

## NOTICE OF SERVICE INTERRUPTION/WORK FORM

<b>Date of Request (yyyy/mm/dd):</b> _____		<b>Requester:</b> _____							
<b>Start Date – End</b>									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Start Date (yyyy/mm/dd) _____</td> <td>Time (s) _____</td> </tr> <tr> <td>End Date (yyyy/mm/dd) _____</td> <td>Time (s) _____</td> </tr> </table>		Start Date (yyyy/mm/dd) _____	Time (s) _____	End Date (yyyy/mm/dd) _____	Time (s) _____	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Notes _____</td> </tr> <tr> <td>_____</td> </tr> </table>		Notes _____	_____
Start Date (yyyy/mm/dd) _____	Time (s) _____								
End Date (yyyy/mm/dd) _____	Time (s) _____								
Notes _____									
_____									
<b>Building(s) Affected:</b>	1: _____	2: _____							
	3: _____	4: _____							
<b>Areas/Rooms Affected:</b> _____									
<b>Service to be interrupted:</b>	1: _____	2: _____							
	3: _____	4: _____							
<b>Description/Reason for Project:</b>									

<b>Contractor:</b> _____	<b>Phone #:</b> _____
<b>Contractor/Project Managers:</b> _____	<b>Phone #:</b> _____

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



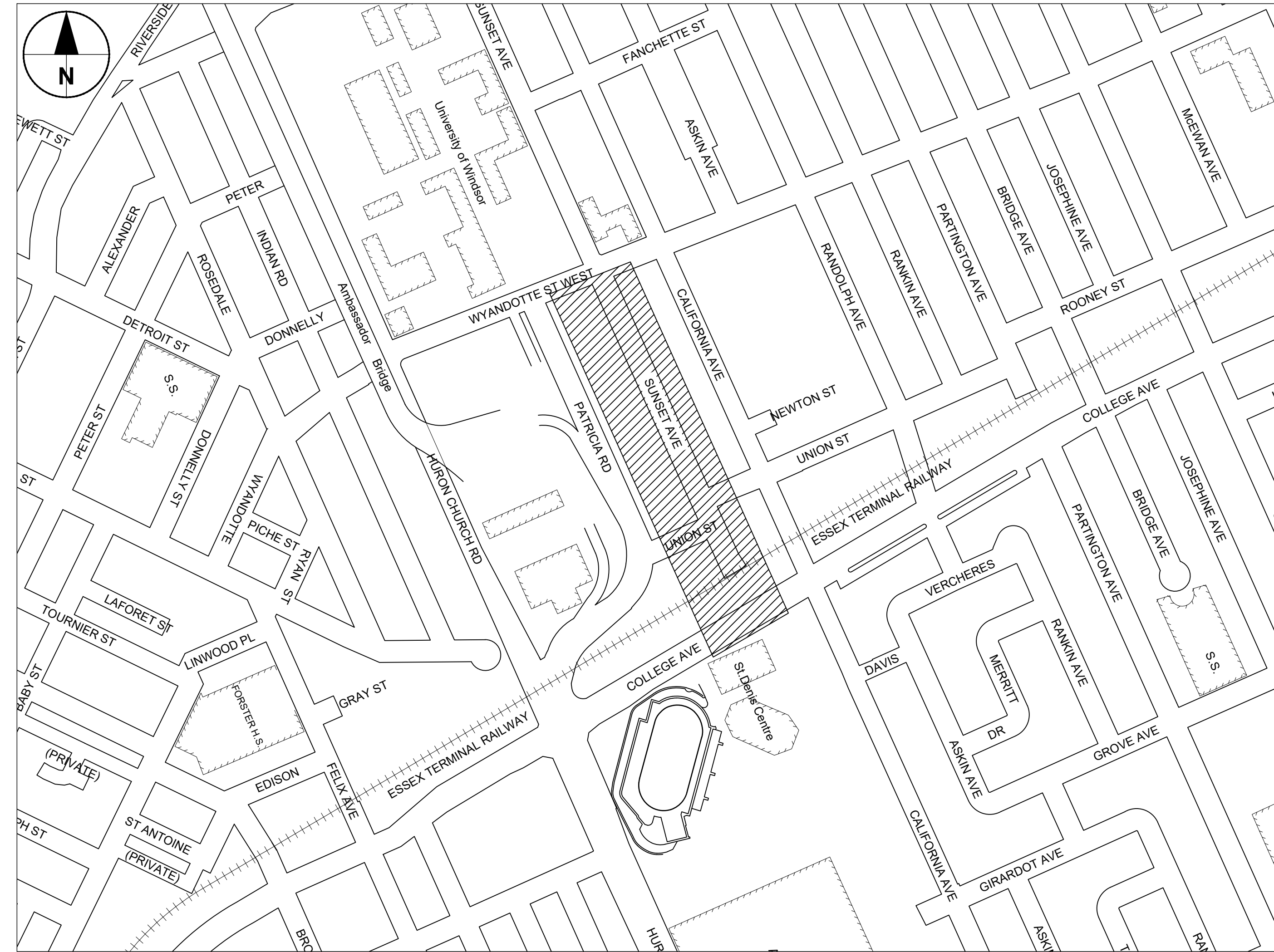
### LIST OF PROJECT SHEETS

#### 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 - UTILITIES	
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

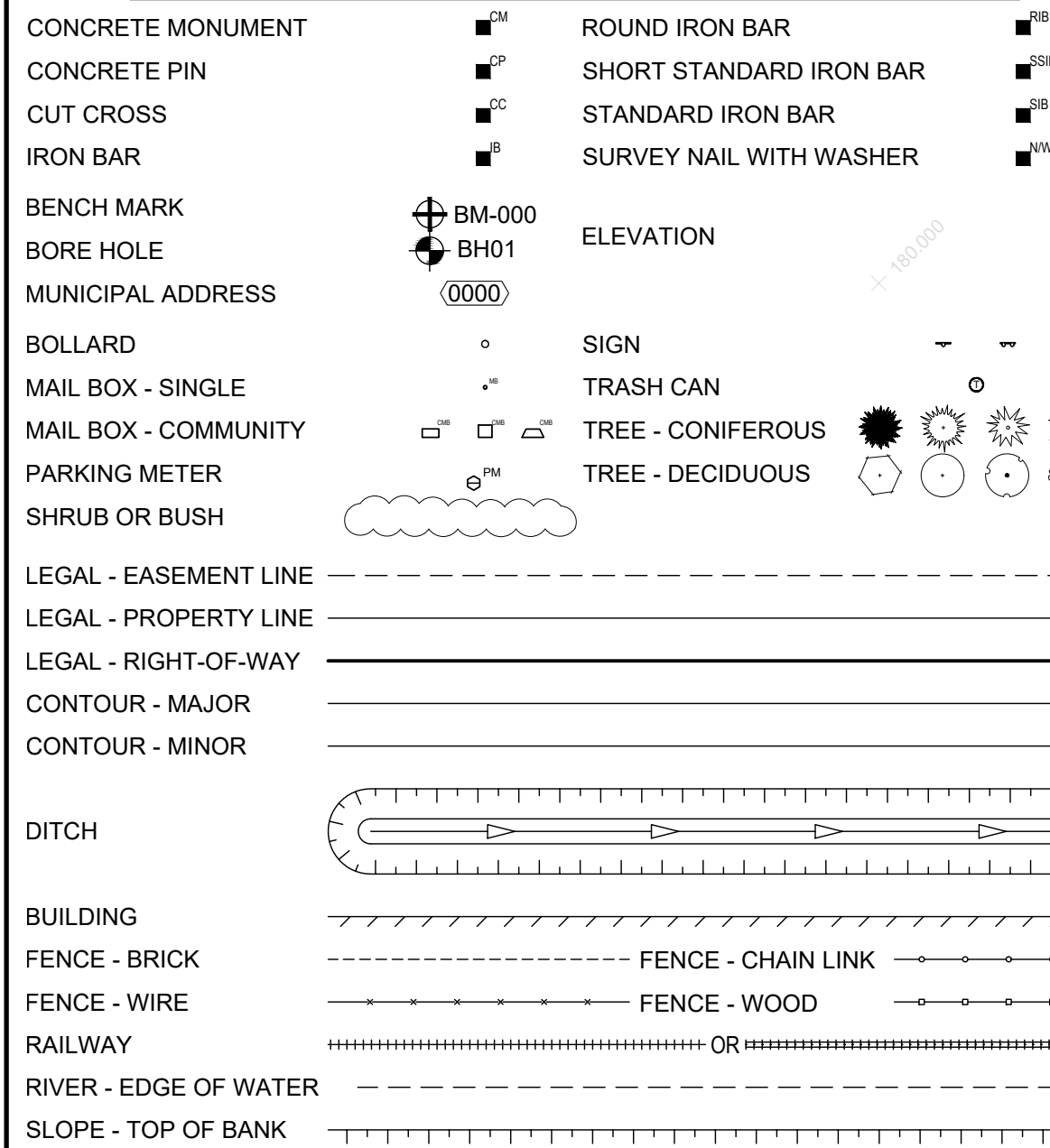
# Sunset Avenue Sewer Separation Phase 3 Wyandotte Street West to College Avenue

# AECOM

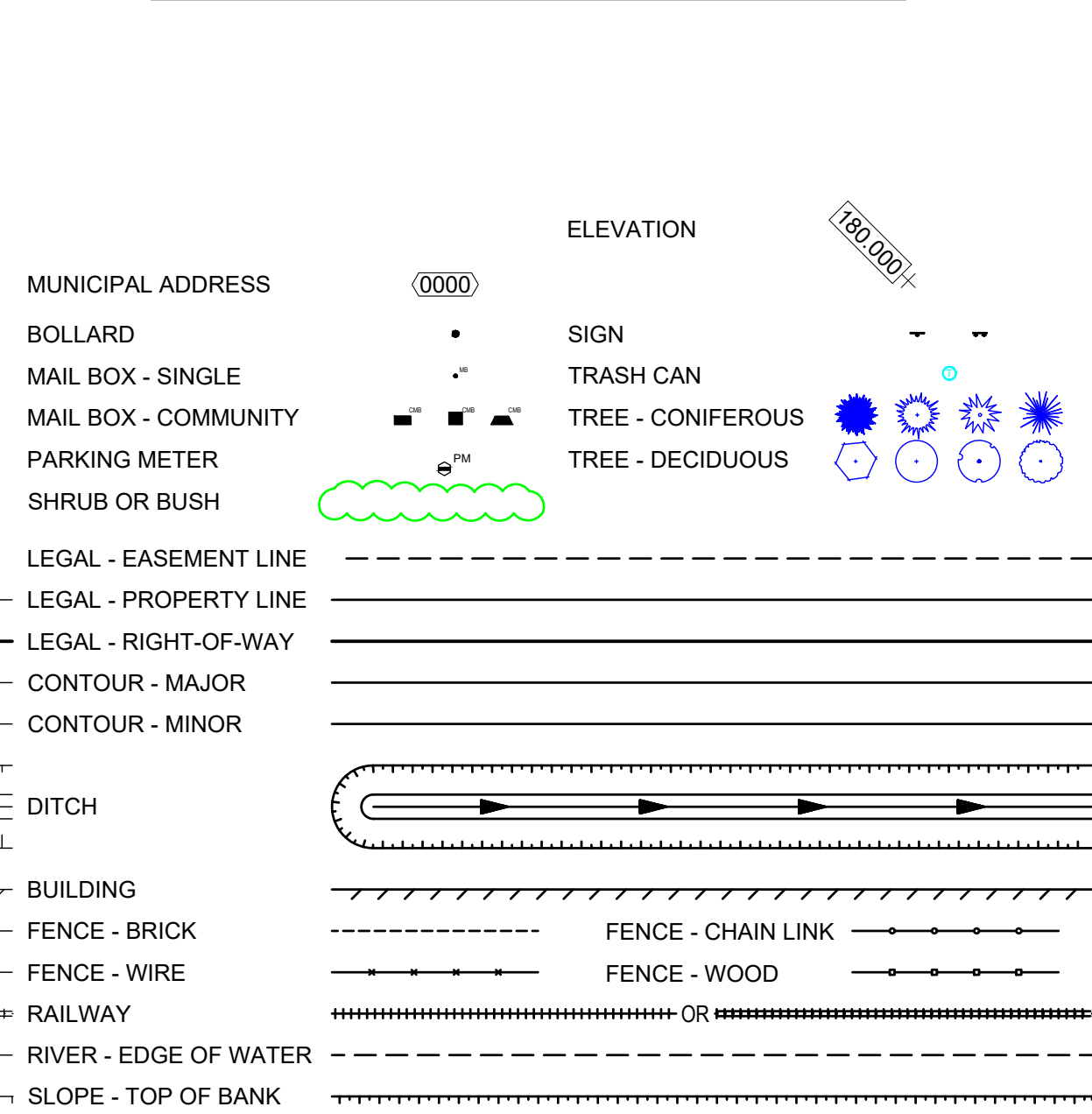
ISSUED FOR CONSTRUCTION (2024-02-22)

