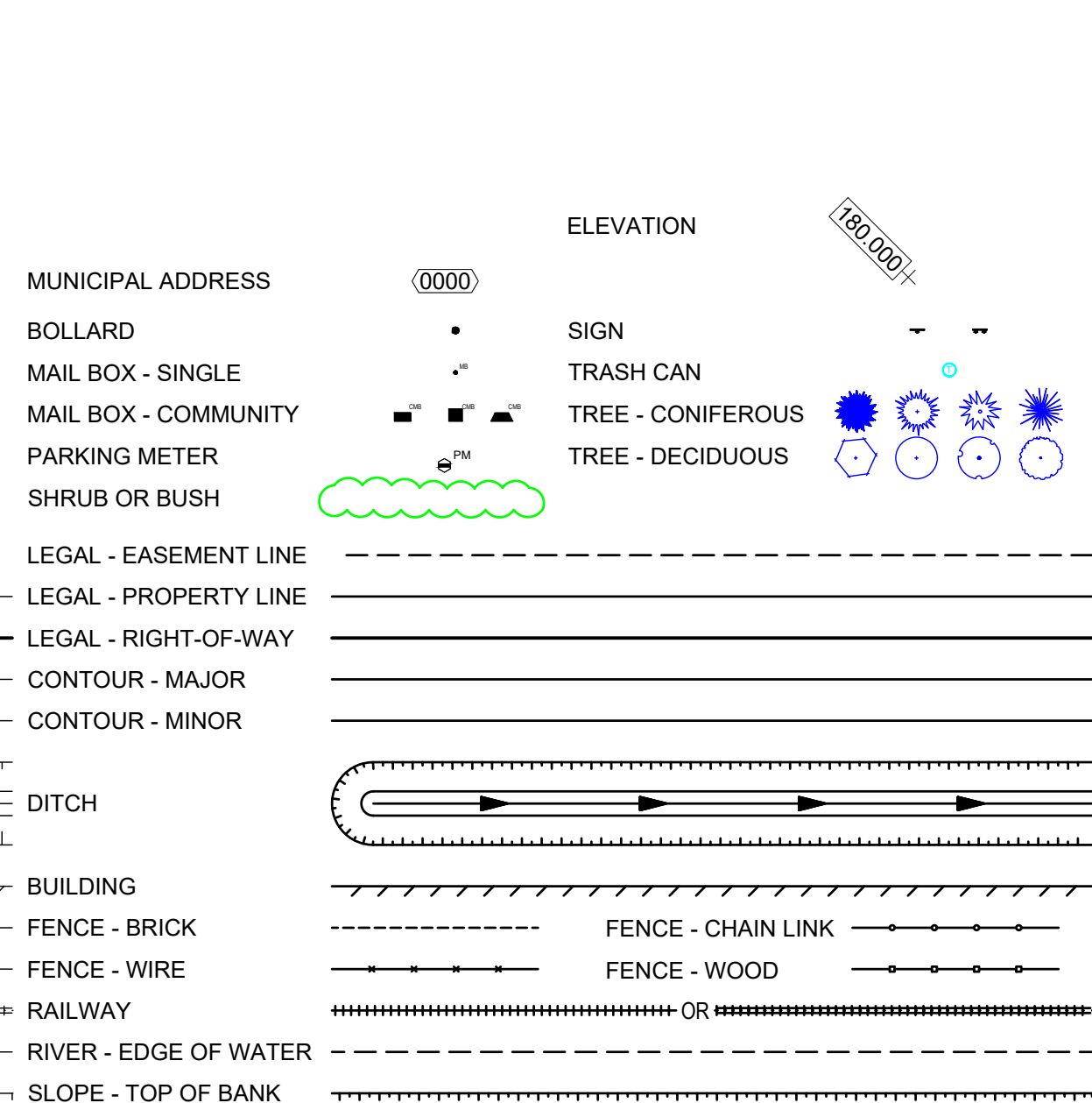
ISSUED FOR CONSTRUCTION (2024-02-22)

60635207

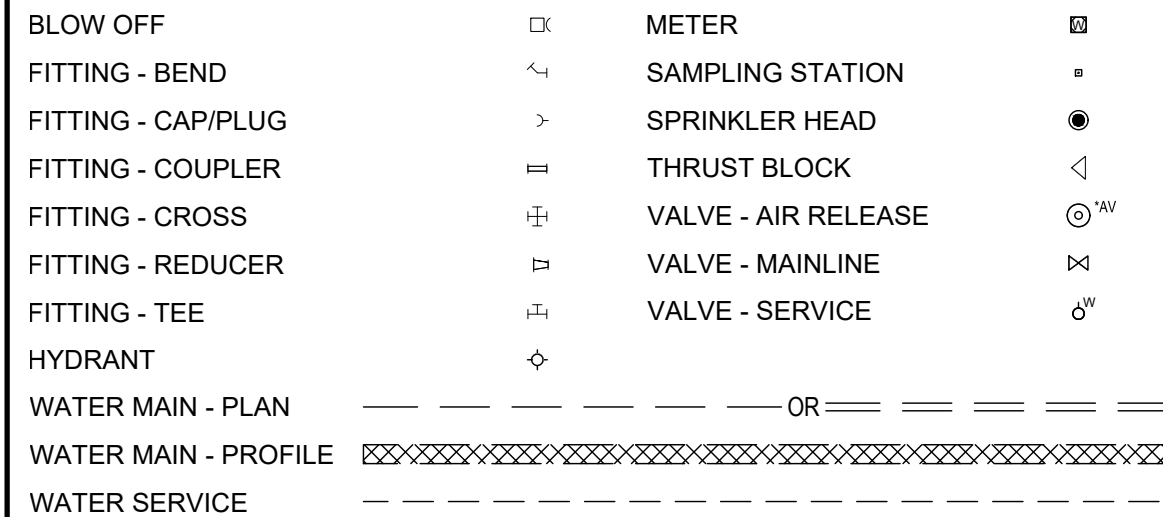
TOPOGRAPHIC FEATURES - EXISTING



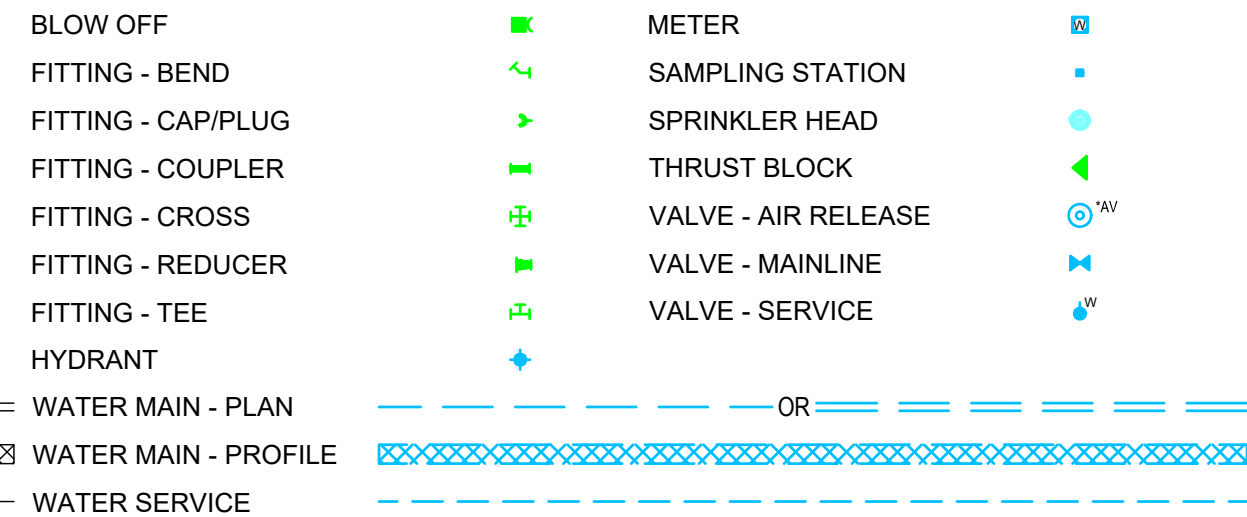
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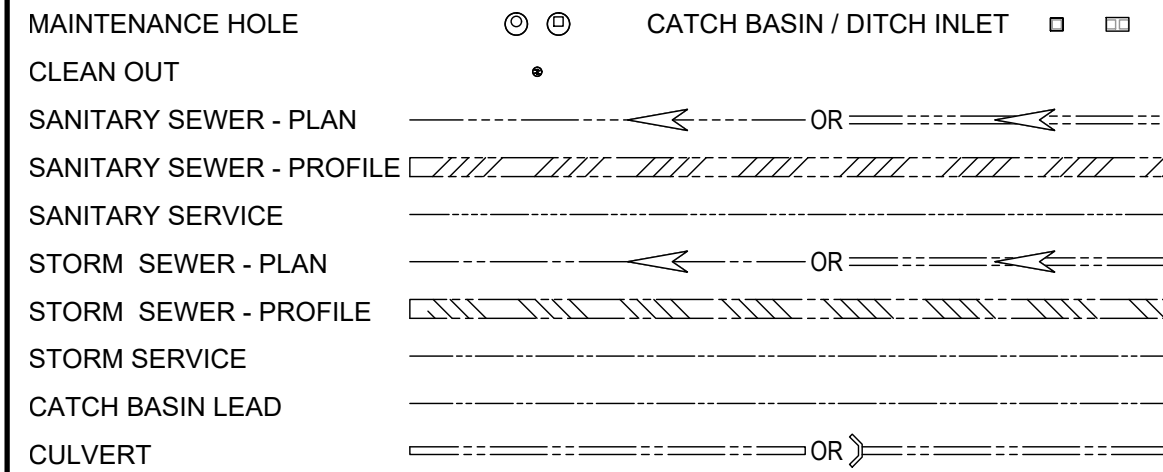
WATER SYSTEM - EXISTING



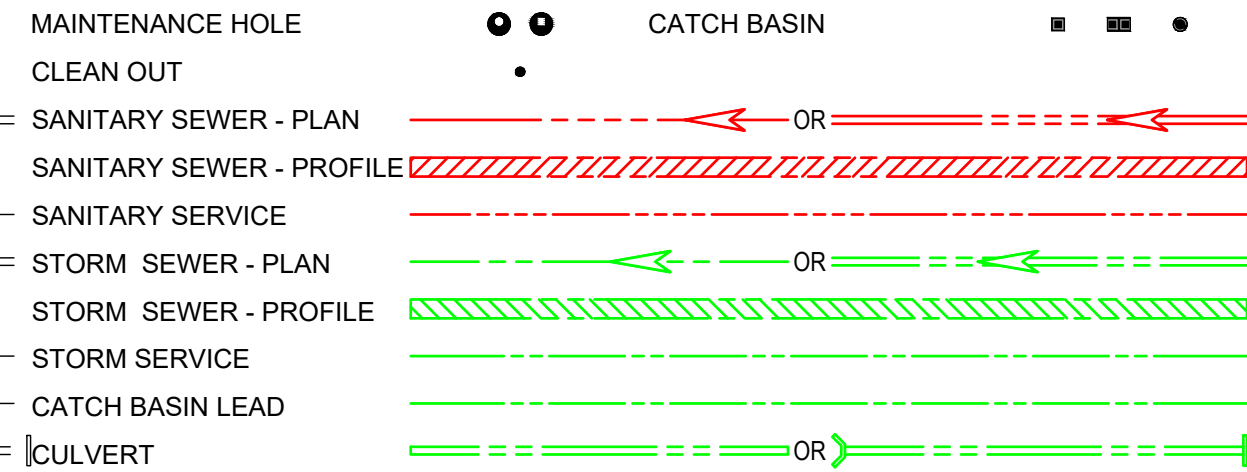
WATER SYSTEM - NEW



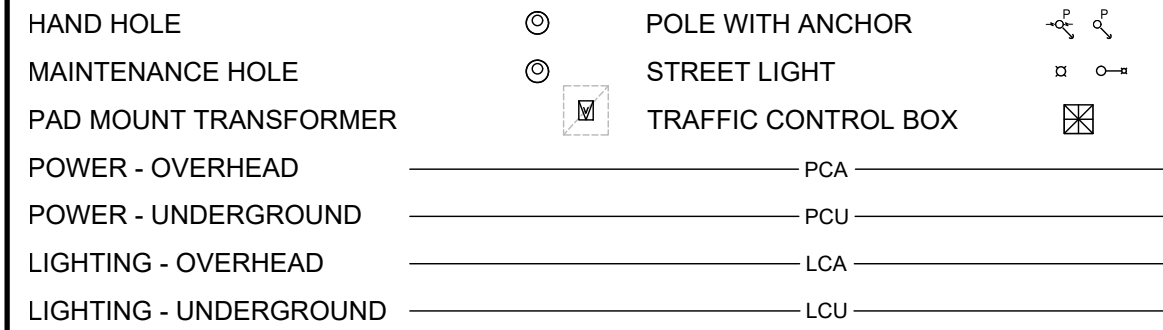
WASTEWATER SYSTEM - EXISTING



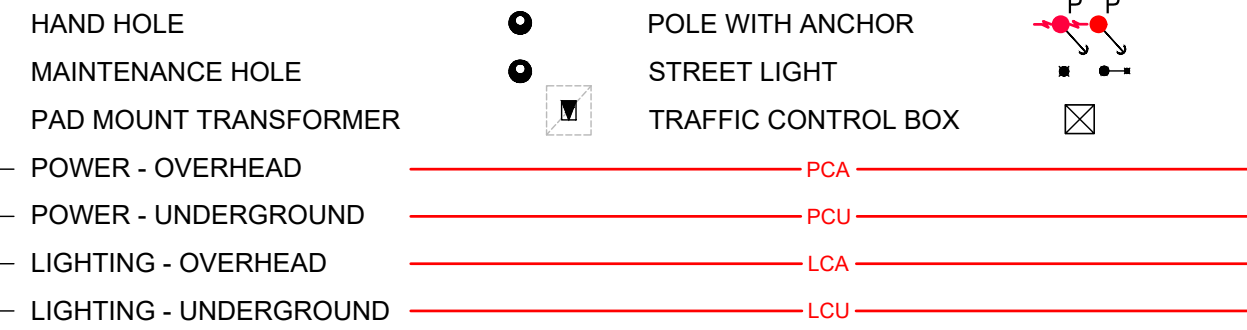
WASTEWATER SYSTEM - NEW



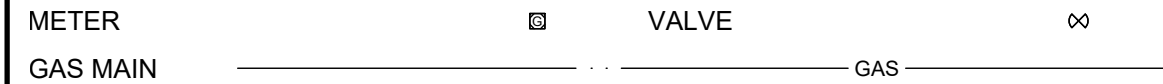
ELECTRICAL UTILITIES - EXISTING



ELECTRICAL UTILITIES - NEW



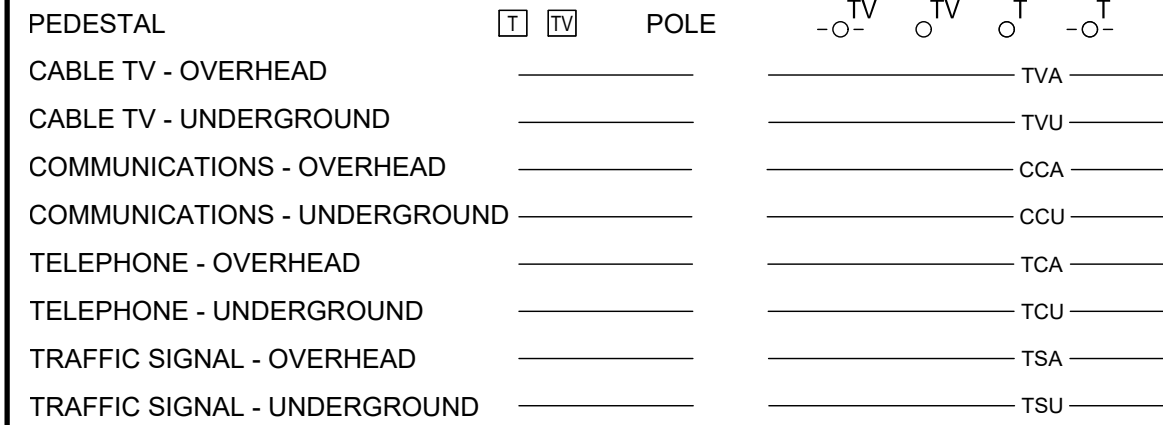
NATURAL GAS SYSTEMS - EXISTING



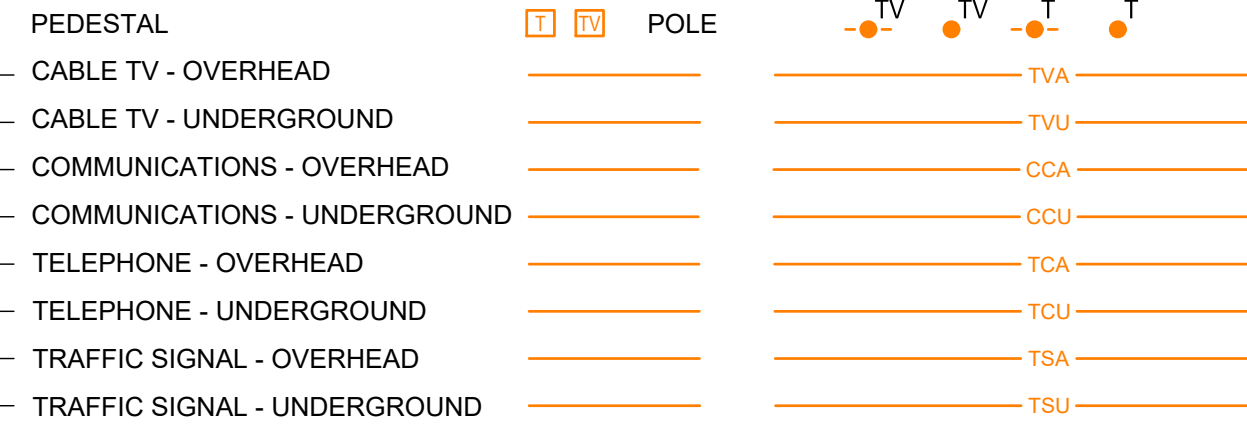
NATURAL GAS SYSTEMS - NEW



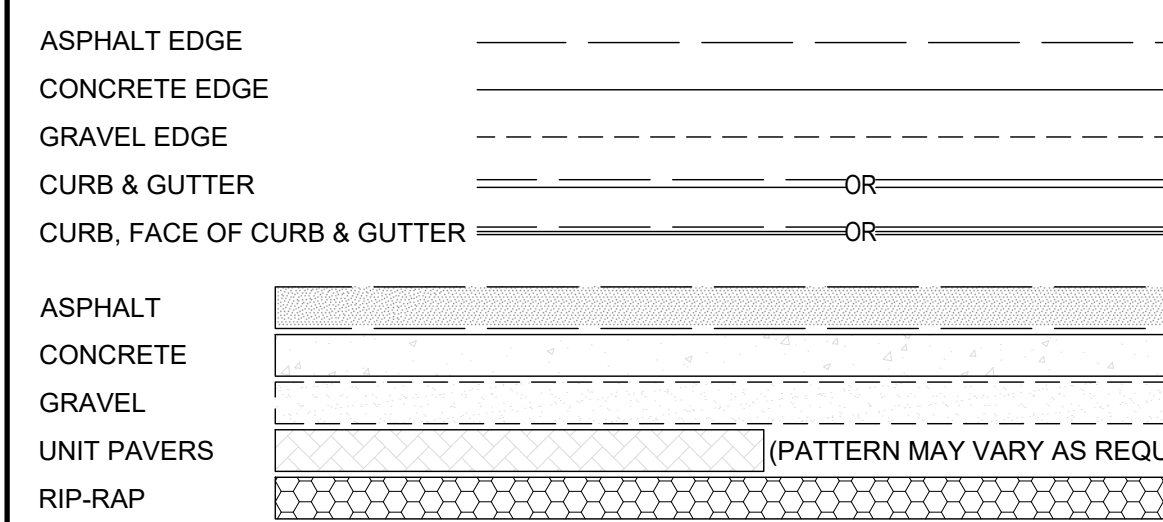
COMMUNICATIONS - EXISTING



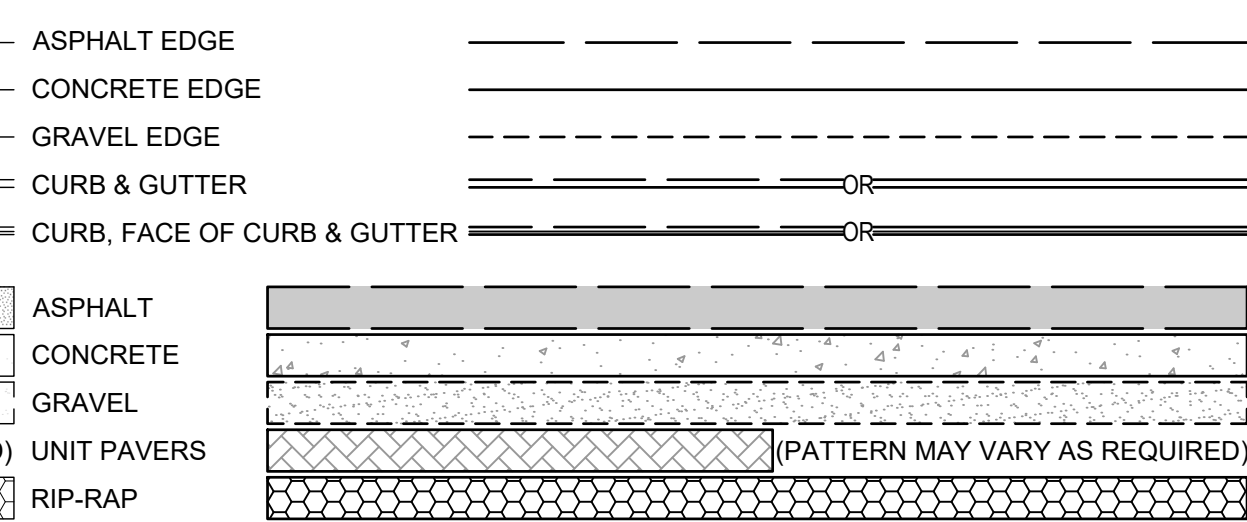
COMMUNICATIONS - NEW



SURFACE FEATURES - EXISTING



SURFACE FEATURES - NEW



GENERAL PROJECT NOTES

- POSITION OF POLE LINES, CONDUITS, SEWERS, WATERMAINS AND OTHER UNDERGROUND AND ABOVE GROUND UTILITIES ARE NOT NECESSARILY SHOWN ON CONTRACT DRAWINGS AND WHERE SHOWN, ACCURACY IS NOT GUARANTEED. DETERMINE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES BEFORE STARTING WORK AND ASSUME ALL LIABILITY FOR ANY DAMAGE DONE TO THEM.
- CONFIRM ACCURACY OF TEMPORARY BENCHMARKS ESTABLISHED FOR DESIGN PURPOSES.
- ENSURE THAT ALL EMPLOYEES AND SITE VISITORS WEAR APPROPRIATE SAFETY EQUIPMENT AT ALL TIMES, ALL IN ACCORDANCE WITH THE REGULATIONS UNDER THE HEALTH AND SAFETY ACT AND OWNER'S HEALTH AND SAFETY POLICY.
- USE ONLY TRENCH BOXES AND SHORING CERTIFIED BY AN ENGINEER. PROVIDE COPIES OF ALL DOCUMENTATION TO CONTRACT ADMINISTRATOR FOR FILING ON SITE. ALL IN ACCORDANCE WITH THE MINISTRY OF LABOUR REQUIREMENTS.
- HAVE ALL REQUIRED SPILL CONTAINMENT EQUIPMENT ON SITE PRIOR COMMENCING ANY WORK.
- PARKING, STOPPING, LOADING AND UNLOADING OF CONSTRUCTION EQUIPMENT OR MATERIAL WITHIN THE TRAVELED LANES IS NOT PERMITTED.
- EXISTING UTILITIES
 - CO-ORDINATE AND COMPLY WITH REQUIREMENTS OF ALL UTILITIES WHEN CROSSING OR WORKING NEAR THEIR PLANT.
 - TEMPORARILY SUPPORT OR RELOCATE EXISTING UTILITIES DURING CONSTRUCTION. SUPPORT UTILITY POLES AFFECTED BY CONSTRUCTION ACTIVITIES. RESTRAIN UTILITY POLES TO SATISFACTION OF OWNING UTILITY WHERE EXCAVATIONS ENCROACH WITHIN 2.0m.
 - MAINTAIN MINIMUM 0.3m CLEARANCE BETWEEN GAS UTILITY PLANT AND PROPOSED WORKS. ARRANGE FOR THIRD PARTY INSPECTION BY GAS UTILITY WHEN EXCAVATING NEAR THEIR PLANT.
 - EXISTING BURIED UTILITIES HAVE BEEN SHOWN FOR DESIGN PURPOSES ONLY. CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED IN THE FIELD AND ANY CONFLICTS SHALL BE REPORTED TO THE ENGINEER PRIOR TO EXCAVATING.

APPROVED AS TO FORM, IN RELIANCE UPON THE PROFESSIONAL SKILL AND ABILITY OF AECOM AS TO DESIGN AND SPECIFICATION.

TENDER SET SIGNED BY
MARK WINTERTON, P. ENG.
COMMISSIONER
INFRASTRUCTURE SERVICES



PROJECT

Sunset Avenue Sewer Separation, Phase 3

Sunset Avenue from Wyandotte Street West to College Avenue & Union Street from Patricia Road to Sunset Avenue

CLIENT

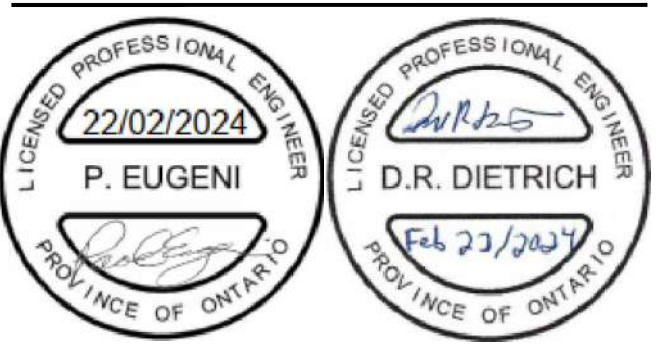
City of Windsor

350 City Hall Square West
Windsor, Ontario, N9A 6S1
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CONSULTANT

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www.aecom.com

REGISTRATION



ISSUE/REVISION

NO	DATE	DESCRIPTION
0	2024-02-22	Issued for Construction
F	2023-11-01	Re-Issued for Tender
E	2023-05-18	Issued for Tender
D	2023-03-30	Issued for Review
C	2020-11-12	Issued for MECP Approval
B	2020-08-07	Issued for City Review
I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60635207

SHEET TITLE

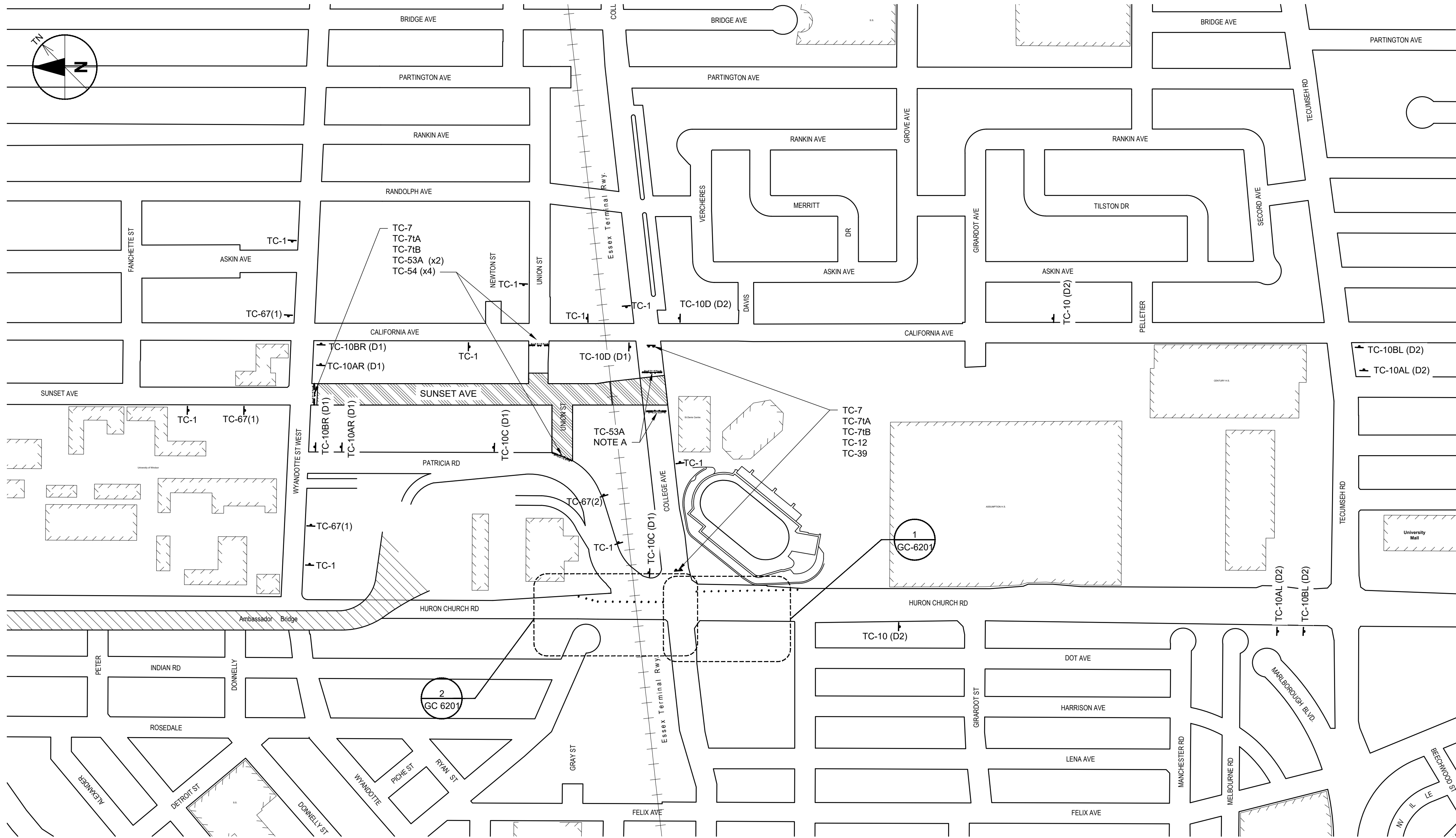
GENERAL NOTES AND LEGEND

SHEET NUMBER

GI-0301

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SUNSET AVENUE ENTRANCE/EXIT TO PARKING GARAGE
1. MAINTAIN ACCESS TO UNIVERSITY OF WINDSOR PARKING GARAGE FROM SUNSET AVENUE AS LONG AS PRACTICAL.
2. WHEN NO LONGER PRACTICAL, CLOSE ENTRANCE AND CONSTRUCT TEMPORARY ACCESS TO CALIFORNIA AVENUE AS SHOWN IN DETAIL ON GC-6202. REMOVE TEMPORARY ACCESS AND RESTORE DISTURBED AREAS WHEN ACCESS TO SUNSET AVENUE REOPENED.



GENERAL DISCIPLINE NOTES

- 1. TRAFFIC CONTROL SHALL CONFORM TO MINISTRY OF TRANSPORTATION TRAFFIC MANUAL BOOKS 6 & 7.
- 2. PROVIDE ADEQUATE LIGHTING TO ENSURE SAFETY OF PUBLIC AND SMOOTH FLOW OF TRAFFIC.
- 3. INSPECT AND MAINTAIN TRAFFIC CONTROLS REGULARLY.
- 4. MINOR MODIFICATIONS TO SIGNAGE MAY BE REQUIRED DURING DIFFERENT STAGES OF WORK. MAKE SUCH MODIFICATIONS AS CONTRACT ADMINISTRATOR DEEMS NECESSARY.
- 5. ENSURE SIGNS MANUFACTURED USING REFLECTORIZED MATERIALS PER MOST RECENT REVISION OF ONTARIO TRAFFIC CONTROL MANUAL.
- 6. PROVIDE SIGNAGE AND FLAG PERSONS TO DIRECT VEHICLES IN AND OUT OF UNIVERSITY OF WINDSOR PARKING LOT.