60635207

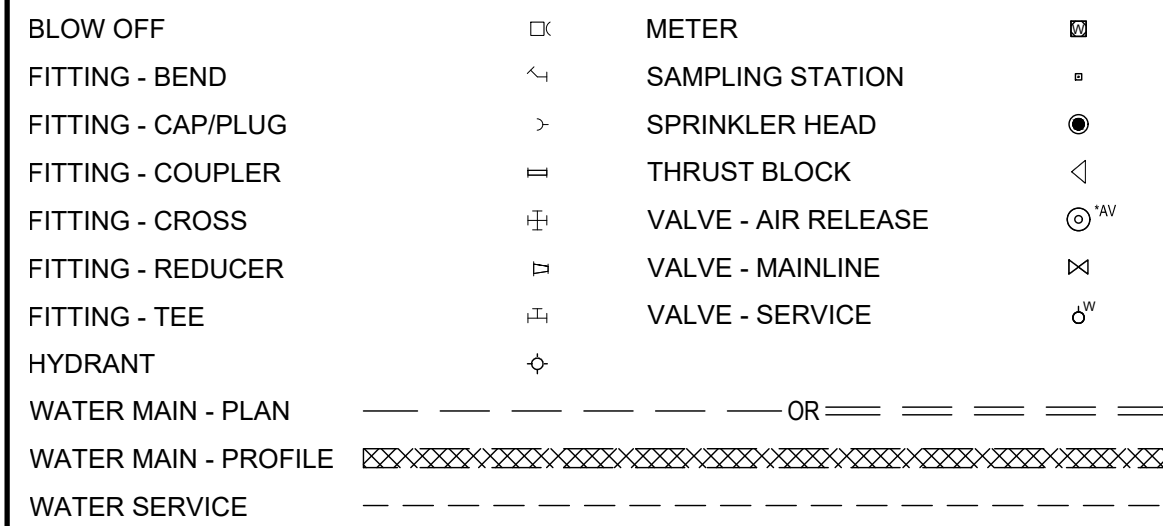
### TOPOGRAPHIC FEATURES - EXISTING



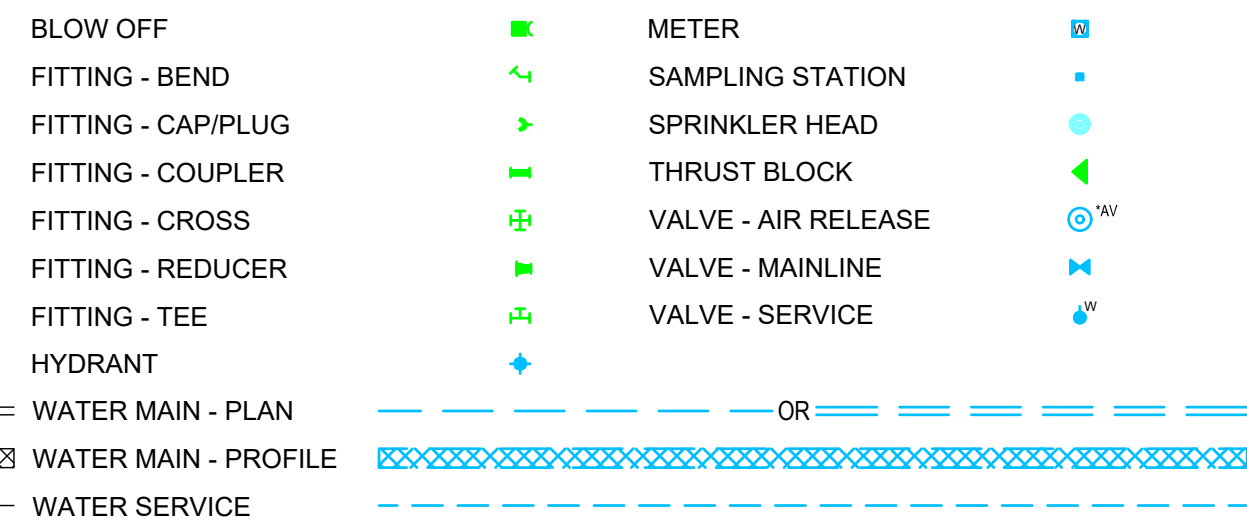
### TOPOGRAPHIC FEATURES - NEW



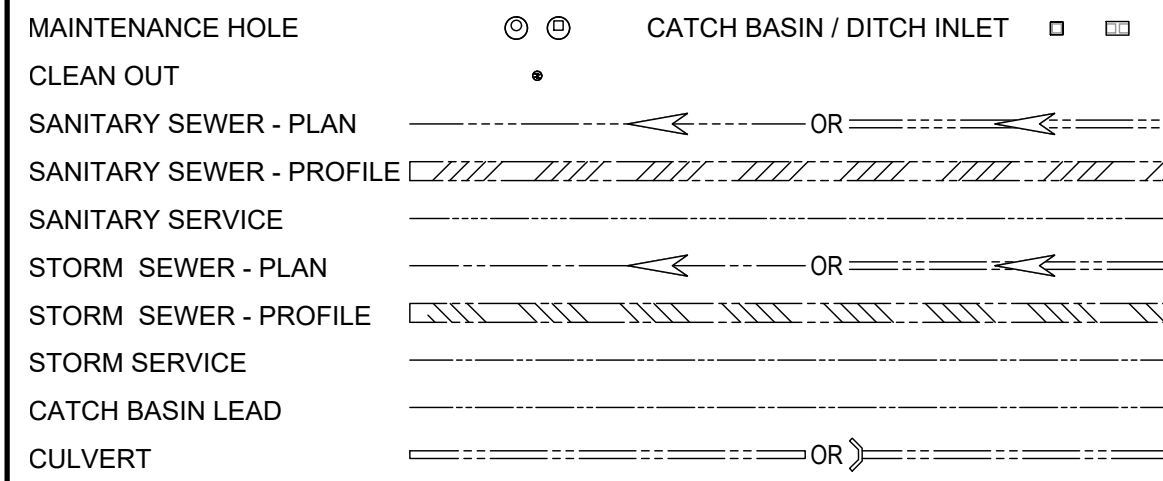
### WATER SYSTEM - EXISTING



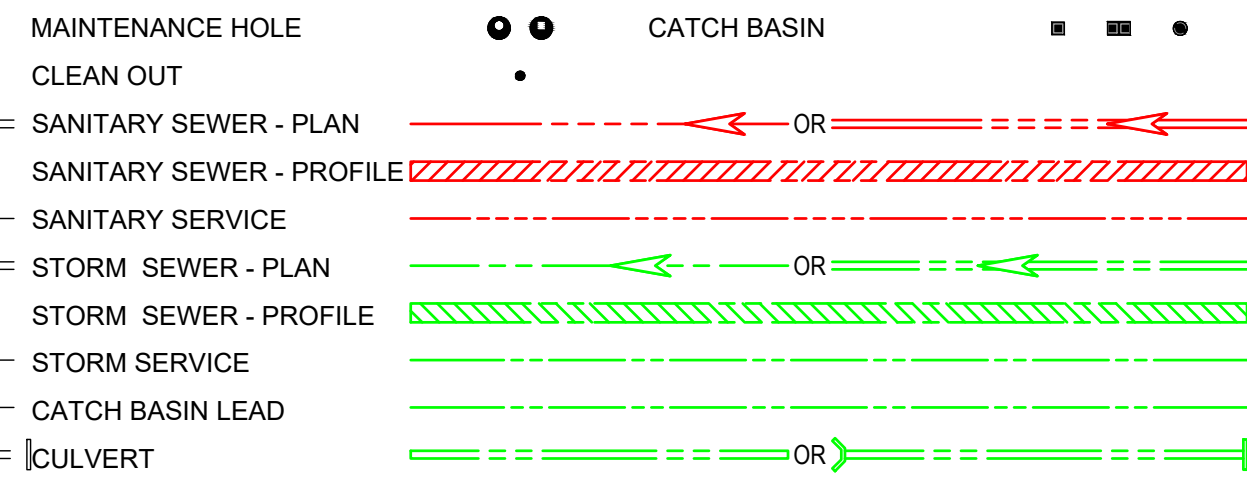
### WATER SYSTEM - NEW



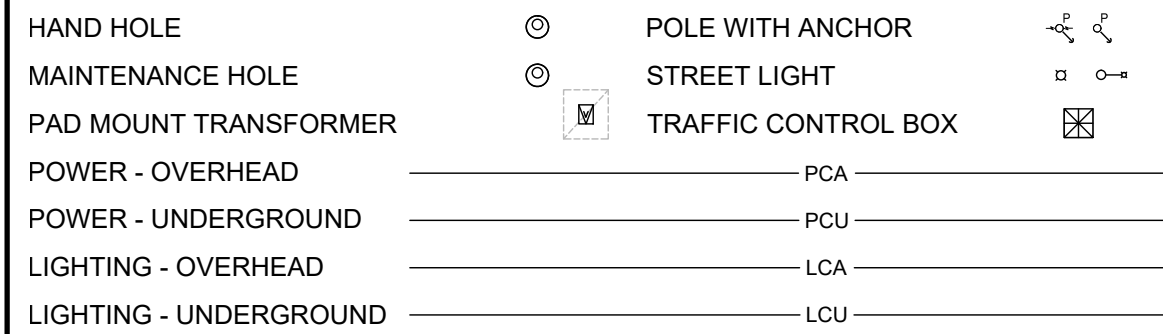
### WASTEWATER SYSTEM - EXISTING



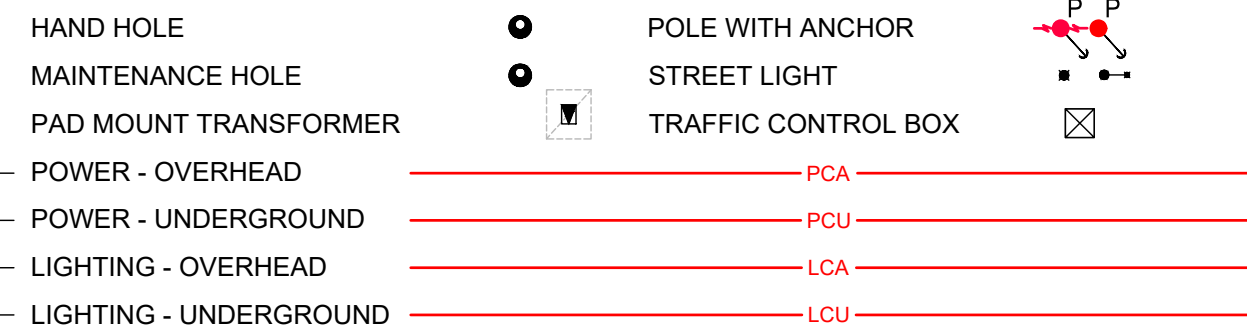
### WASTEWATER SYSTEM - NEW



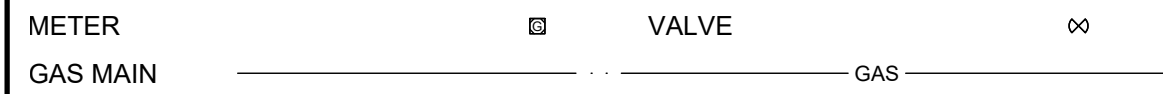
### ELECTRICAL UTILITIES - EXISTING



### ELECTRICAL UTILITIES - NEW



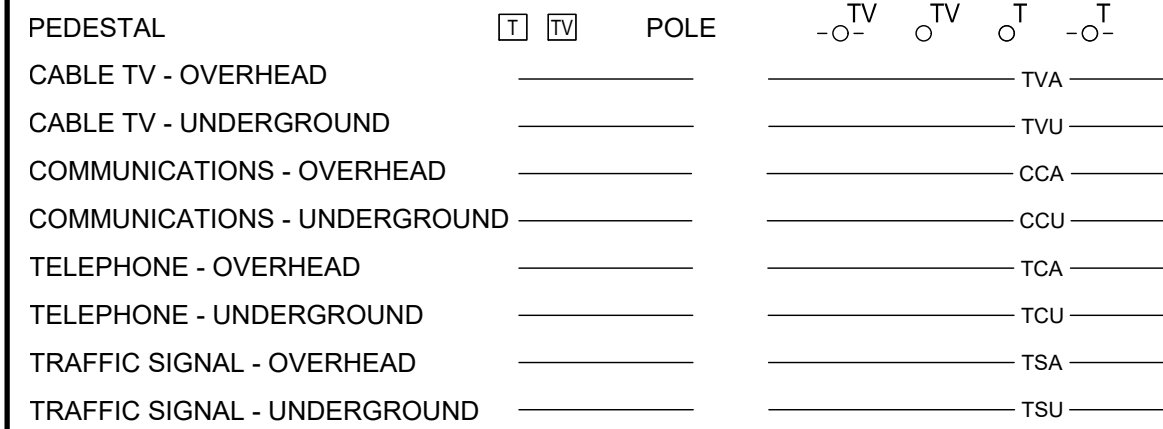
### NATURAL GAS SYSTEMS - EXISTING



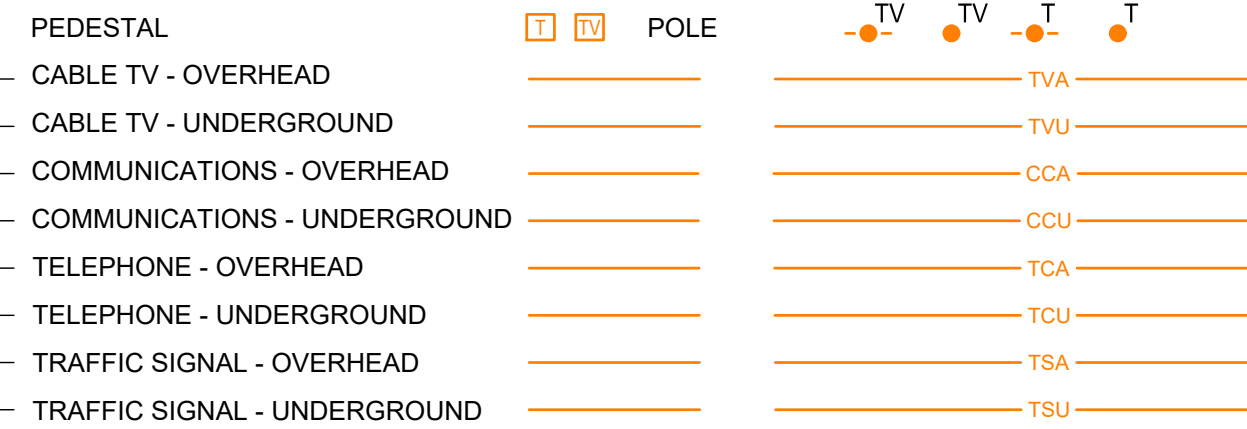
### NATURAL GAS SYSTEMS - NEW



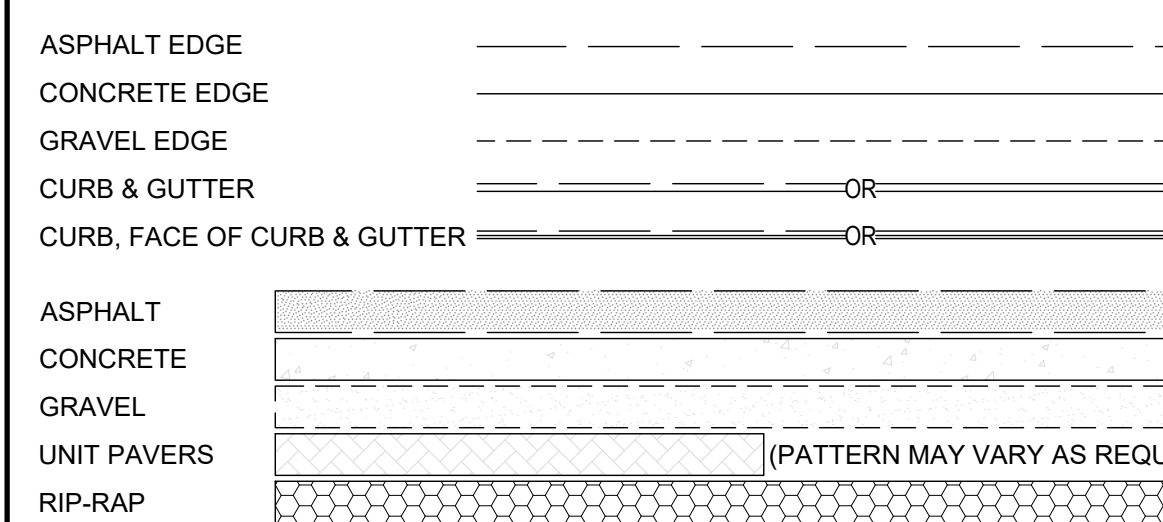
### COMMUNICATIONS - EXISTING



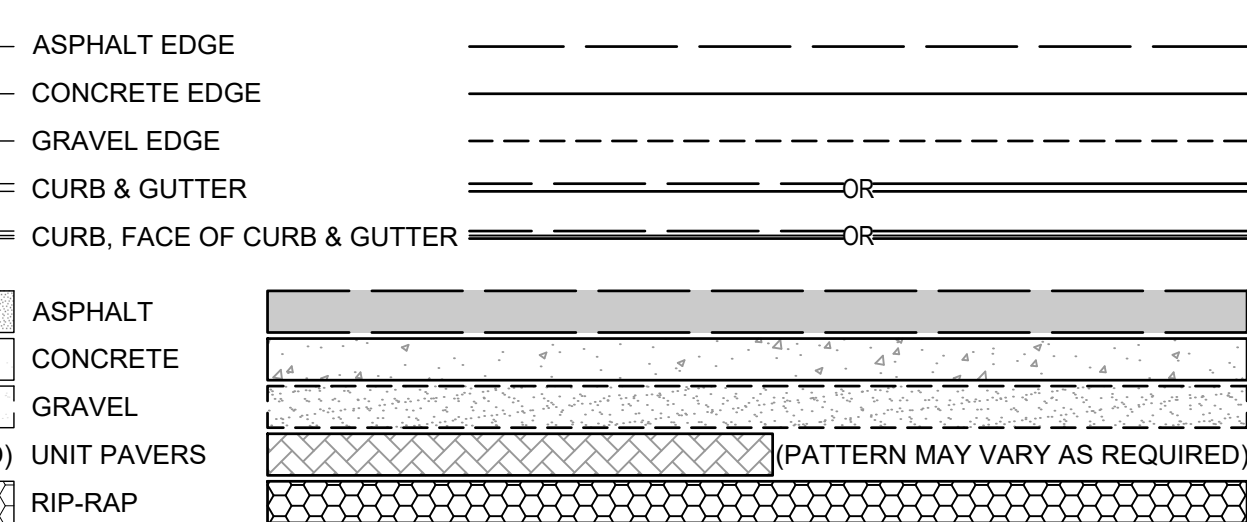
### COMMUNICATIONS - NEW



### 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

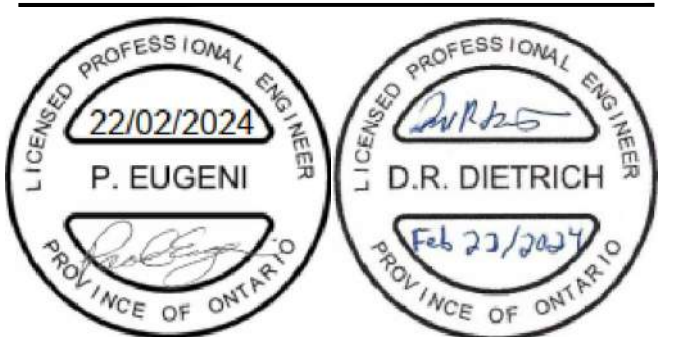
### City of Windsor

350 City Hall Square West  
 Windsor, Ontario, N9A 6S1  
 519.255.2488 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

#### 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 MECF Approval
B	2020-08-07	Issued for City Review
I/R	DATE	DESCRIPTION

#### KEY PLAN

#### PROJECT NUMBER

60635207

#### SHEET TITLE

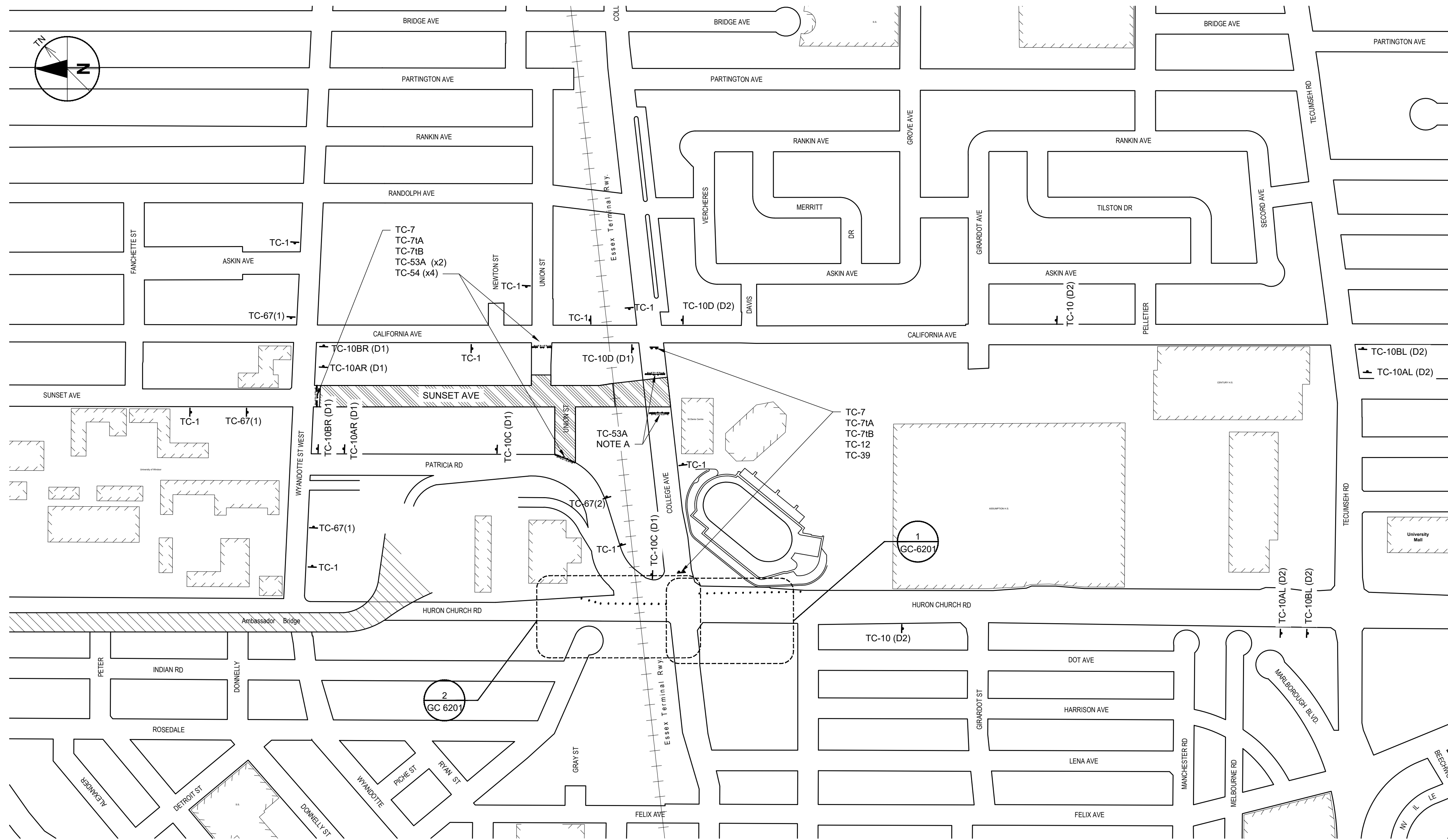
GENERAL NOTES AND LEGEND

#### 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**

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

TC-67 (1)	TC-67 (2)	TC-67 (3)
SUNSET CLOSED WYANDOTTE TO COLLEGE	UNION CLOSED PATRICIA TO CALIFORNIA	COLLEGE CLOSED HURON CHURCH TO CALIFORNIA



**PROJECT**

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

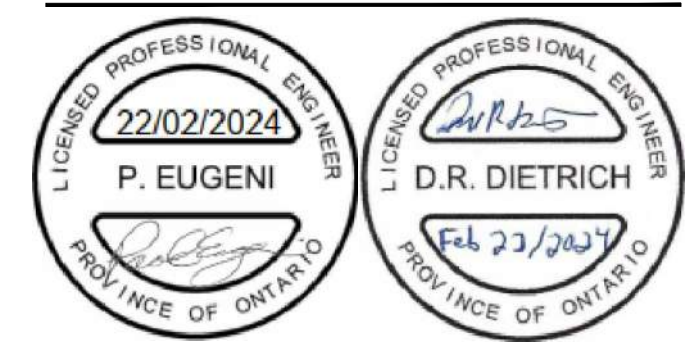
**CLIENT**

The Corporation of the  
**City of Windsor**  
 350 City Hall Square West  
 Windsor, Ontario, N9A 6S1  
 519.255.2488 tel 519.256.3311 fax  
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**REGISTRATION**



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B	2020-08-07	Issued for City Review