GENERAL SHEET NOTES

- 1. DRAWING INTENDED TO SERVE AS GUIDE ONLY AND DOES NOT RELIEVE CONTRACTOR OF THEIR OBLIGATIONS UNDER THE CONTRACT.
- 2. WORK MAY BE DIVIDED INTO SMALLER SECTIONS PROVIDING APPROPRIATE TRAFFIC CONTROL PLANS ARE PREPARED BY CONTRACTOR.

SHEET NOTES

- A. PROVIDE SIGNAGE AND FLAG PERSONS TO DIRECT VEHICLES IN AND OUT OF UNIVERSITY OF WINDSOR PARKING LOT.

SIGN LEGEND

Legend of traffic control signs including: Rb-92 (Road Closed), RB-11 (No Right Turn), RB-12 (No Left Turn), TC-1 (Construction), TC-4L (Left Turn), TC-4R (Right Turn), TC-5 (Detour), TC-3L (Left Turn), TC-7 (No Arrows), TC-7A (Road Closed), TC-7B (Local Traffic Only), TC-10 (Follow), TC-10AL (D2), TC-10BL (D2), TC-10AR (D1), TC-10BR (D1), TC-10C (D1), TC-10D (D1), TC-39 (No Exit), TC-12 (Flashing Arrow Board), TC-53A (Barricade), TC-54 (Flexible Drum Barrel), TC-67 (1) (Sunset Closed), TC-67 (2) (Union Closed), TC-67 (3) (College Closed).



PROJECT
Sunset Avenue Sewer Separation, Phase 3
Sunset Avenue from Wyandotte Street West to College Avenue & Union Street from Patricia Road to Sunset Avenue

CLIENT
The Corporation of the
City of Windsor
350 City Hall Square West
Windsor, Ontario, N9A 6S1
519.255.2488 tel 519.256.3311 fax
www.cityofwindsor.ca

CONSULTANT
AECOM Canada Ltd.
City Plaza, 250 York Street, Suite 410
London, Ontario, N6A 6K2
519.673.0510 519.673.5975 fax
www.aecom.com

REGISTRATION
Professional Engineer stamps for P. Eugeni and D.R. Dietrich, Province of Ontario, with registration numbers and dates.

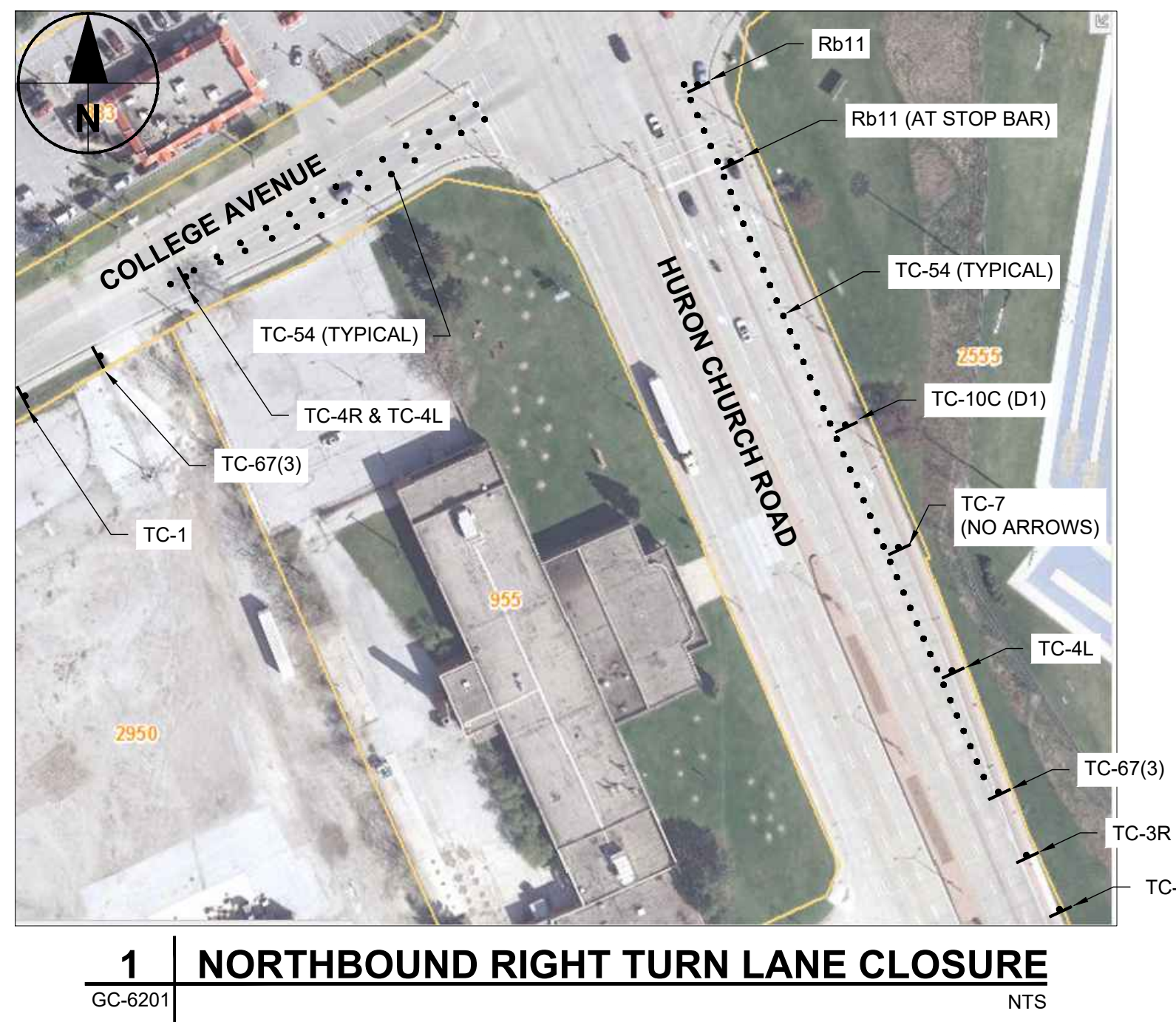
ISSUE/REVISION

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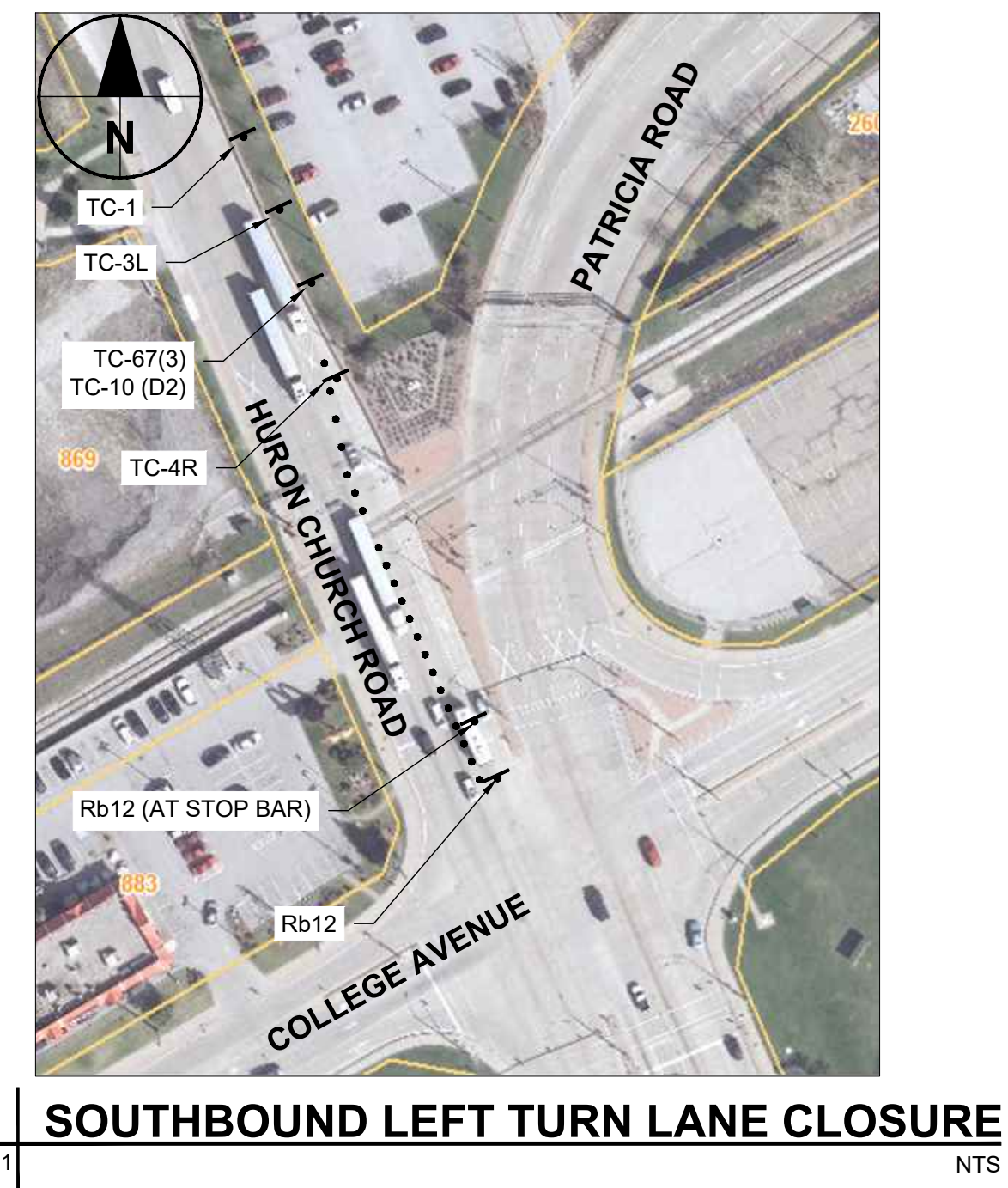
KEY PLAN

PROJECT NUMBER
60635207
SHEET TITLE
SUGGESTED MINIMUM TRAFFIC CONTROL PLAN COLLEGE AVENUE CLOSED
SHEET NUMBER
GC-6201

APPROVED AS TO FORM, IN RELIANCE UPON THE PROFESSIONAL SKILL AND ABILITY OF AECOM AS TO DESIGN AND SPECIFICATION.
TENDER SET SIGNED BY
MARK WINTERTON, P. ENG.
COMMISSIONER
INFRASTRUCTURE SERVICES
TENDER SET SIGNED BY
EXECUTIVE DIRECTOR OF OPERATIONS
TENDER SET SIGNED BY
WINDSOR POLICE

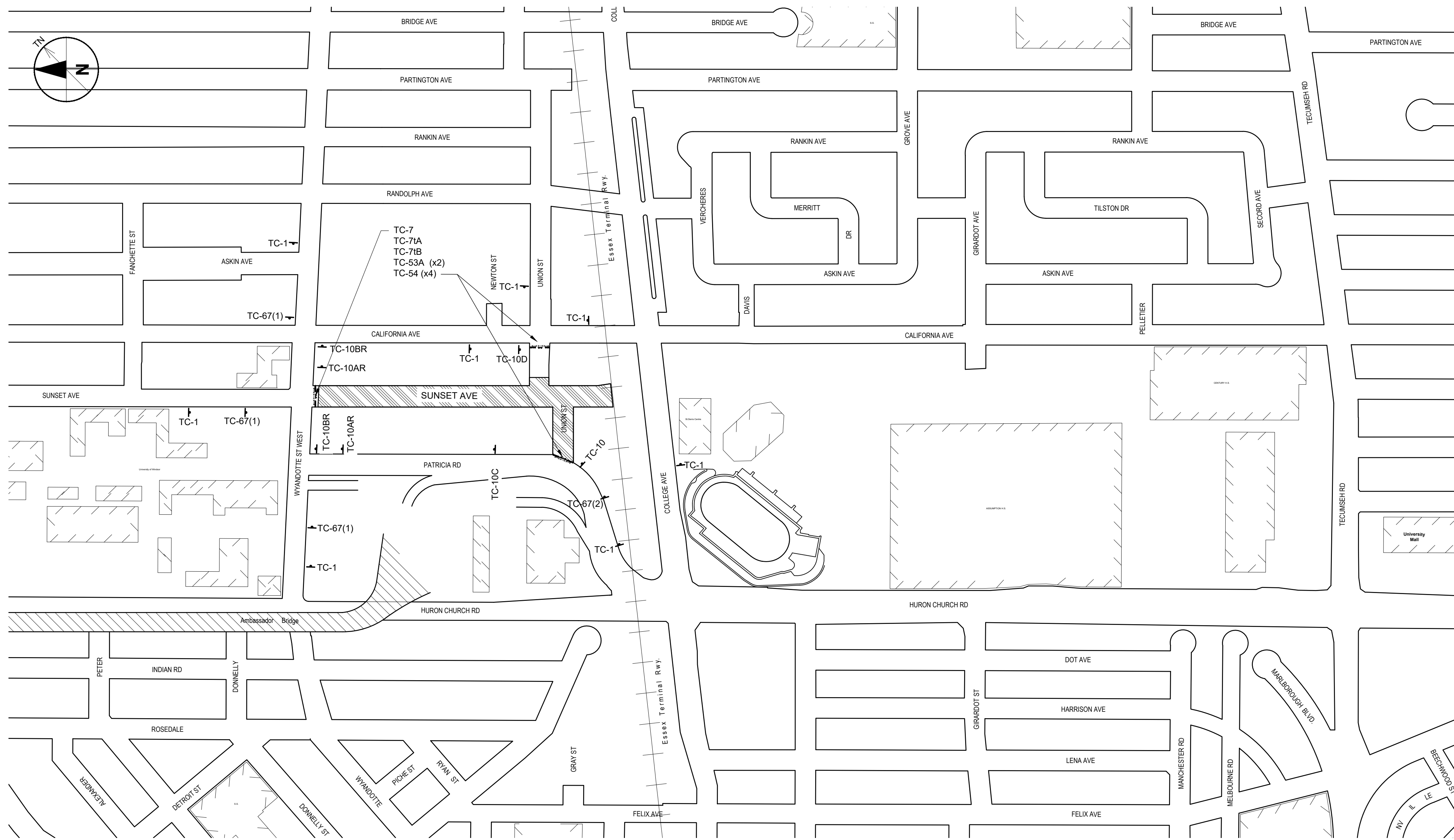


1 NORTHBOUND RIGHT TURN LANE CLOSURE
GC-6201 NTS



2 SOUTHBOUND LEFT TURN LANE CLOSURE
GC-6201 NTS

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SUNSET AVENUE ENTRANCE/EXIT TO PARKING GARAGE
 1. MAINTAIN ACCESS TO UNIVERSITY OF WINDSOR PARKING GARAGE FROM SUNSET AVENUE AS LONG AS PRACTICAL.
 2. WHEN NO LONGER PRACTICAL, CLOSE ENTRANCE AND CONSTRUCT TEMPORARY ACCESS TO CALIFORNIA AVENUE AS SHOWN IN DETAIL BELOW. REMOVE TEMPORARY ACCESS AND RESTORE DISTURBED AREAS WHEN ACCESS TO SUNSET AVENUE REOPENED.



1. STRIP TOPSOIL.
2. CONSTRUCT AND MAINTAIN MINIMUM 4.0m WIDE, 200mm THICK GRANULAR 'A' TEMPORARY DRIVEWAY.
3. REMOVE TEMPORARY DRIVEWAY AND RESTORE DISTURBED AREAS WHEN NO LONGER REQUIRED.

BLOCK ACCESS TO SUNSET AVENUE AND PROVIDE SIGNAGE DIRECTING VEHICLES EXITING GARAGE TO CALIFORNIA AVENUE.

GENERAL DISCIPLINE NOTES

1. TRAFFIC CONTROL SHALL CONFORM TO MINISTRY OF TRANSPORTATION TRAFFIC MANUAL BOOKS 6 & 7.
2. PROVIDE ADEQUATE LIGHTING TO ENSURE SAFETY OF PUBLIC AND SMOOTH FLOW OF TRAFFIC.
3. INSPECT AND MAINTAIN TRAFFIC CONTROLS REGULARLY.
4. MINOR MODIFICATIONS TO SIGNAGE MAY BE REQUIRED DURING DIFFERENT STAGES OF WORK. MAKE SUCH MODIFICATIONS AS CONTRACT ADMINISTRATOR DEEMS NECESSARY.
5. ENSURE SIGNS MANUFACTURED USING REFLECTORIZED MATERIALS PER MOST RECENT REVISION OF ONTARIO TRAFFIC CONTROL MANUAL.
6. PROVIDE SIGNAGE AND FLAG PERSONS TO DIRECT VEHICLES IN AND OUT OF UNIVERSITY OF WINDSOR PARKING LOT.

GENERAL SHEET NOTES

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2. WORK MAY BE DIVIDED INTO SMALLER SECTIONS PROVIDING APPROPRIATE TRAFFIC CONTROL PLANS ARE PREPARED BY CONTRACTOR.

SIGN LEGEND

TC-12 = FLASHING ARROW BOARD
 TC-53A = BARRICADE
 TC-54 = FLEXIBLE DRUM BARREL

TC-67 (1) SUNSET CLOSED WYANDOTTE TO COLLEGE	TC-67 (2) UNION CLOSED PATRICIA TO CALIFORNIA	TC-67 (3) COLLEGE CLOSED HURON CHURCH TO CALIFORNIA
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APPROVED AS TO FORM, IN RELIANCE UPON THE PROFESSIONAL SKILL AND ABILITY OF AECOM AS TO DESIGN AND SPECIFICATION.

TENDER SET SIGNED BY
 MARK WINTERTON, P. ENG.
 COMMISSIONER
 INFRASTRUCTURE SERVICES

TENDER SET SIGNED BY
 EXECUTIVE DIRECTOR OF OPERATIONS

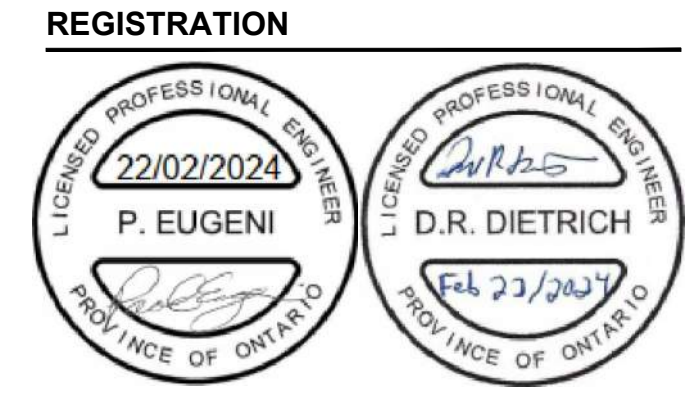
TENDER SET SIGNED BY
 WINDSOR POLICE



PROJECT
Sunset Avenue Sewer Separation, Phase 3
 Sunset Avenue from Wyandotte Street West to College Avenue & Union Street from Patricia Road to Sunset Avenue

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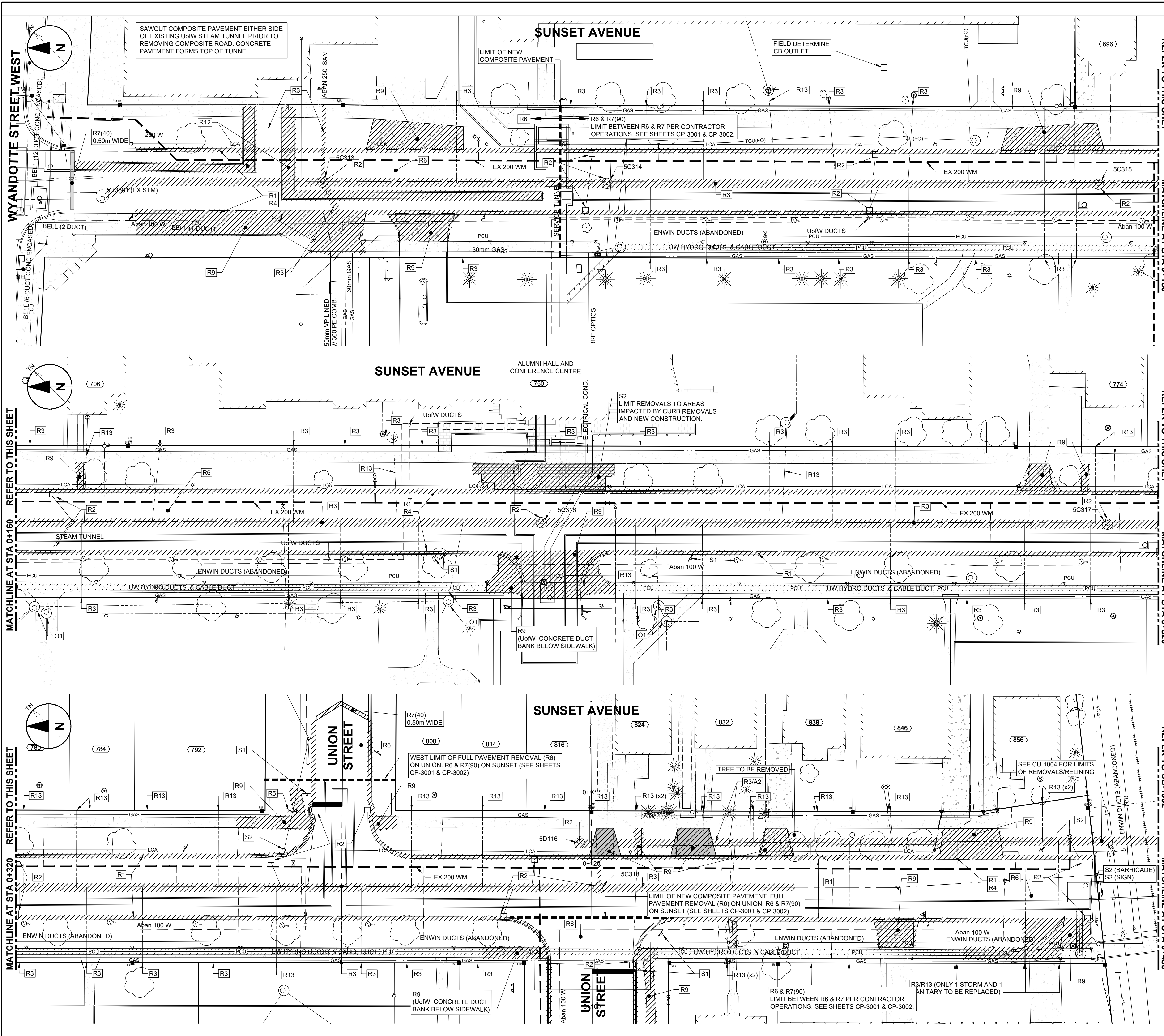
KEY PLAN

PROJECT NUMBER
 60635207

SHEET TITLE
 SUGGESTED MINIMUM TRAFFIC CONTROL PLAN COLLEGE AVENUE OPEN

SHEET NUMBER
 GC-6202

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- ### GENERAL PROJECT NOTES
- ROADWAY REMOVALS
 - SUNSET AVENUE NORTH OF COMPOSITE PAVEMENT LIMIT - REMOVE EXISTING COMPOSITE PAVEMENT INCLUDING STEAM TUNNEL
 - SUNSET AVENUE SOUTH OF COMPOSITE PAVEMENT LIMIT:
 - SAWCUT EXISTING PAVEMENT EAST OF DUCT BANK TO ACCOMMODATE NEW SEWER CONSTRUCTION. REMOVE EXISTING COMPOSITE PAVEMENT AND CURB AND GUTTER EAST OF SAWCUT
 - WEST OF SAWCUT REMOVE WEST CURB AND REMOVE EXISTING ASPHALT LAYER BY MILLING.
 - TREES AND SHRUBS TO REMAIN
 - PROTECT TREES AND SHRUBS TO REMAIN PER OPSS 801, OPSS 220.01 AND TO SATISFACTION OF CONTRACT ADMINISTRATOR
 - WHEN APPROVED BY CONTRACT ADMINISTRATOR, CAREFULLY REMOVE LIMBS OR PORTIONS OF TREES PER OPSS 801 AND ARBORICULTURAL PRACTICES TO ACCOMMODATE CONSTRUCTION ACTIVITIES
 - REMOVE AND REPLACE, AT OWN EXPENSE, TREES AND SHRUBS THAT DIE OR DECAY WITHIN THE WARRANTY PERIOD OR ARE SEVERELY DAMAGED AS A RESULT OF CONTRACTOR'S NEGLIGENCE.
 - CLEARING AND GRUBBING
 - CLEARING AND GRUBBING REMOVAL LIMITS SHOWN INDICATE MINIMUM REQUIRED
 - CONTRACT ADMINISTRATOR MAY PERMIT ADDITIONAL CLEARING AND GRUBBING, AT CONTRACTOR'S EXPENSE, TO ACCOMMODATE CONTRACTOR'S OPERATIONS.
 - TOPSOIL STRIPPING
 - STOCKPILE TOPSOIL SEPARATE FROM OTHER MATERIALS. (SEE S-34, SECTION 34.05.01)
 - OTHER
 - SALVAGE ALL SIGNS, MAIL BOXES, POSTS, ETC. REMOVED TO ACCOMMODATE CONSTRUCTION. REINSTATE TO CONTRACT ADMINISTRATOR'S APPROVAL
 - REINSTATE ROAD SIGNS AT END OF EACH DAY'S ACTIVITIES. MAINTAIN EXISTING STOP SIGNS AT ALL TIMES.
 - MAINTAIN POTABLE WATER SYSTEM AND SEWER SYSTEM COMPONENTS IDENTIFIED FOR REMOVAL OR ABANDONMENT UNTIL REPLACEMENTS ARE IN SERVICE. CONTRACT ADMINISTRATOR AND LOCAL OPERATING AUTHORITY MAY AUTHORIZE EXEMPTIONS.


- ### SHEET KEYNOTES
- ABANDONMENTS
- ABANDON MAINTENANCE HOLE, CATCH BASIN, DITCH INLET OR VALVE CHAMBER PER OPSS 510.07.03.06
 - ABANDON PIPE/CULVERT BY FILLING WITH GROUT OR CONCRETE PER OPSS 510.07.03.09 AFTER CONFIRMING INACTIVE.
 - ABANDON VALVE PER OPSS 510.07.03.11
 - ABANDON WATER SERVICE PER OPSS 510.07.03.11
- CAPPINGS
- CAP MAINTENANCE HOLE, CATCH BASIN, DITCH INLET OR VALVE CHAMBER PER OPSS 510.07.03.07
 - CAP/PLUG USING APPROPRIATE FITTING.
- WORK BY OTHERS
- DEMOLISH/REMOVE
 - REMOVED BY OTHERS
 - RELOCATED BY OTHERS
- REMOVALS
- REMOVE CURB AND GUTTER PER OPSS 510.07.03.02, 510.07.03.03, 510.07.03.04
 - REMOVE MAINTENANCE HOLE, CATCH BASIN, DITCH INLET OR VALVE CHAMBER PER OPSS 510.07.03.05
 - REMOVE PIPE/CULVERT, ALL SIZES, PER OPSS 510.07.03.08. WORK INCLUDES REMOVAL AND REPLACEMENT OF SIDEWALK AS REQUIRED.
 - REMOVE SUBDRAIN PER OPSS 510.07.03.10
 - REMOVE HYDRANT PER OPSS 510.07.03.11
 - REMOVE PAVEMENT, FULL DEPTH, PER OPSS 510.07.06.03
 - REMOVE ASPHALT PAVEMENT, PARTIAL DEPTH PER OPSS 510.07.06.04. REMOVAL DEPTH NOTED IN BRACKETS. (I.E. R7(40mm) INDICATES 40mm REMOVAL DEPTH.)
 - REMOVE DRIVEWAY, SIDEWALK OR SUNDRY PAVEMENT PER OPSS 510.07.08.02
 - REMOVE POLE INCLUDING GUY WIRE(S)
 - REMOVE BOLLARD(S)
 - REMOVE TUNNEL. SEAL ALL OPEN ENDS WITH BRICK SEAL PER OPSS 510.07.03.08. (SEAL MINIMUM THICKNESS OF 1 BRICK LENGTH. CONTACT SURFACE OF EACH BRICK COATED WITH MORTAR TO PROVIDE WATERTIGHT SEAL)
 - REMOVE AND REPLACE INCLUDING REMOVAL AND REPLACEMENT OF SIDEWALK AS REQUIRED.
- SALVAGE
- SALVAGE TO OWNER
 - SALVAGE TO RELOCATE
 - SALVAGE TO OTHER OWNER

APPROVED AS TO FORM, IN RELIANCE UPON THE PROFESSIONAL SKILL AND ABILITY OF AECOM AS TO DESIGN AND SPECIFICATION.

TENDER SET SIGNED BY
 MARK WINTERTON, P. ENG.
 COMMISSIONER
 INFRASTRUCTURE SERVICES



0 6.25 12.5
 1:250

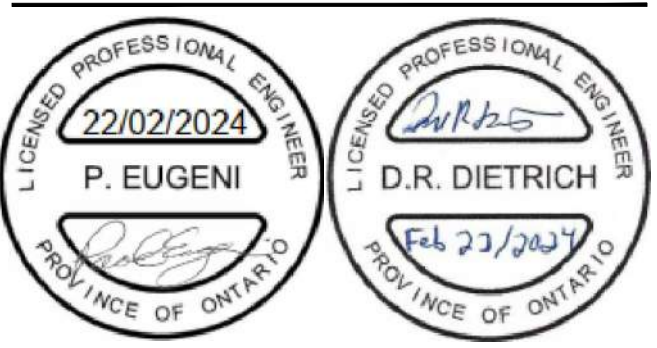


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 Sunset Avenue from Wyandotte Street West to College Avenue & Union Street from Patricia Road to Sunset Avenue

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REGISTRATION



P. EUGENI
 D.R. DIETRICH

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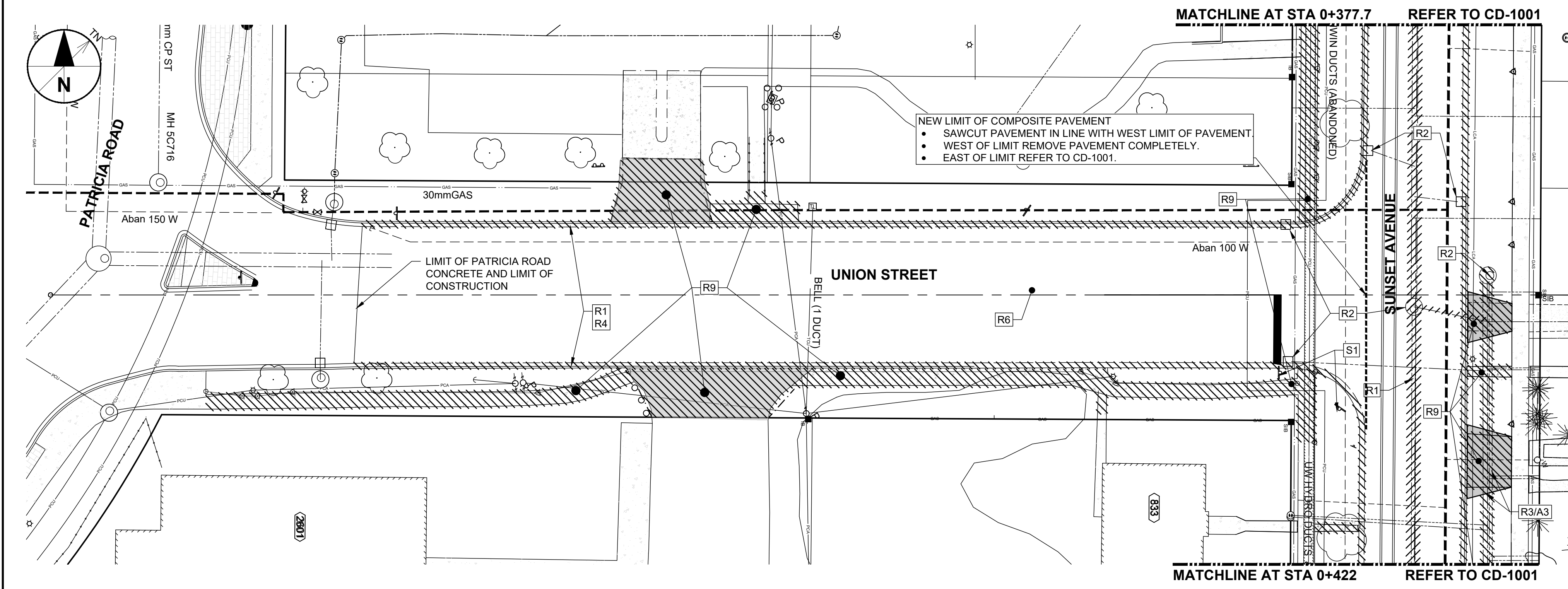
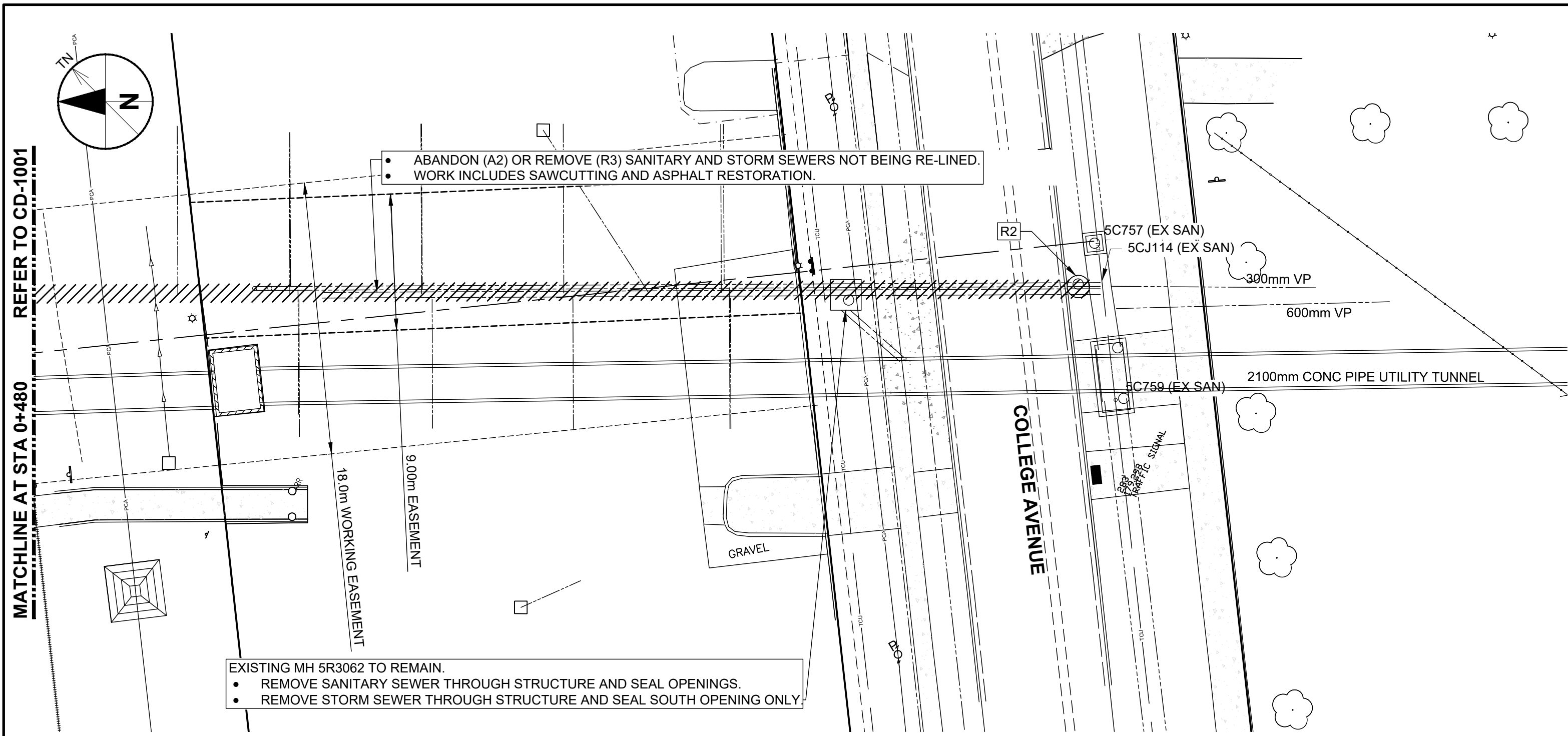
KEY PLAN

PROJECT NUMBER
 60635207

SHEET TITLE
 DEMOLITION
 SUNSET AVE
 0+000 TO 0+480

SHEET NUMBER
 CD-1001

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GENERAL PROJECT NOTES

1. TREES AND SHRUBS TO REMAIN
 - 1.1. PROTECT TREES AND SHRUBS TO REMAIN PER OPSS 801, OPSS 220.01 AND TO SATISFACTION OF CONTRACT ADMINISTRATOR.
 - 1.2. WHEN APPROVED BY CONTRACT ADMINISTRATOR, CAREFULLY REMOVE LIMBS OR PORTIONS OF TREES PER OPSS 801 AND ARBORICULTURAL PRACTICES TO ACCOMMODATE CONSTRUCTION ACTIVITIES.
 - 1.3. REMOVE AND REPLACE, AT OWN EXPENSE, TREES AND SHRUBS THAT DIE OR DECAY WITHIN THE WARRANTY PERIOD OR ARE SEVERELY DAMAGED AS A RESULT OF CONTRACTOR'S NEGLIGENCE.
2. CLEARING AND GRUBBING
 - 2.1. CLEARING AND GRUBBING REMOVAL LIMITS SHOWN INDICATE MINIMUM REQUIRED.
 - 2.2. CONTRACT ADMINISTRATOR MAY PERMIT ADDITIONAL CLEARING AND GRUBBING, AT CONTRACTOR'S EXPENSE, TO ACCOMMODATE CONTRACTOR'S OPERATIONS.
3. TOPSOIL STRIPPING
 - 3.1. STOCKPILE TOPSOIL SEPARATE FROM OTHER MATERIALS. (SEE S-34, SECTION 34.05.01)
4. OTHER
 - 4.1. SALVAGE ALL SIGNS, MAIL BOXES, POSTS, ETC. REMOVED TO ACCOMMODATE CONSTRUCTION. REINSTATE TO CONTRACT ADMINISTRATOR'S APPROVAL.
 - 4.2. REINSTATE ROAD SIGNS AT END OF EACH DAY'S ACTIVITIES. MAINTAIN EXISTING STOP SIGNS AT ALL TIMES.
 - 4.3. MAINTAIN POTABLE WATER SYSTEM AND SEWER SYSTEM COMPONENTS IDENTIFIED FOR REMOVAL OR ABANDONMENT UNTIL REPLACEMENTS ARE IN SERVICE. CONTRACT ADMINISTRATOR AND LOCAL OPERATING AUTHORITY MAY AUTHORIZE EXEMPTIONS.

SHEET KEYNOTES

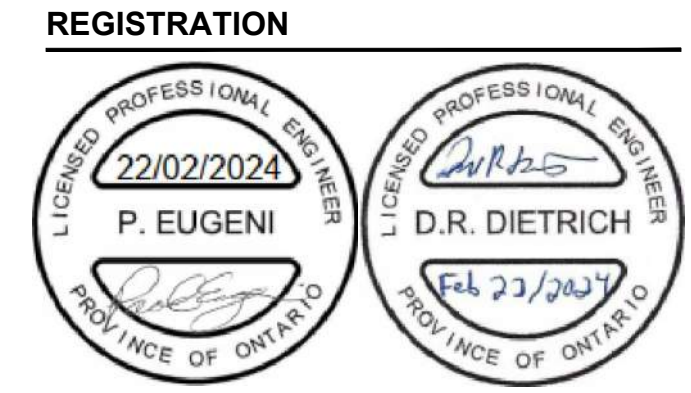
- ABANDONMENTS
- A1: ABANDON MAINTENANCE HOLE, CATCH BASIN, DITCH INLET OR VALVE CHAMBER PER OPSS 501.07.03.06
 - A2: ABANDON PIPE/CULVERT BY FILLING WITH GROUT OR CONCRETE PER OPSS 510.07.03.09 AFTER CONFIRMING INACTIVE.
 - A4: ABANDON VALVE PER OPSS 510.07.03.11.
 - A5: ABANDON WATER SERVICE PER OPSS 510.07.03.11.
- CAPPINGS
- C1: CAP MAINTENANCE HOLE, CATCH BASIN, DITCH INLET OR VALVE CHAMBER PER OPSS 501.07.03.07.
 - C2: CAP/PLUG USING APPROPRIATE FITTING.
- WORK BY OTHERS
- D1: DEMOLISH/REMOVE
 - O1: REMOVED BY OTHERS
 - O2: RELOCATED BY OTHERS
- REMOVALS
- R1: REMOVE CURB AND GUTTER PER OPSS 510.07.03.02, 510.07.03.03, 510.07.03.04
 - R2: REMOVE MAINTENANCE HOLE, CATCH BASIN, DITCH INLET OR VALVE CHAMBER PER OPSS 501.07.03.05
 - R3: REMOVE PIPE/CULVERT, ALL SIZES, PER OPSS 510.07.03.08. WORK INCLUDES REMOVAL AND REPLACEMENT OF SIDEWALK AS REQUIRED.
 - R4: REMOVE SUBDRAIN PER OPSS 510.07.03.10.
 - R5: REMOVE HYDRANT PER OPSS 510.07.03.11.
 - R6: REMOVE PAVEMENT, FULL DEPTH, PER OPSS 510.07.06.03.
 - R7: REMOVE ASPHALT PAVEMENT, PARTIAL DEPTH PER OPSS 510.07.06.04. REMOVAL DEPTH NOTED IN BRACKETS. (I.E. R7(40mm) INDICATES 40mm REMOVAL DEPTH.)
 - R8: REMOVE CONCRETE PAVEMENT, PARTIAL DEPTH PER OPSS 510.07.06.06. REMOVAL DEPTH NOTED IN BRACKETS. (I.E. R8(40mm) INDICATES 40mm REMOVAL DEPTH.)
 - R9: REMOVE DRIVEWAY, SIDEWALK OR SUNDRY PAVEMENT PER OPSS 510.07.08.02.
 - R10: REMOVE POLE INCLUDING GUY WIRE(S).
 - R11: REMOVE BOLLARD(S).
 - R12: REMOVE TUNNEL. SEAL ALL OPEN ENDS WITH BRICK SEAL PER OPSS 510.07.03.08.
 - R13: REMOVE AND REPLACE INCLUDING REMOVAL AND REPLACEMENT OF SIDEWALK AS REQUIRED.
- SALVAGE
- S1: SALVAGE TO OWNER
 - S2: SALVAGE TO RELOCATE
 - S3: SALVAGE TO OTHER OWNER



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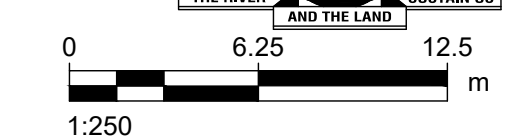
PROJECT NUMBER
 60635207

SHEET TITLE
 DEMOLITION
 SUNSET AVE - 0+480 TO END
 AND UNION ST

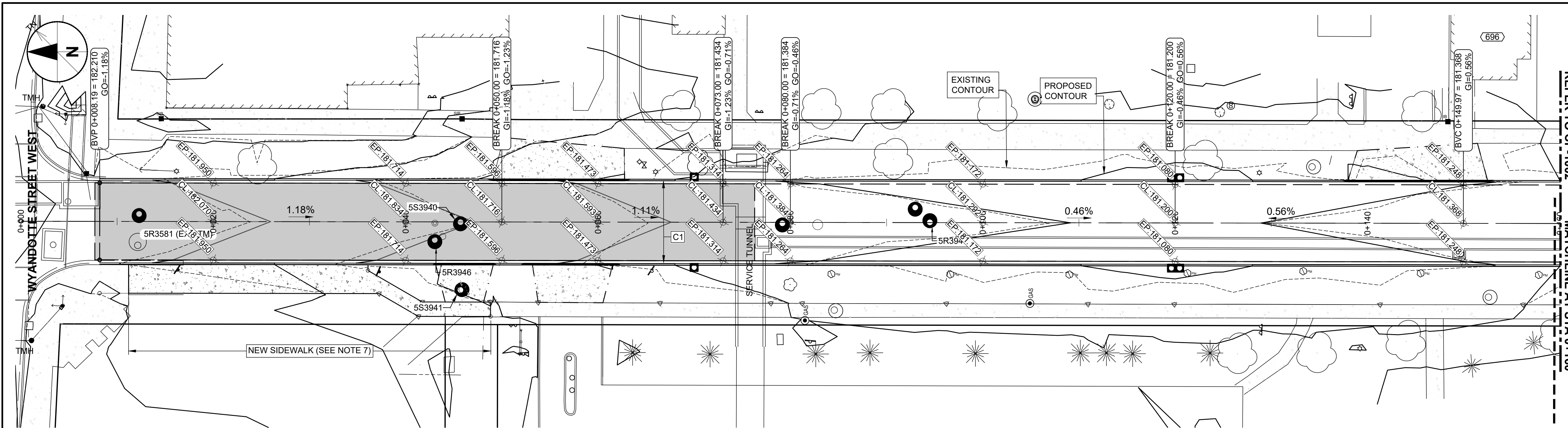
SHEET NUMBER
 CD-1002

APPROVED AS TO FORM, IN RELIANCE UPON THE PROFESSIONAL SKILL AND ABILITY OF AECOM AS TO DESIGN AND SPECIFICATION.

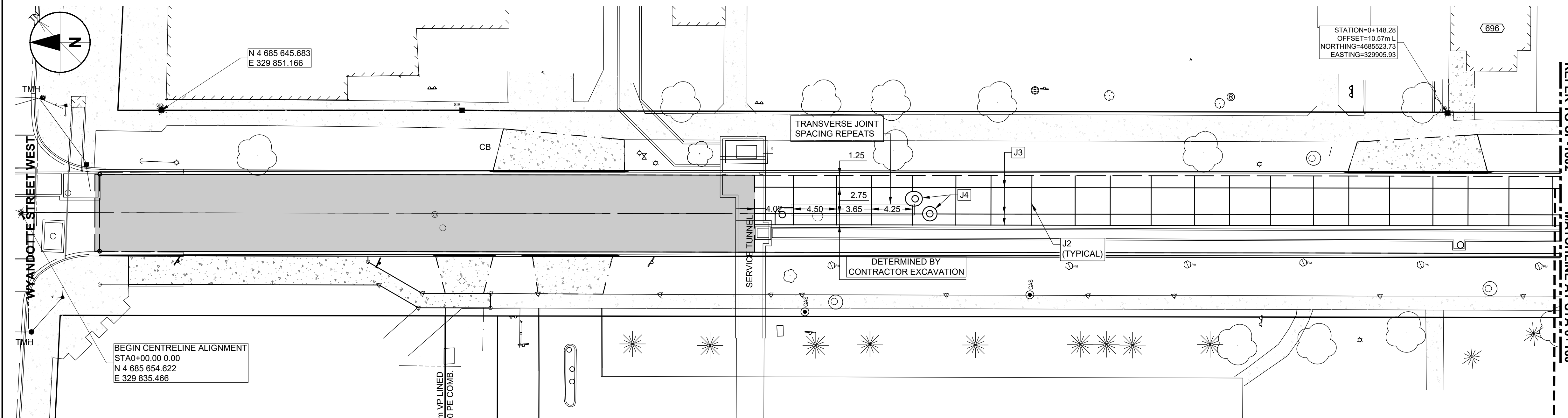
TENDER SET SIGNED BY
 MARK WINTERTON, P. ENG.
 COMMISSIONER
 INFRASTRUCTURE SERVICES



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PROPOSED GRADING



CONCRETE JOINTS

GENERAL SHEET NOTES

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 - 115mm CONCRETE ON 50mm GRANULAR A (NR). INCREASE CONCRETE THICKNESS TO 150mm THROUGH DRIVEWAYS. INCREASE CONCRETE THICKNESS TO 225mm WHERE ADJACENT TO CURB AT INTERSECTIONS FOR MINIMUM 1.5m FROM BACK OF CURB.
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SHEET TITLE

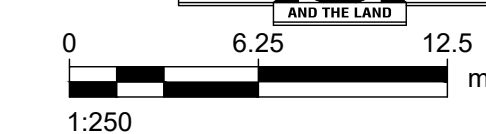
PAVING AND GRADING
 SUNSET AVENUE
 0+000 TO 0+160

SHEET NUMBER

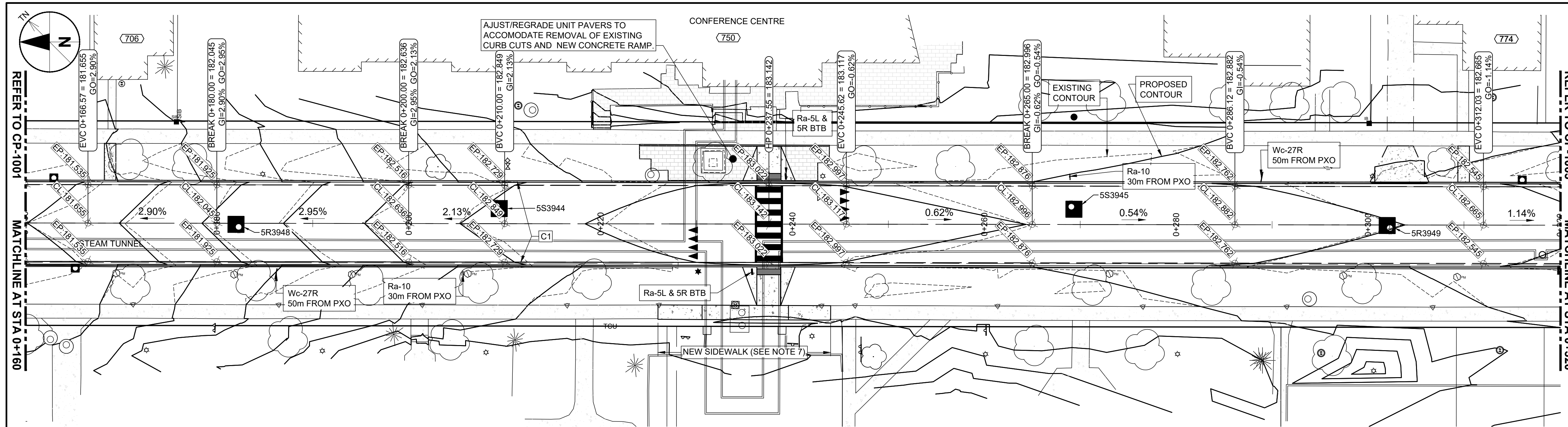
CP-1001

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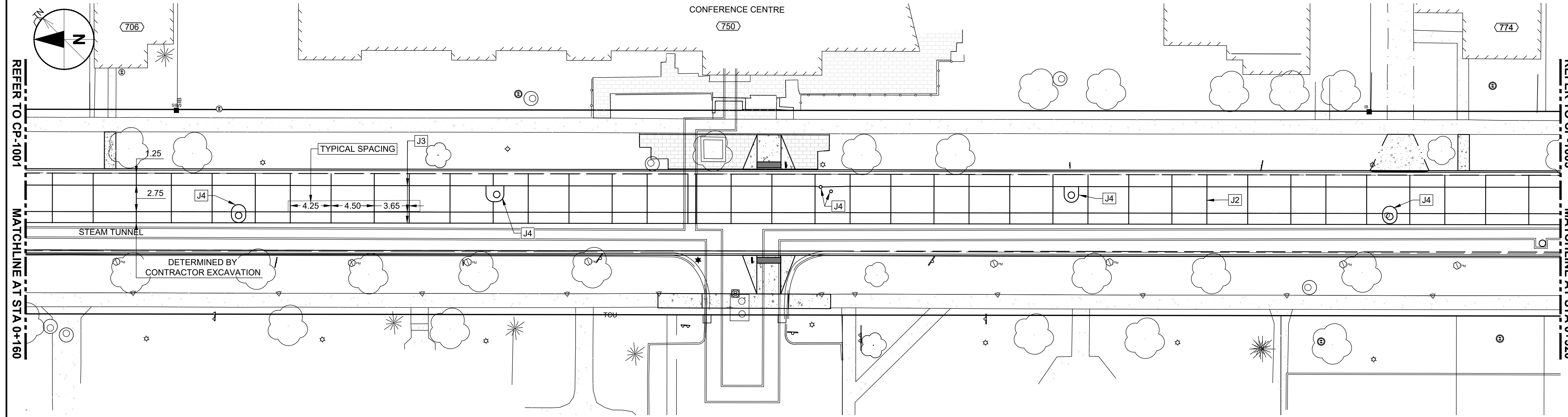
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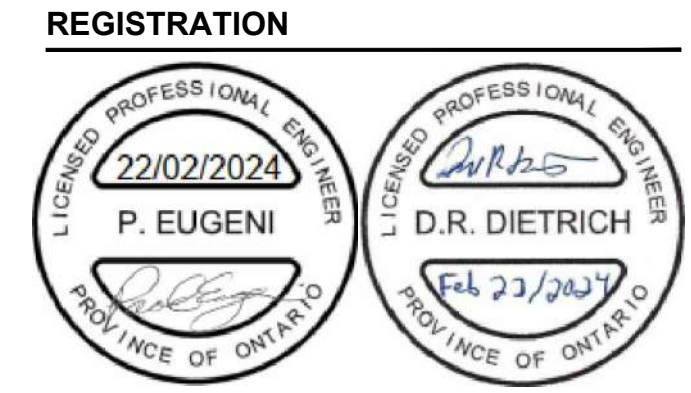
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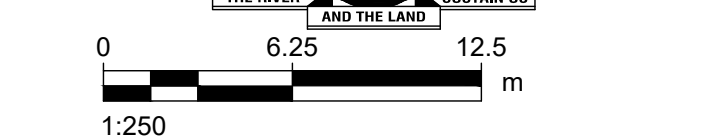


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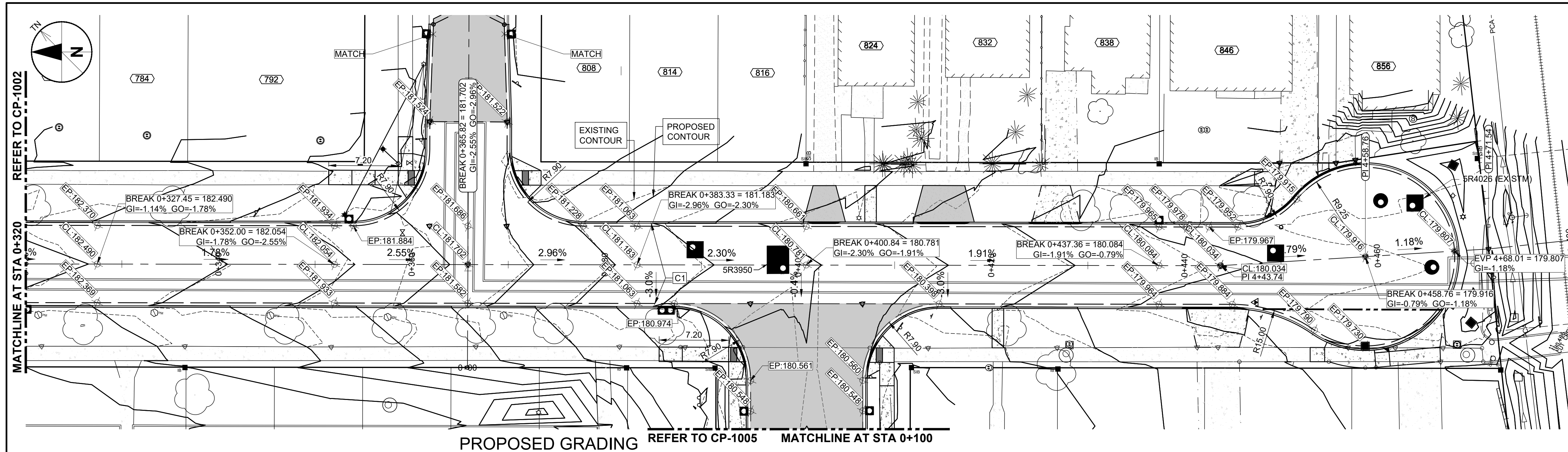
KEY PLAN

PROJECT NUMBER
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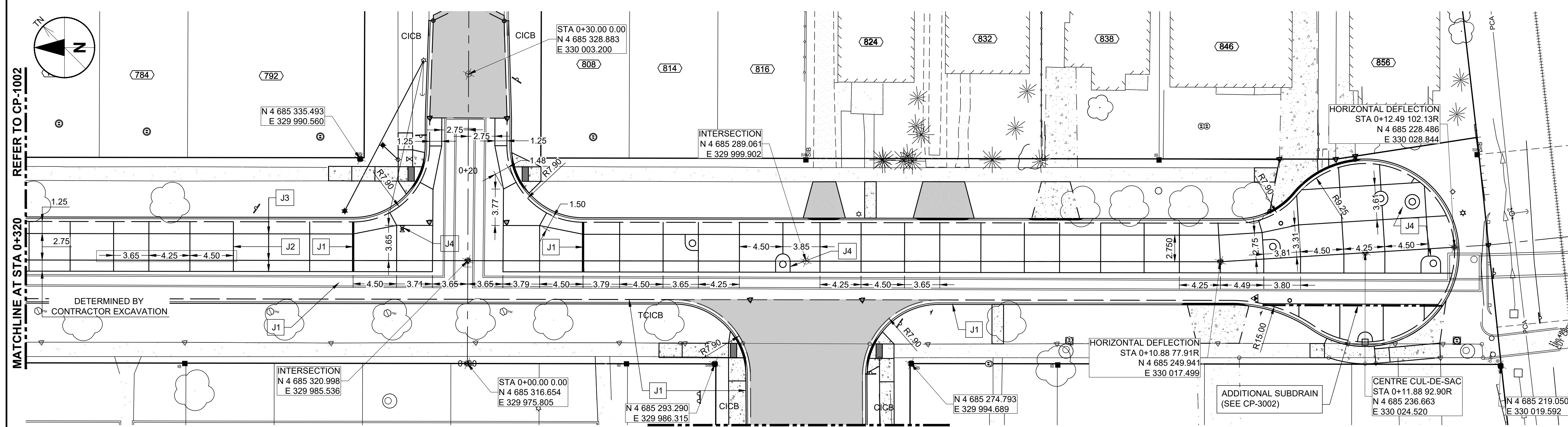
SHEET TITLE
 PAVING & GRADING
 SUNSET AVENUE
 0+160 TO 0+320

SHEET NUMBER
 CP-1002

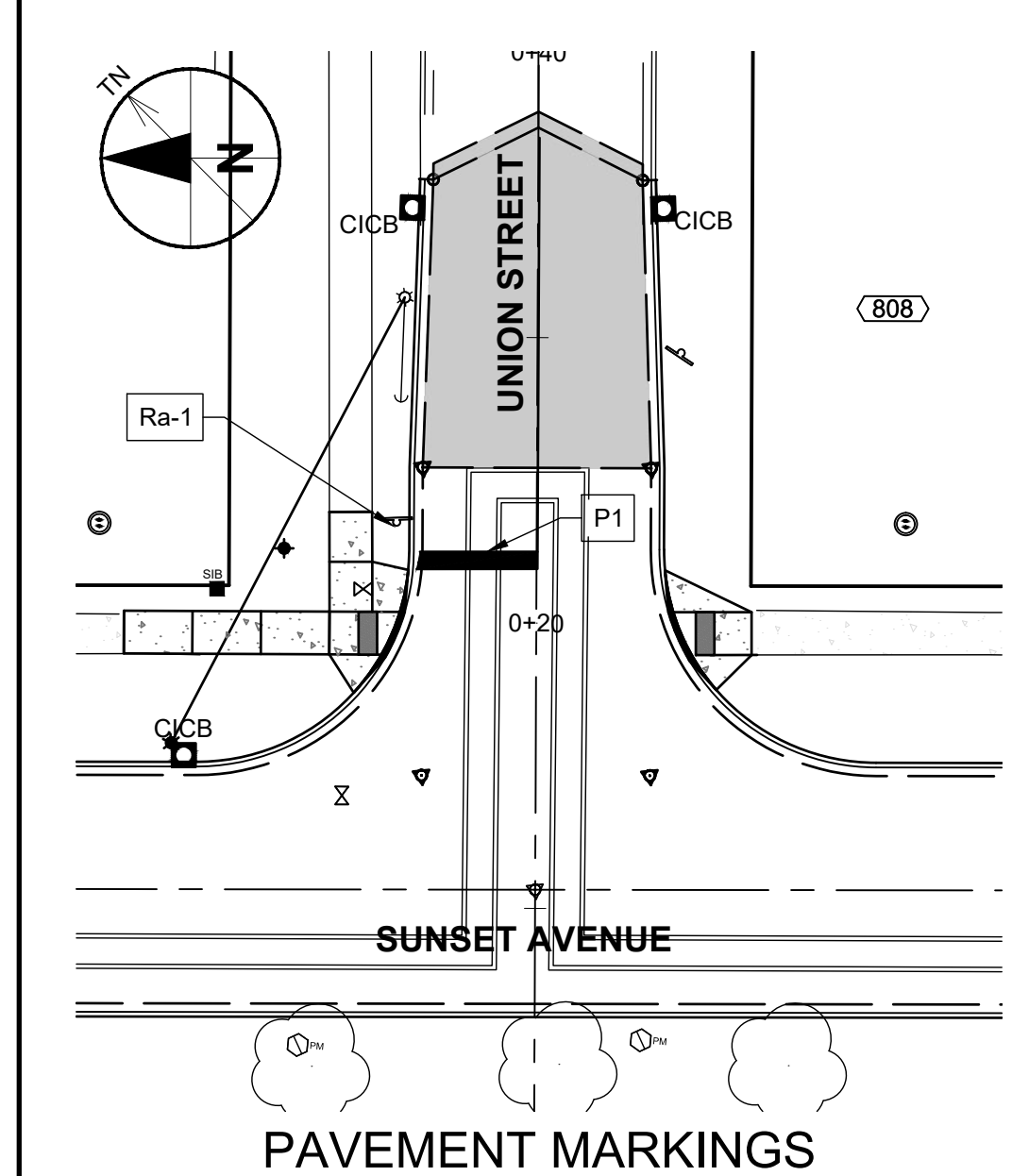
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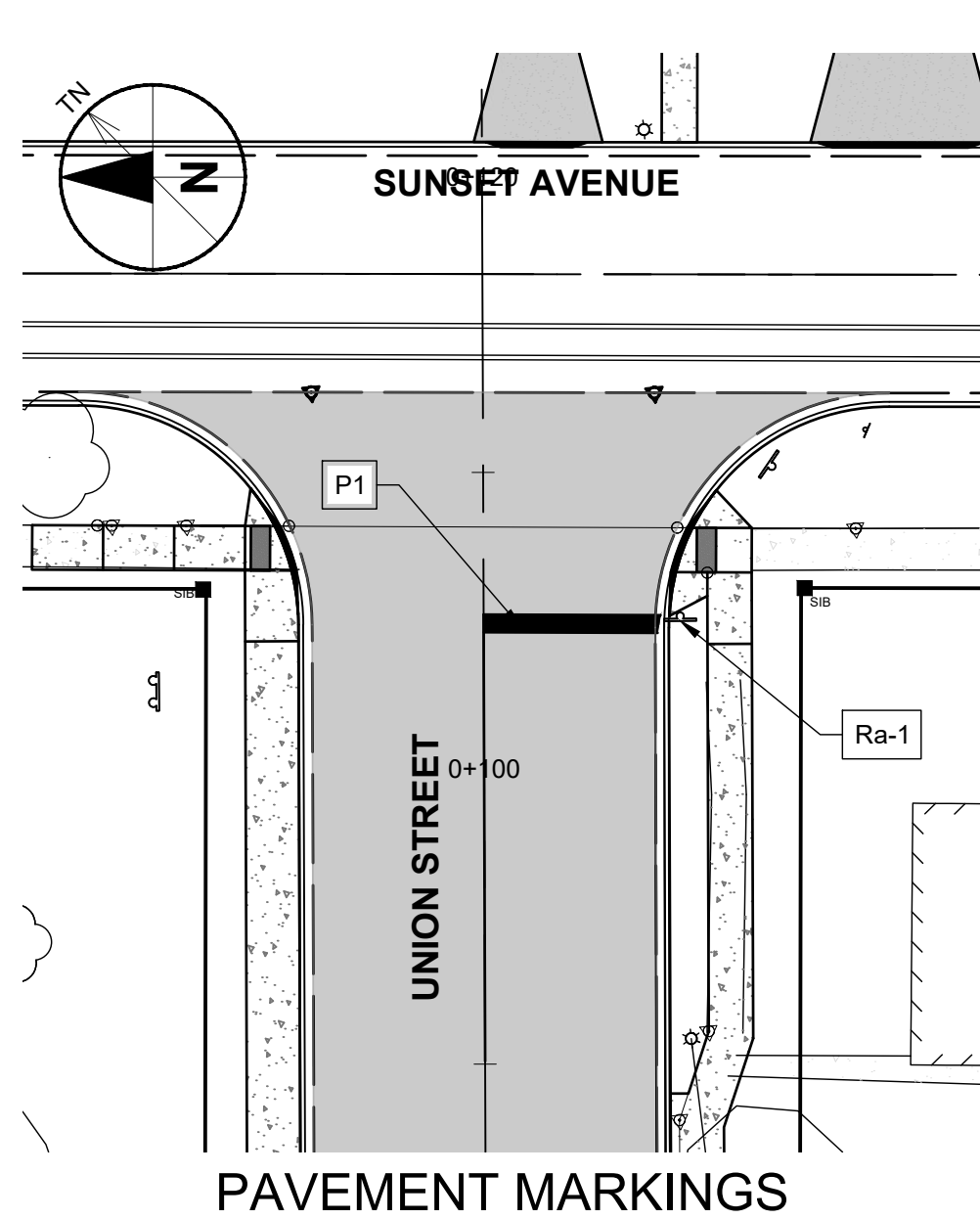
PROPOSED GRADING REFER TO CP-1005 MATCHLINE AT STA 0+100