**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**

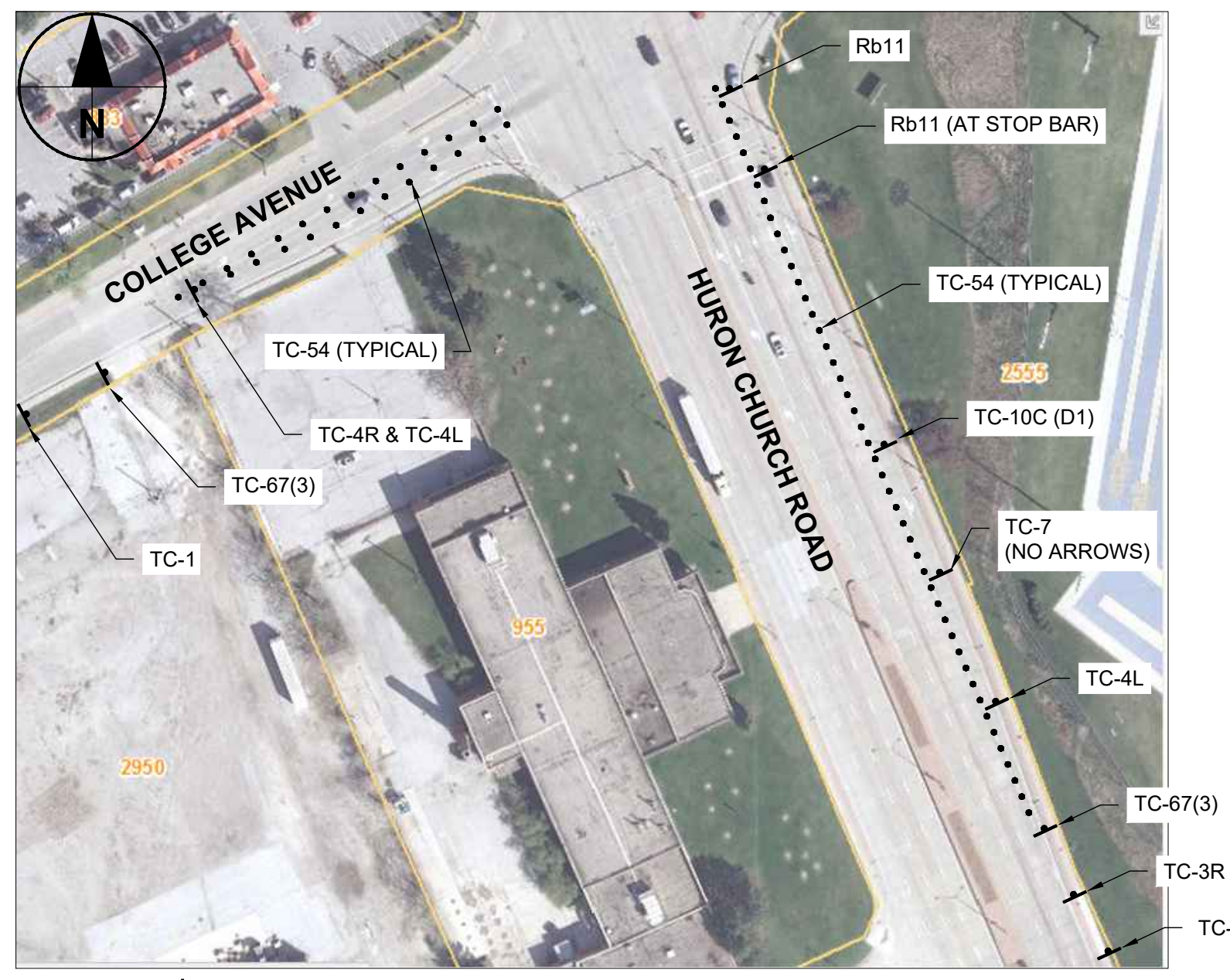
MARK WINTERTON, P. ENG.  
 COMMISSIONER  
 INFRASTRUCTURE SERVICES

**TENDER SET SIGNED BY**

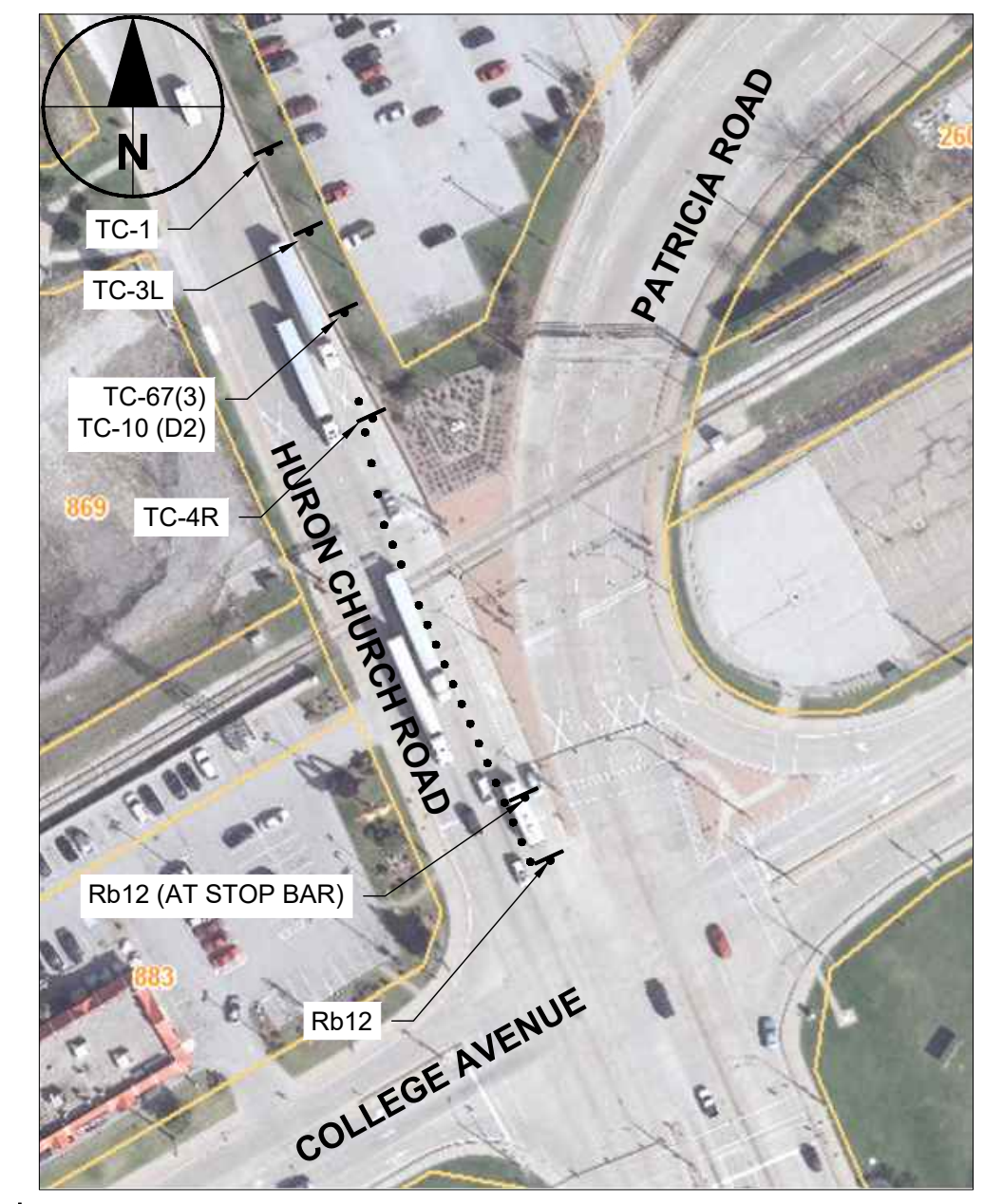
EXECUTIVE DIRECTOR OF OPERATIONS

**TENDER SET SIGNED BY**

WINDSOR POLICE

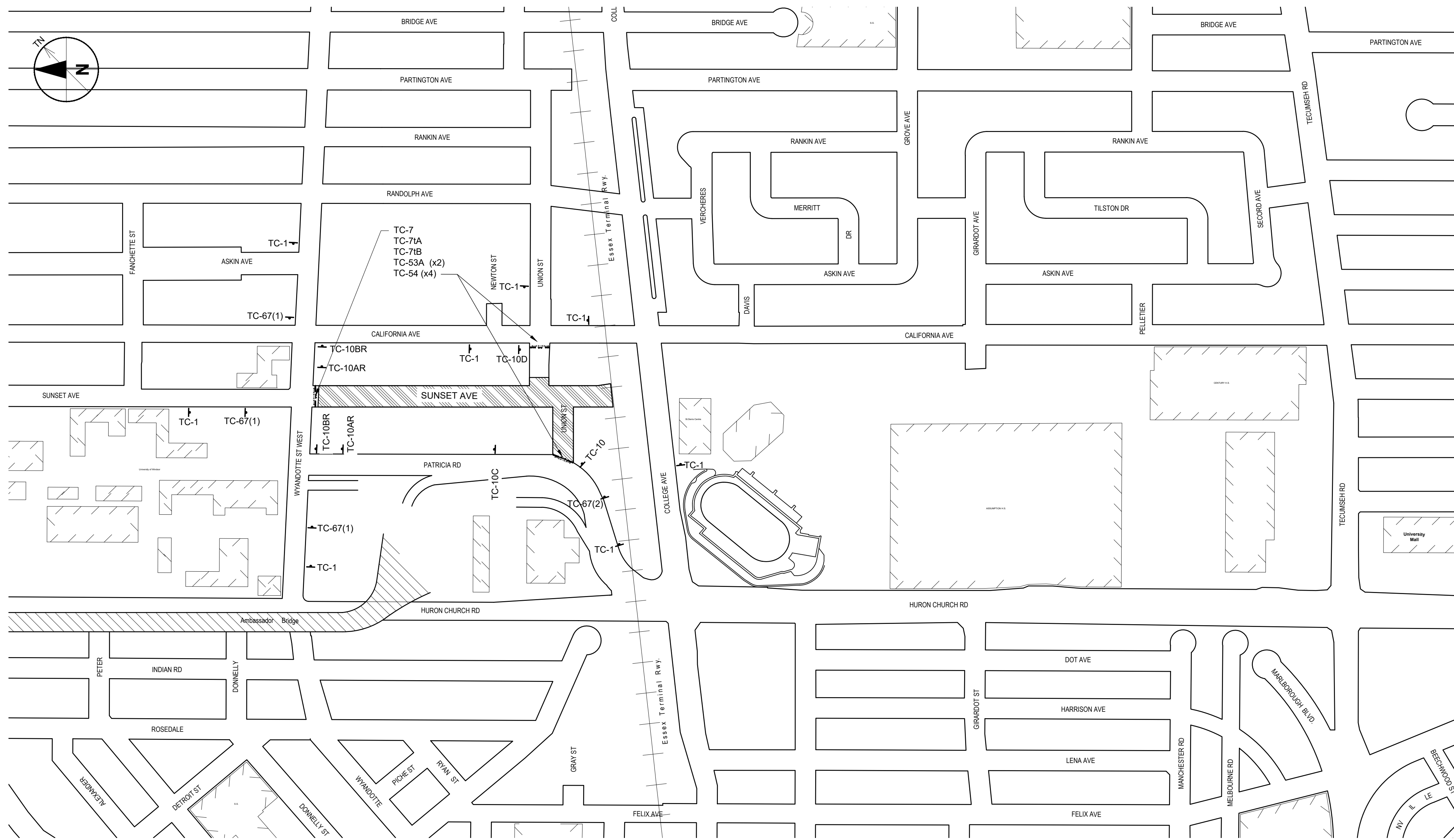


**1 NORTHBOUND RIGHT TURN LANE CLOSURE**  
 GC-6201 NTS



**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**

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.

**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
---	--	--

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**

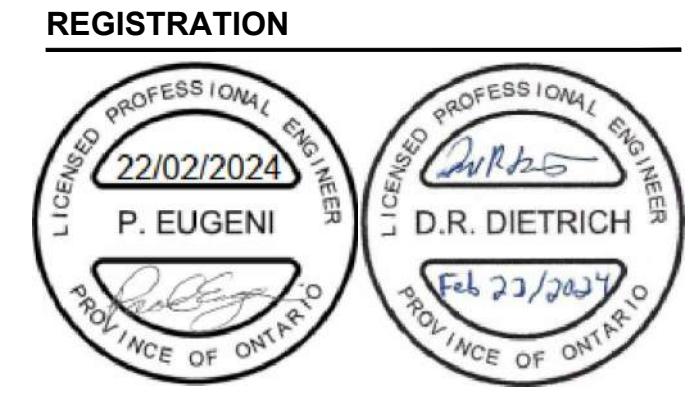
WINDSOR POLICE



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

**CLIENT**  
 The Corporation of the  
**City of Windsor**  
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**ISSUE/REVISION**

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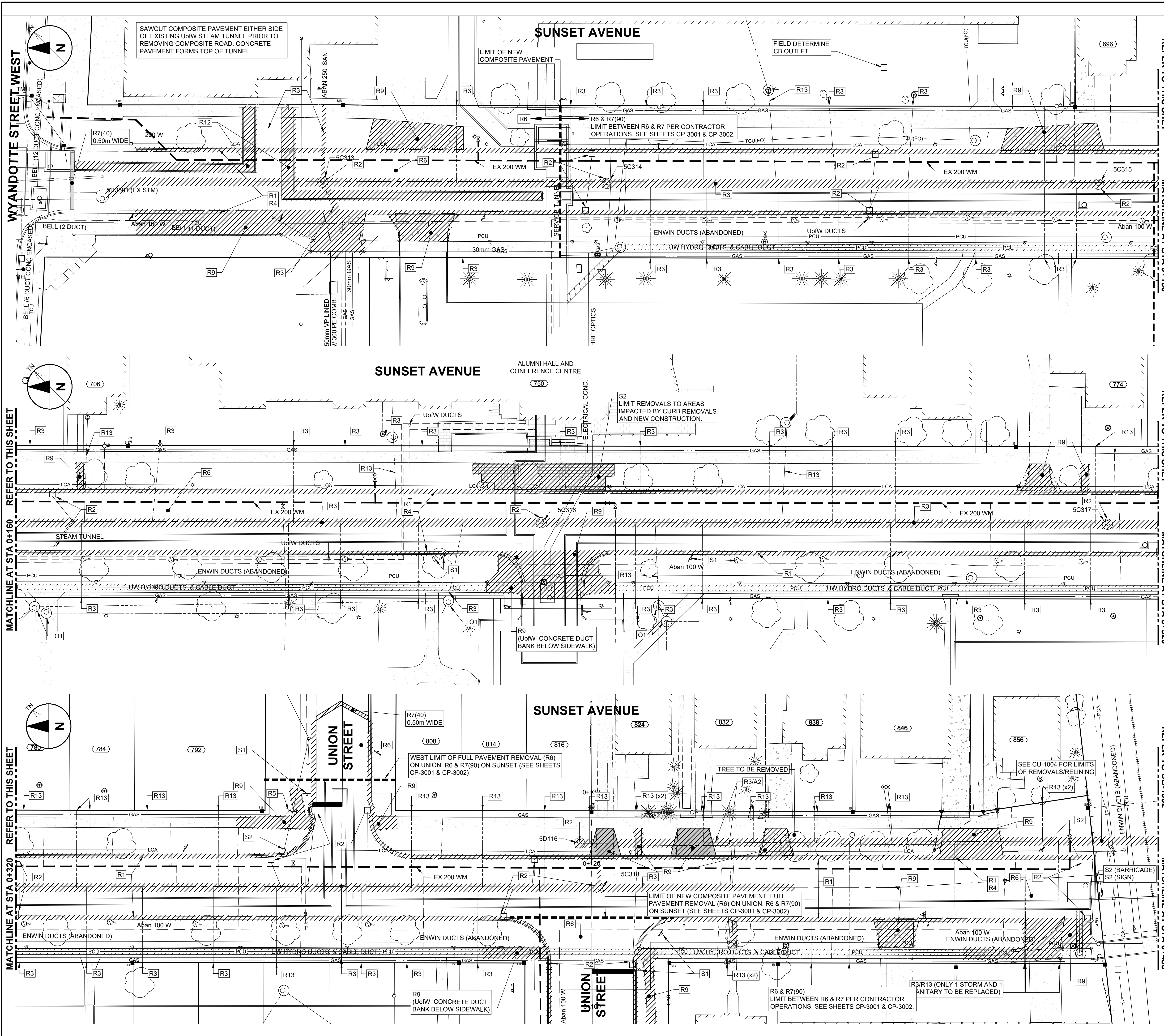
**KEY PLAN**

**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

# AECOM

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

**REGISTRATION**

**ISSUE/REVISION**

NO	DATE	DESCRIPTION
0	2024-02-22	Issued for Construction
F	2023-11-01	Re-Issued for Tender
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B	2020-08-07	Issued for City Review
I/R	DATE	DESCRIPTION

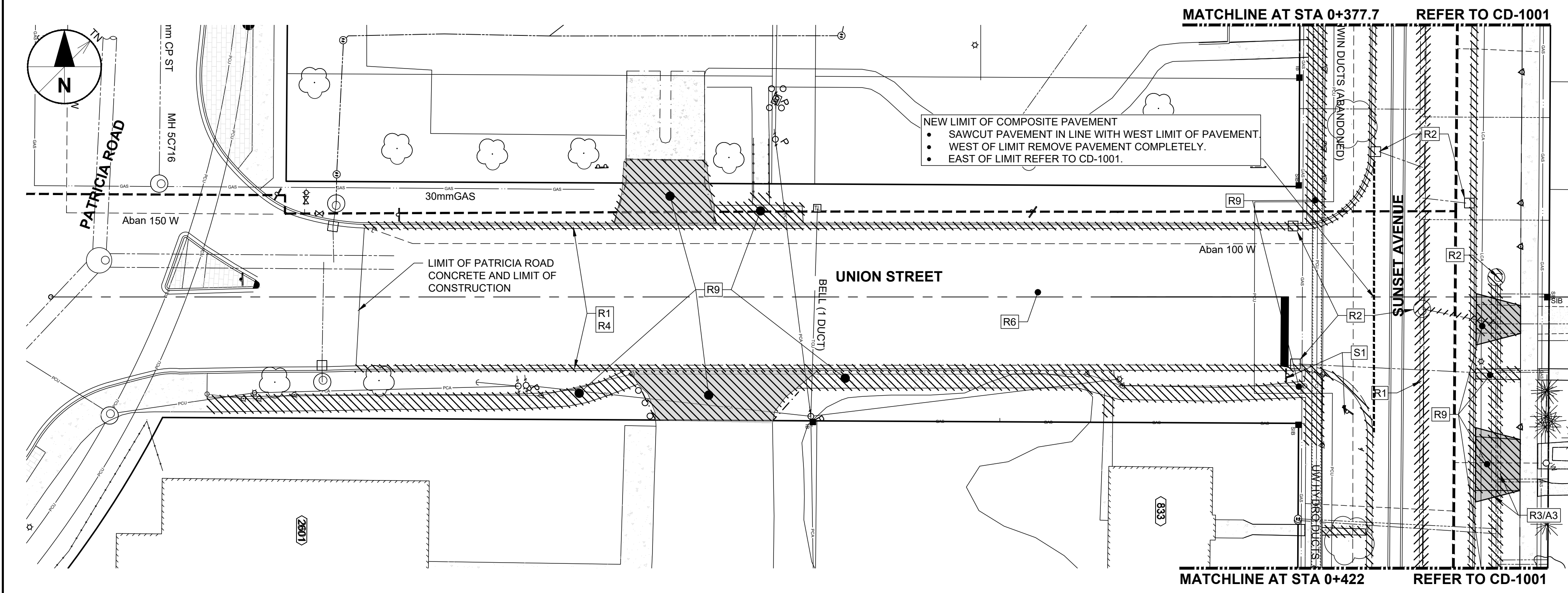
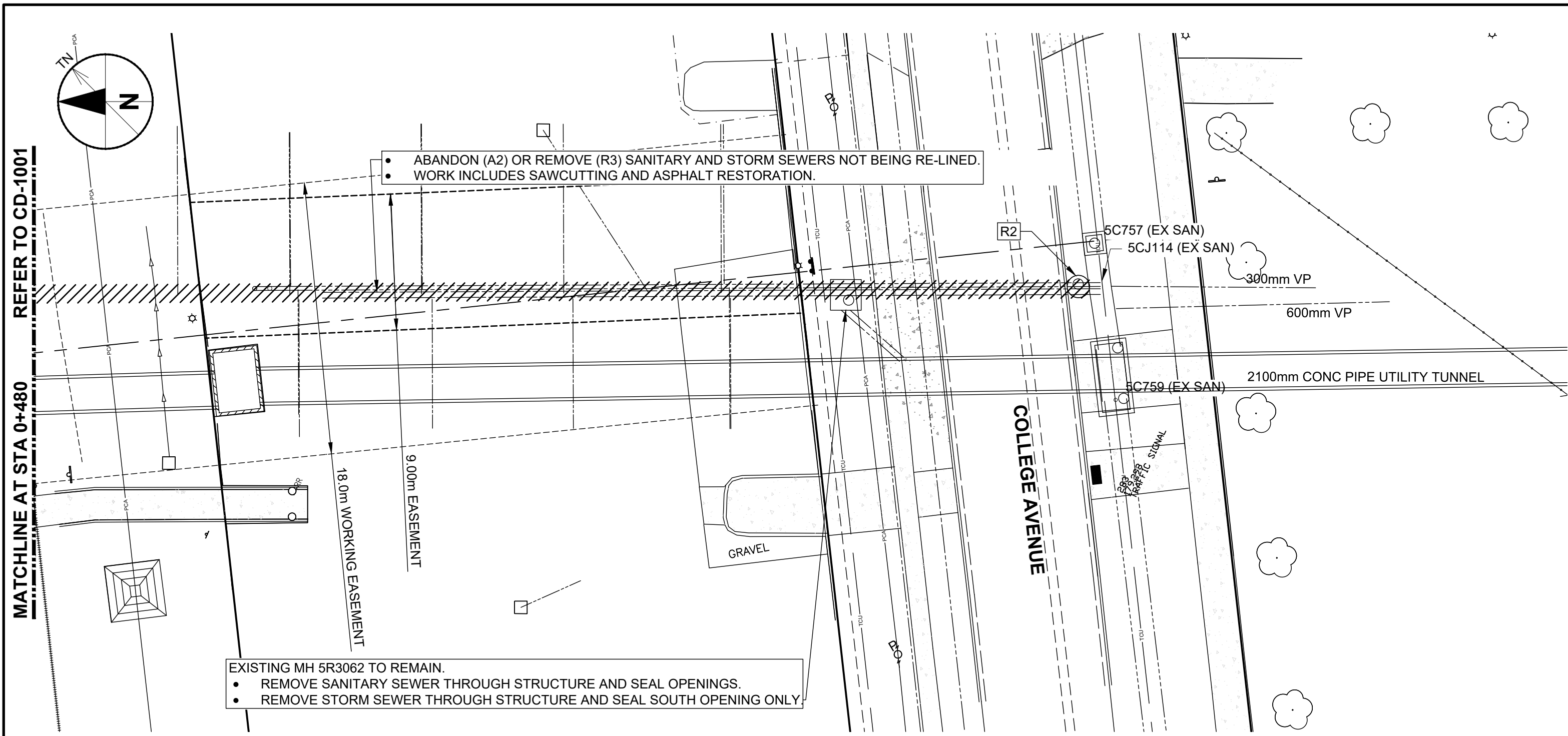
**KEY PLAN**