CONCRETE JOINTS REFER TO CP-1005 MATCHLINE AT STA 0+100



PAVEMENT MARKINGS



PAVEMENT MARKINGS

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 P1: 0.60m STOP BAR AND 30m YELLOW CENTRELINE MARKING

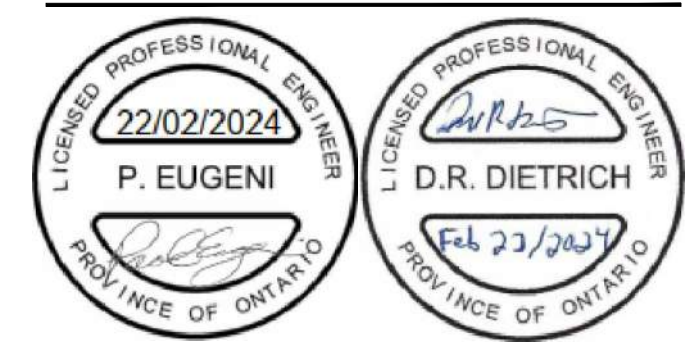


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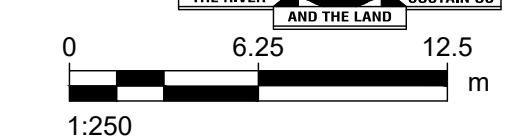
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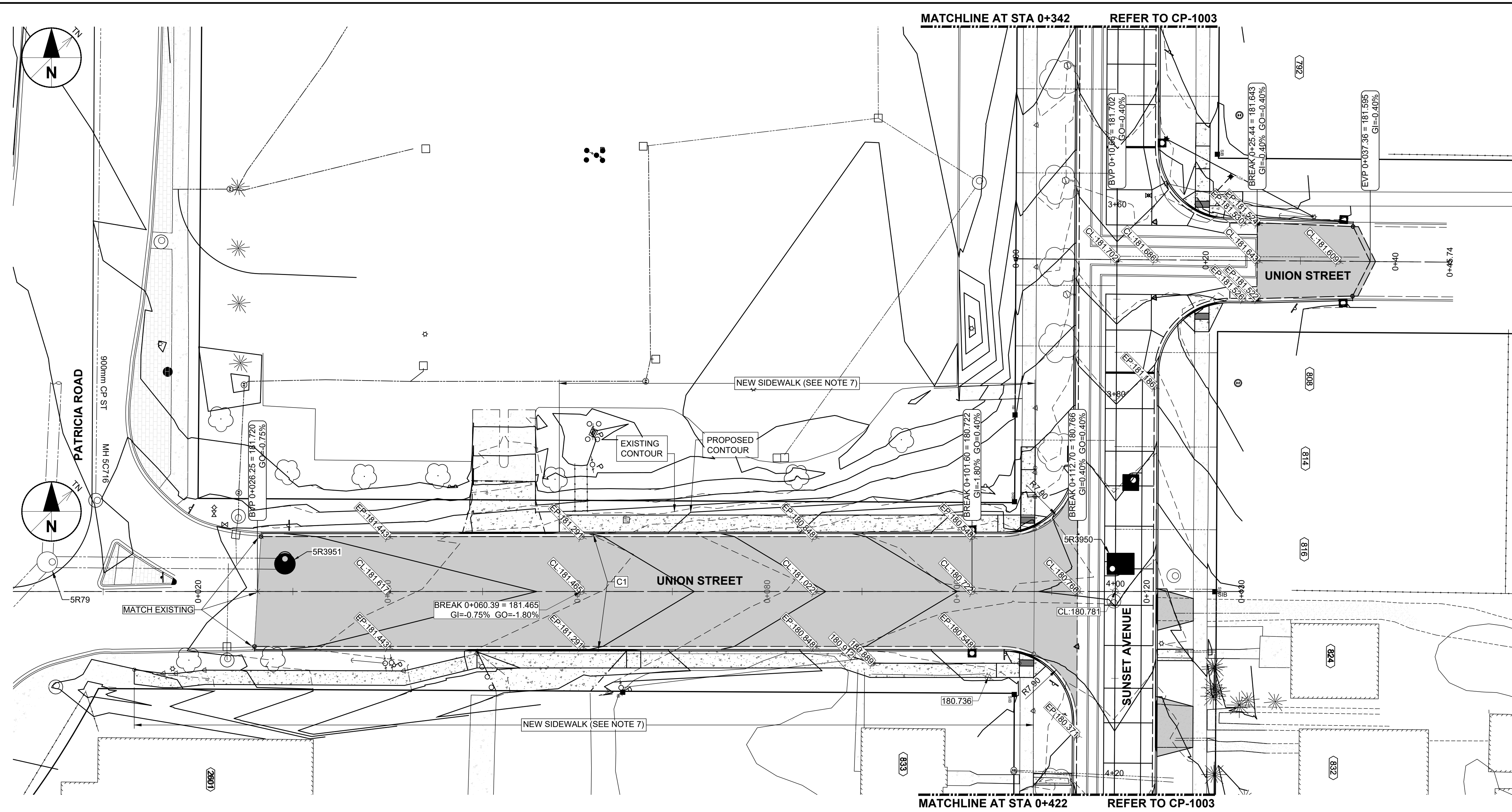
PROJECT NUMBER
 60635207
SHEET TITLE
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 SUNSET AVE
 0+320 TO 0+480
SHEET NUMBER
 CP-1003

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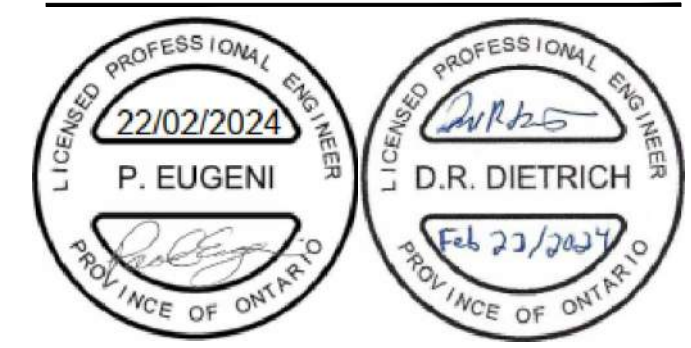


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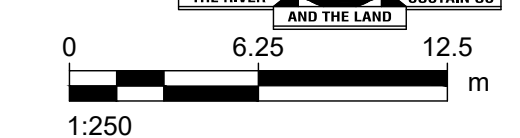
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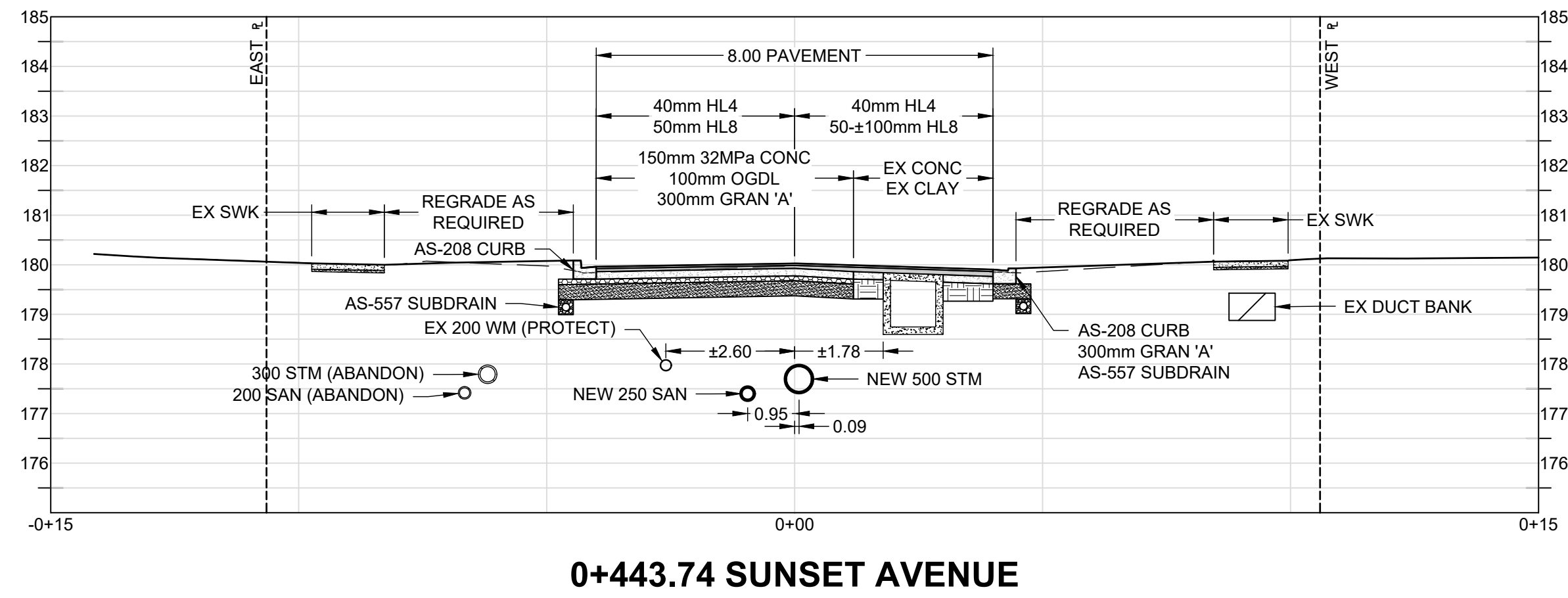
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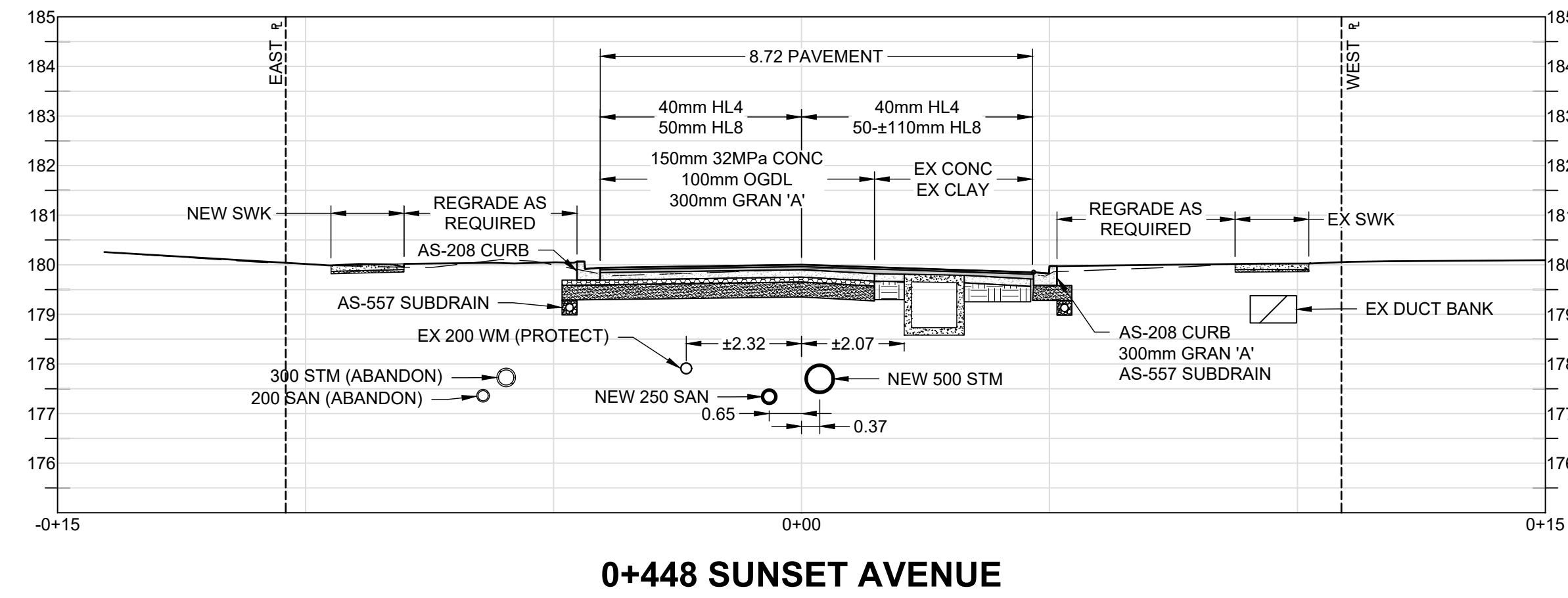
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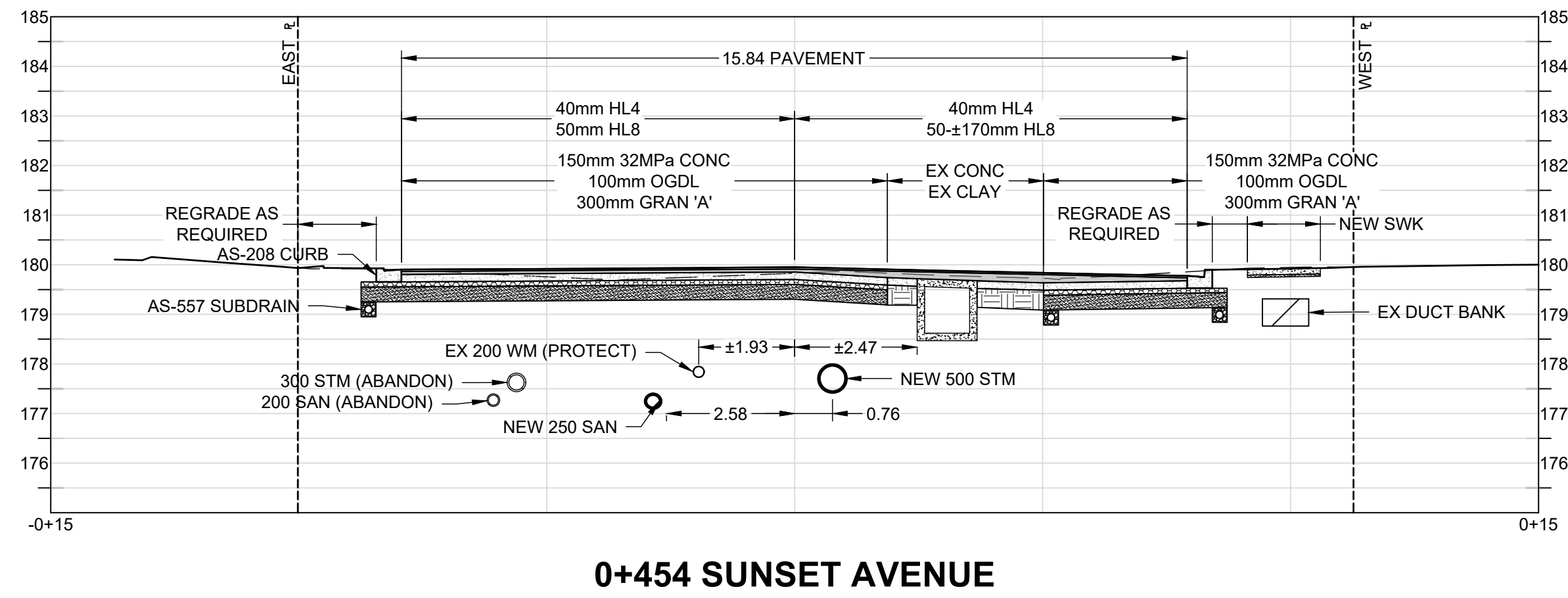
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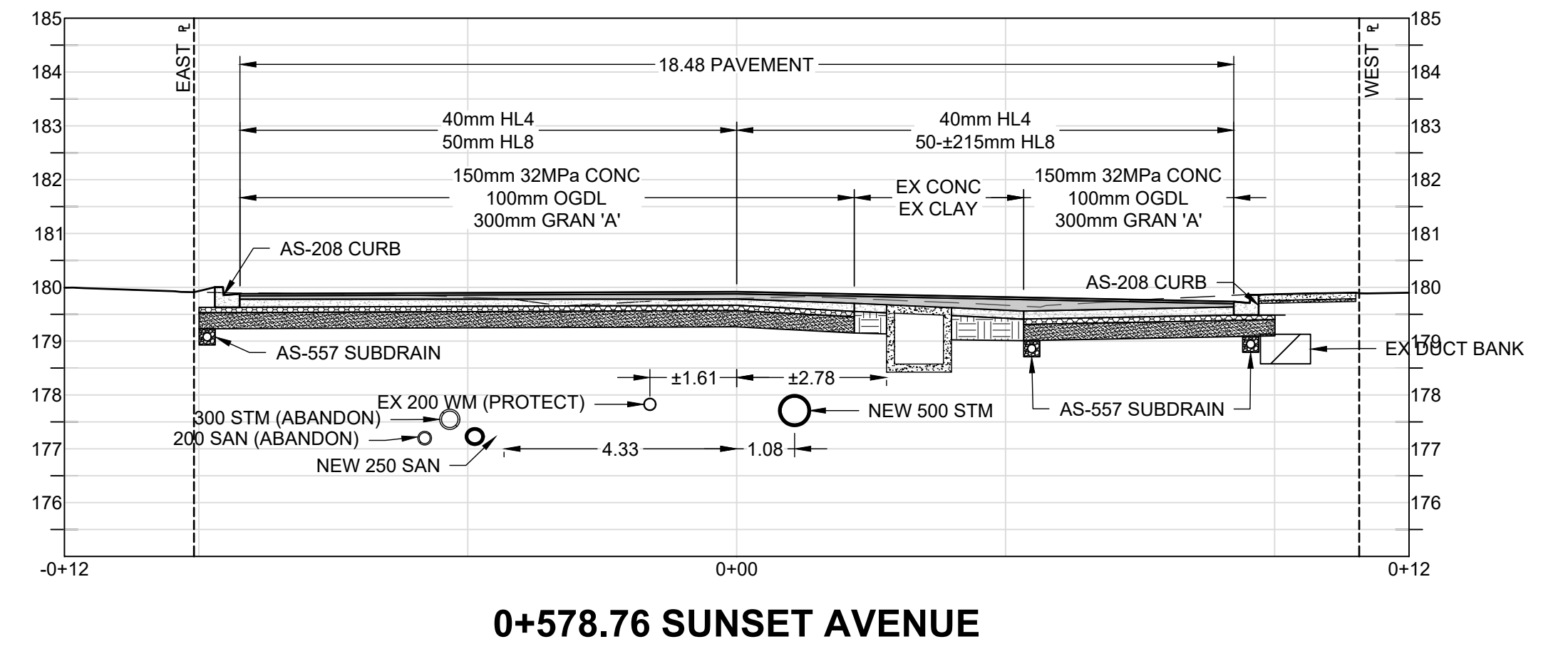
0+443.74 SUNSET AVENUE



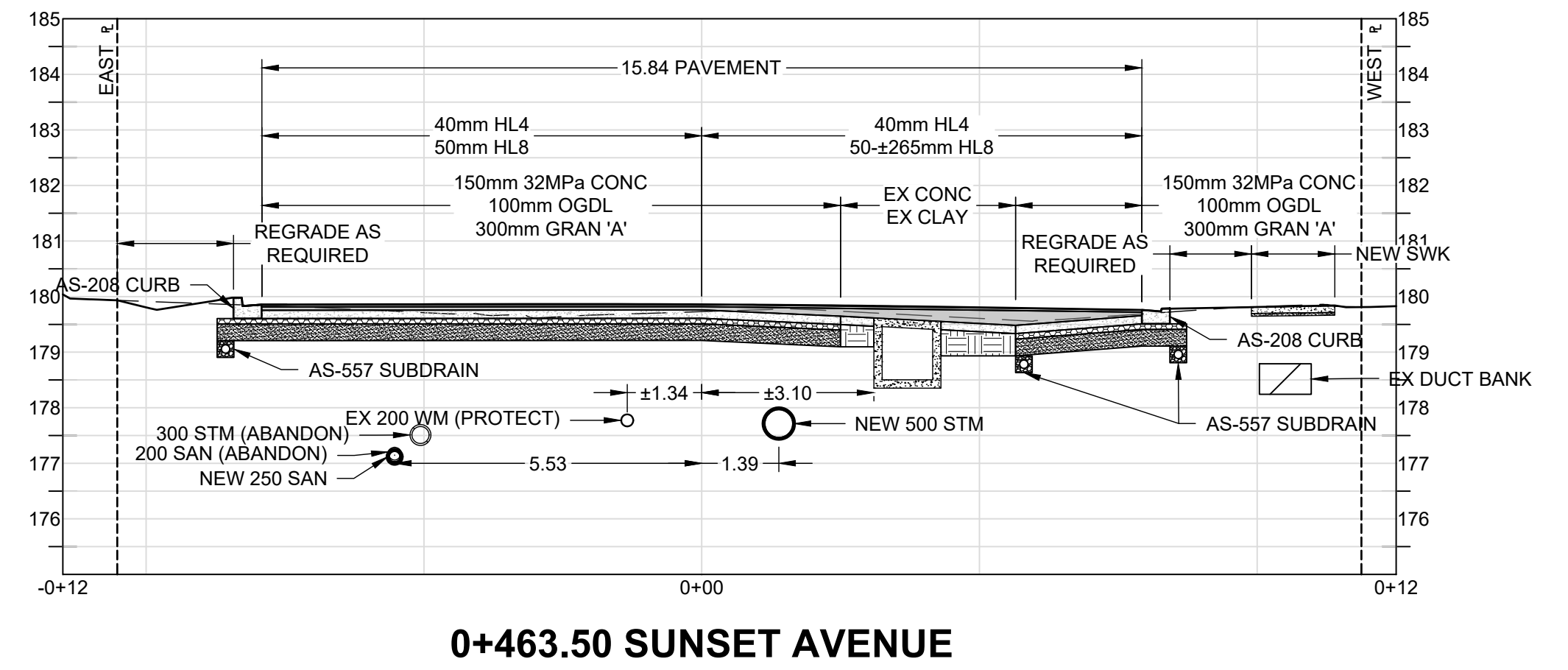
0+448 SUNSET AVENUE



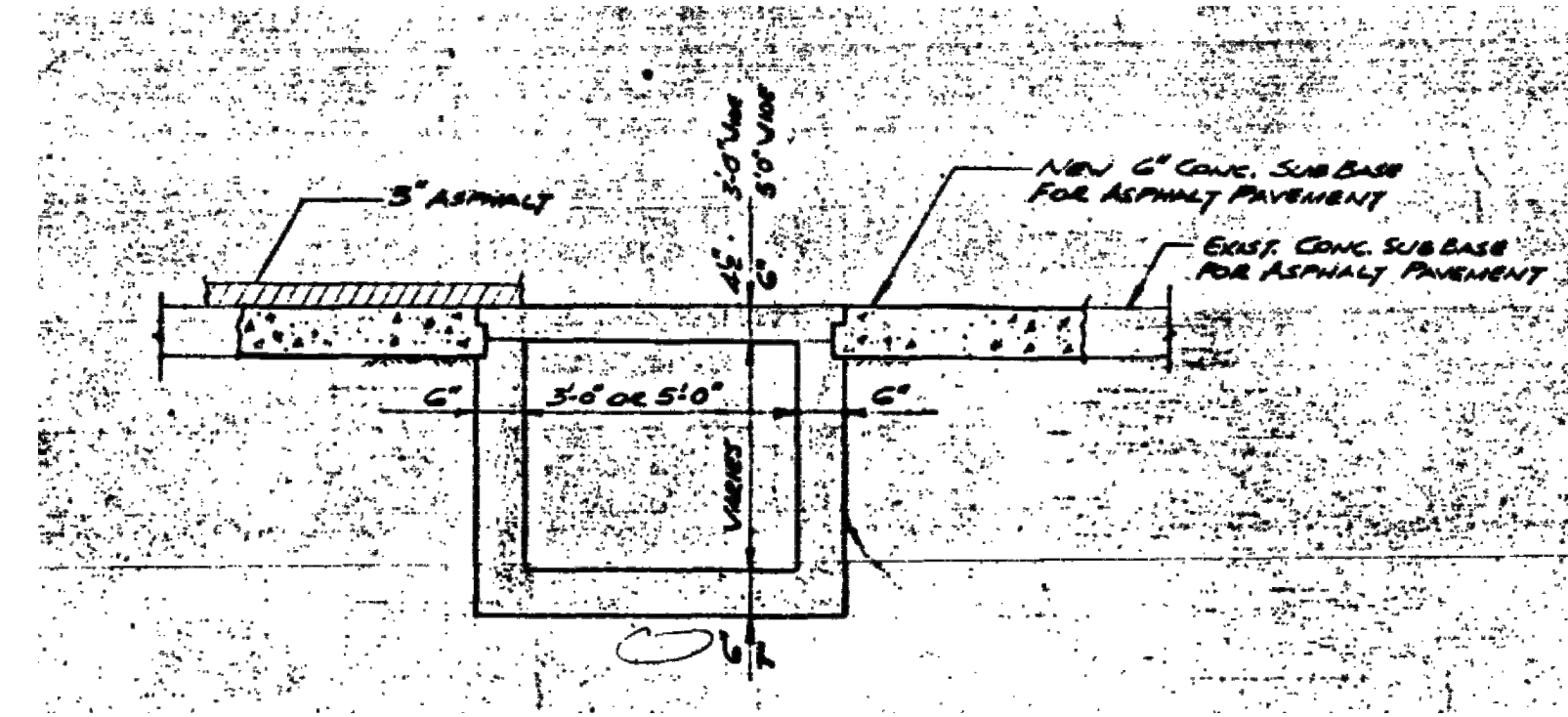
0+454 SUNSET AVENUE



0+578.76 SUNSET AVENUE



0+463.50 SUNSET AVENUE



TYPICAL SECTION THROUGH STEAM TUNNEL (N.T.S.)

PAVEMENT INTERFACE NOTES:

1. INTERFACE BETWEEN NEW FULL DEPTH ASPHALT PAVEMENT AND OTHER PAVEMENTS PER AS-554A & AS-554B (SEE CP-5001).
2. CONNECTION BETWEEN EXISTING CONCRETE (COMPOSITE PAVEMENT) AND NEW ABUTTING CONCRETE (COMPOSITE PAVEMENT OR CURB) TO BE 15x760mm EPOXY COATED DEFORMED TIE BARS AT 600mm OC AT MID-DEPTH OF CONCRETE PER OPSD 552.020.

APPROVED AS TO FORM, IN RELIANCE UPON THE PROFESSIONAL SKILL AND ABILITY OF AECOM AS TO DESIGN AND SPECIFICATION.