**PROJECT NUMBER**  
 60635207

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

**SHEET NUMBER**  
 CD-1001

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**GENERAL PROJECT NOTES**

- 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
- 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



**PROJECT**

**Sunset Avenue Sewer Separation, Phase 3**

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

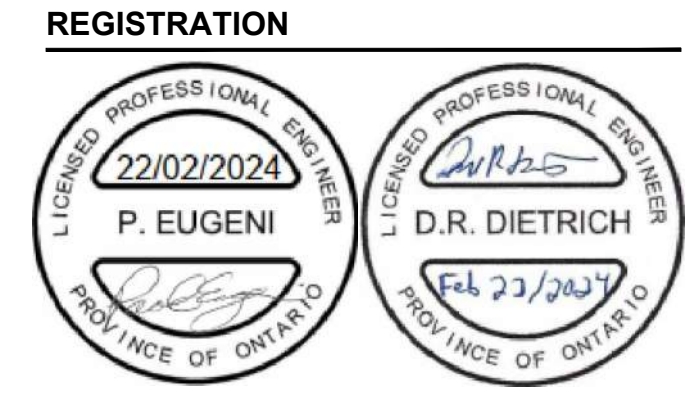
**CLIENT**

The Corporation of the  
**City of Windsor**

350 City Hall Square West  
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519.255.2489 tel 519.256.3311 fax  
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**KEY PLAN**

**PROJECT NUMBER**

60635207

**SHEET TITLE**

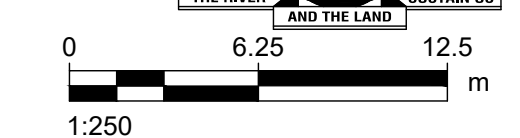
DEMOLITION  
SUNSET AVE - 0+480 TO END  
AND UNION ST

**SHEET NUMBER**

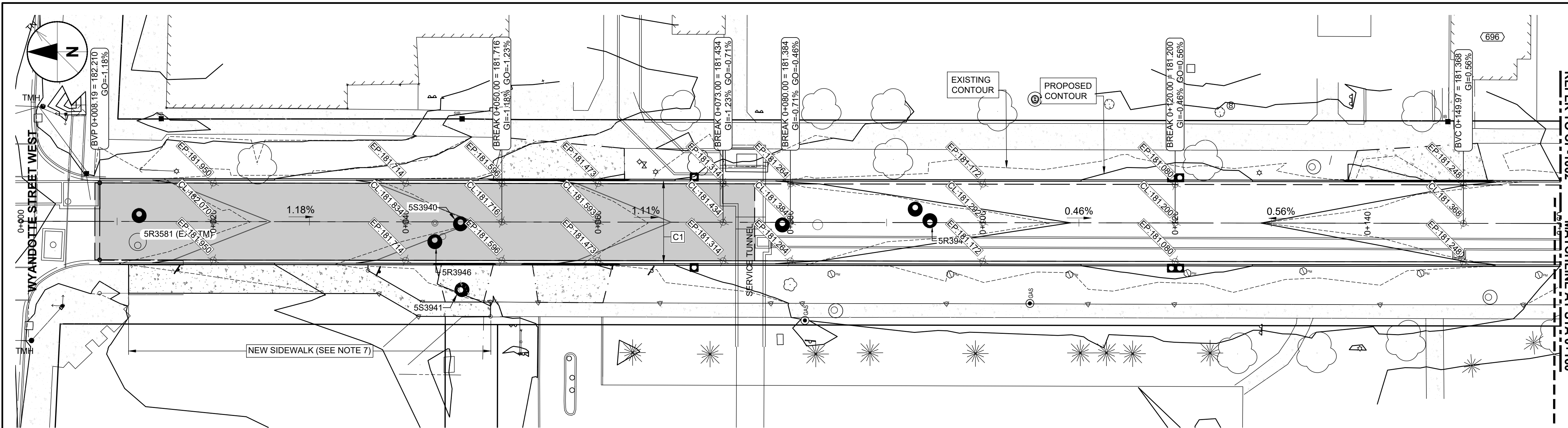
CD-1002

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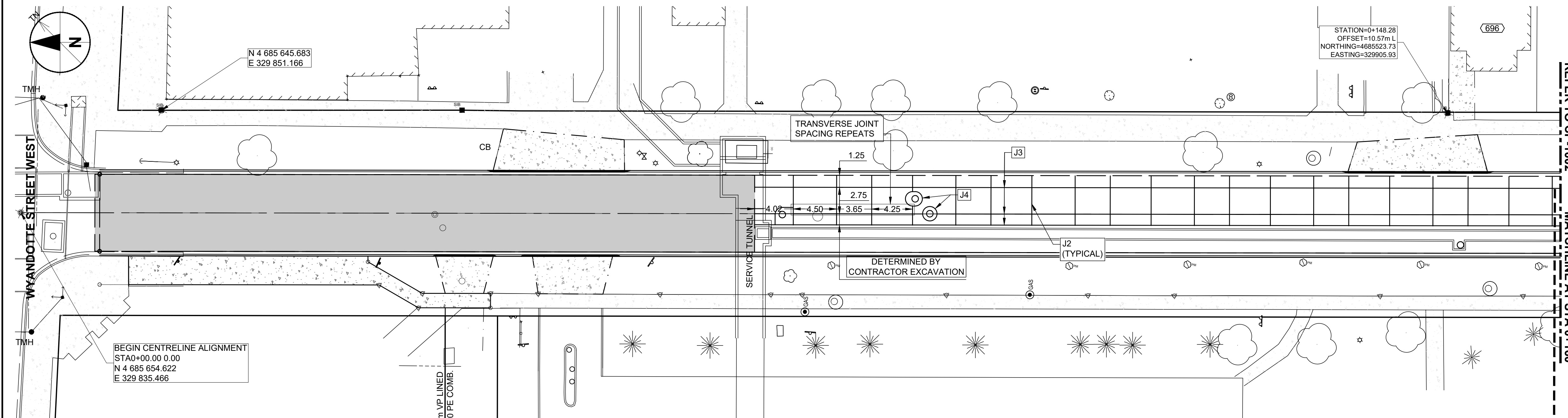
**TENDER SET SIGNED BY**  
MARK WINTERTON, P. ENG.  
COMMISSIONER  
INFRASTRUCTURE SERVICES



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PROPOSED GRADING



CONCRETE JOINTS

**GENERAL SHEET NOTES**

1. PAVEMENT STRUCTURES: REFER TO CP-3001.
2. VERTICAL AND HORIZONTAL LAYOUT INFORMATION: REFER TO CN-6001.
3. ADDITIONAL GRADING INFORMATION SHOWN ON CN-6001.
4. CONNECT TO EXISTING PAVEMENTS PER CITY OF WINDSOR AS-554A & AS-554B.
5. CURB RADII REFER TO EDGE OF PAVEMENT.
6. CATCH BASINS
  - 6.1. BOX OUTS: CITY OF WINDSOR AS-546
7. SIDEWALKS
  - 7.1. PER CITY OF WINDSOR AS-401 (RESIDENTIAL) OR AS-403 (COMMERCIAL).
  - 7.2. 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.
  - 7.3. WHEELCHAIR RAMPS: CITY OF WINDSOR AS-402 (RESIDENTIAL), AS-404 (COMMERCIAL) OR AS DIRECTED BY CITY ENGINEER.

**SHEET KEYNOTES**

- C1: CITY OF WINDSOR AS-208 CURB  
 J1: CITY OF WINDSOR AS-211 TRAVERSE EXPANSION JOINT  
 J2: CITY OF WINDSOR AS-211 TRAVERSE CONTRACTION JOINT  
 J3: CITY OF WINDSOR AS-211 LONGITUDINAL JOINT  
 J4: CITY OF WINDSOR AS-211 CATCH BASIN, MAINTENANCE HOLE AND UTILITY VALVE BOX-OUT

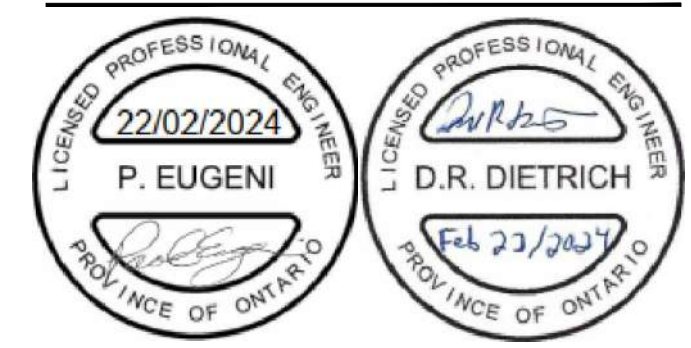


**PROJECT**  
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**REGISTRATION**

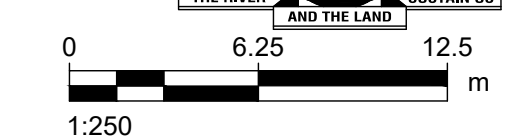


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**TENDER SET SIGNED BY**  
 MARK WINTERTON, P. ENG.  
 COMMISSIONER  
 INFRASTRUCTURE SERVICES



**KEY PLAN**

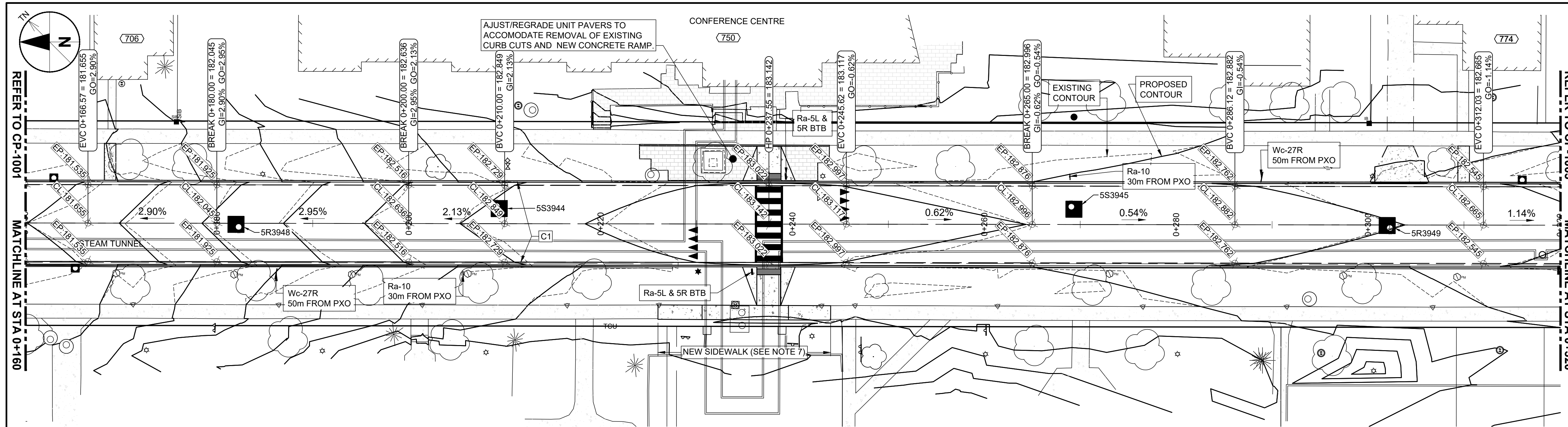
**PROJECT NUMBER**  
 60635207

**SHEET TITLE**  
 PAVING AND GRADING  
 SUNSET AVENUE  
 0+000 TO 0+160

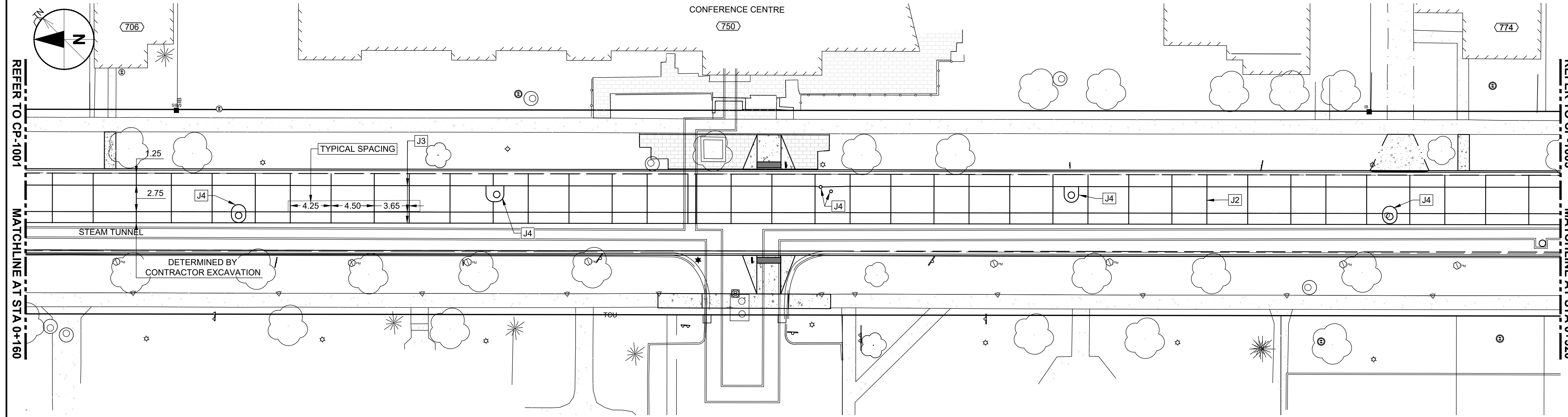
**SHEET NUMBER**  
 CP-1001

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**PROPOSED GRADING**



**CONCRETE JOINTS**

**GENERAL SHEET NOTES**

- PAVEMENT STRUCTURES: REFER TO CP-3001.
- VERTICAL AND HORIZONTAL LAYOUT INFORMATION: REFER TO CN-6001.
- ADDITIONAL GRADING INFORMATION SHOWN ON CN-6001.
- CONNECT TO EXISTING PAVEMENTS PER CITY OF WINDSOR AS-554A & AS-554B.
- CURB RADIUS REFER TO EDGE OF PAVEMENT.
- CATCH BASINS
  - BOX OUTS: CITY OF WINDSOR AS-546
  - SIDEWALKS
    - PER CITY OF WINDSOR AS-401 (RESIDENTIAL) OR AS-403 (COMMERCIAL).
    - 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.
    - WHEELCHAIR RAMPS: CITY OF WINDSOR AS-402 (RESIDENTIAL), AS-404 (COMMERCIAL) OR AS DIRECTED BY CITY ENGINEER.

**SHEET KEYNOTES**

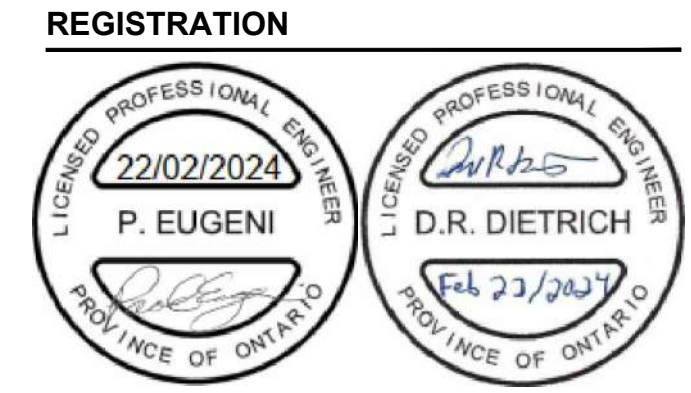
- C1: CITY OF WINDSOR AS-208 CURB
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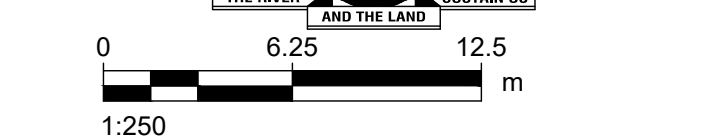
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**KEY PLAN**

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

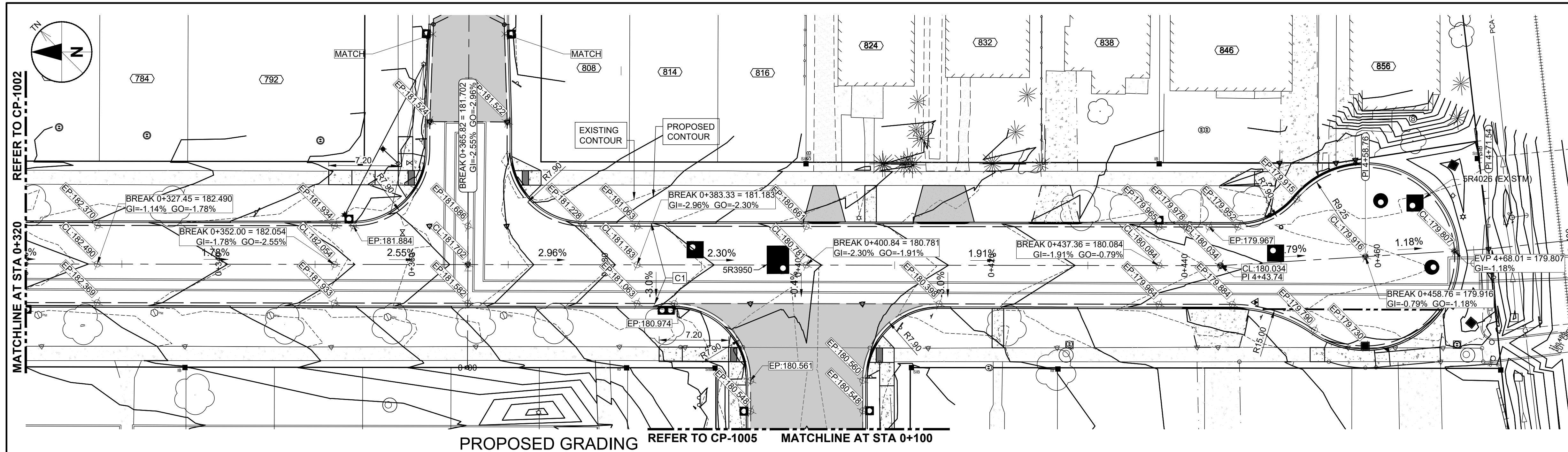


**PROJECT NUMBER**  
 60635207

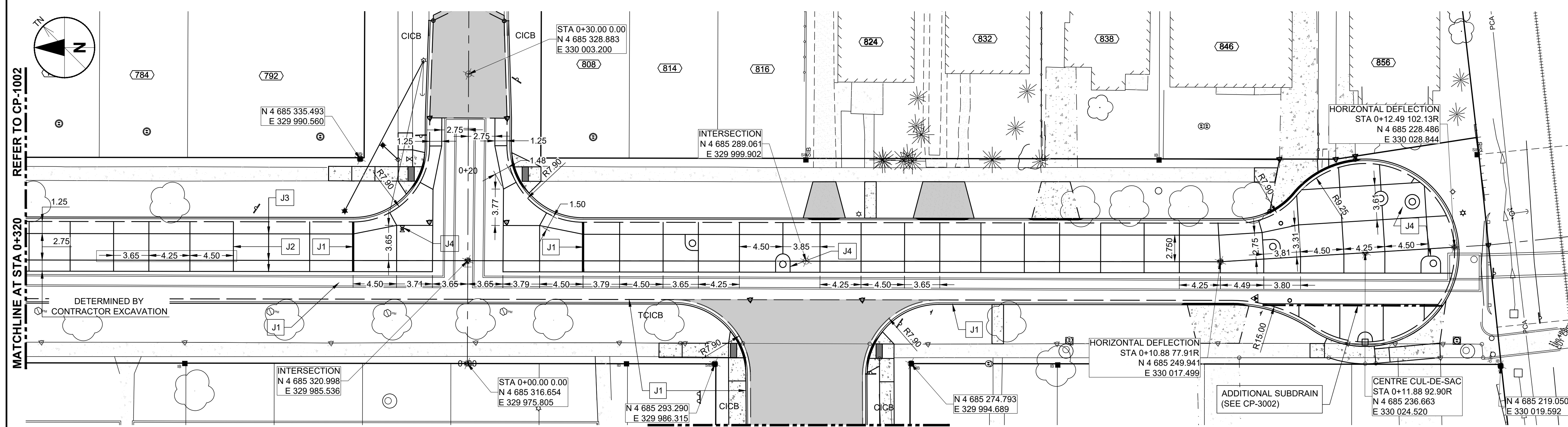
**SHEET TITLE**  
 PAVING & GRADING  
 SUNSET AVENUE  
 0+160 TO 0+320

**SHEET NUMBER**  
 CP-1002

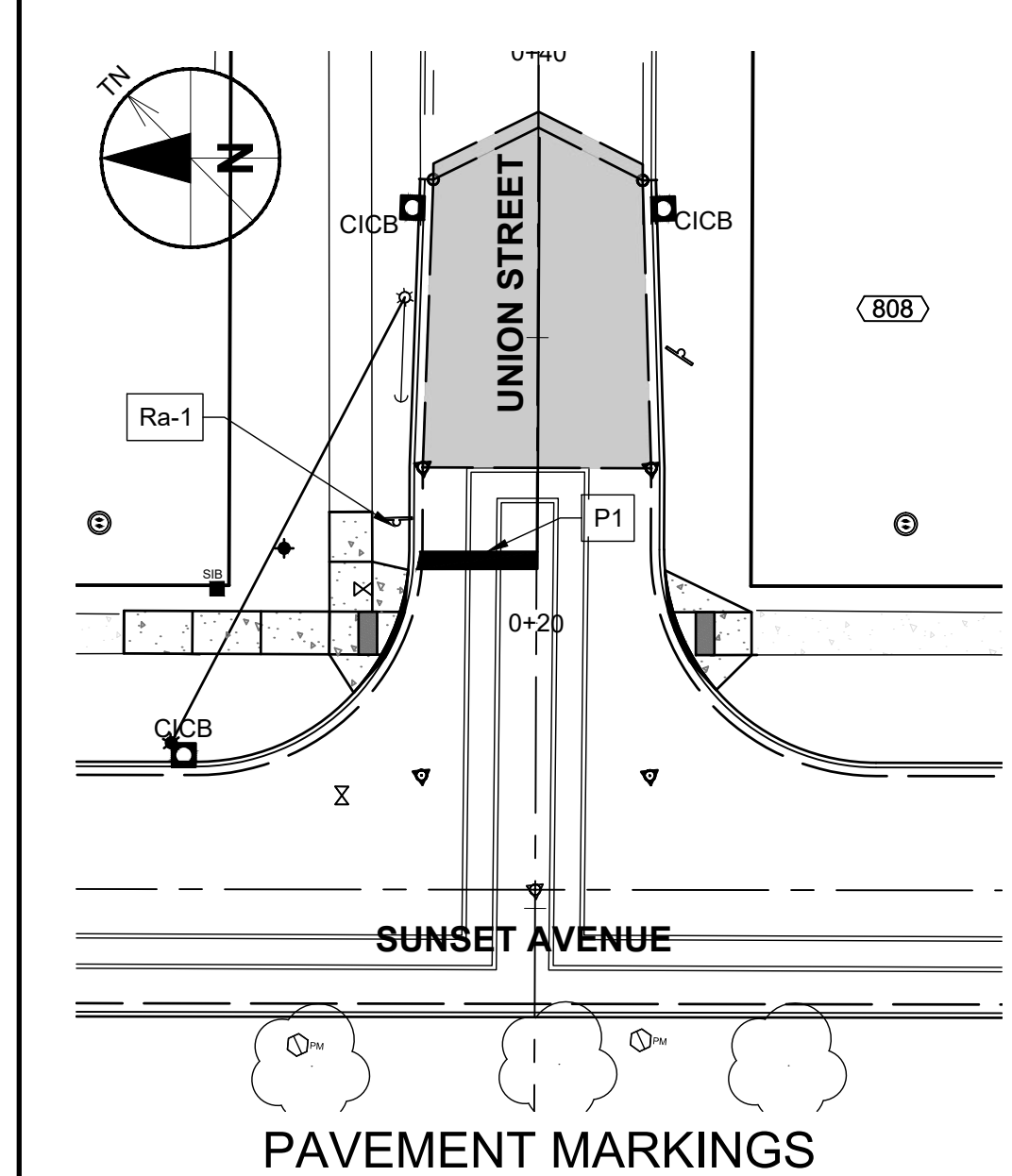
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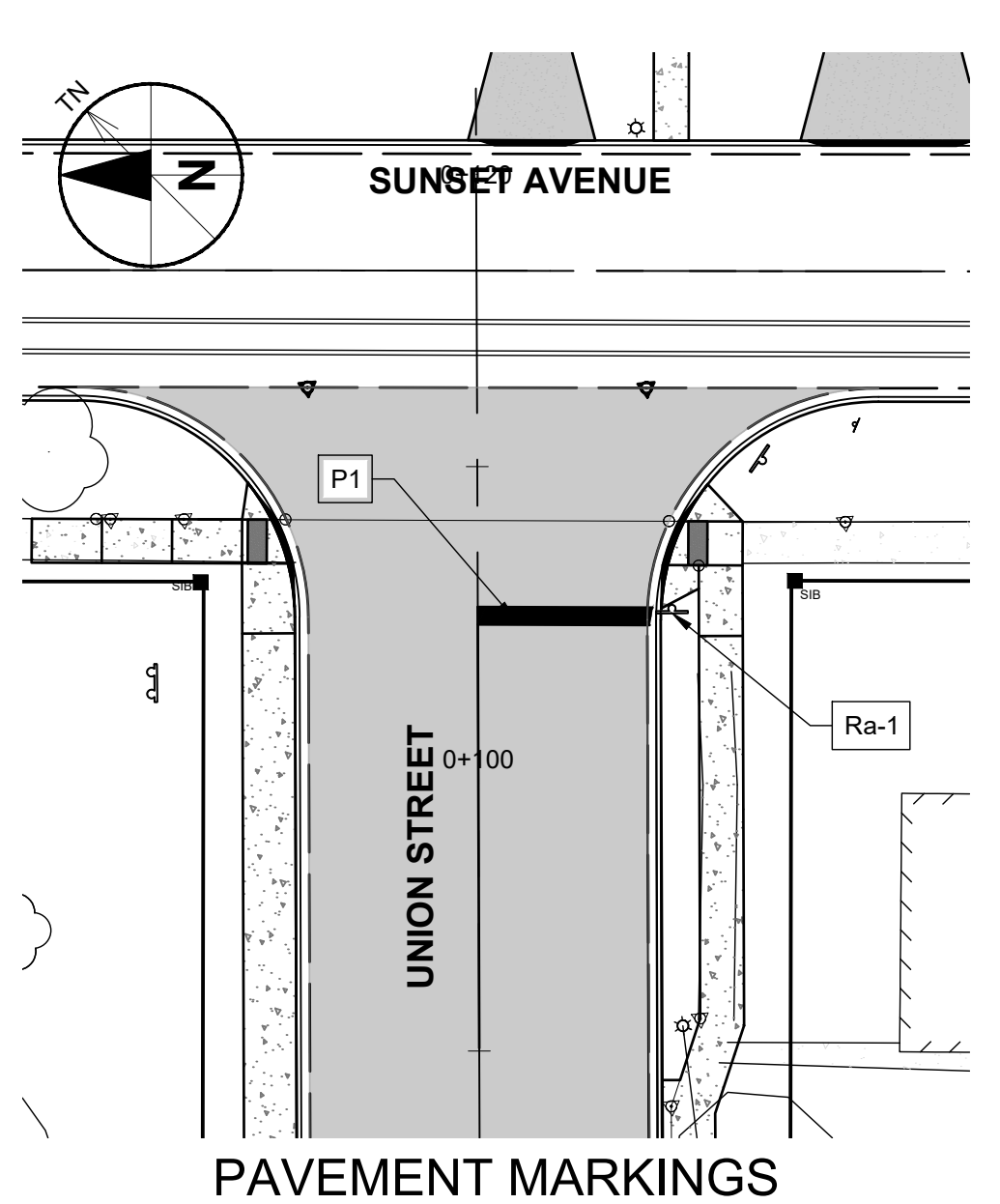
PROPOSED GRADING REFER TO CP-1005 MATCHLINE AT STA 0+100



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



PAVEMENT MARKINGS



PAVEMENT MARKINGS

**GENERAL SHEET NOTES**

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- VERTICAL AND HORIZONTAL LAYOUT INFORMATION: REFER TO CN-6001.
- ADDITIONAL GRADING INFORMATION SHOWN ON CN-6001.
- CONNECT TO EXISTING PAVEMENTS PER CITY OF WINDSOR AS-554A & AS-554B.
- CURB RADII REFER TO EDGE OF PAVEMENT.
- CATCH BASINS
  - BOX OUTS: CITY OF WINDSOR AS-546
  - SIDEWALKS
    - PER CITY OF WINDSOR AS-401 (RESIDENTIAL) OR AS-403 (COMMERCIAL).
    - 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.
    - WHEELCHAIR RAMPS: CITY OF WINDSOR AS-402 (RESIDENTIAL), AS-404 (COMMERCIAL) OR AS DIRECTED BY CITY ENGINEER.

**SHEET KEYNOTES**

- C1: CITY OF WINDSOR AS-208 CURB  
 J1: CITY OF WINDSOR AS-211 TRAVERSE EXPANSION JOINT  
 J2: CITY OF WINDSOR AS-211 TRAVERSE CONTRACTION JOINT  
 J3: CITY OF WINDSOR AS-211 LONGITUDINAL JOINT  
 J4: CITY OF WINDSOR AS-211 CATCH BASIN, MAINTENANCE HOLE AND UTILITY VALVE BOX-OUT  
 P1: 0.60m STOP BAR AND 30m YELLOW CENTRELINE MARKING

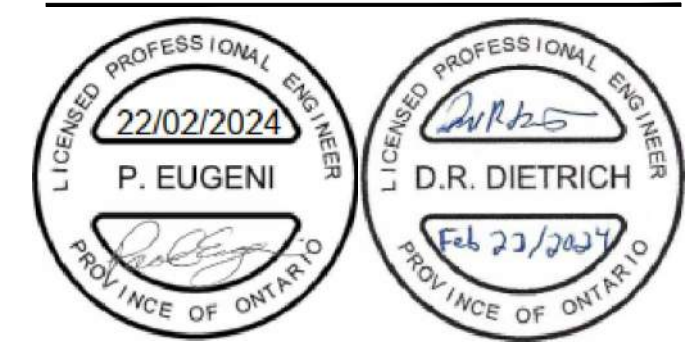


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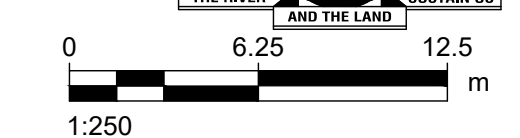
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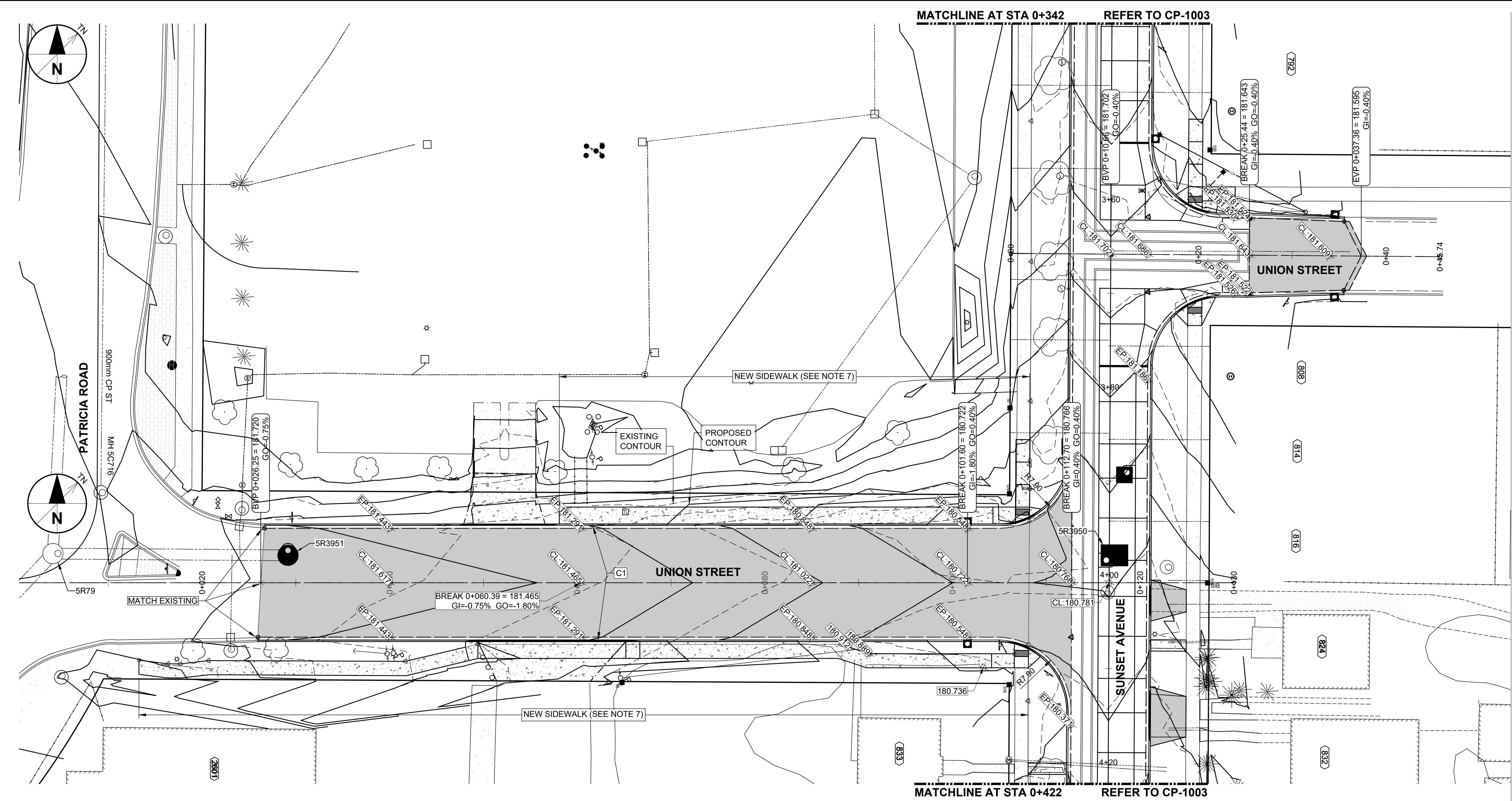
**SHEET TITLE**  
 PAVING & GRADING  
 SUNSET AVE  
 0+320 TO 0+480

**SHEET NUMBER**  
 CP-1003

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  
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**GENERAL SHEET NOTES**

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- 7.2. 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 KEYNOTES**

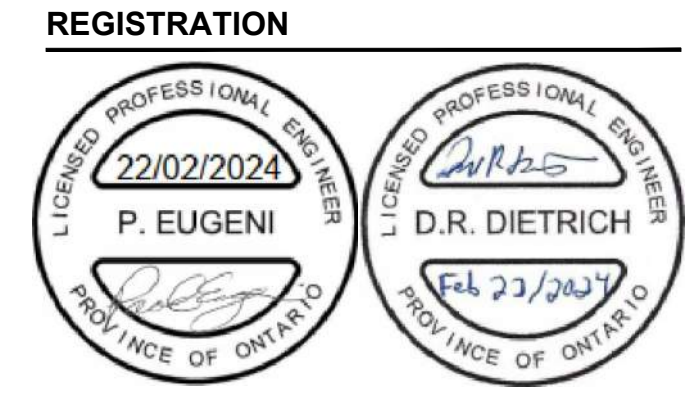
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- J3: CITY OF WINDSOR AS-211 LONGITUDINAL JOINT
- J4: CITY OF WINDSOR AS-211 CATCH BASIN, MAINTENANCE HOLE AND UTILITY VALVE BOX-OUT
- P1: 0.60m STOP BAR AND 30m YELLOW CENTRELINE MARKING



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B	2020-08-07	Issued for City Review
I/R	DATE	DESCRIPTION

**KEY PLAN**

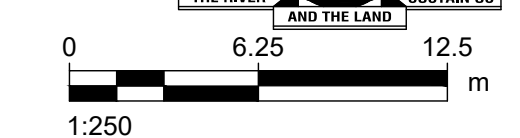
**PROJECT NUMBER**  
 60635207

**SHEET TITLE**  
 PAVING & GRADING  
 UNION ST

**SHEET NUMBER**  
 CP-1004

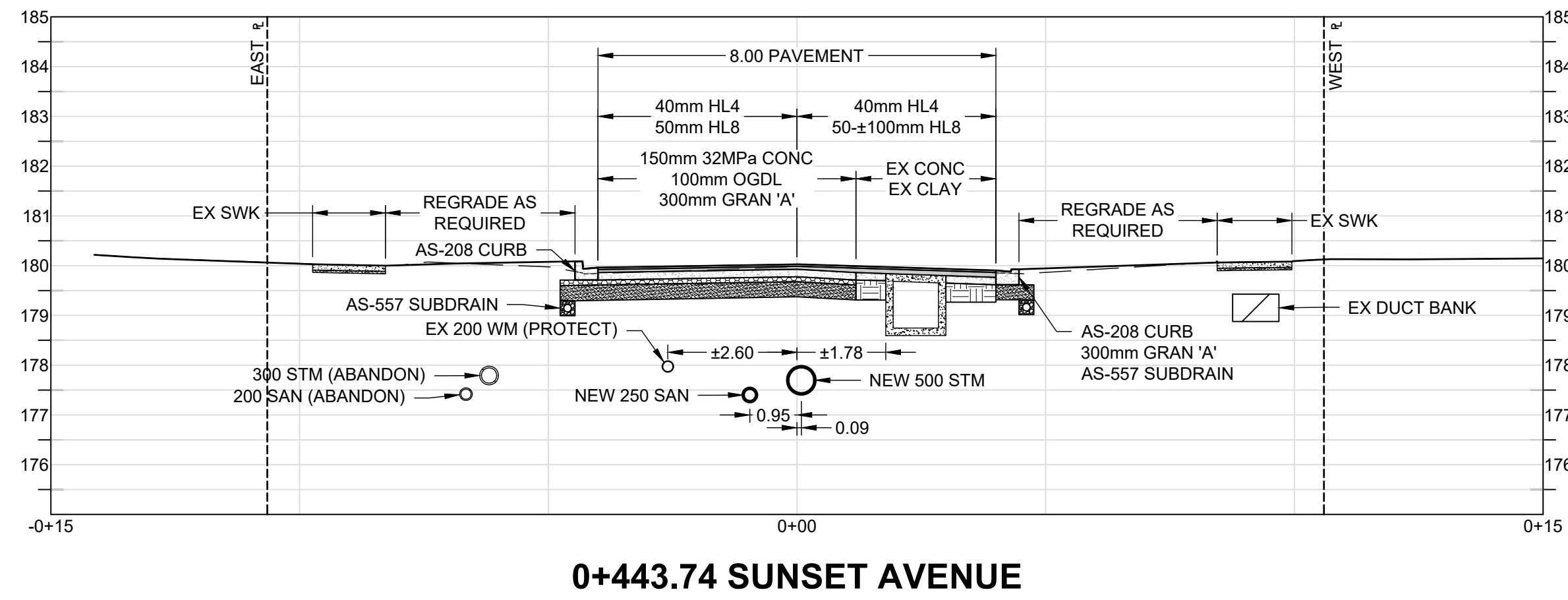
APPROVED AS TO FORM, IN RELIANCE UPON THE PROFESSIONAL SKILL AND ABILITY OF AECOM AS TO DESIGN AND SPECIFICATION.