TENDER SET SIGNED BY
MARK WINTERTON, P. ENG.
COMMISSIONER
INFRASTRUCTURE SERVICES



PROJECT

Sunset Avenue Sewer Separation, Phase 3

Sunset Avenue from Wyandotte Street West to College Avenue & Union Street from Patricia Road to Sunset Avenue

CLIENT

The Corporation of the
City of Windsor
350 City Hall Square West
Windsor, Ontario, N9A 6S1
519.255.2488 tel 519.256.3311 fax
www.cityofwindsor.ca

CONSULTANT

AECOM Canada Ltd.
City Plaza, 250 York Street, Suite 410
London, Ontario, N6A 6K2
519.673.0510 519.673.5975 fax
www.aecom.com

REGISTRATION



ISSUE/REVISION

I/R	DATE	DESCRIPTION
0	2024-02-22	Issued for Construction
F	2023-11-01	Re-Issued for Tender
E	2023-05-18	Issued for Tender
D	2023-03-30	Issued for Review
C	2020-11-12	Issued for MECP Approval
B	2020-08-07	Issued for City Review

KEY PLAN

PROJECT NUMBER

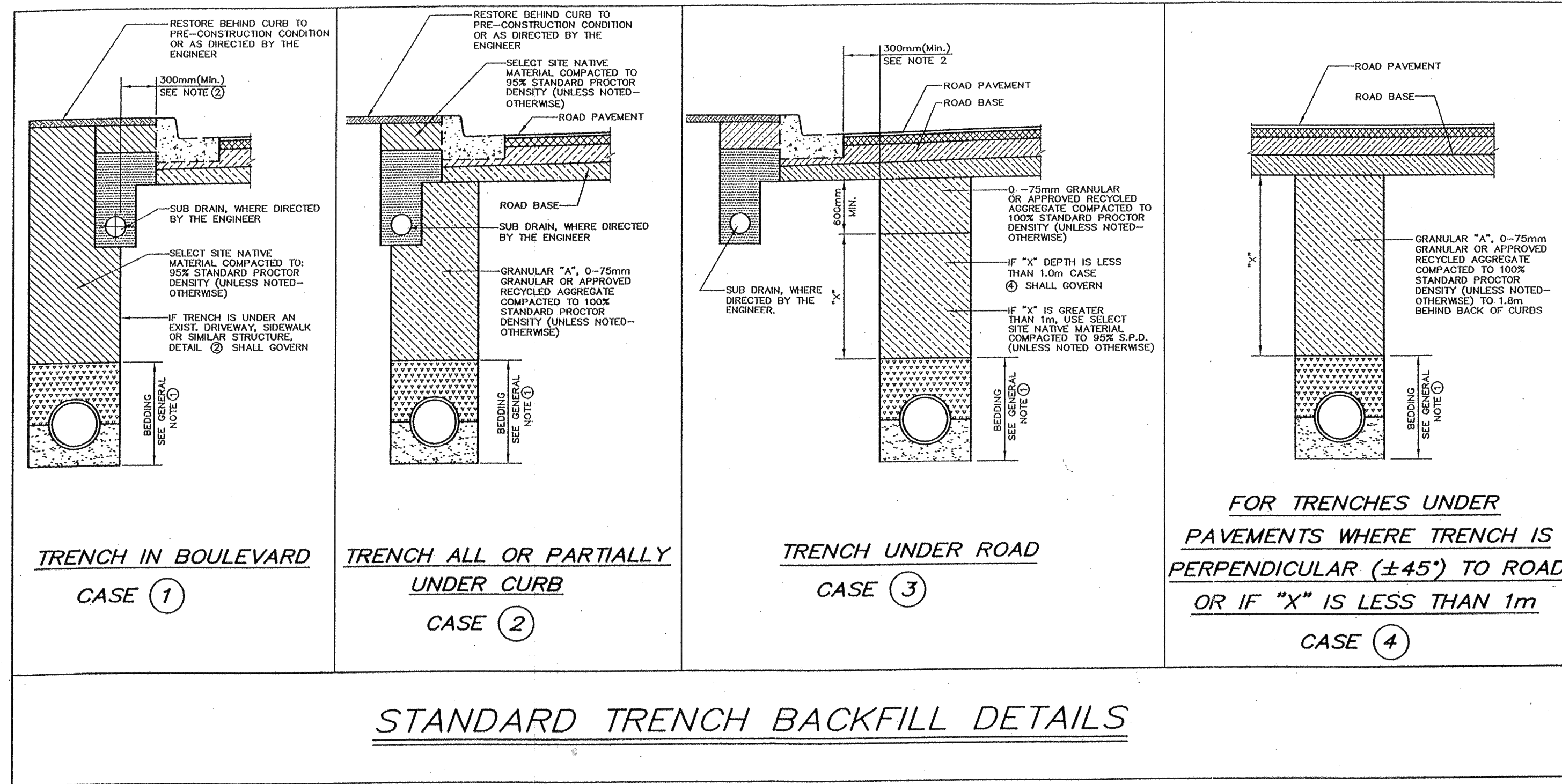
60635207

SHEET TITLE

PAVING & GRADING
CROSS SECTIONS 2

SHEET NUMBER

CP-3002



STANDARD TRENCH BACKFILL DETAILS

GENERAL NOTES:

- ① FOR SEWER AND PRIVATE SEWER CONNECTION CONSTRUCTION, ALL WORK TO BE IN ACCORDANCE WITH THE CITY OF WINDSOR STANDARD SPECIFICATIONS S-1 APPLIED TO ALL CASES ①, ②, ③ & ④ OF THIS STANDARD DRAWING.
- ② FOR ALL CASES, IF TRENCH WALL IS CLOSER THAN 300mm FROM THE BACK OF CURB (FUTURE OR EXISTING) OR EDGE OF PAVEMENT (FUTURE OR EXISTING), IN ANY DIRECTION, THEN CASE ② SHALL GOVERN.
- ③ FOR CASE ④, WHERE TRENCH CROSSES PERPENDICULAR TO ROADWAY ($\pm 45^\circ$) AND CROSSES UNDERNEATH AN EXISTING CURB, DRIVEWAY OR SIMILAR STRUCTURE, EXTEND GRANULAR BACKFILL TO 1.8m (MIN.) EITHER SIDE OF STRUCTURE.
- ④ THIS DETAIL ADDRESSES TRENCH BACKFILL ONLY. SURFACE RESTORATION SHALL BE AS OTHERWISE APPROVED BY THE COMMISSIONER OF WORKS.

CITY OF WINDSOR
 DEPARTMENT OF PUBLIC WORKS

STANDARD TRENCH BACKFILL DETAILS

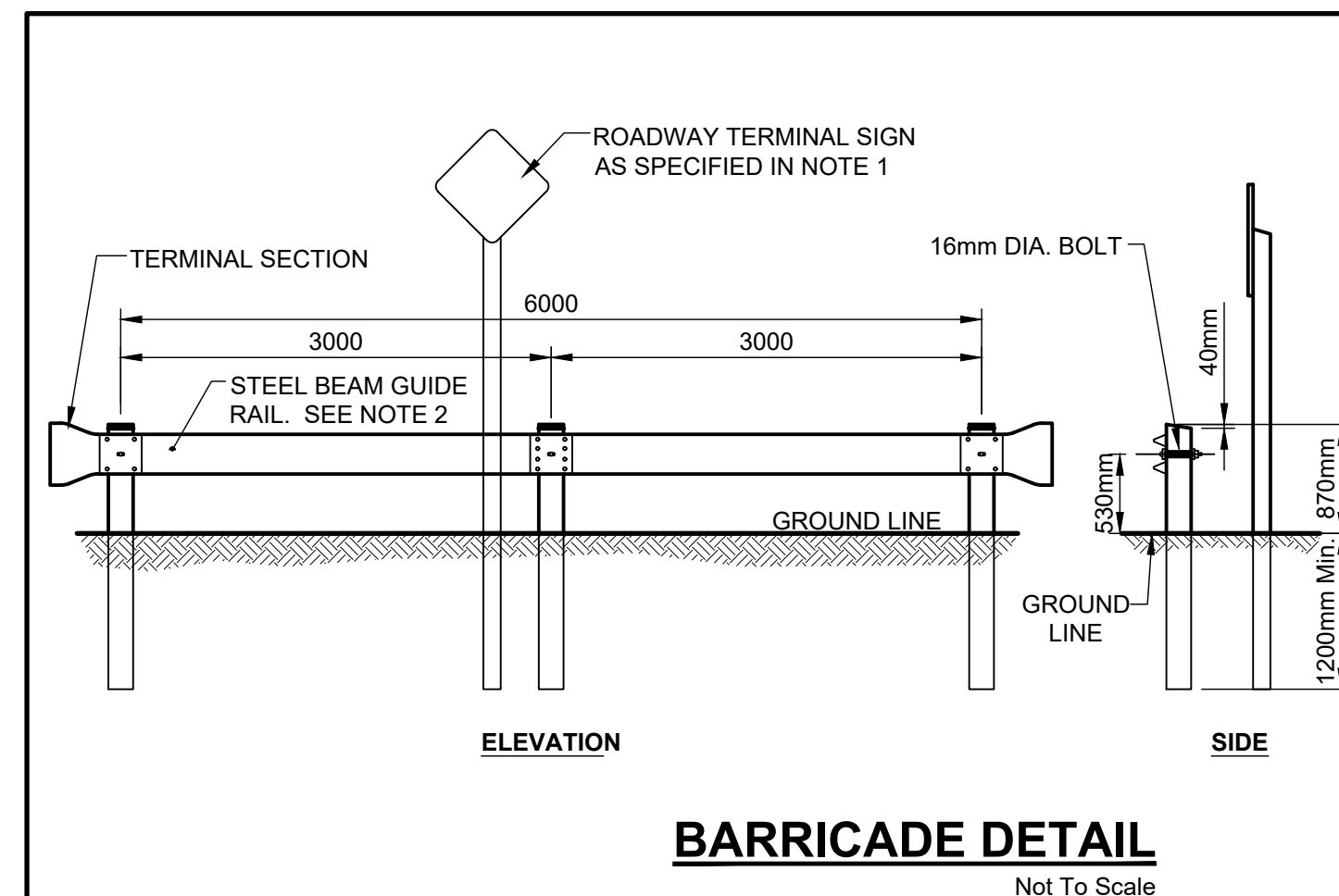
DR'N BY: R.C. DATE: OCTOBER, 2002
 REVISION: _____ CH'KD BY: _____
 CH'KD BY: _____ PASSED BY: _____

COMMISSIONER OF WORKS AS-536

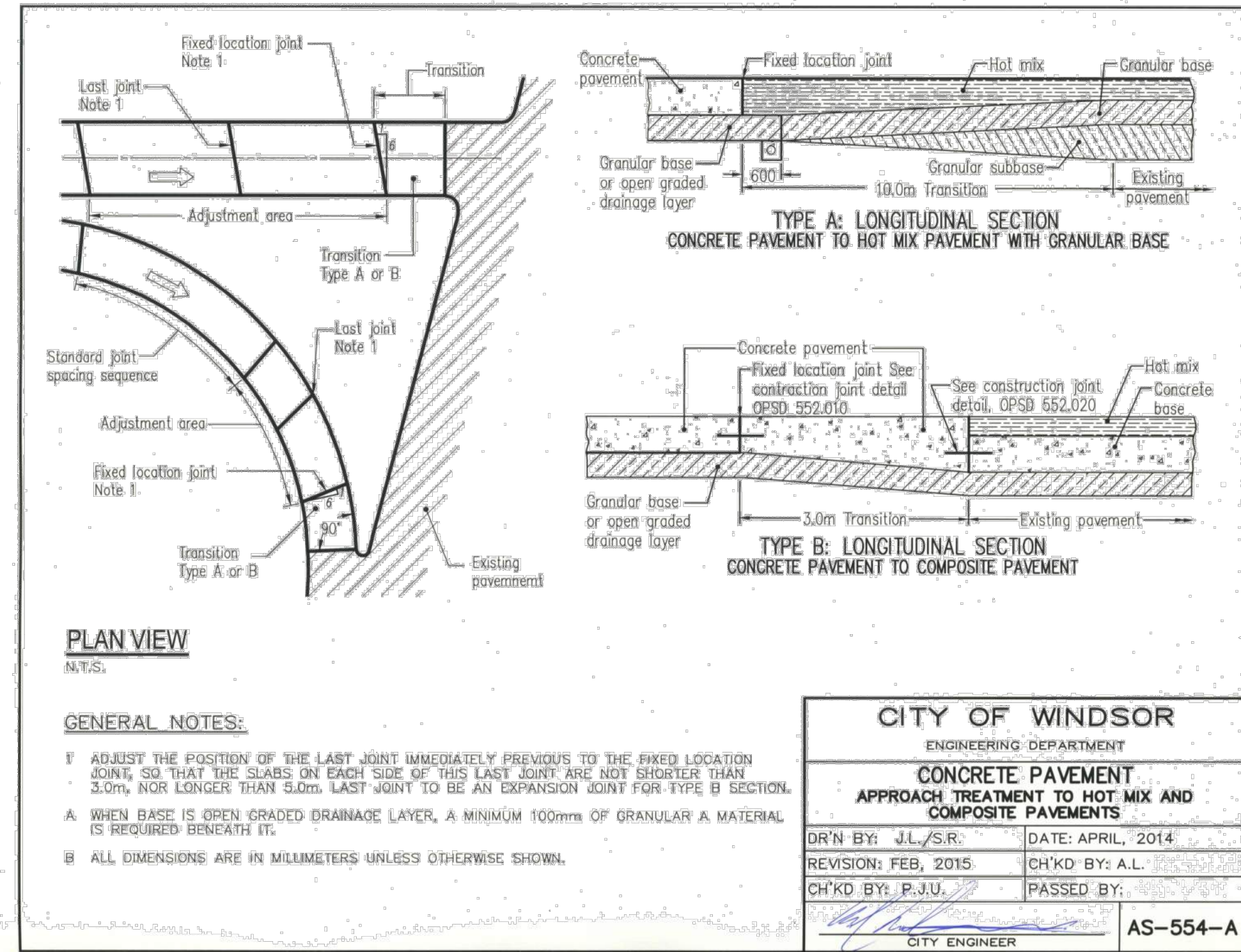
MATERIAL	RESIDENTIAL		COMMERCIAL	
	WITHIN R.O.W.	WITHIN PRIVATE LANDS	WITHIN R.O.W.	WITHIN PRIVATE LANDS
ASPHALT DRIVEWAY	75mm OF HL4 ASPHALT 225mm GRANULAR 'A' IN ACCORDANCE TO AS-221	75mm OF HL4 ASPHALT 225mm GRANULAR 'A' IN ACCORDANCE TO AS-221	150mm OF HL4 ASPHALT 50mm GRANULAR 'A' IN ACCORDANCE TO AS-203	150mm OF HL4 ASPHALT 50mm GRANULAR 'A' IN ACCORDANCE TO AS-203
CONCRETE DRIVEWAY	115mm CONCRETE SLAB 50mm GRANULAR 'A' IN ACCORDANCE TO AS-222	115mm CONCRETE SLAB 50mm GRANULAR 'A' IN ACCORDANCE TO AS-222	150mm CONCRETE SLAB 50mm GRANULAR 'A' IN ACCORDANCE TO AS-204	150mm CONCRETE SLAB 50mm GRANULAR 'A' IN ACCORDANCE TO AS-204
GRAVEL DRIVEWAY	75mm OF HOT-MIX ASPHALT 225mm GRANULAR 'A' IN ACCORDANCE TO AS-221	300mm GRANULAR 'A'	150mm OF HL4 ASPHALT 50mm GRANULAR 'A' IN ACCORDANCE TO AS-203	300mm GRANULAR 'A' (NR)
UNIT PAVER DRIVEWAY	115mm CONCRETE SLAB 50mm GRANULAR 'A' IN ACCORDANCE TO AS-222	60mm UNIT PAVER 60mm SCREENINGS 250mm GRANULAR 'A'	150mm CONCRETE SLAB 50mm GRANULAR 'A' IN ACCORDANCE TO AS-204	60mm UNIT PAVER 60mm SCREENINGS 250mm GRANULAR 'A' (NR)
UNIVERSITY OF WINDSOR PARKING LOT (COLLEGE AVENUE)			100mm OF HL4 ASPHALT 300mm GRANULAR 'A'	
COLLEGE AVENUE			80mm OF HL4 ASPHALT 100mm OF HL4 ASPHALT 540mm GRANULAR 'A'	

- NOTES**
- THICKNESS NOTED ARE MINIMUMS. MEET OR EXCEED EXISTING THICKNESS.
 - GRANULAR MATERIAL COMPACTION: 100% MAXIMUM DRY DENSITY
 - REPLACE LOST OR DAMAGED UNIT PAVERS AT OWN EXPENSE. REPLACEMENT PAVERS TO MATCH EXISTING.
 - CURBS: OPSD 600.110
 - ENTRANCES CONSTRUCTED THROUGH EXISTING LAWNS SHALL RECEIVE A 0.60m WIDE STRIP OF RESTORED LAWN ON EACH SIDE PAID FOR UNDER APPROPRIATE CONTRACT ITEM. ADDITIONAL AREAS DISTURBED BY CONTRACTOR'S OPERATIONS RESTORED AT CONTRACTOR'S EXPENSE.

RESTORATION REQUIREMENTS
 Not To Scale



- NOTES**
- ROADWAY TERMINAL SIGN ACCORDING TO ONTARIO TRAFFIC MANUAL BOOK-6.
 - STEEL BEAM COMPONENTS ACCORDING TO OPSD 912.101
 - POSTS: 200x500mm NOMINAL, 190x190mm ± 1.5 mm DEPRESSED, TOPS TO HAVE 25mm CHAMFER.
 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

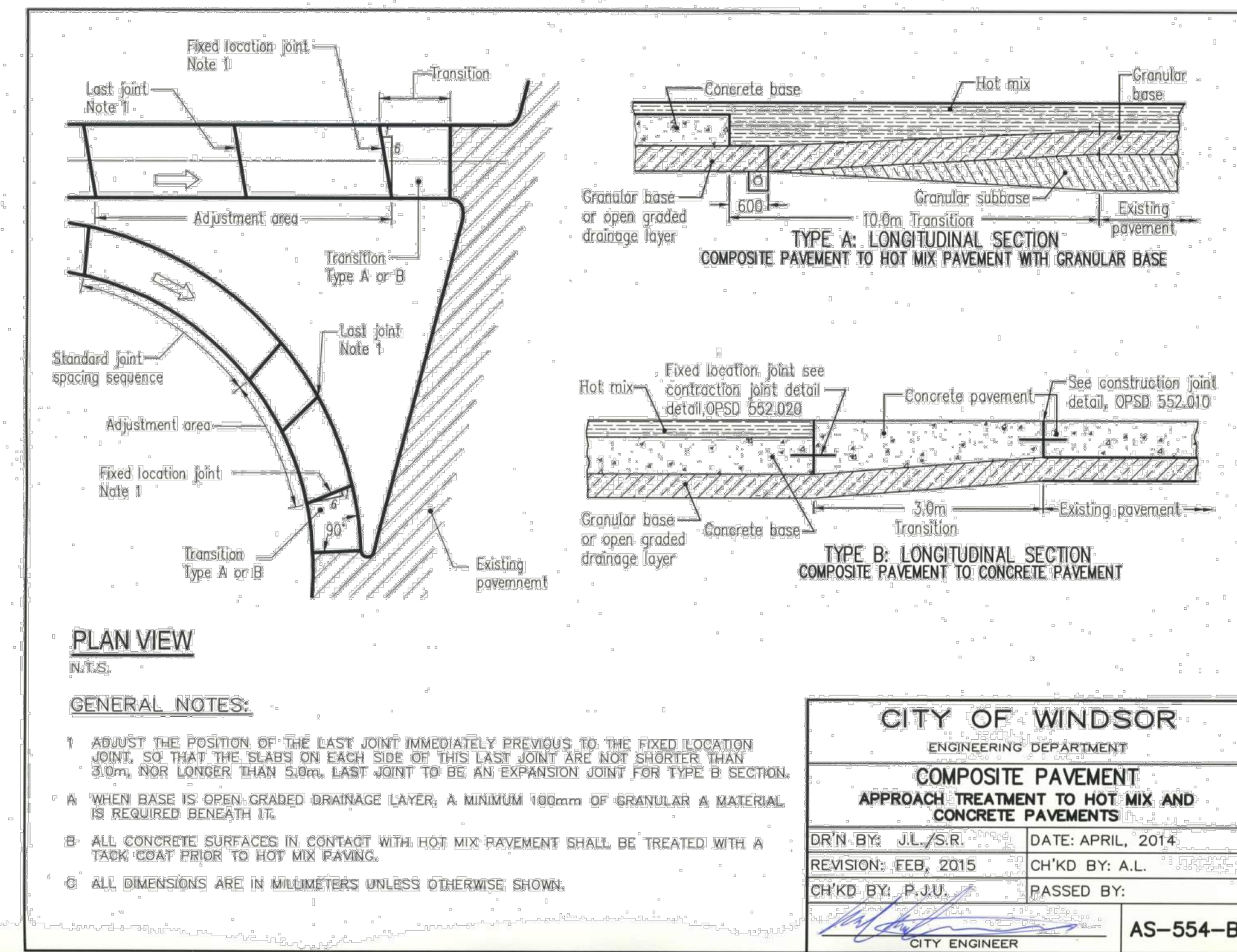


CITY OF WINDSOR
 ENGINEERING DEPARTMENT

CONCRETE PAVEMENT APPROACH TREATMENT TO HOT MIX AND COMPOSITE PAVEMENTS

DR'N BY: J.L./S.R. DATE: APRIL, 2014
 REVISION: FEB, 2015 CH'KD BY: A.L.
 CH'KD BY: P.J.U. PASSED BY: _____

CITY ENGINEER AS-554-A



CITY OF WINDSOR
 ENGINEERING DEPARTMENT

COMPOSITE PAVEMENT APPROACH TREATMENT TO HOT MIX AND CONCRETE PAVEMENTS

DR'N BY: J.L./S.R. DATE: APRIL, 2014
 REVISION: FEB, 2015 CH'KD BY: A.L.
 CH'KD BY: P.J.U. PASSED BY: _____

CITY ENGINEER AS-554-B

APPROVED AS TO FORM, IN RELIANCE UPON THE PROFESSIONAL SKILL AND ABILITY OF AECOM AS TO DESIGN AND SPECIFICATION.

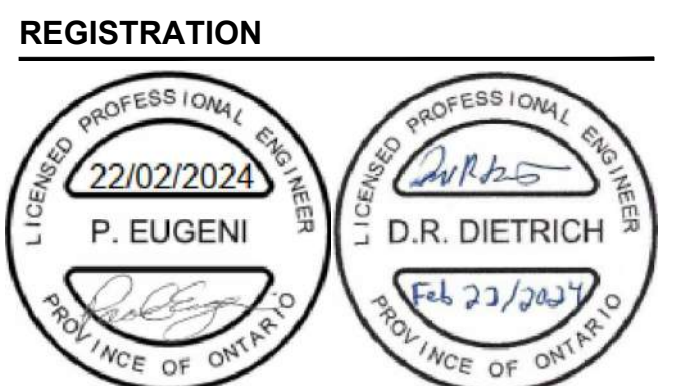
TENDER SET SIGNED BY
 MARK WINTERTON, P. ENG.
 COMMISSIONER
 INFRASTRUCTURE SERVICES



PROJECT
 Sunset Avenue Sewer Separation, Phase 3
 Sunset Avenue from Wyandotte Street West to College Avenue & Union Street from Patricia Road to Sunset Avenue

CLIENT
 The Corporation of the City of Windsor
 350 City Hall Square West
 Windsor, Ontario, N9A 6S1
 519.255.2489 tel 519.256.3311 fax
 www.cityofwindsor.ca

CONSULTANT
 AECOM Canada Ltd.
 Citi Plaza, 250 York Street, Suite 410
 London, Ontario, N6A 6K2
 519.673.0510 519.673.5975 fax
 www.aecom.com



ISSUE/REVISION

I/R	DATE	DESCRIPTION
0	2024-02-22	Issued for Construction
F	2023-11-01	Re-Issued for Tender
E	2023-05-18	Issued for Tender
D	2023-03-30	Issued for Review
C	2020-11-12	Issued for MECP Approval
B	2020-08-07	Issued for City Review

KEY PLAN

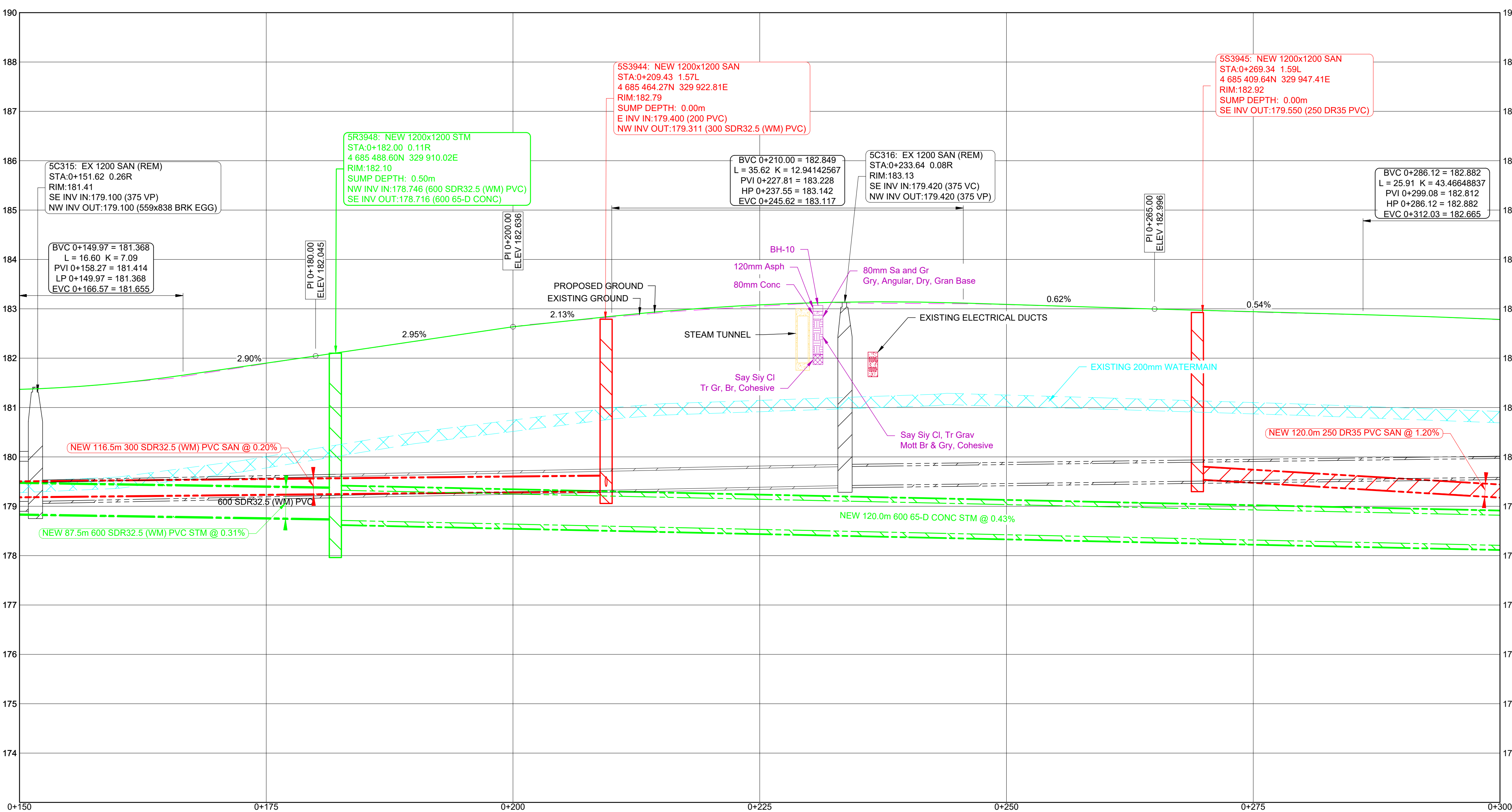
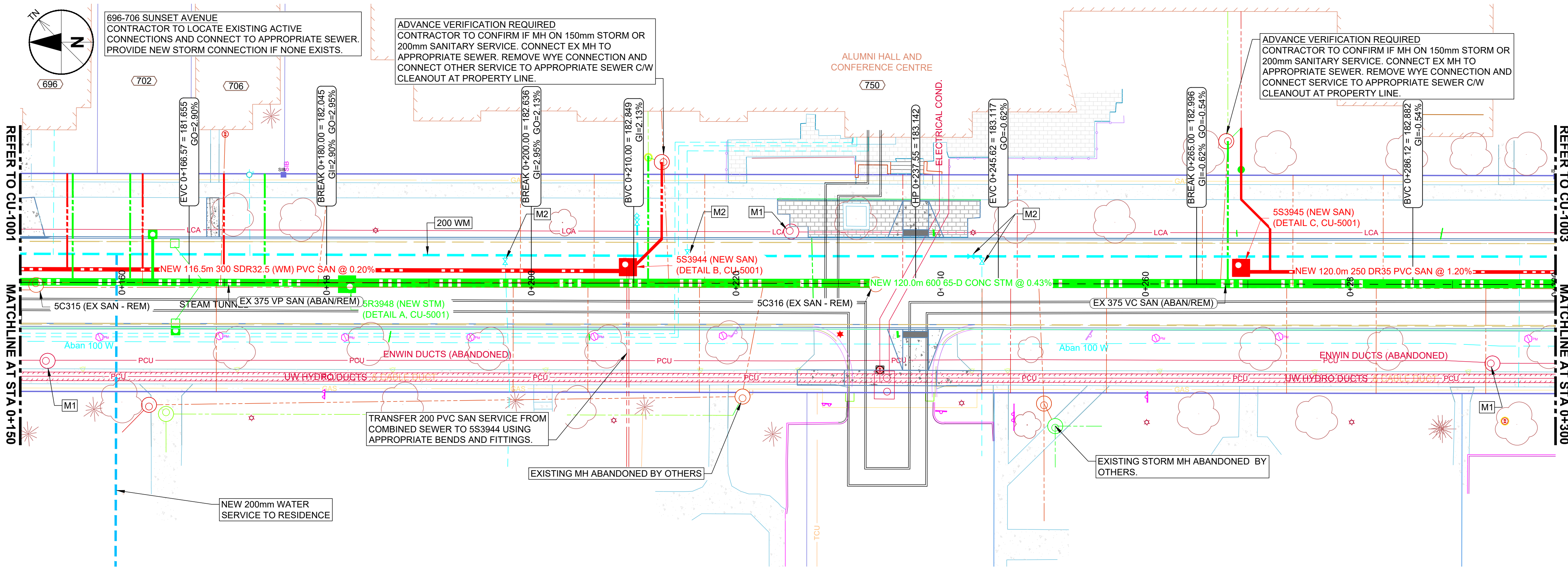
PROJECT NUMBER
 60635207