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

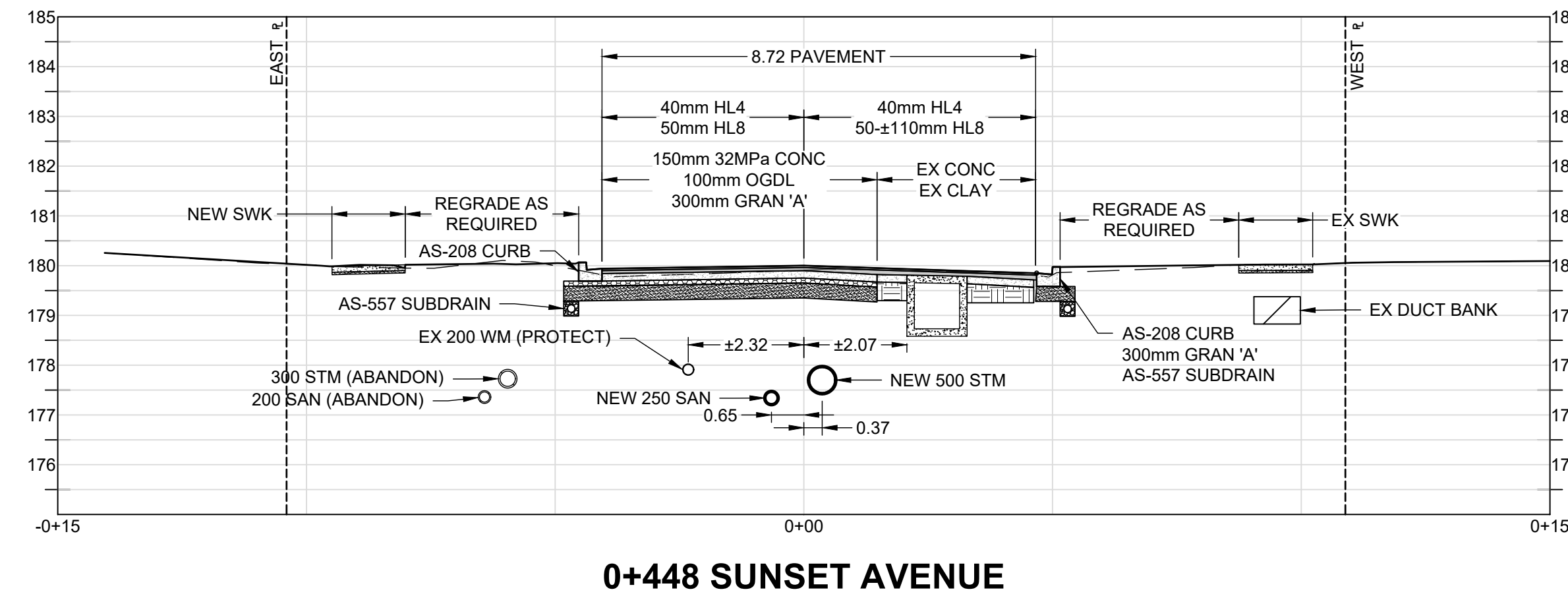


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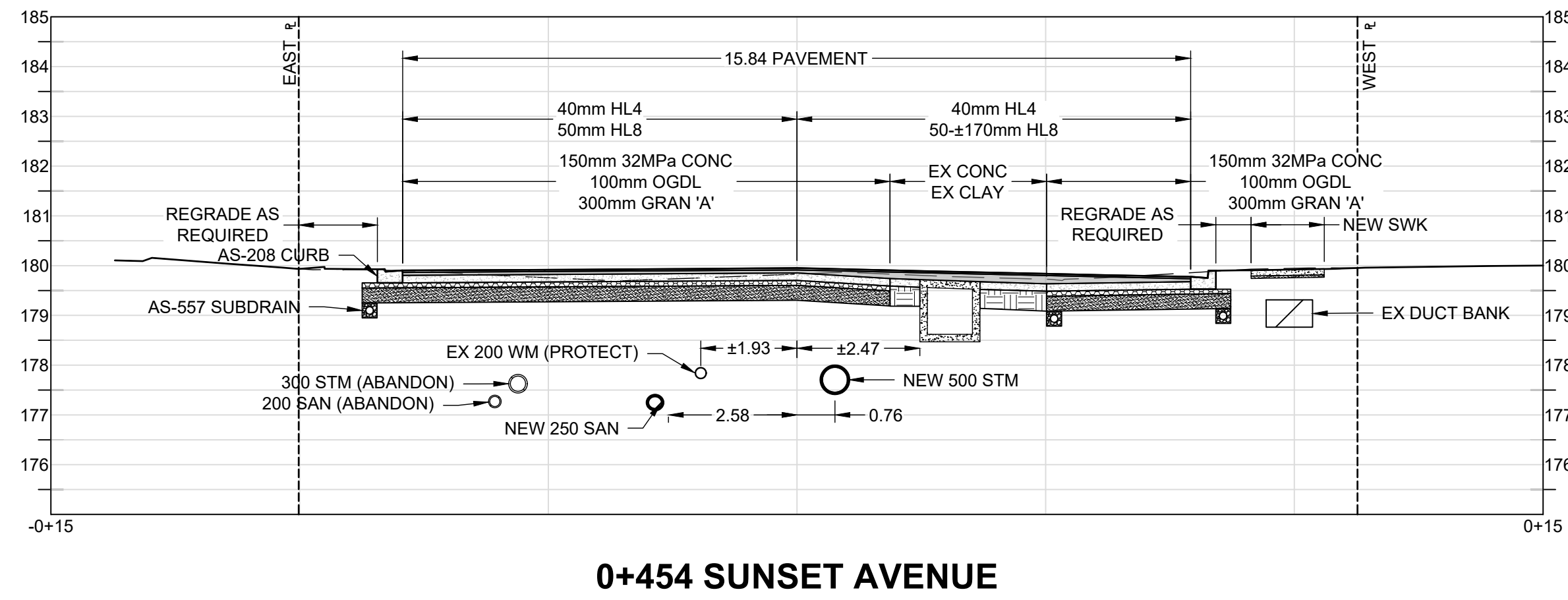




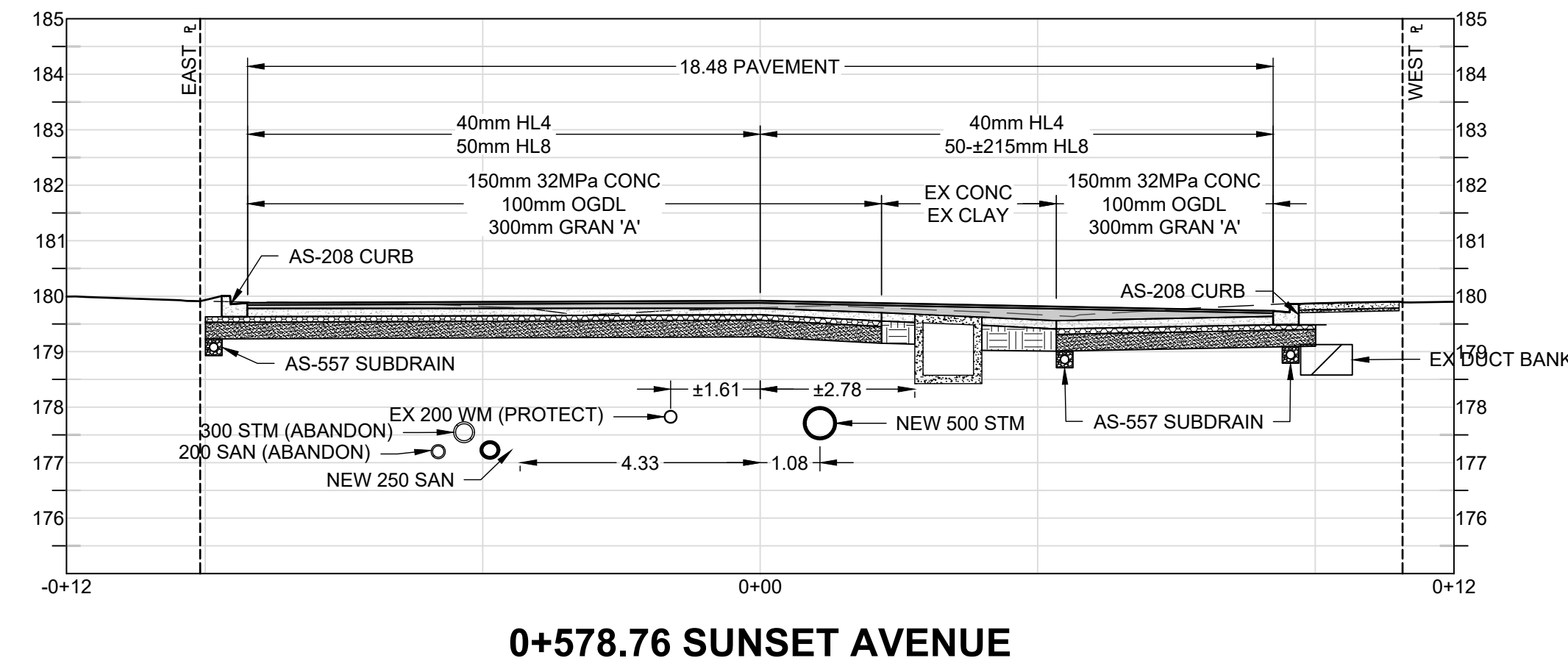
0+443.74 SUNSET AVENUE



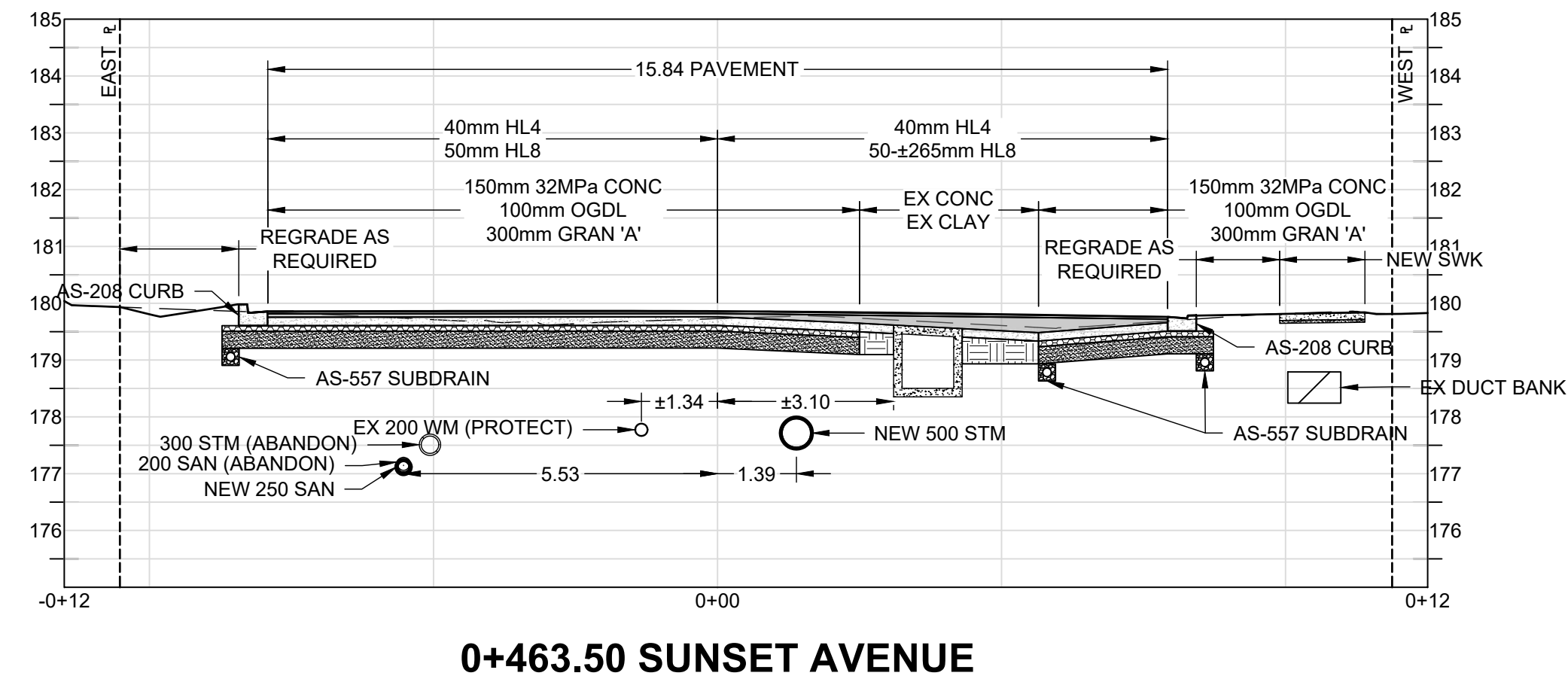
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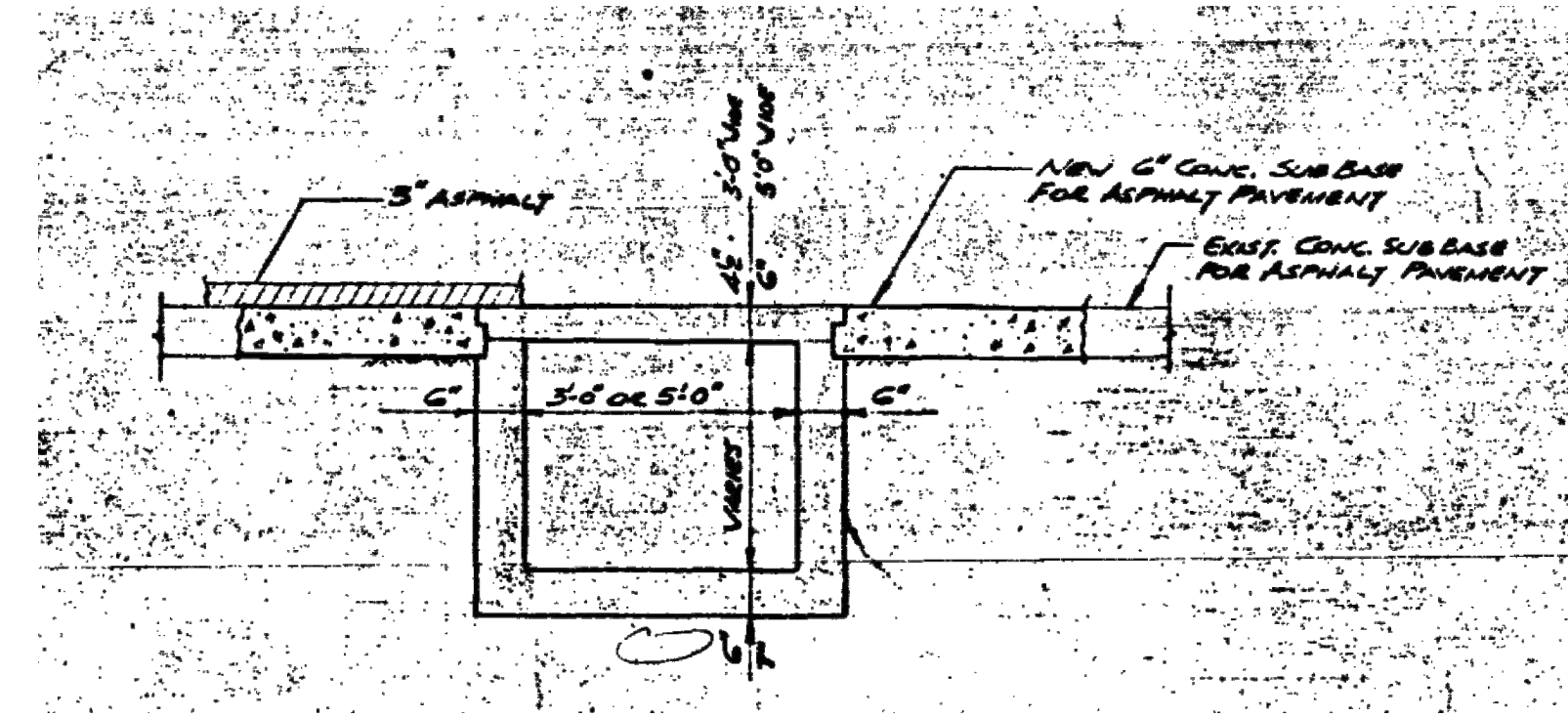
0+454 SUNSET AVENUE



0+578.76 SUNSET AVENUE



0+463.50 SUNSET AVENUE



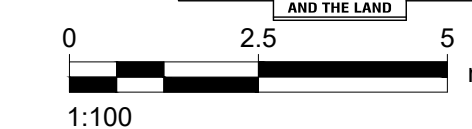
TYPICAL SECTION THROUGH STEAM TUNNEL (N.T.S.)

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.citywindsor.ca

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AECOM Canada Ltd.  
Citi Plaza, 250 York Street, Suite 410  
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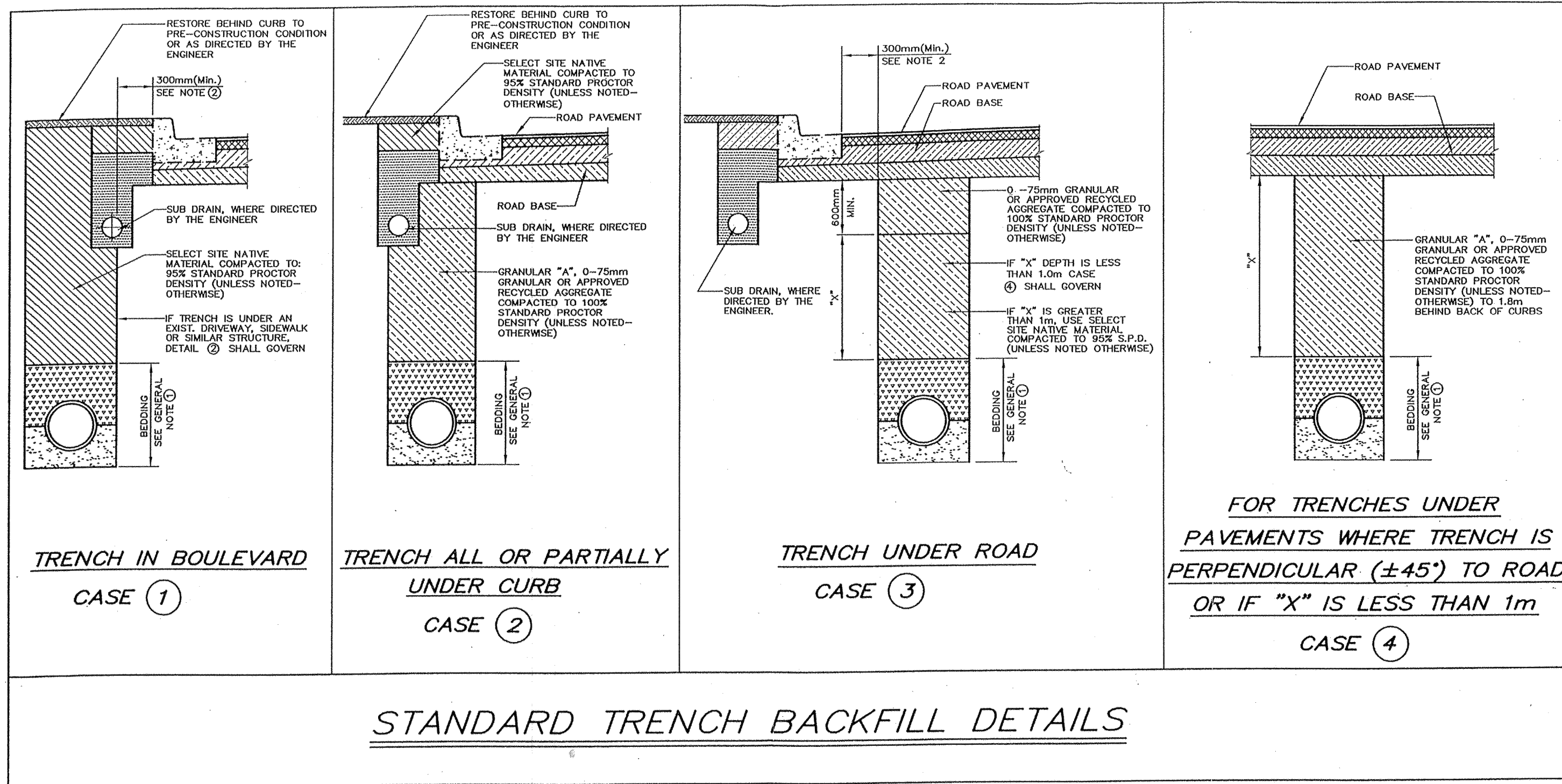
60635207

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**

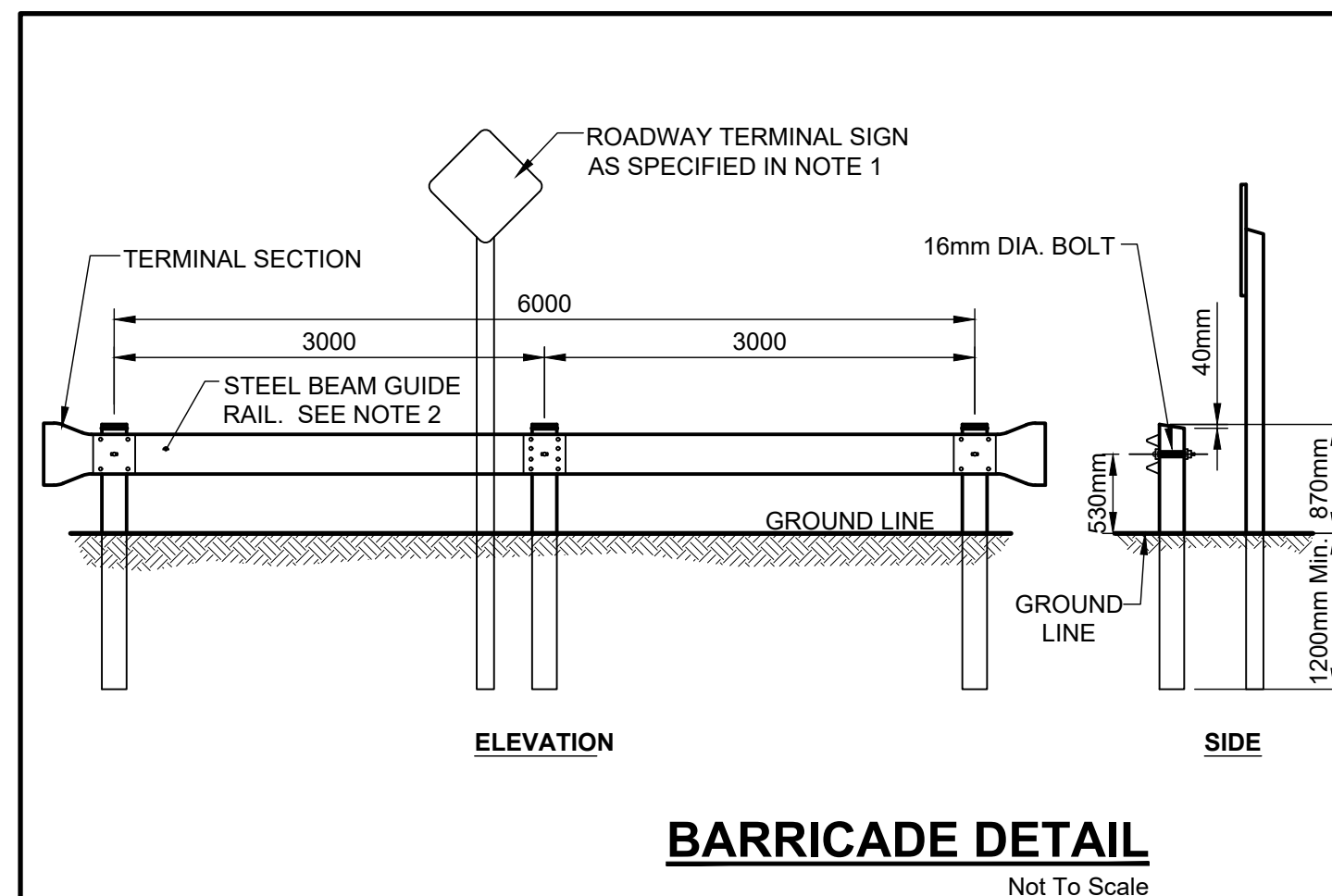
DR'N BY: R.C. DATE: OCTOBER, 2002  
REVISION: CH'KD BY: \_\_\_\_\_  
CH'KD BY: P.J.U. PASSED BY: \_\_\_\_\_

COMMISSIONER OF WORKS AS-536

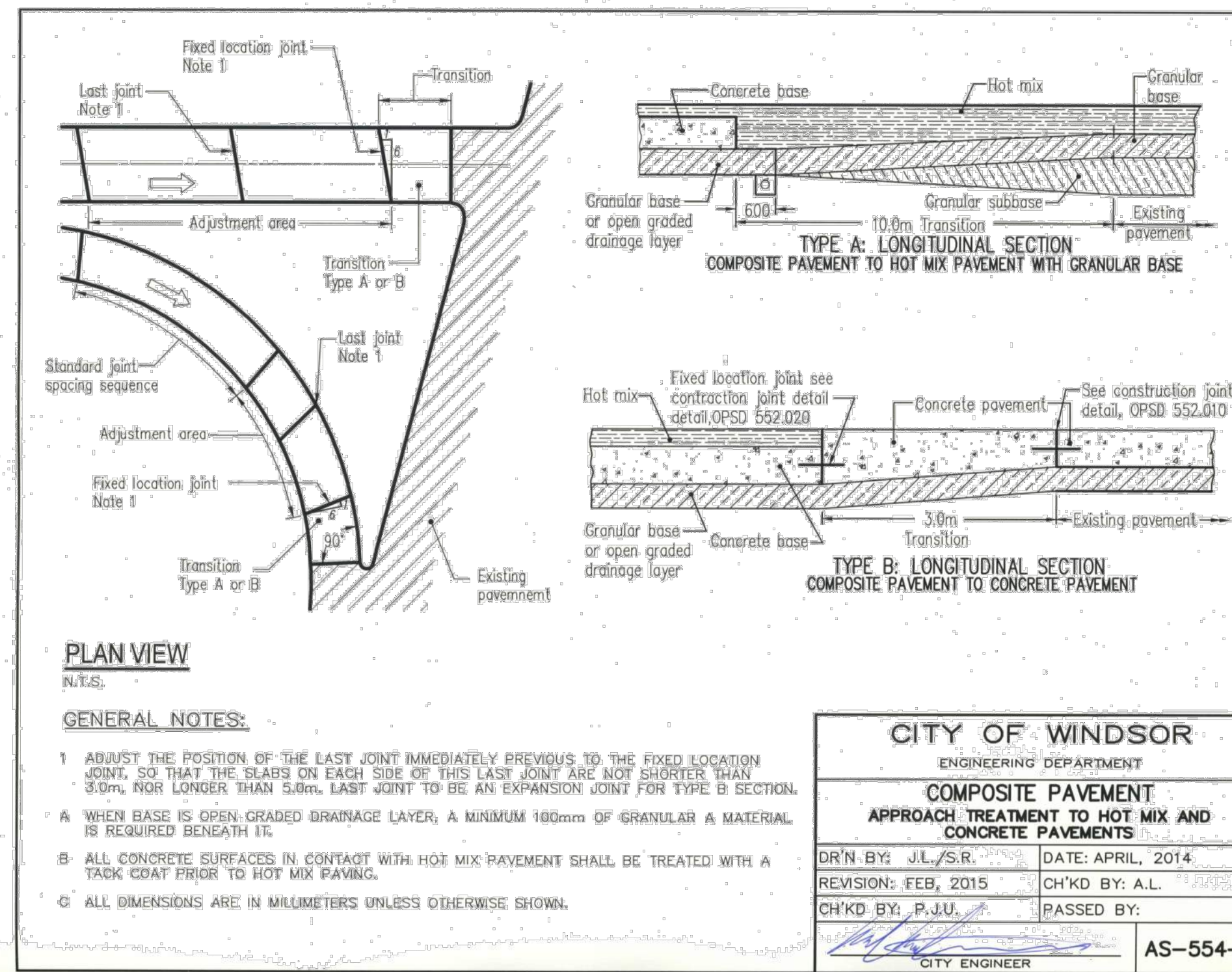
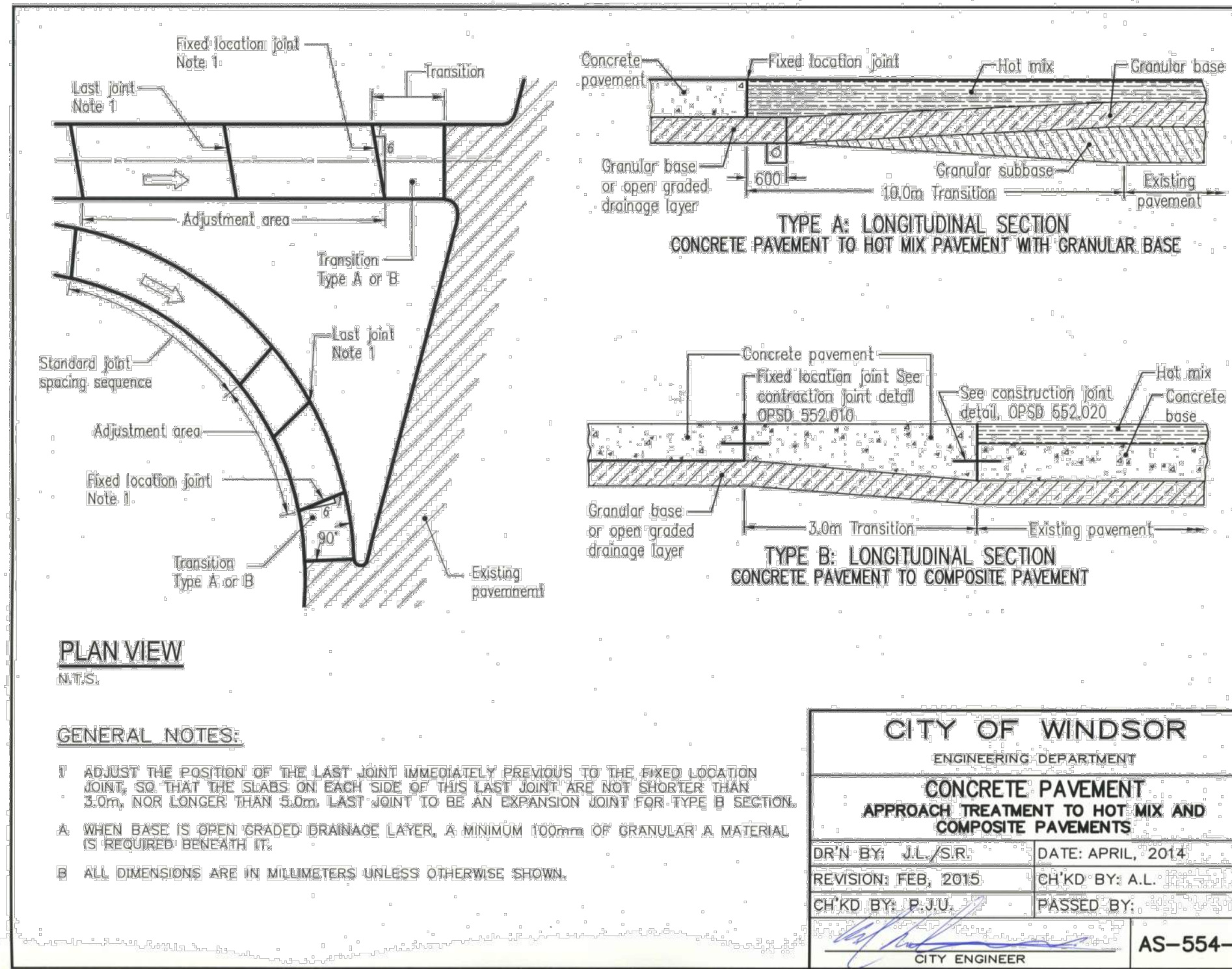
MATERIAL	RESIDENTIAL		COMMERCIAL	
	WITHIN R.O.W.	WITHIN PRIVATE LANDS	WITHIN R.O.W.	WITHIN PRIVATE LANDS
ASPHALT DRIVEWAY	75mm OF HL4 ASPHALT 225mm GRANULAR 'A' IN ACCORDANCE TO AS-221	75mm OF HL4 ASPHALT 225mm GRANULAR 'A' IN ACCORDANCE TO AS-221	150mm OF HL4 ASPHALT 50mm GRANULAR 'A' IN ACCORDANCE 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 HL8 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  $\pm 1.5$ mm DEPRESSED, TOPS TO HAVE 25mm CHAMFER.
  - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.



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**

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**KEY PLAN**

**PROJECT NUMBER**

60635207

**SHEET TITLE**

PAVING & GRADING DETAILS

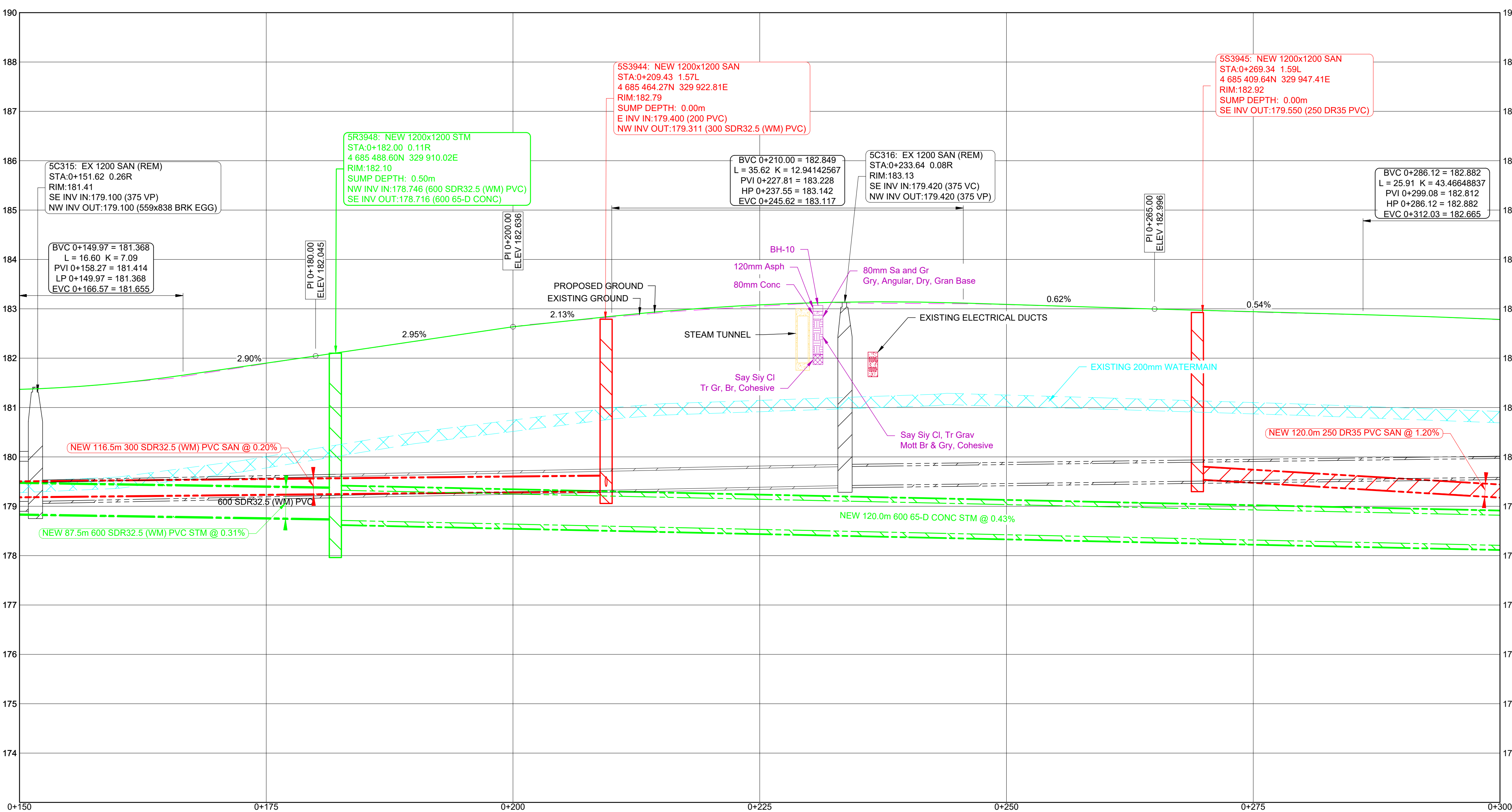
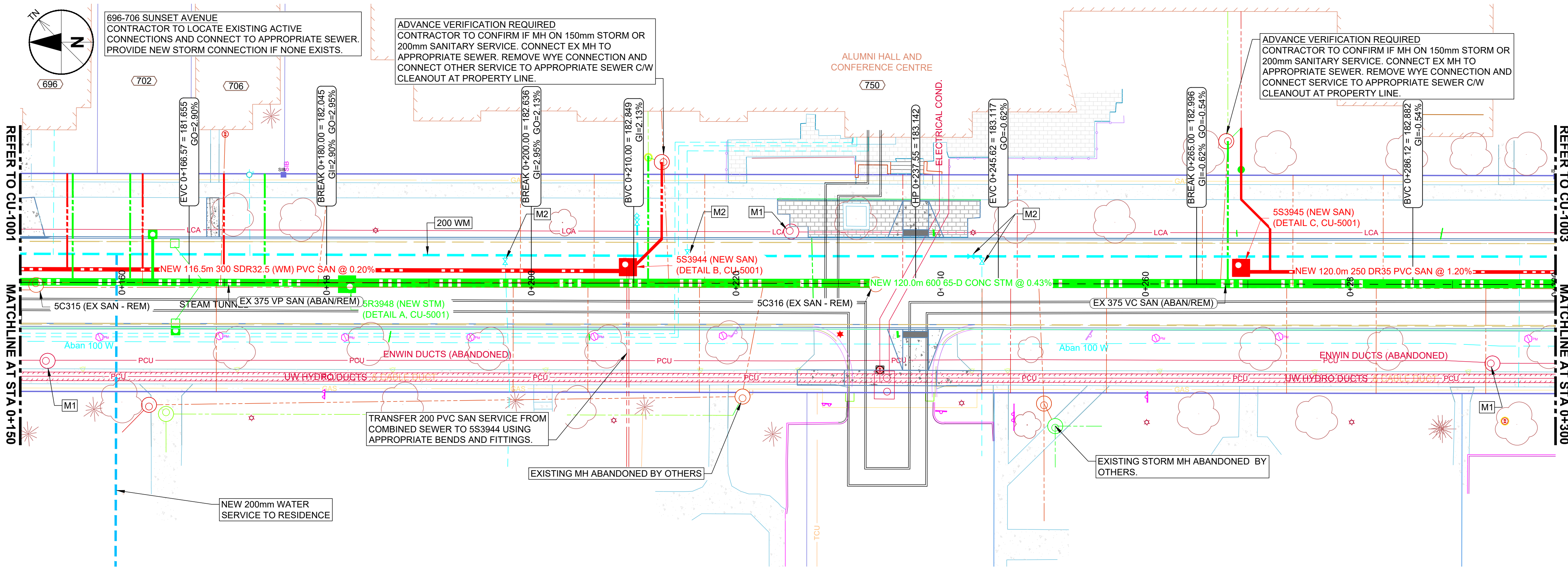
**SHEET NUMBER**