SHEET TITLE
 PAVING & GRADING DETAILS

SHEET NUMBER
 CP-5001

SUNSET AVENUE CENTRELINE ALIGNMENT & PROFILE										
POINT	STATION	EASTING	NORTHING	ALIGN START	HOR RADIUS	ELEVATION	PROF	GRADIENT	VERT RADIUS	CUT (M)
1	0+00.00	329835.4663	4685654.6223							
2	0+08.19	329838.8261	4685647.1532			182.210	START POINT	-1.18 %		0.00
3	0+10.00	329839.5686	4685645.5025			182.189		-1.18 %		-0.04
4	0+20.00	329843.6708	4685636.3827			182.070		-1.18 %		-0.029
5	0+30.00	329847.7731	4685627.2628			181.952		-1.18 %		-0.018
6	0+40.00	329851.8754	4685618.1430			181.834		-1.18 %		-0.006
7	0+50.00	329855.9776	4685609.0231			181.716	PVI	-1.23 %		0.000
8	0+60.00	329860.0799	4685599.9033			181.593		-1.23 %		-0.012
9	0+70.00	329864.1821	4685590.7835			181.471		-1.23 %		-0.015
10	0+73.00	329865.4128	4685588.0475			181.434	PVI	-0.71 %		0.000
11	0+80.00	329869.2844	4685581.6636			181.384	PVI	-0.46 %		-0.001
12	0+90.00	329872.3866	4685572.5438			181.338		-0.46 %		0.001
13	1+00.00	329876.4889	4685563.4239			181.292		-0.46 %		-0.003
14	1+10.00	329880.5912	4685554.3041			181.246		-0.46 %		-0.015
15	1+20.00	329884.6934	4685545.1843			181.200	PVI	0.56 %		0.001
16	1+30.00	329888.7957	4685536.0644			181.256		0.56 %		-0.002
17	1+40.00	329892.8979	4685526.9446			181.312		0.56 %		-0.007
18	1+49.97	329896.9871	4685517.8539			181.368	TANGENT POINT (PVC)	0.56 %	-708.8721	0.001
19	1+50.00	329897.0002	4685517.8247			181.368		0.56 %		0.001
20	1+52.00	329897.8206	4685516.0008			181.382		0.85 %	-708.8721	0.000
21	1+54.00	329898.6411	4685514.1768			181.402		1.13 %	-708.8721	0.002
22	1+56.00	329899.4615	4685512.3528			181.427		1.41 %	-708.8721	-0.003
23	1+58.00	329900.2820	4685510.5289			181.458		1.69 %	-708.8721	0.000
24	1+60.00	329901.1024	4685508.7049			181.495		1.98 %	-708.8721	0.000
25	1+62.00	329901.9229	4685506.8809			181.537		2.26 %	-708.8721	-0.006
26	1+64.00	329902.7433	4685505.0570			181.585		2.54 %	-708.8721	-0.020
27	1+66.00	329903.5638	4685503.2330			181.639		2.82 %	-708.8721	-0.030
28	1+66.57	329903.7975	4685502.7135			181.655	TANGENT POINT (PVT)	2.90 %		-0.028
29	1+70.00	329905.2047	4685499.5851			181.755		2.90 %		-0.020
30	1+80.00	329909.3070	4685490.4652			182.045	PVI	2.95 %		0.000
31	1+90.00	329913.4092	4685481.3454			182.340		2.95 %		-0.003
32	2+00.00	329917.5115	4685472.2255			182.636	PVI	2.13 %		0.000
33	2+10.00	329921.6137	4685463.1057			182.849		2.13 %		-0.017
34	2+10.00	329921.6150	4685463.1030			182.849	TANGENT POINT (PVC)	2.13 %	1294.1426	-0.017
35	2+12.00	329922.4342	4685461.2817			182.890		1.97 %	1294.1426	-0.023
36	2+14.00	329923.2546	4685459.4578			182.928		1.82 %	1294.1426	-0.025
37	2+16.00	329924.0751	4685457.6338			182.963		1.67 %	1294.1426	-0.024
38	2+18.00	329924.8955	4685455.8098			182.994		1.51 %	1294.1426	-0.027
39	2+20.00	329925.7160	4685453.9859			183.023		1.36 %	1294.1426	-0.032
40	2+22.00	329926.5364	4685452.1619			183.049		1.20 %	1294.1426	-0.033
41	2+24.00	329927.3569	4685450.3379			183.071		1.05 %	1294.1426	-0.031
42	2+26.00	329928.1773	4685448.5140			183.090		0.89 %	1294.1426	-0.026
43	2+28.00	329928.9978	4685446.6900			183.107		0.74 %	1294.1426	-0.019
44	2+30.00	329929.8182	4685444.8660			183.120		0.58 %	1294.1426	-0.009
45	2+32.00	329930.6387	4685443.0421			183.130		0.43 %	1294.1426	-0.004
46	2+34.00	329931.4591	4685441.2181			183.137		0.27 %	1294.1426	-0.019
47	2+36.00	329932.2796	4685439.3941			183.141		0.12 %	1294.1426	-0.027
48	2+37.55	329932.9153	4685437.9809			183.142	CREST POINT	0.00 %	1294.1426	-0.030
49	2+38.00	329933.1000	4685437.5702			183.142		-0.03 %	1294.1426	-0.030
50	2+40.00	329933.9205	4685435.7462			183.140		-0.19 %	1294.1426	-0.031
51	2+42.00	329934.7410	4685433.9222			183.134		-0.34 %	1294.1426	-0.028
52	2+44.00	329935.5614	4685432.0982			183.126		-0.50 %	1294.1426	-0.022
53	2+45.62	329936.2265	4685430.6197			183.117	TANGENT POINT (PVT)	-0.62 %		-0.014
54	2+50.00	329938.0228	4685426.6263			183.090		-0.62 %		-0.007
55	2+60.00	329942.1250	4685417.5065			183.027		-0.62 %		-0.001
56	2+65.00	329944.1761	4685413.9496			182.989	PVI	-0.54 %		0.000
57	2+70.00	329946.2273	4685408.3867			182.969		-0.54 %		-0.004
58	2+80.00	329950.3295	4685399.2668			182.915		-0.54 %		-0.007
59	2+86.12	329952.8404	4685393.6848			182.882	TANGENT POINT (PVC)	-0.54 %	4346.6488	-0.004
60	2+88.00	329953.6113	4685391.9709			182.871		-0.58 %	4346.6488	-0.002
61	2+90.00	329954.4318	4685390.1470			182.859		-0.63 %	4346.6488	0.000
62	2+92.00	329955.2522	4685388.3230			182.846		-0.68 %	4346.6488	0.001
63	2+94.00	329956.0727	4685386.4990			182.832		-0.72 %	4346.6488	-0.003
64	2+96.00	329956.8931	4685384.6751			182.817		-0.77 %	4346.6488	-0.005
65	2+98.00	329957.7136	4685382.8511			182.802		-0.81 %	4346.6488	-0.007
66	3+00.00	329958.5340	4685381.0271			182.785		-0.86 %	4346.6488	-0.007
67	3+02.00	329959.3545	4685379.2032			182.767		-0.91 %	4346.6488	-0.007
68	3+04.00	329960.1749	4685377.3792			182.749		-0.95 %	4346.6488	-0.004
69	3+06.00	329960.9954	4685375.5552			182.729		-1.00 %	4346.6488	0.000
70	3+08.00	329961.8158	4685373.7313			182.709		-1.04 %	4346.6488	0.000
71	3+10.00	329962.6363	4685371.9073			182.687		-1.09 %	4346.6488	-0.001
72	3+12.00	329963.4568	4685370.0833			182.665		-1.14 %	4346.6488	-0.002
73	3+12.03	329963.4697	4685370.0546			182.665	TANGENT POINT (PVT)	-1.14 %		-0.002
74	3+20.00	329966.7386	4685362.7875			182.574		-1.14 %		0.000
75	3+27.45	329969.7946	4685355.9936			182.490	PVI	-1.78 %		-0.035
76	3+30.00	329970.8408	4685353.6676			182.444		-1.78 %		-0.036
77	3+40.00	329974.9431	4685344.5478			182.267		-1.78 %		0.000
78	3+50.00	329979.0453	4685335.4279			182.089		-1.78 %		-0.003
79	3+52.00	329979.8672	4685333.6007			182.054	PVI	-2.55 %		0.000
80	3+60.00	329983.1476	4685326.3081			181.850		-2.55 %		-0.114
81	3+65.82	329985.5363	4685320.9977			181.702	PVI	-2.96 %		-0.032
82	3+70.00	329987.2498	4685317.1883			181.578		-2.96 %		-0.021
83	3+80.00	329991.3521	4685308.0684			181.282		-2.96 %		-0.014
84	3+83.33	329992.7192	4685305.0292			181.183	PVI	-2.30 %		-0.009
85	3+90.00	329995.4544	4685298.9486			181.030		-2.30 %		-0.026
86	4+00.00	329999.5566	4685289.8287			180.800		-2.30 %		-0.006
87	4+00.84	329999.9021	4685289.0607			180.781	PVI	-1.91 %		-0.001
88	4+10.00	330003.6589	4685280.7089			180.606		-1.91 %		-0.012
89	4+20.00	330007.7611	4685271.5891			180.415		-1.91 %		-0.020
90	4+30.00	330011.8634	4685262.4692			180.225		-1.91 %		-0.010
91	4+37.36	330014.8838	4685255.7545			180.084	PVI	-0.79 %		-0.003
92	4+40.00	330015.9656	4685253.3494			180.064		-0.79 %		-0.030
93	4+43.74	330017.4988	4685249.9411			180.034		-0.79 %		-0.060
94	4+50.00	330020.4263	4685244.4047			179.985		-0.79 %		-0.104
95	4+58.76	330024.5200	4685236.6630			179.916		-0.79 %		-0.125
96	4+58.76	330024.5200	4685236.6630			179.916	PVI	-1.18 %		-0.125
97	4+60.00	330025.1008	4685235.5645			179.901		-1.18 %		-0.126
98	4+68.01	330028.8439	4685228.4858			179.807	END POINT	-1.18 %		-0.160
99	4+70.00	330029.7754	4685226.7243							
100	4+71.54	330030.4862	4685225.3611							
101	4+80.00	330034.7668	4685218.0805							
102	4+90.00	330039.8160	4685209.4288							
103	5+00.00	330044.8652	4685200.7972							
104	5+10.00	330049.9144	4685192.1655							
105	5+20.00	330054.9636	4685183.5339							
106	5+30.00	330060.0128	4685174.9022							
107	5+40.00	330065.0620	4685166.2705							
108	5+50.00	330070.1112	4685157.6389							
109	5+57.49	330073.8950	4685151.1704							

UNION STREET (EAST) CENTRELINE ALIGNMENT & PROFILE										
POINT	STATION	EASTING	NORTHING	ALIGN START	HOR RADIUS	ELEVATION	PROF	GRADIENT	VERT RADIUS	CUT (M)
1	0+00.00	329975.8053	4685316.6539							
2	0+10.00	329984.9368								



GENERAL SHEET NOTES

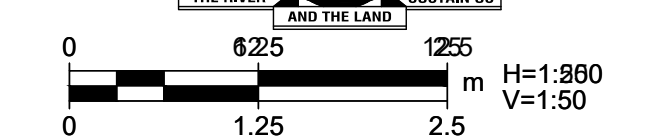
- GENERAL
 - ENSURE NO DEBRIS ENTERS EXISTING SEWERS AND NO WATER ENTERS EXISTING SANITARY SEWERS DURING THE WORK.
 - NOTIFY LOCAL AUTHORITIES MINIMUM 24 HOURS PRIOR TO CONNECTING TO EXISTING POTABLE WATER OR SEWER SYSTEMS.
 - NOTIFY LOCAL AUTHORITIES MINIMUM 24 HOURS PRIOR TO ANY FLUSHING OR CLEANING OPERATIONS.
- WATERMAIN AND SEWER SEPARATION
 - FOLLOW MINISTRY OF THE ENVIRONMENT PROCEDURE F-6-1 "PROCEDURES TO GOVERN SEPARATION OF SEWERS AND WATERMAINS" AS AMENDED IN THESE NOTES.
 - MINIMUM VERTICAL SEPARATION SHALL BE 0.60m WHERE HORIZONTAL SEPARATION IS LESS THAN 2.50m AND AT CROSSINGS.
 - SEPARATION REQUIREMENTS APPLY TO SERVICE CONNECTIONS WHENEVER POSSIBLE.
- SANITARY SEWERS
 - SERVICE CONNECTION PIPE: 150mm PVC DR28 UNLESS NOTED OTHERWISE.
 - SERVICE CONNECTION SLOPE: MINIMUM 2.0%. AVERAGE SLOPE MAY BE INCREASED USING ONE BEND/ELBOW (MAXIMUM 45°) TO CHANGE SLOPE.
- STORM SEWERS
 - SERVICE CONNECTION PIPE: 150mm PVC DR28 UNLESS NOTED OTHERWISE.
 - CATCH BASIN LEAD PIPE: 200mm PVC DR35 FOR SINGLE INLET OTHERWISE 250mm PVC DR35.
 - SERVICE CONNECTION AND CATCH BASIN LEAD SLOPE: MINIMUM 1.0%. AVERAGE SLOPE MAY BE INCREASED USING ONE BEND/ELBOW (MAXIMUM 45°) TO CHANGE SLOPE.
 - 450mm BLVD CB: 450mm ROUND CB WITH CAST IRON GRATE INSTALLED 1.0m FROM AND 0.10m BELOW EDGE OF SIDEWALK.
- WATERMAINS
 - CONTRACTOR RESPONSIBLE FOR SUPPLY AND MAINTENANCE OF POTABLE WATER TO ALL USERS AFFECTED BY WORK.
 - REPAIR DAMAGE TO POTABLE WATER SYSTEM EXPEDITIOUSLY TO SATISFACTION OF LOCAL OPERATING AUTHORITY.
 - SERVICE CONNECTIONS: 19mm TYPE 'K' UNLESS NOTED OTHERWISE.

SHEET KEYNOTES

- M1: ADJUST/REBUILD MAINTENANCE HOLE, CATCH BASIN, DITCH INLET OR VALVE CHAMBER PER OPSS 408 TO NEW GRADE.
 M2: ADJUST VALVE BOX OR CURB STOP TO NEW GRADE.
 M3: ADJUST FIRE HYDRANT TO NEW GRADE.
 S1: INSTALL SALVAGED MATERIAL REMOVED DURING DEMOLITION WORK.

APPROVED AS TO FORM, IN RELIANCE UPON THE PROFESSIONAL SKILL AND ABILITY OF AECOM AS TO DESIGN AND SPECIFICATION.

TENDER SET SIGNED BY
 MARK WINTERTON, P. ENG.
 COMMISSIONER
 INFRASTRUCTURE SERVICES

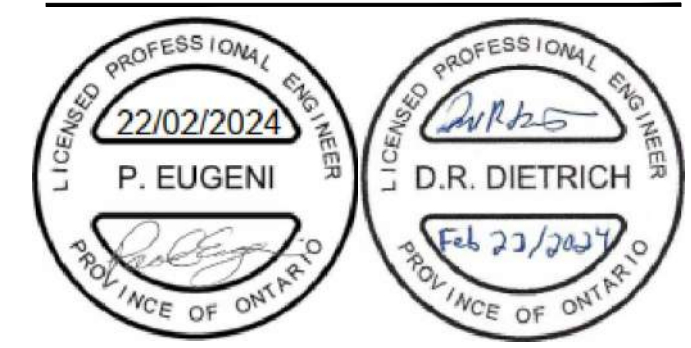


PROJECT
 Sunset Avenue Sewer Separation, Phase 3
 Sunset Avenue from Wyandotte Street West to College Avenue & Union Street from Patricia Road to Sunset Avenue

CLIENT
 The Corporation of the
City of Windsor
 350 City Hall Square West
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CONSULTANT
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REGISTRATION



ISSUE/REVISION

I/R	DATE	DESCRIPTION
0	2024-02-22	Issued for Construction
F	2023-11-01	Re-Issued for Tender
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C	2020-11-12	Issued for MECP Approval
B	2020-08-07	Issued for City Review

KEY PLAN

PROJECT NUMBER

60635207

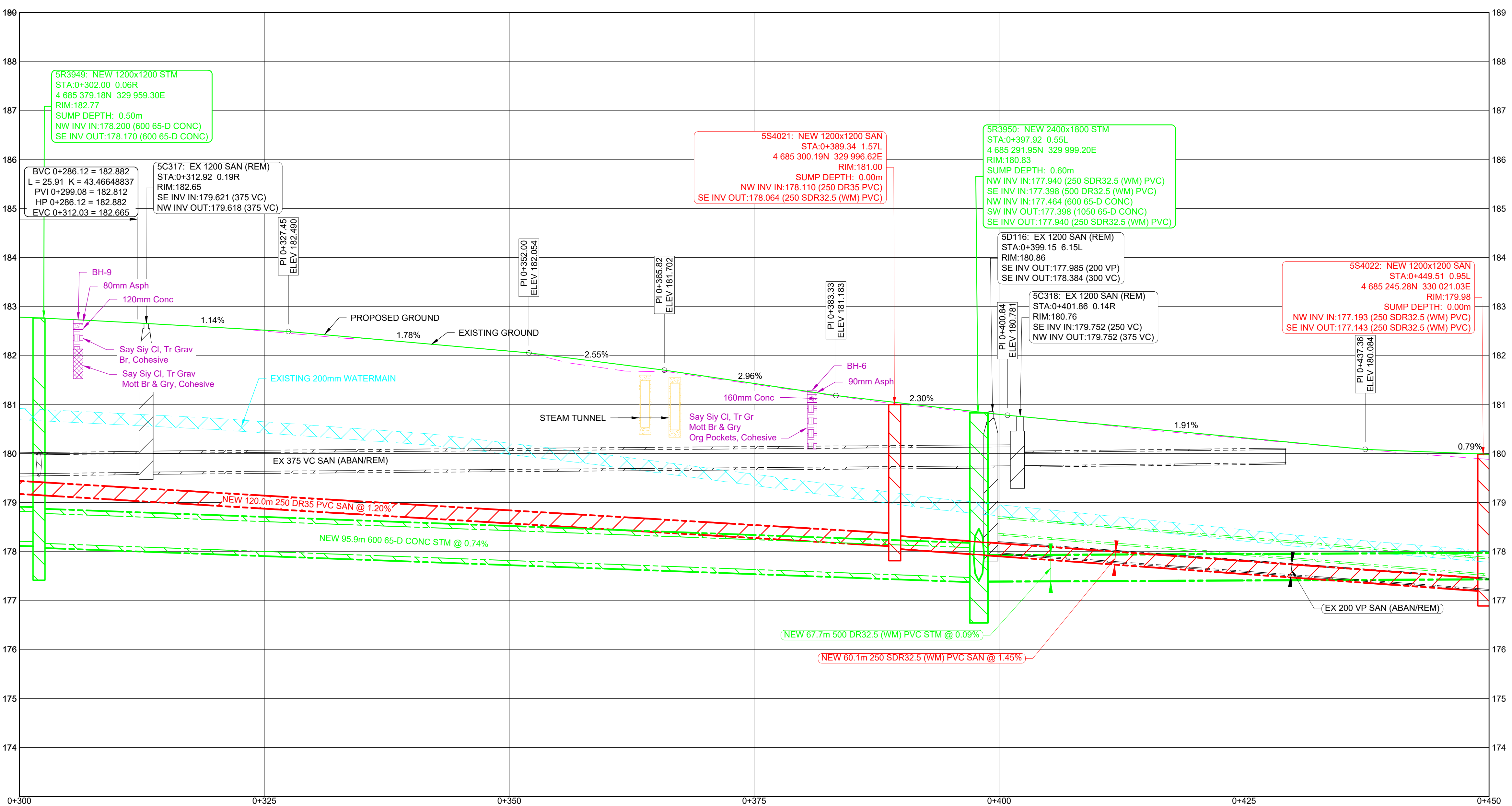
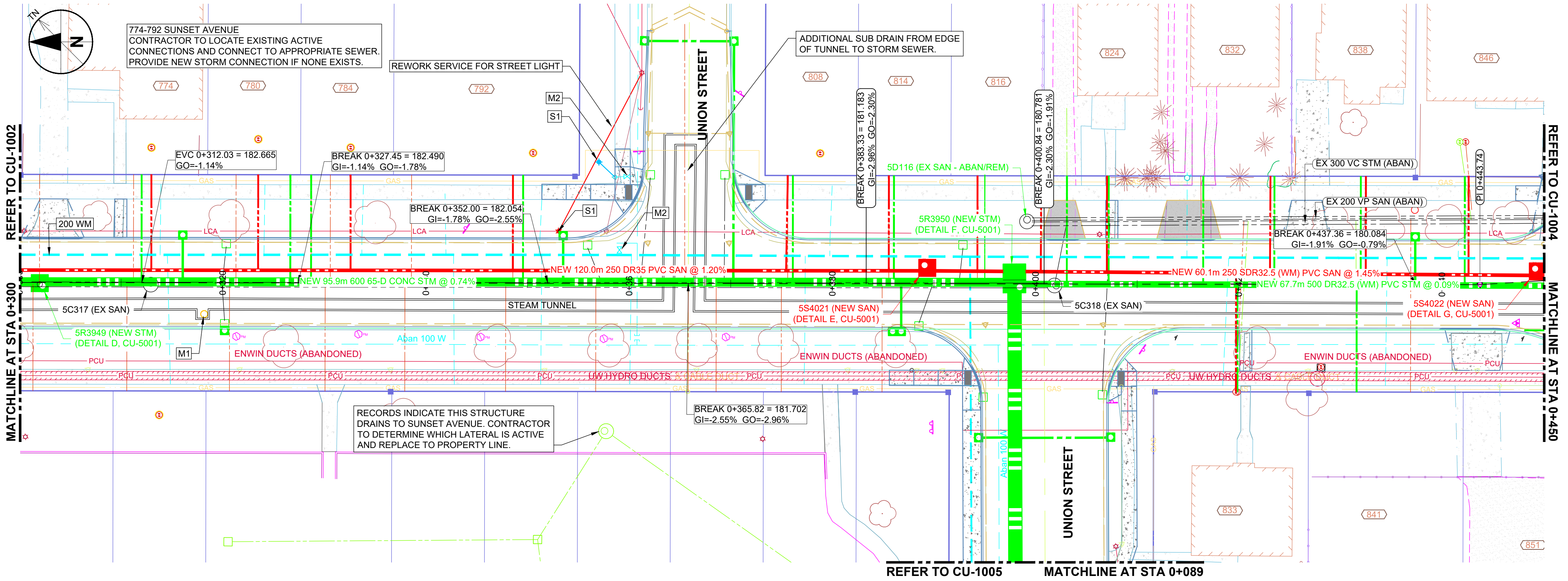
SHEET TITLE

UTILITIES
 SUNSET AVE
 0+150 TO 0+300

SHEET NUMBER

CU-1002

ARCH D 24" x 36"
 Approved: _____
 Checked: _____
 Designer: _____
 Project Management Initials: _____



GENERAL SHEET NOTES

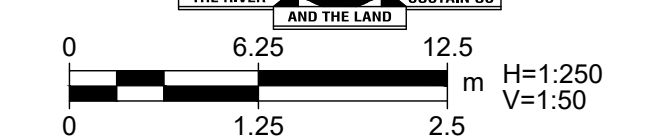
- GENERAL
 - ENSURE NO DEBRIS ENTERS EXISTING SEWERS AND NO WATER ENTERS EXISTING SANITARY SEWERS DURING THE WORK.
 - NOTIFY LOCAL AUTHORITIES MINIMUM 24 HOURS PRIOR TO CONNECTING TO EXISTING POTABLE WATER OR SEWER SYSTEMS.
 - NOTIFY LOCAL AUTHORITIES MINIMUM 24 HOURS PRIOR TO ANY FLUSHING OR CLEANING OPERATIONS.
- WATERMAIN AND SEWER SEPARATION
 - FOLLOW MINISTRY OF THE ENVIRONMENT PROCEDURE F-6 "PROCEDURES TO GOVERN SEPARATION OF SEWERS AND WATERMAINS" AS AMENDED IN THESE NOTES.
 - MINIMUM VERTICAL SEPARATION SHALL BE 0.60m WHERE HORIZONTAL SEPARATION IS LESS THAN 2.50m AND AT CROSSINGS.
 - SEPARATION REQUIREMENTS APPLY TO SERVICE CONNECTIONS WHENEVER POSSIBLE.
- SANITARY SEWERS
 - SERVICE CONNECTION PIPE: 150mm PVC DR28 UNLESS NOTED OTHERWISE.
 - SERVICE CONNECTION SLOPE: MINIMUM 2.0%. AVERAGE SLOPE MAY BE INCREASED USING ONE BEND/ELBOW (MAXIMUM 45°) TO CHANGE SLOPE.
- STORM SEWERS
 - SERVICE CONNECTION PIPE: 150mm PVC DR28 UNLESS NOTED OTHERWISE.
 - CATCH BASIN LEAD PIPE: 200mm PVC DR35 FOR SINGLE INLET OTHERWISE 250mm PVC DR35.
 - SERVICE CONNECTION AND CATCH BASIN LEAD SLOPE: MINIMUM 1.0%. AVERAGE SLOPE MAY BE INCREASED USING ONE BEND/ELBOW (MAXIMUM 45°) TO CHANGE SLOPE.
- WATERMAINS
 - CONTRACTOR RESPONSIBLE FOR SUPPLY AND MAINTENANCE OF POTABLE WATER TO ALL USERS AFFECTED BY WORK.
 - REPAIR DAMAGE TO POTABLE WATER SYSTEM EXPEDITIOUSLY TO SATISFACTION OF LOCAL OPERATING AUTHORITY.
 - SERVICE CONNECTIONS: 19mm TYPE 'K' UNLESS NOTED OTHERWISE.
- RESIDENCES SOUTH OF UNION AVENUE
 - LOCATION OF SERVICES FOR RESIDENCES ALONG SUNSET AVENUE SOUTH OF UNION AVENUE ARE UNKNOWN.
 - DETERMINE SERVICE LOCATIONS AND ELEVATIONS AT EXISTING SEWERS PRIOR TO CONSTRUCTING REPLACEMENT SEWERS.
 - #841-#859 ARE THREE FORMER LOTS THAT ARE NOW PART OF THE UNIVERSITY OF WINDSOR MAINTENANCE YARD. ONLY ONE STORM (CURRENTLY LIVE) AND ONE SANITARY CONNECTION TO BE REINSTATED. CONTRACTOR TO COORDINATE WITH UoW TO DETERMINE LIVE STORM CONNECTION.

SHEET KEYNOTES

- M1: ADJUST/REBUILD MAINTENANCE HOLE, CATCH BASIN, DITCH INLET OR VALVE CHAMBER PER OPSS 408 TO NEW GRADE.
 M2: ADJUST VALVE BOX OR CURB STOP TO NEW GRADE.
 M3: ADJUST FIRE HYDRANT TO NEW GRADE.
 S1: INSTALL SALVAGED MATERIAL REMOVED DURING DEMOLITION WORK.

APPROVED AS TO FORM, IN RELIANCE UPON THE PROFESSIONAL SKILL AND ABILITY OF AECOM AS TO DESIGN AND SPECIFICATION.

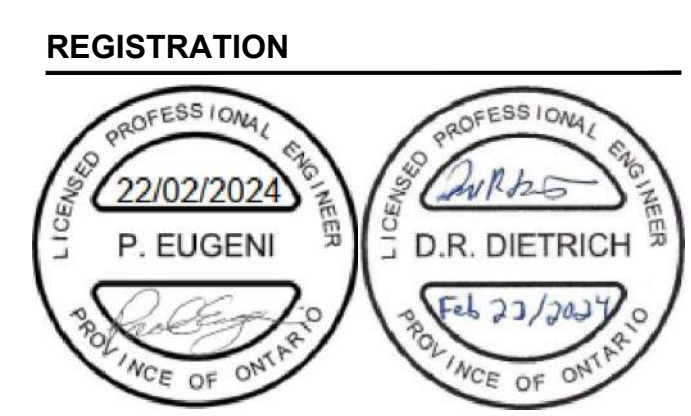
TENDER SET SIGNED BY
 MARK WINTERTON, P. ENG.
 COMMISSIONER
 INFRASTRUCTURE SERVICES



PROJECT
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 Sunset Avenue from Wyandotte Street to College Avenue & Union Street from Patricia Road to Sunset Avenue

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B	2020-08-07	Issued for City Review

KEY PLAN

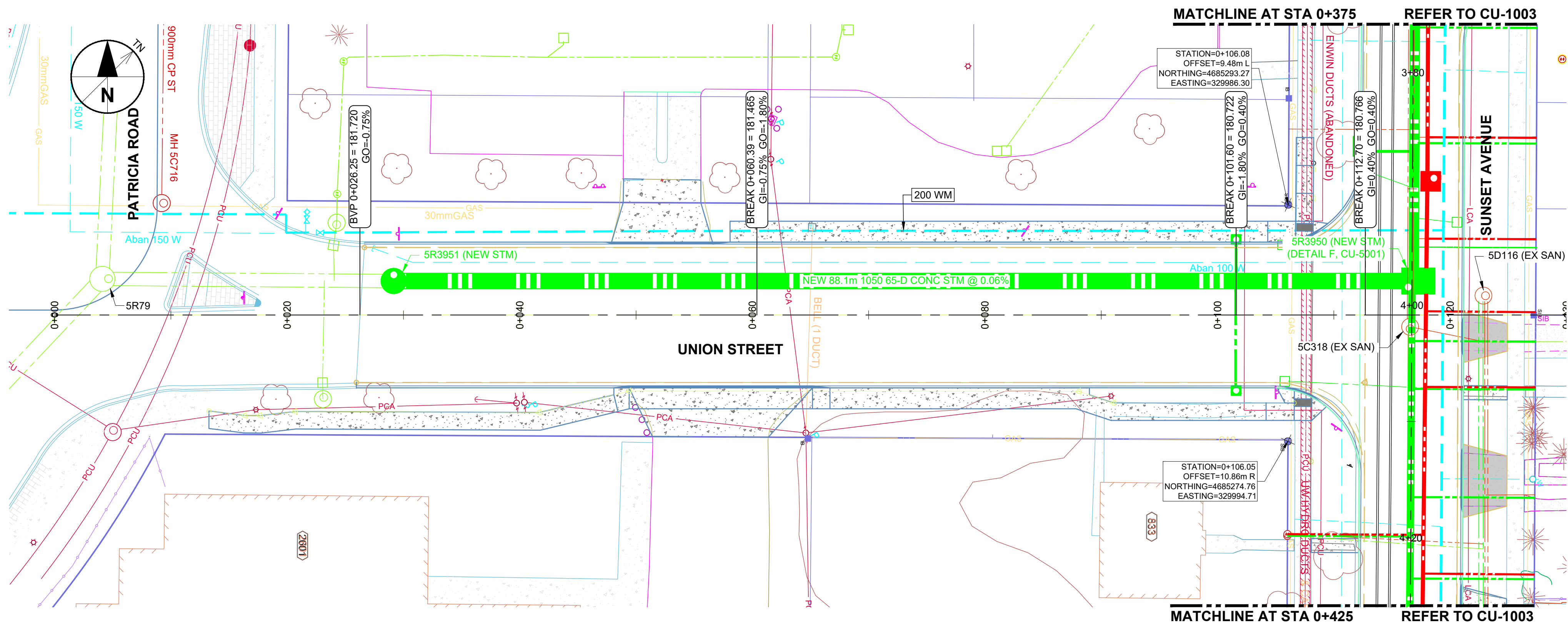
PROJECT NUMBER
 60635207

SHEET TITLE
 UTILITIES
 SUNSET AVE
 0+300 TO 0+450

SHEET NUMBER
 CU-1003

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GENERAL SHEET NOTES

1. GENERAL
 - 1.1. ENSURE NO DEBRIS ENTERS EXISTING SEWERS AND NO WATER ENTERS EXISTING SANITARY SEWERS DURING THE WORK.
 - 1.2. NOTIFY LOCAL AUTHORITIES MINIMUM 24 HOURS PRIOR TO CONNECTING TO EXISTING POTABLE WATER OR SEWER SYSTEMS.
 - 1.3. NOTIFY LOCAL AUTHORITIES MINIMUM 24 HOURS PRIOR TO ANY FLUSHING OR CLEANING OPERATIONS.
2. WATERMAIN AND SEWER SEPARATION
 - 2.1. FOLLOW MINISTRY OF THE ENVIRONMENT PROCEDURE F-6-1 "PROCEDURES TO GOVERN SEPARATION OF SEWERS AND WATERMANS" AS AMENDED IN THESE NOTES.
 - 2.2. MINIMUM VERTICAL SEPARATION SHALL BE 0.60m WHERE HORIZONTAL SEPARATION IS LESS THAN 2.50m AND AT CROSSINGS.
 - 2.3. SEPARATION REQUIREMENTS APPLY TO SERVICE CONNECTIONS WHENEVER POSSIBLE.
3. SANITARY SEWERS
 - 3.1. SERVICE CONNECTION PIPE: 150mm PVC DR28 UNLESS NOTED OTHERWISE.
 - 3.2. SERVICE CONNECTION SLOPE: MINIMUM 2.0%. AVERAGE SLOPE MAY BE INCREASED USING ONE BEND/ELBOW (MAXIMUM 45°) TO CHANGE SLOPE.
4. STORM SEWERS
 - 4.1. SERVICE CONNECTION PIPE: 150mm PVC DR28 UNLESS NOTED OTHERWISE.
 - 4.2. CATCH BASIN LEAD PIPE: 200mm PVC DR35 FOR SINGLE INLET OTHERWISE 250mm PVC DR35.
 - 4.3. SERVICE CONNECTION AND CATCH BASIN LEAD SLOPE: MINIMUM 1.0%. AVERAGE SLOPE MAY BE INCREASED USING ONE BEND/ELBOW (MAXIMUM 45°) TO CHANGE SLOPE.
5. WATERMANS
 - 5.1. CONTRACTOR RESPONSIBLE FOR SUPPLY AND MAINTENANCE OF POTABLE WATER TO ALL USERS AFFECTED BY WORK.
 - 5.2. REPAIR DAMAGE TO POTABLE WATER SYSTEM EXPEDITIOUSLY TO SATISFACTION OF LOCAL OPERATING AUTHORITY.
 - 5.3. SERVICE CONNECTIONS: 19mm TYPE 'K' UNLESS NOTED OTHERWISE.

SHEET KEYNOTES

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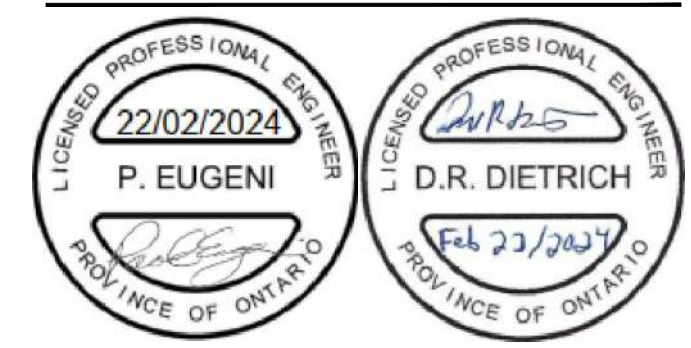


PROJECT
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 Sunset Avenue from Wyandotte Street to College Avenue & Union Street from Patricia Road to Sunset Avenue

CLIENT
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B	2020-08-07	Issued for City Review

KEY PLAN

PROJECT NUMBER

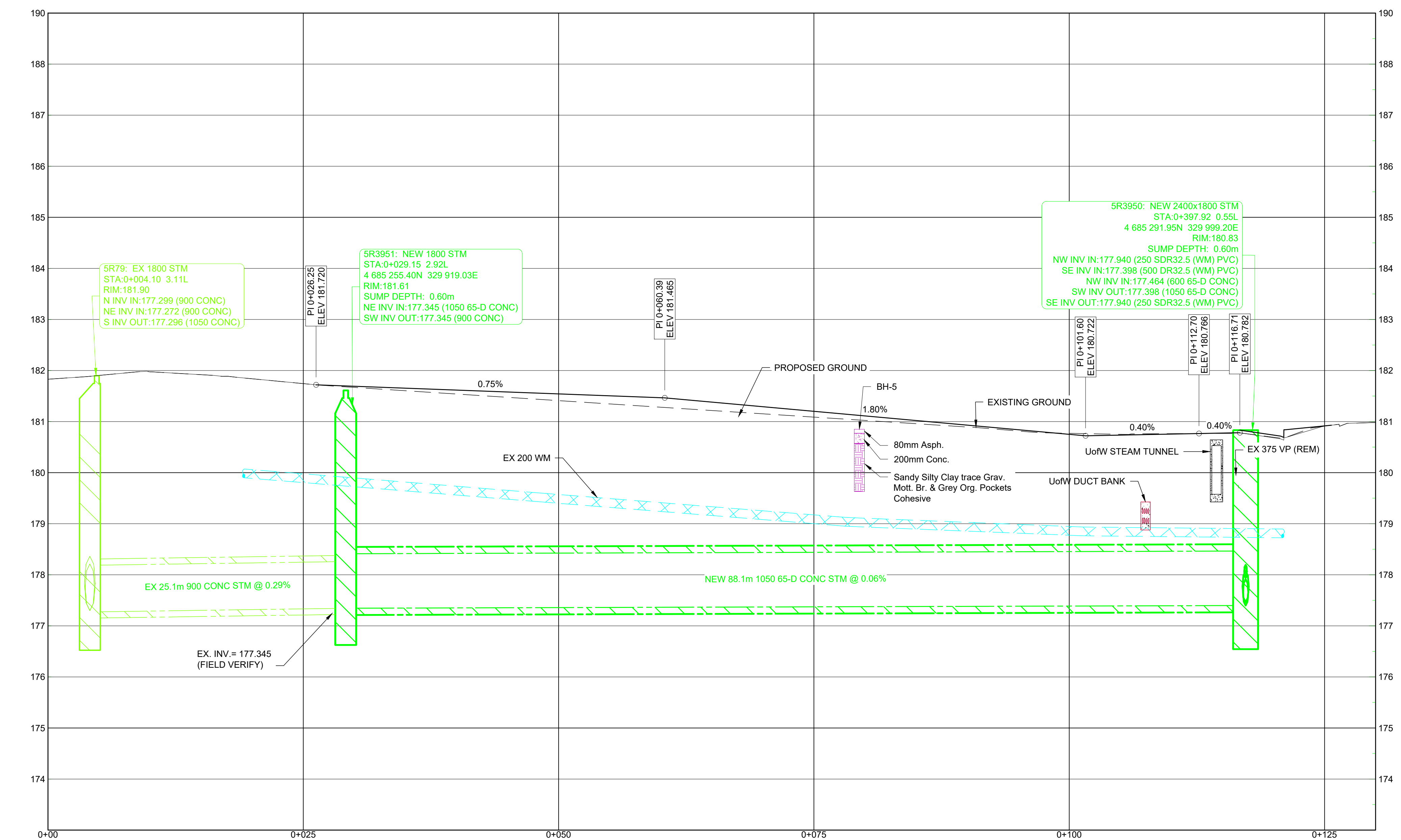
60635207

SHEET TITLE

UTILITIES
 UNION ST

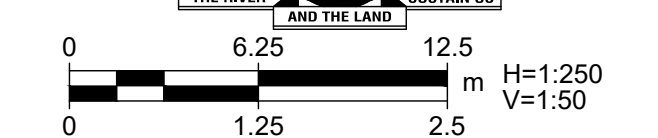
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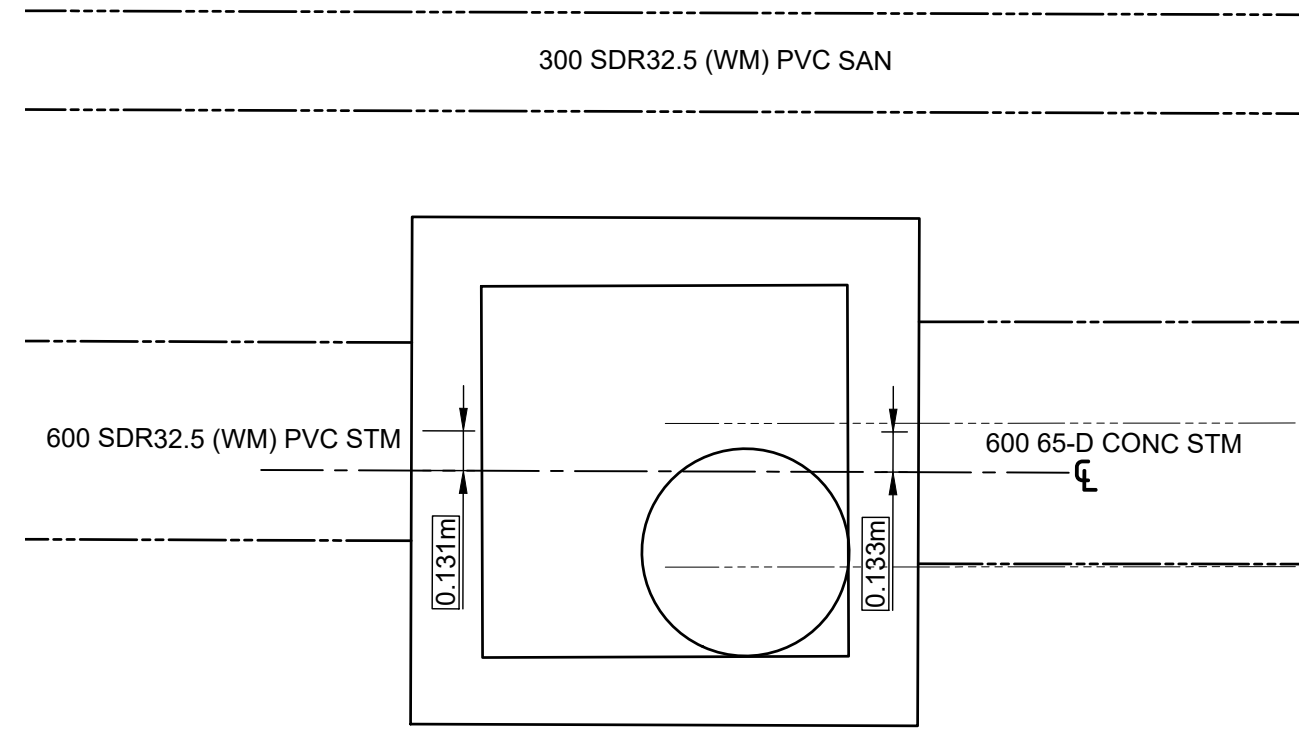
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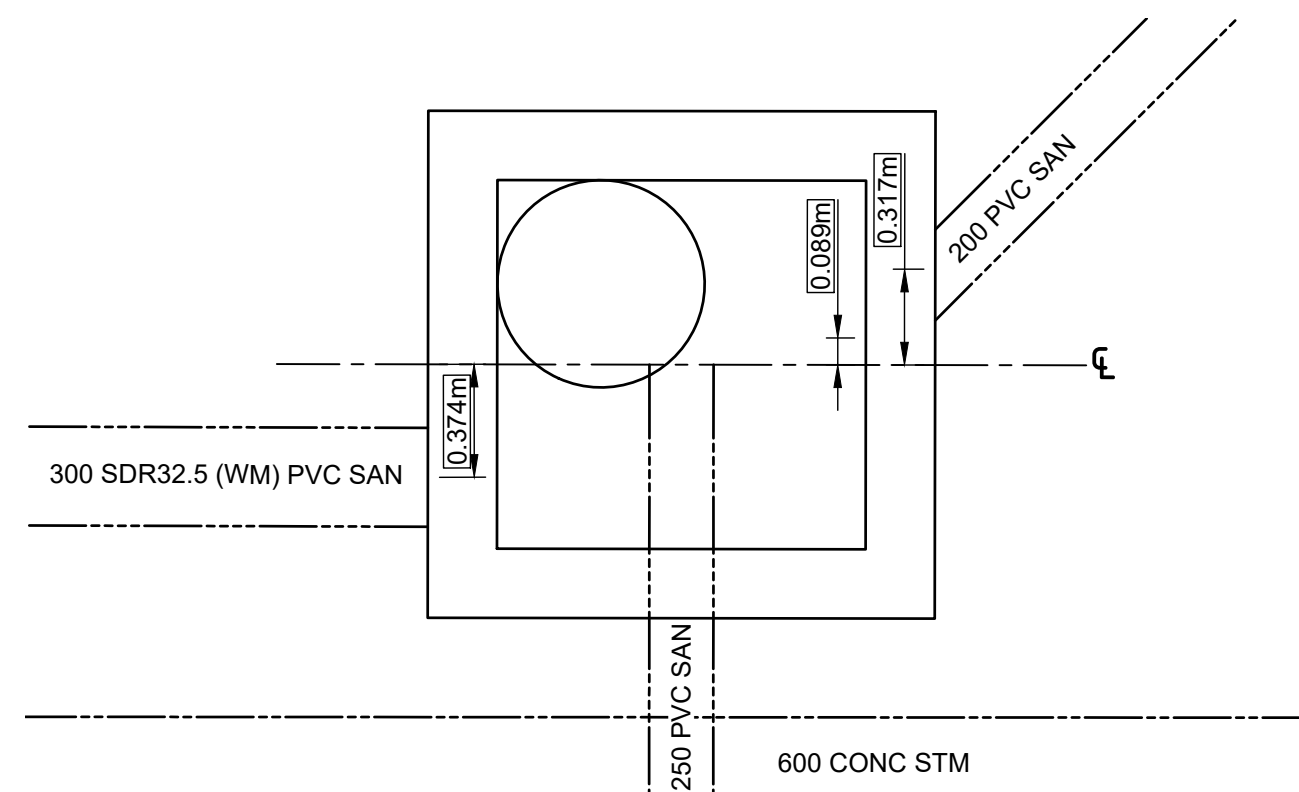
APPROVED AS TO FORM, IN RELIANCE UPON THE PROFESSIONAL SKILL AND ABILITY OF AECOM AS TO DESIGN AND SPECIFICATION.

TENDER SET SIGNED BY
 MARK WINTERTON, P. ENG.
 COMMISSIONER
 INFRASTRUCTURE SERVICES

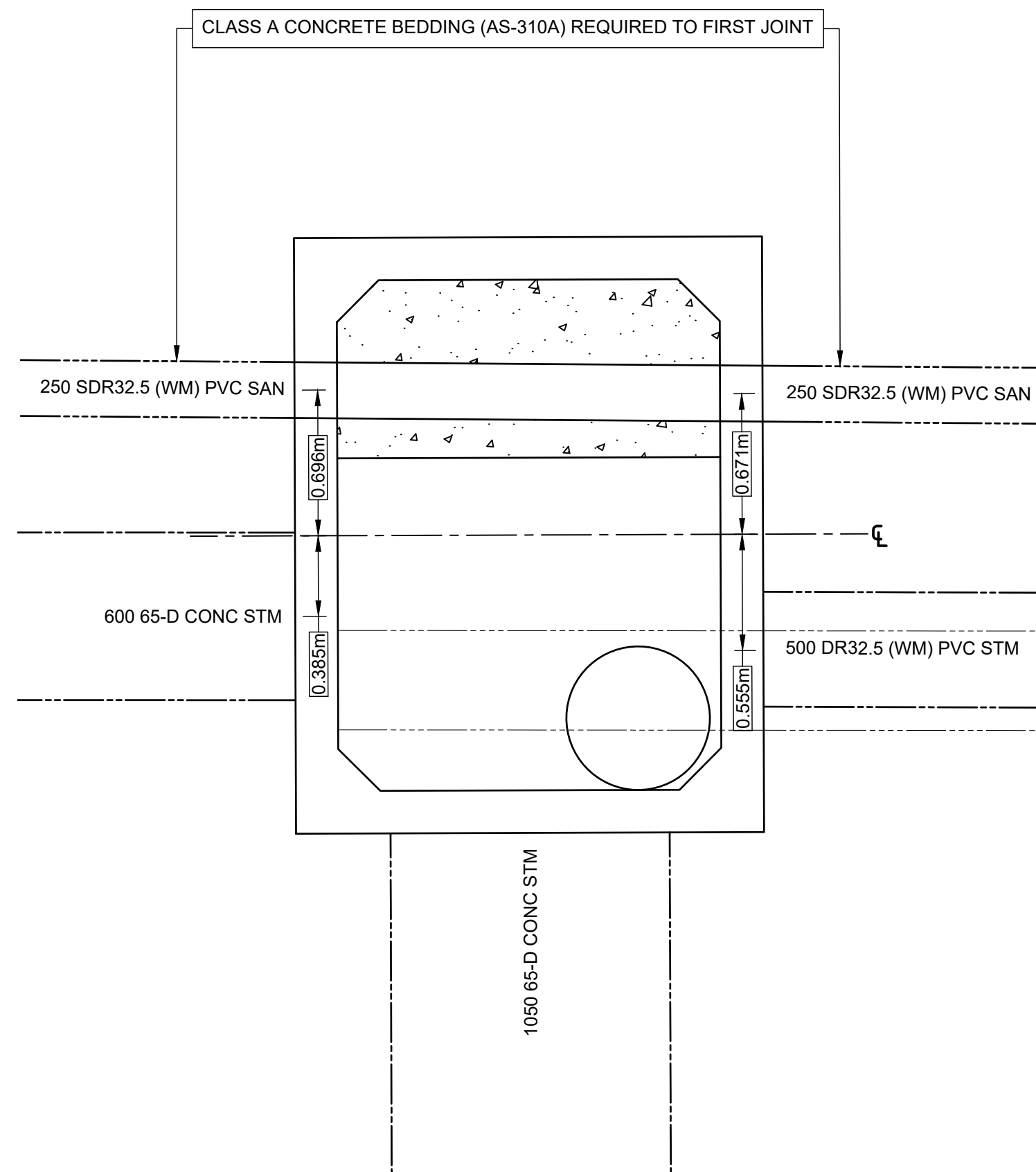




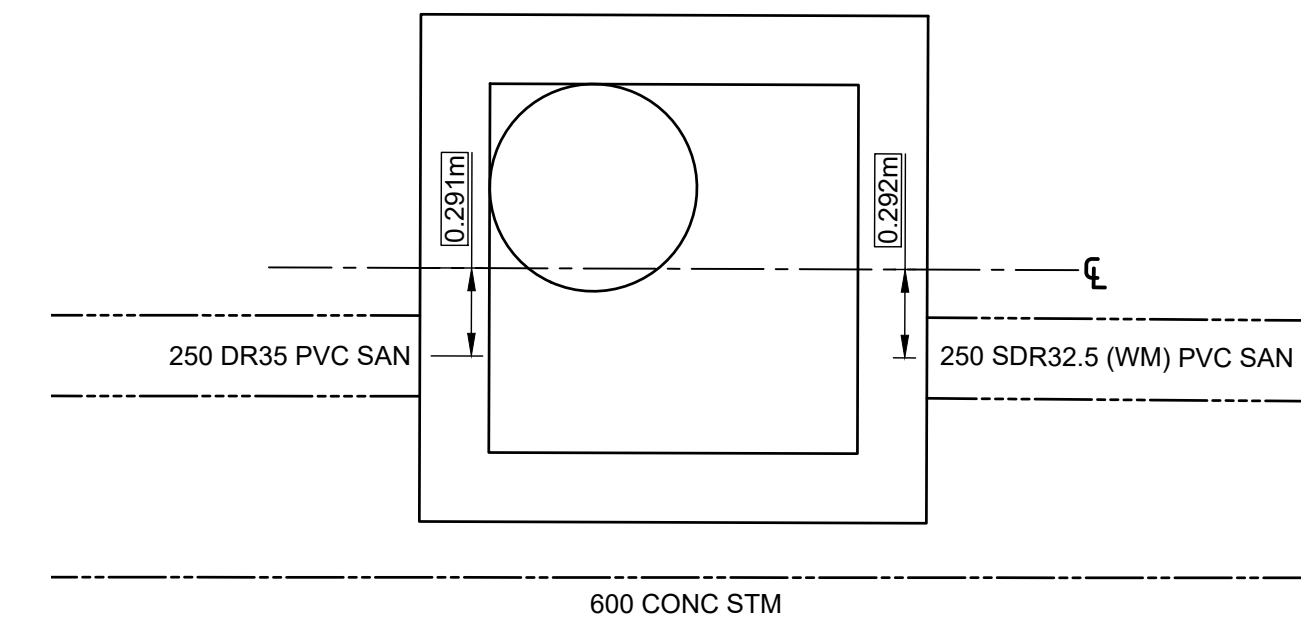
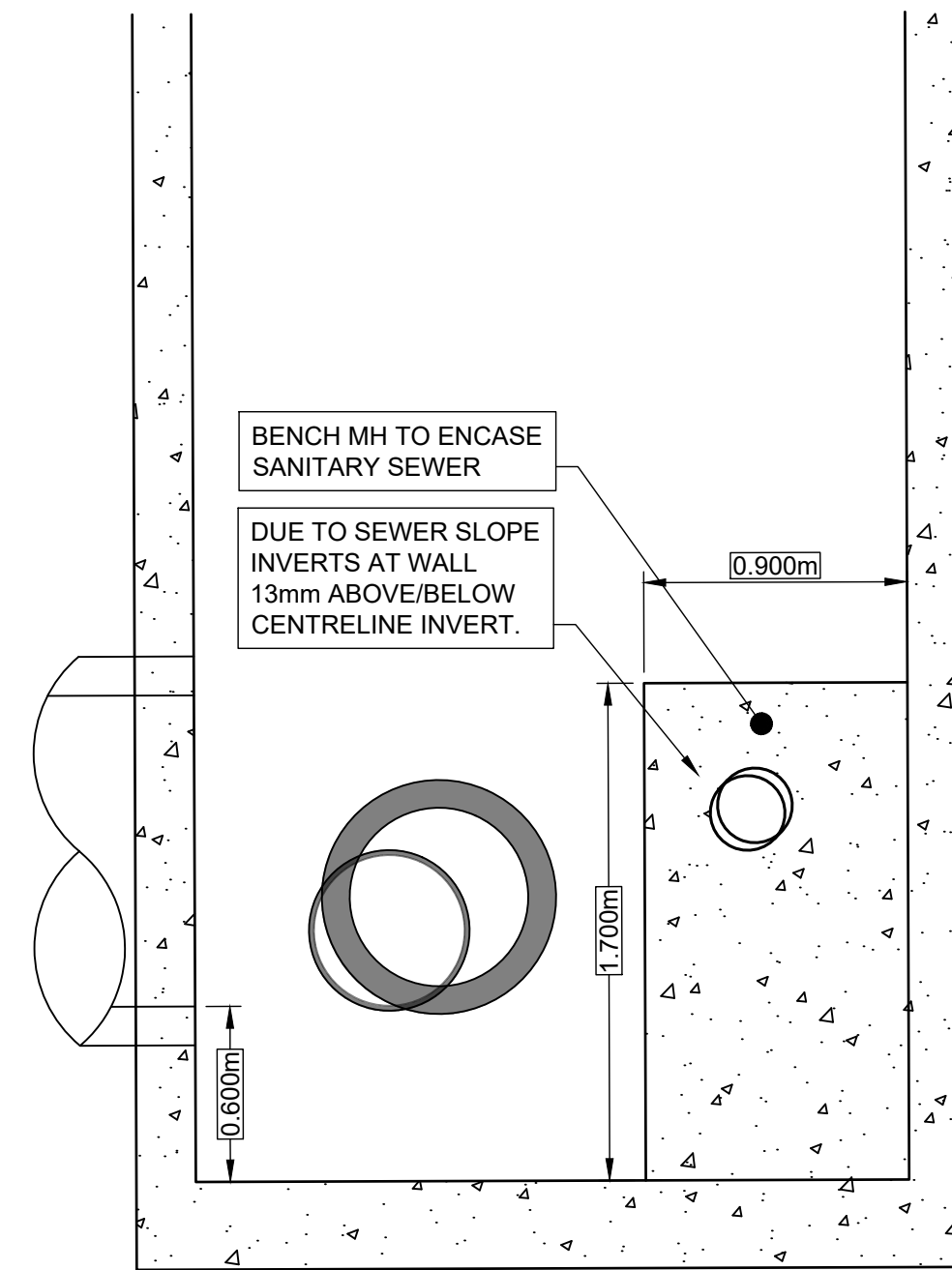
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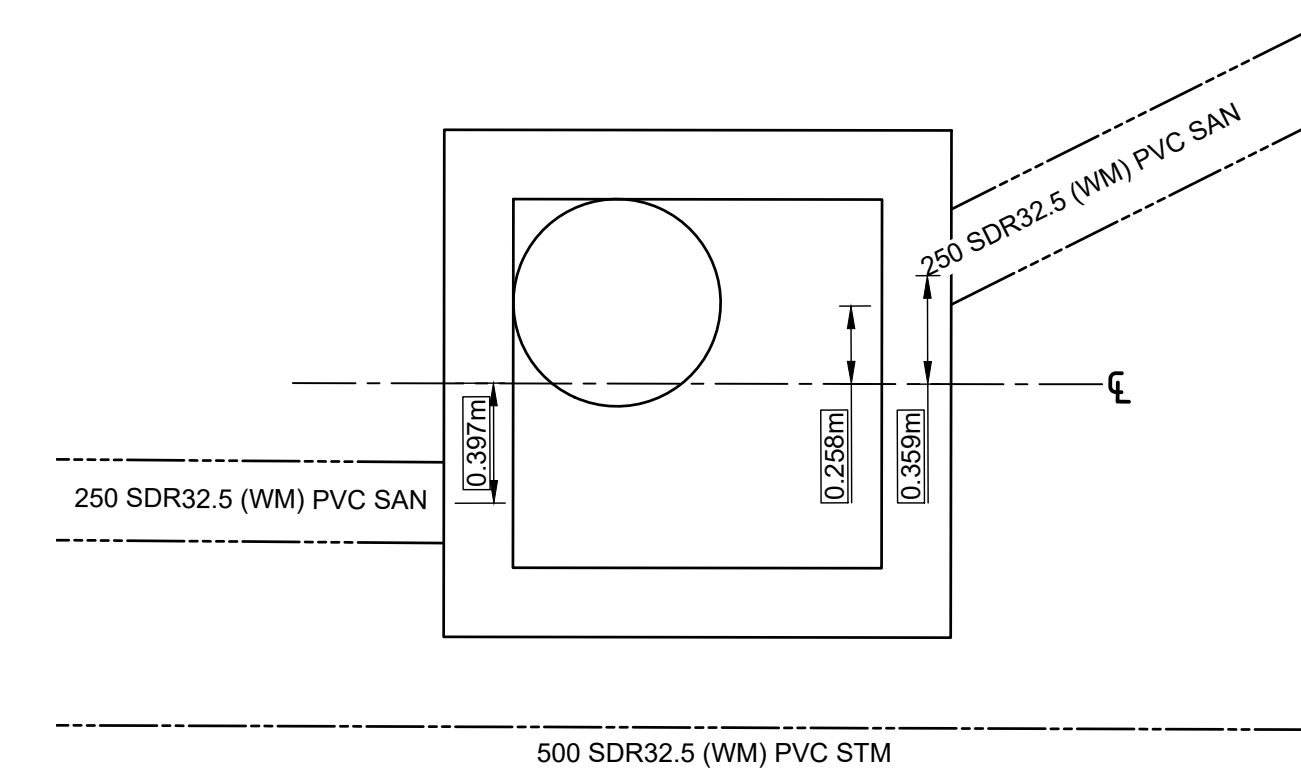
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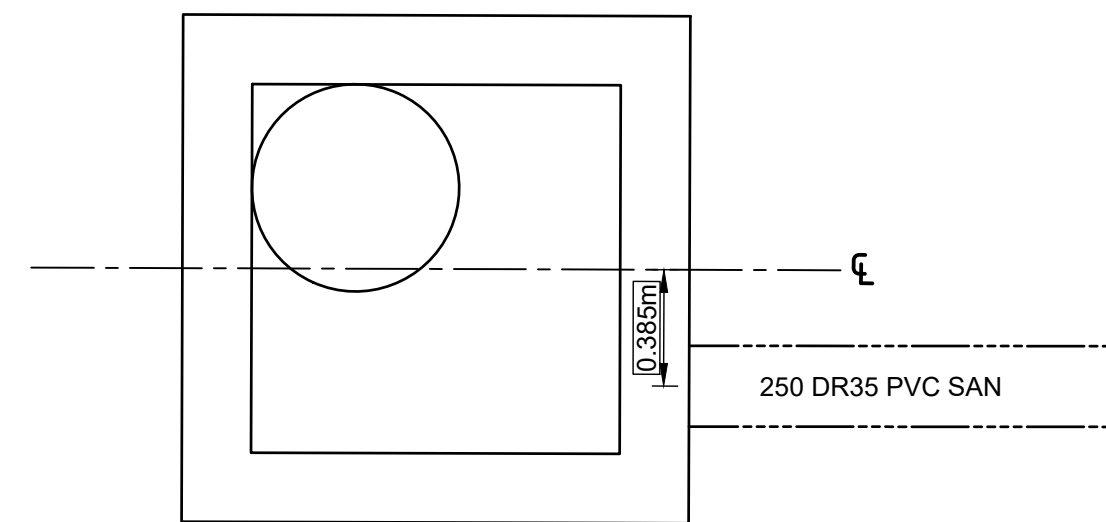
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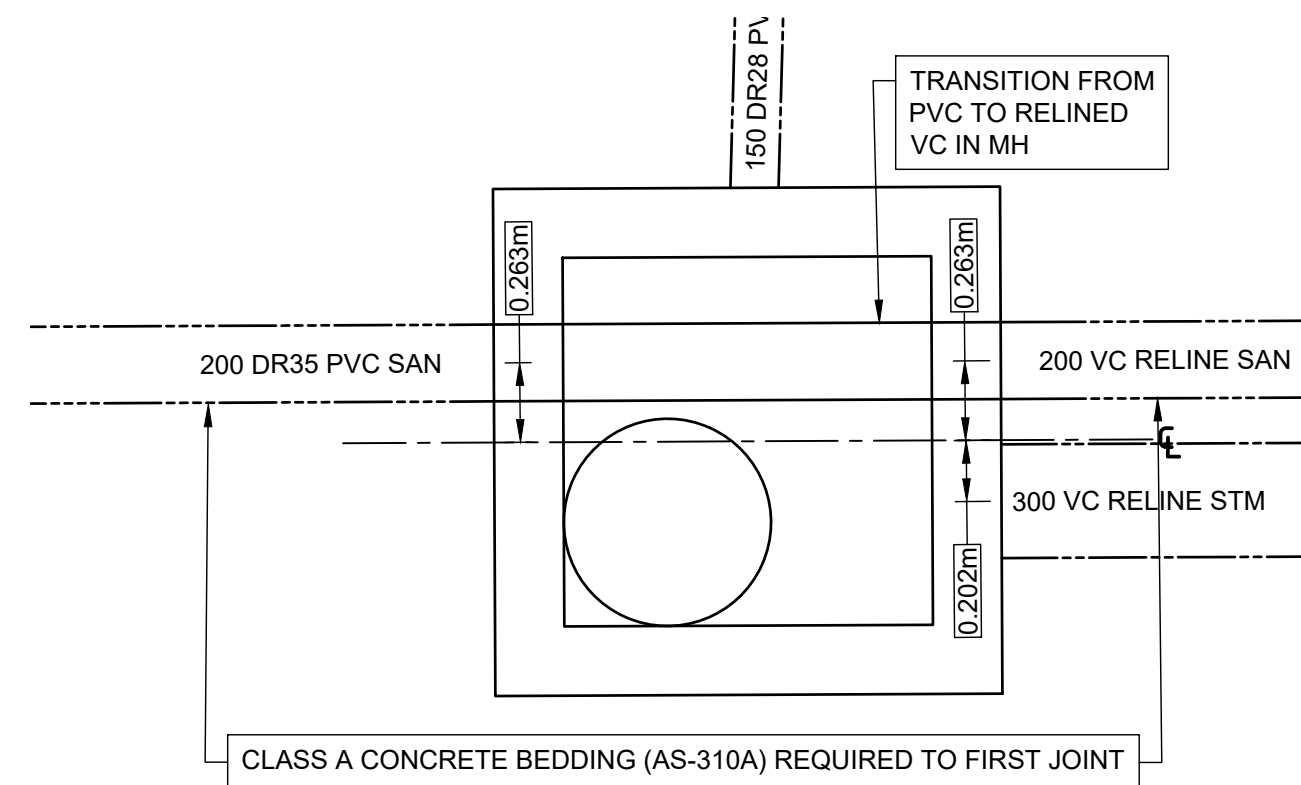
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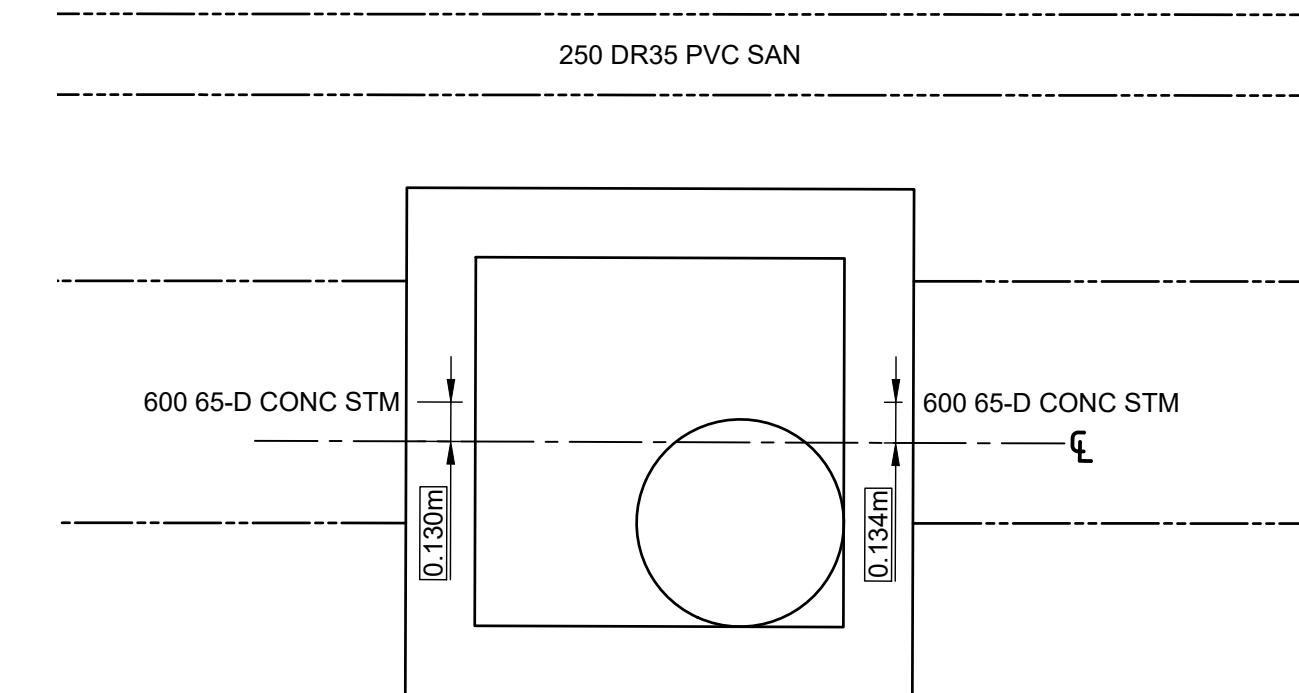
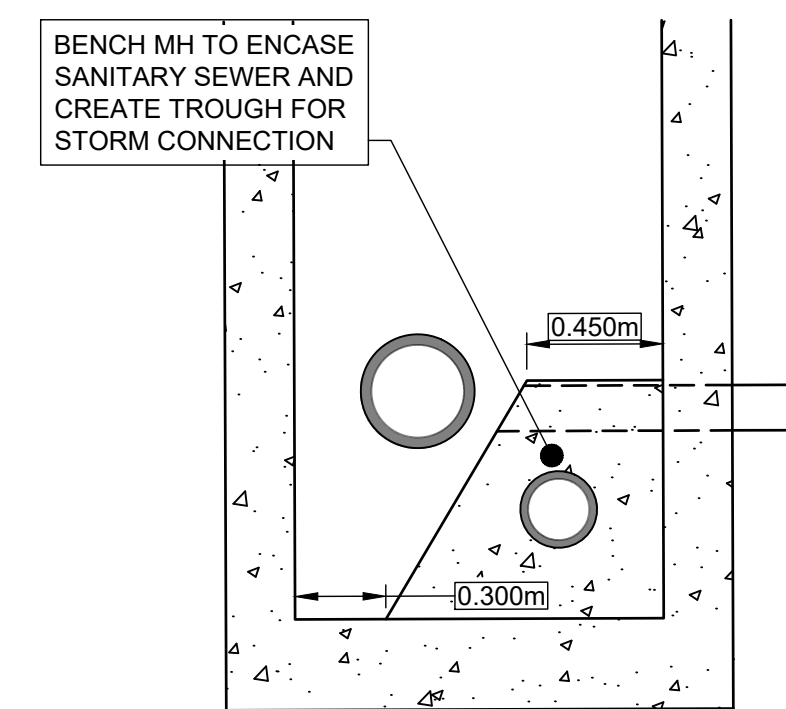
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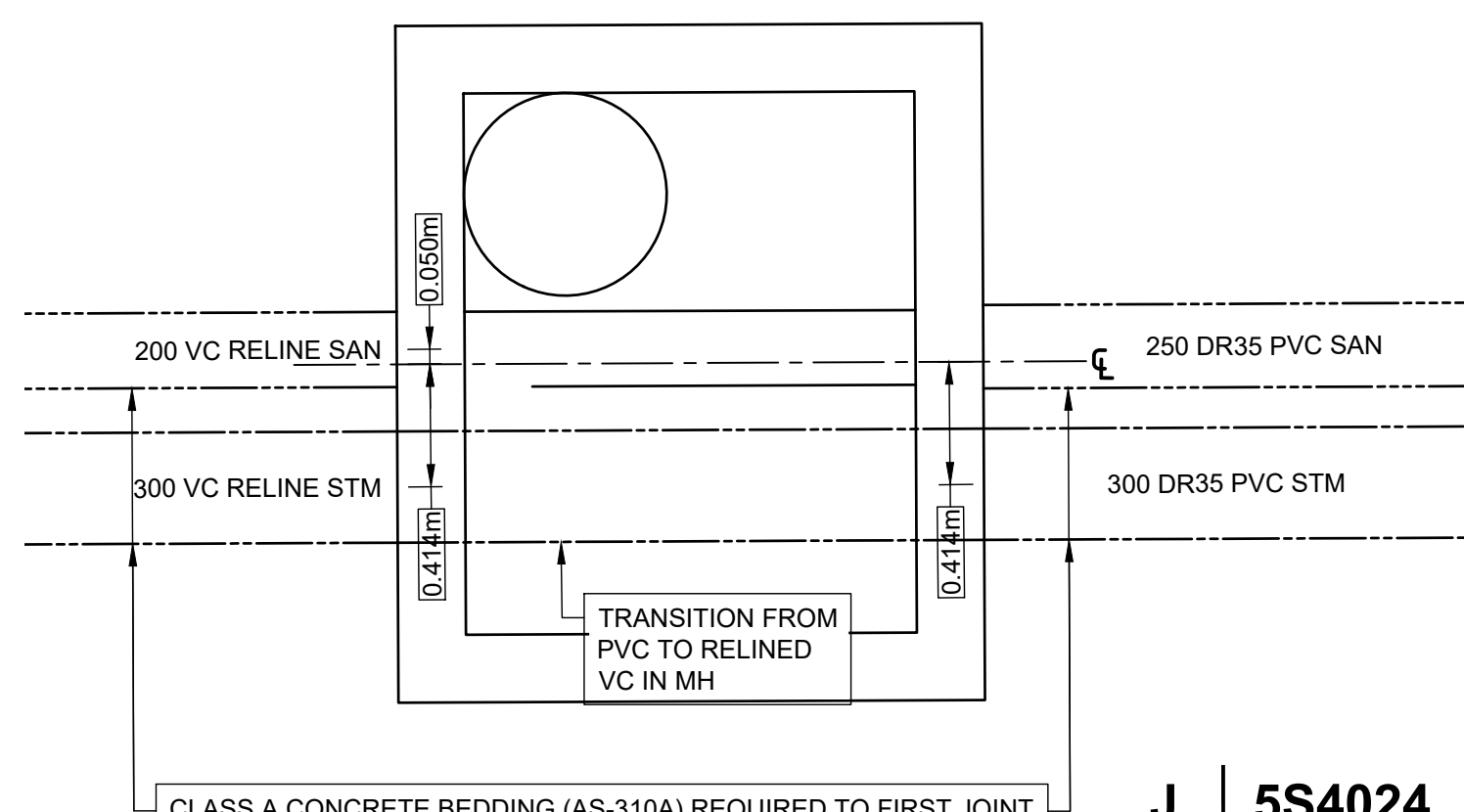
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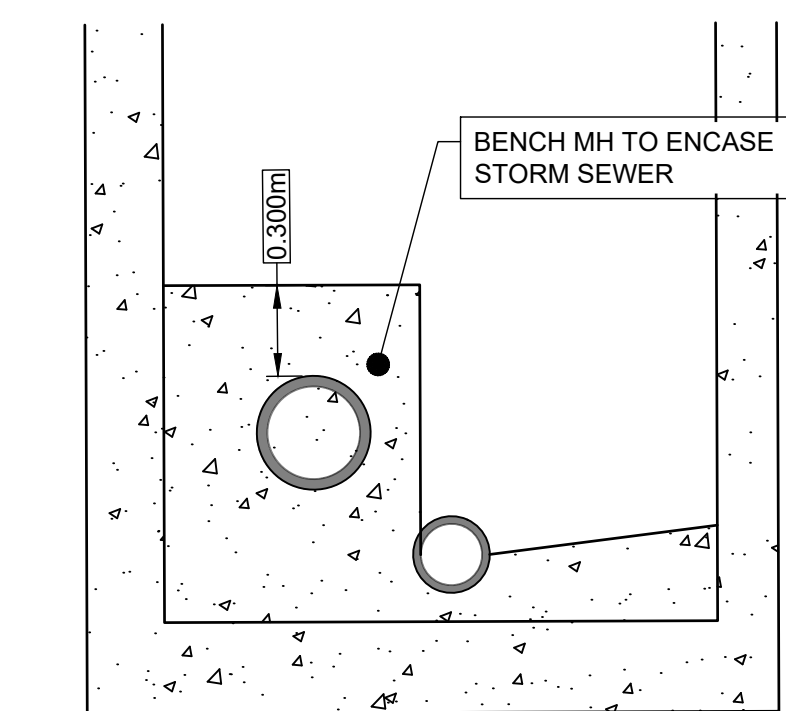
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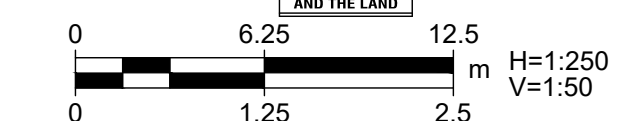


J | 5S4024
CU-1004 Scale 1:25



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TENDER SET SIGNED BY
MARK WINTERTON, P. ENG.
COMMISSIONER
INFRASTRUCTURE SERVICES



PROJECT
Sunset Avenue Sewer Separation, Phase 3
Sunset Avenue from Wyandotte Street West to College Avenue & Union Street from Patricia Road to Sunset Avenue

CLIENT
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REGISTRATION



ISSUE/REVISION

NO	DATE	DESCRIPTION
0	2024-02-22	Issued for Construction
C	2023-06-16	Addendum 2
B	2023-05-18	Issued for Tender
A	2023-03-30	Issued for Review
I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60635207

SHEET TITLE

CIVIL UTILITIES
MAINTENANCE HOLE
DETAILS

SHEET NUMBER

CU-5001

PROJECT

Sunset Avenue Sewer Separation, Phase 3

Sunset Avenue from Wyandotte Street West to College Avenue & Union Street from Patricia Road to Sunset Avenue

CLIENT

The Corporation of the
City of Windsor

350 City Hall Square West
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C	2020-11-12	Issued for MECF Approval
B	2020-08-07	Issued for City Review

KEY PLAN

PROJECT NUMBER

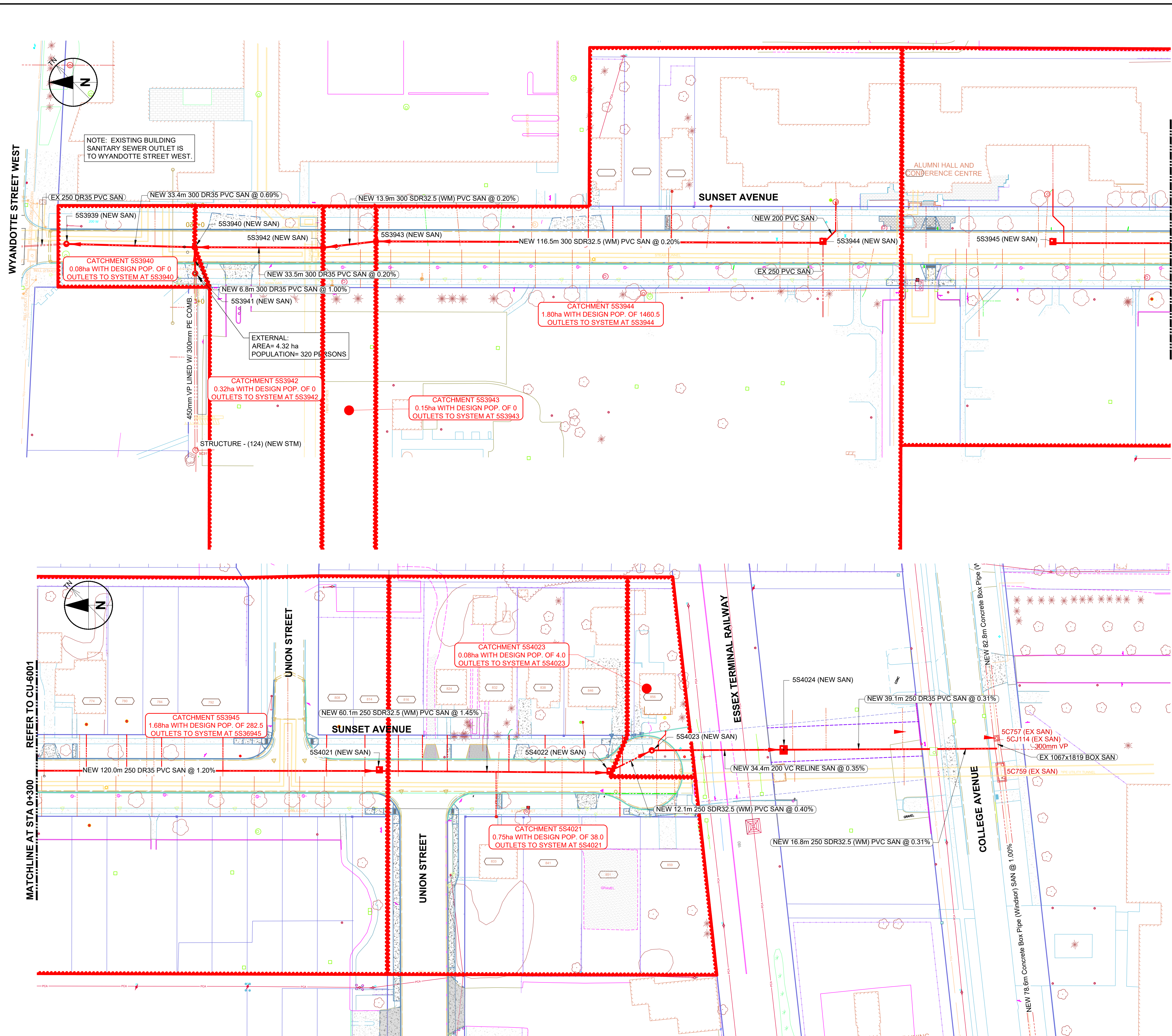
60635207

SHEET TITLE

UTILITIES
SANITARY SEWER
DRAINAGE PLAN

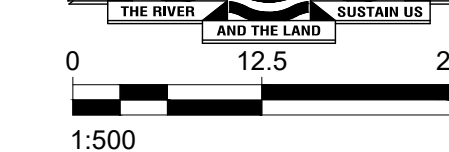
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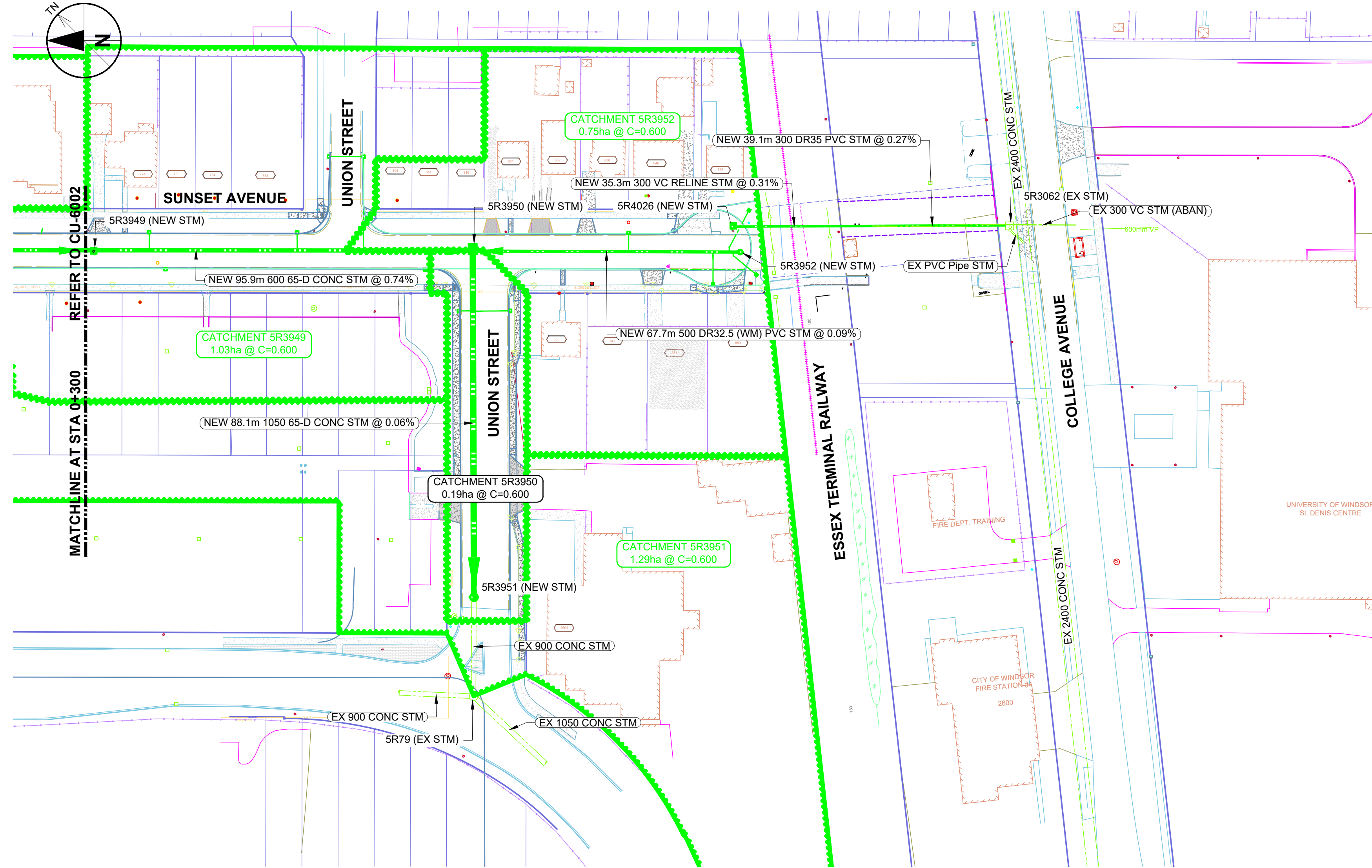
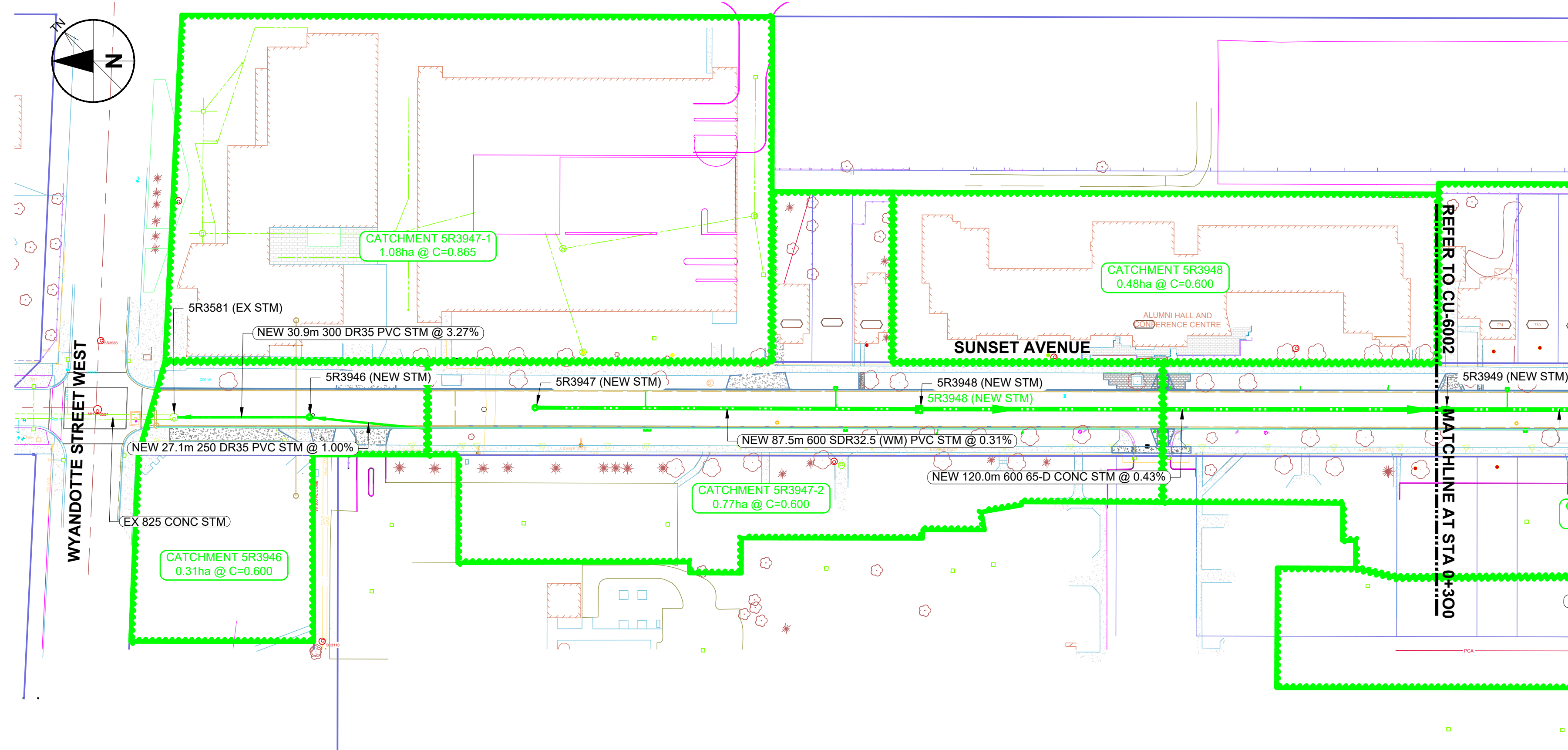
CU-6001



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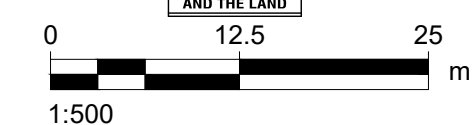
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COMMISSIONER
INFRASTRUCTURE SERVICES





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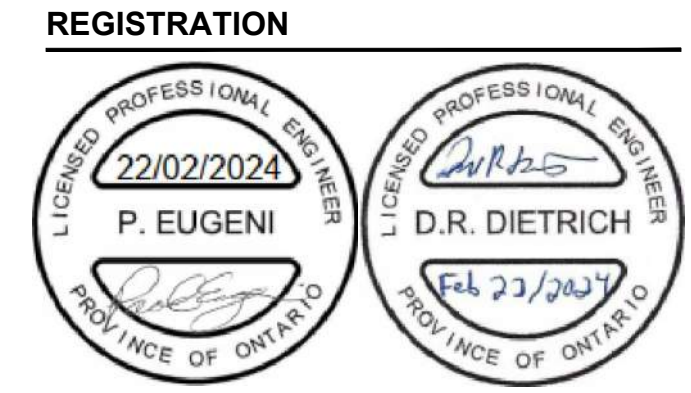
TENDER SET SIGNED BY
 MARK WINTERTON, P. ENG.
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 INFRASTRUCTURE SERVICES



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B	2020-08-07	Issued for City Review

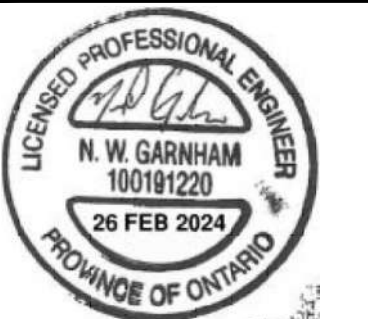
KEY PLAN

PROJECT NUMBER
 60635207

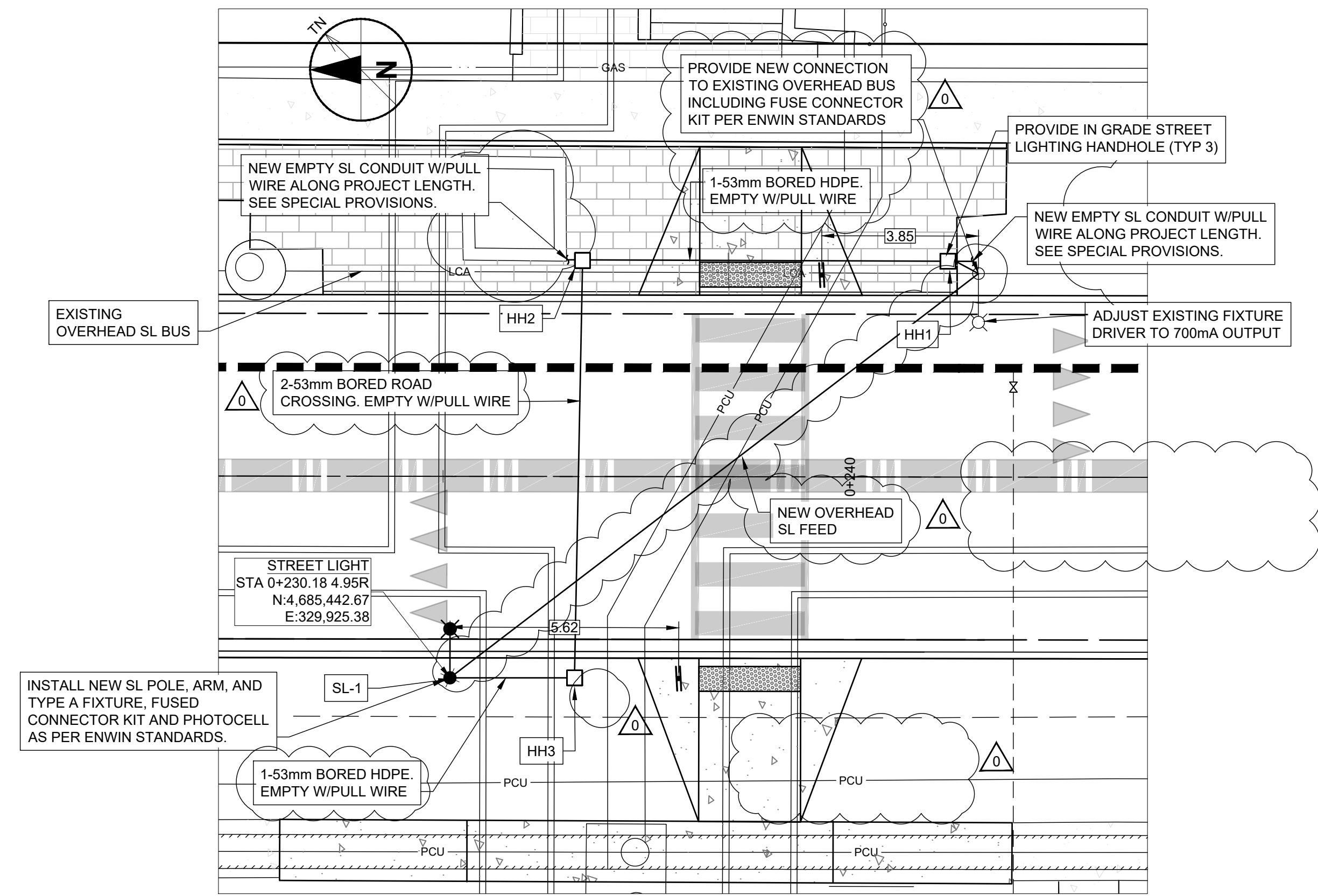
SHEET TITLE
 UTILITIES
 STORM SEWER
 DRAINAGE PLAN

SHEET NUMBER
 CU-6002

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NO	DATE	DESCRIPTION
0	2024-02-22	Issued for Construction
C	2023-12-11	Revised Wiring & Grounding
B	2023-11-01	Re-issued for Tender
A	2023-06-19	Issued for Tender
I/R	DATE	DESCRIPTION



PXO LIGHTING PLAN

Scale 1:100

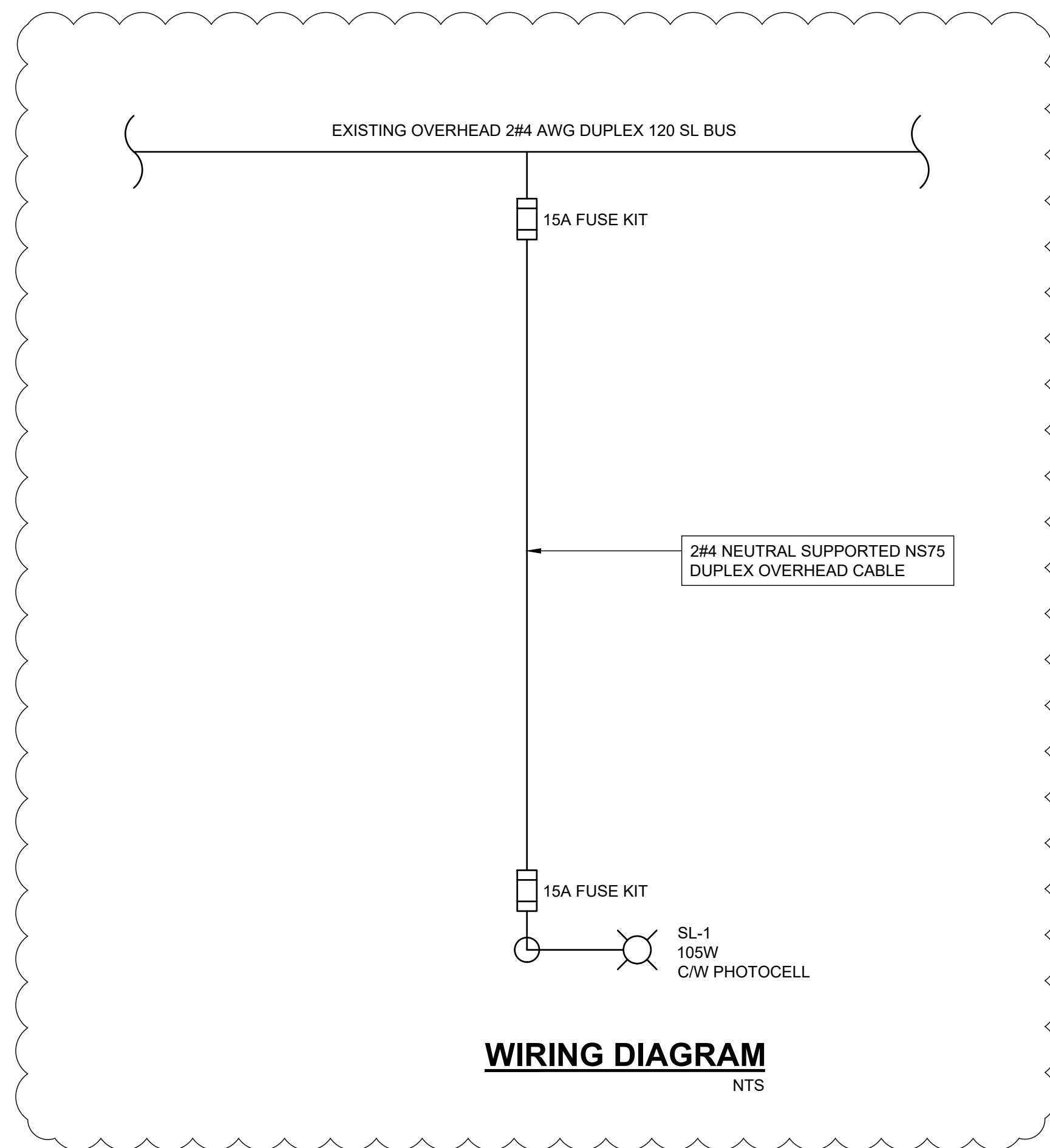
LUMINAIRE SCHEDULE										
TYPE	MANUFACTURER	MODEL	ARRANGEMENT	LLF	ARM	WATTS	LUMENS	BUG Rating	LER	
A	LED ROADWAY LIGHTING (LIVEABLE CITIES)	NXT-48M-0-7-2ES-7-GY-3-UL-S-2H-0423	SINGLE	0.8	1.8	105	11541	B2-U0-G2	110	

STREETLIGHT DESIGN MEETS THE CITY OF WINDSOR'S STANDARDS AND SPECIFICATIONS

TENDER SET SIGNED BY
 SENIOR MANAGER OF TRAFFIC OPERATIONS & PARKING SERVICES

APPROVED AS TO FORM, IN RELIANCE UPON THE PROFESSIONAL SKILL AND ABILITY OF AECOM AS TO DESIGN AND SPECIFICATION.

TENDER SET SIGNED BY
 MARK WINTERTON, P. ENG.
 COMMISSIONER
 INFRASTRUCTURE SERVICES



WIRING DIAGRAM

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