CP-5001









**GENERAL SHEET NOTES**

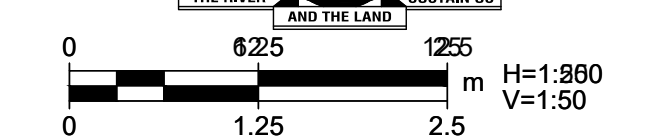
- GENERAL
  - ENSURE NO DEBRIS ENTERS EXISTING SEWERS AND NO WATER ENTERS EXISTING SANITARY SEWERS DURING THE WORK.
  - NOTIFY LOCAL AUTHORITIES MINIMUM 24 HOURS PRIOR TO CONNECTING TO EXISTING POTABLE WATER OR SEWER SYSTEMS.
  - NOTIFY LOCAL AUTHORITIES MINIMUM 24 HOURS PRIOR TO ANY FLUSHING OR CLEANING 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

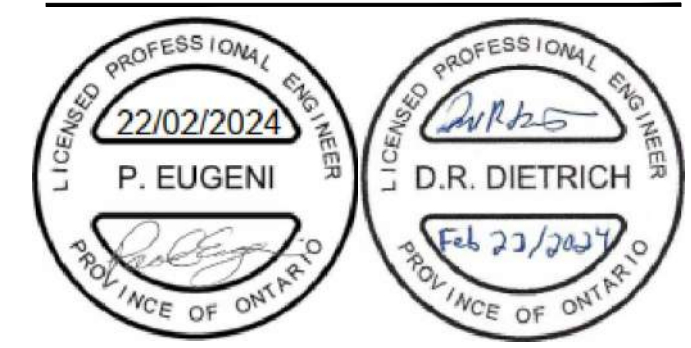


**PROJECT**  
 Sunset Avenue Sewer Separation, Phase 3  
 Sunset Avenue from Wyandotte Street West to College Avenue & Union Street from Patricia Road to Sunset Avenue

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**PROJECT NUMBER**

60635207

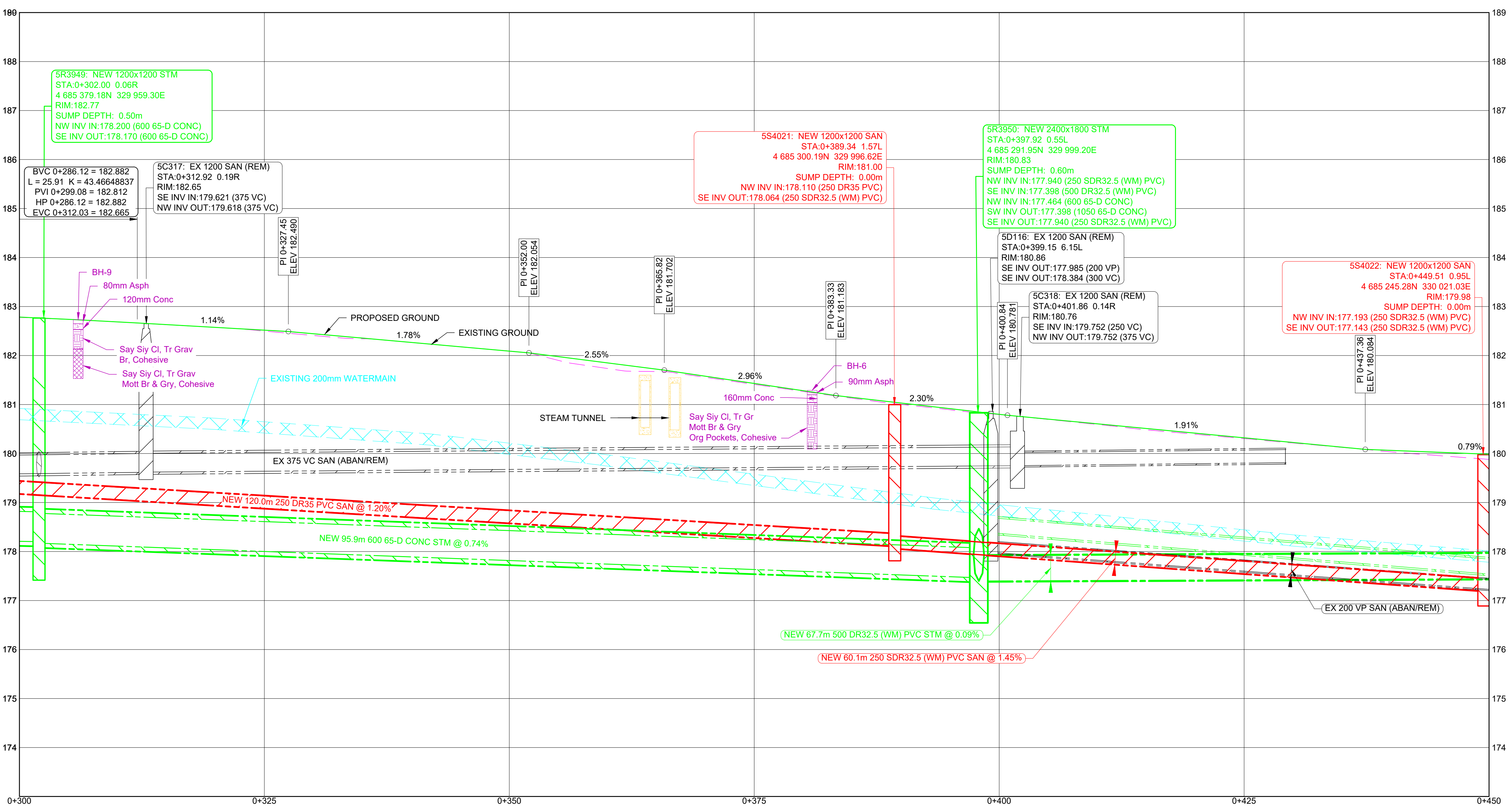
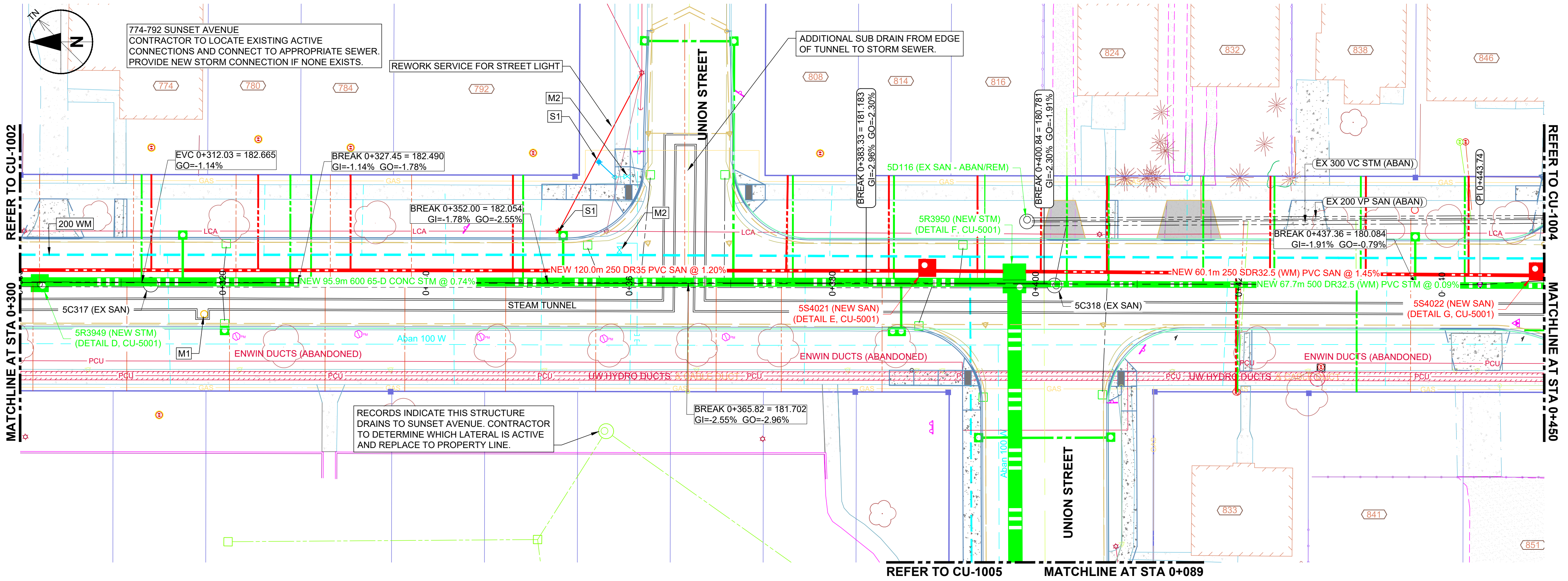
**SHEET TITLE**

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**

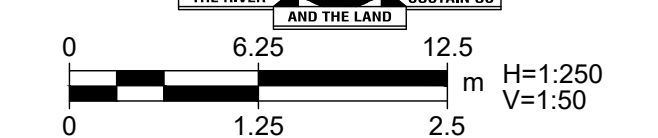
- GENERAL
  - ENSURE NO DEBRIS ENTERS EXISTING SEWERS AND NO WATER ENTERS EXISTING SANITARY SEWERS DURING THE WORK.
  - NOTIFY LOCAL AUTHORITIES MINIMUM 24 HOURS PRIOR TO CONNECTING TO EXISTING POTABLE WATER OR SEWER SYSTEMS.
  - NOTIFY LOCAL AUTHORITIES MINIMUM 24 HOURS PRIOR TO ANY FLUSHING OR CLEANING 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.
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- STORM SEWERS
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  - 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**

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 M2: ADJUST VALVE BOX OR CURB STOP TO NEW GRADE.  
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 S1: INSTALL SALVAGED MATERIAL REMOVED DURING DEMOLITION WORK.

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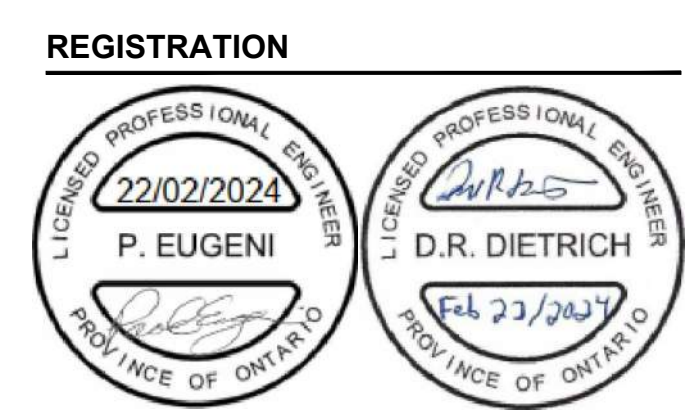
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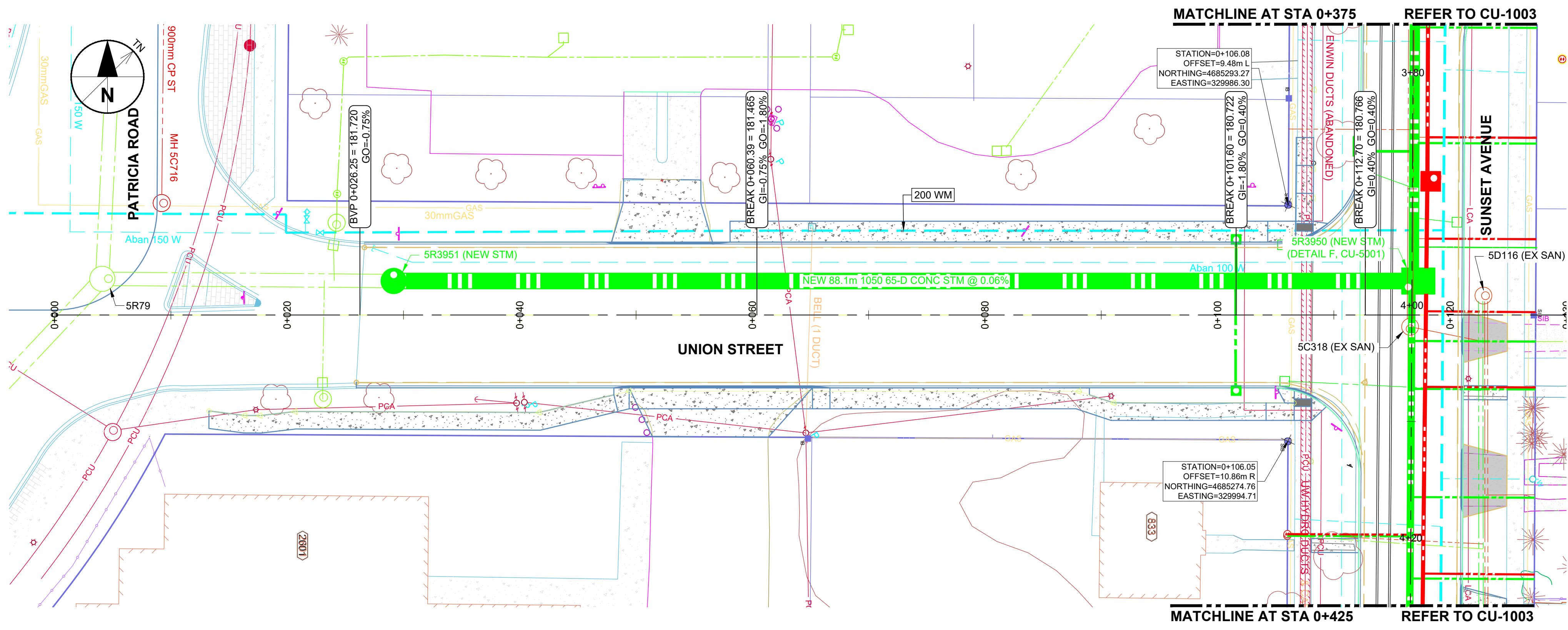
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 UTILITIES  
 SUNSET AVE  
 0+300 TO 0+450

**SHEET NUMBER**  
 CU-1003

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**AECOM**

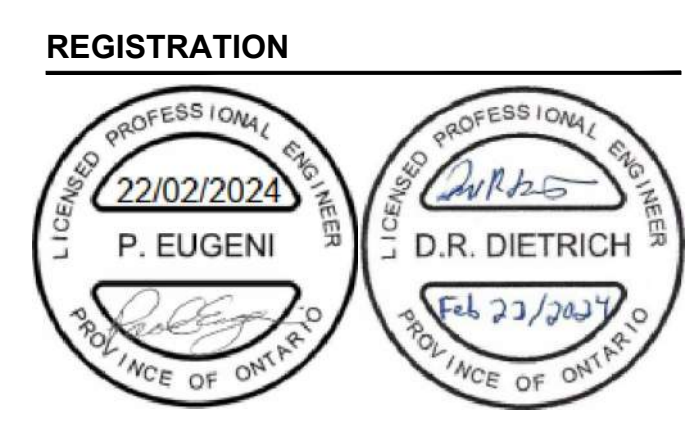
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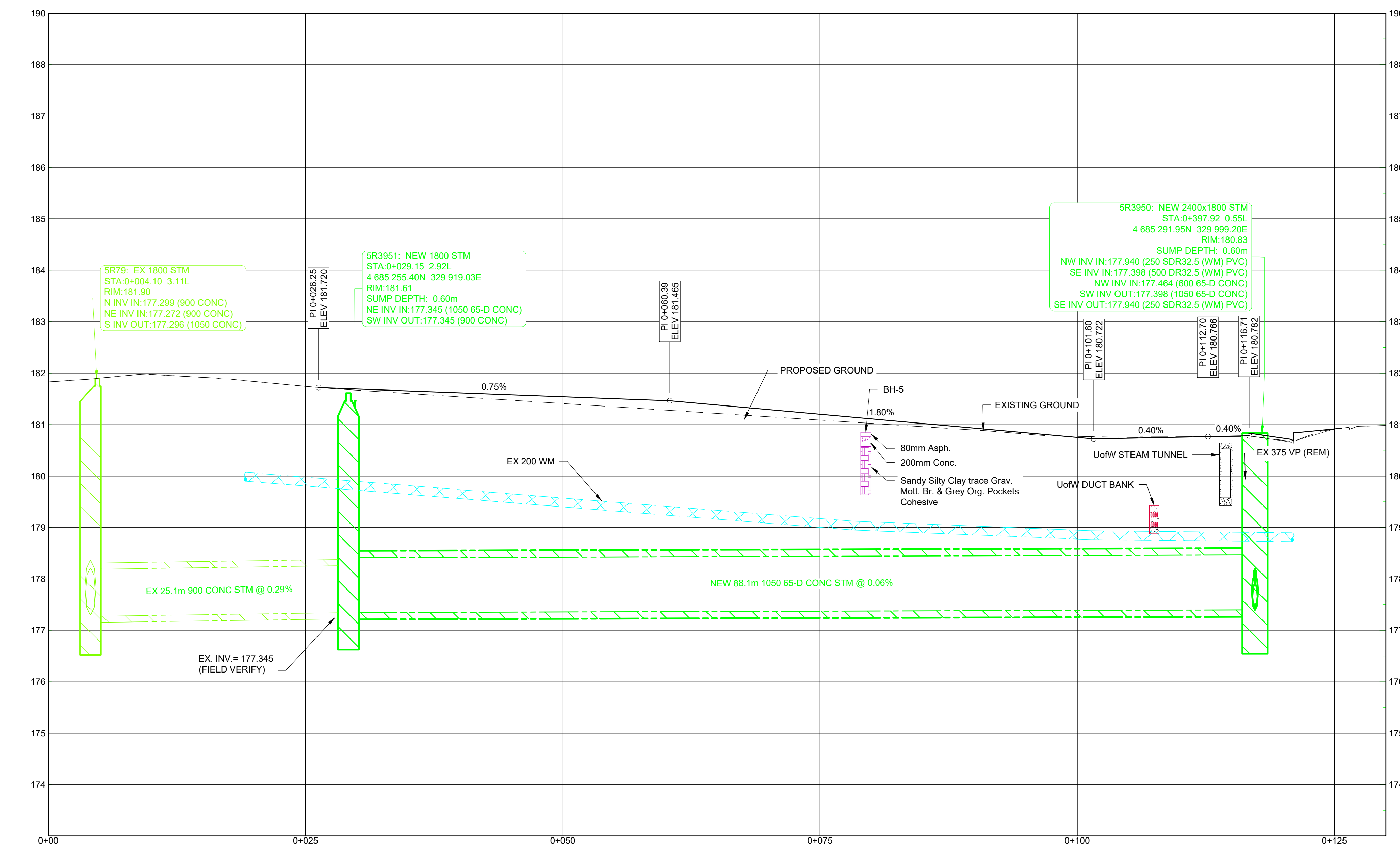
M1: ADJUST/REBUILD MAINTENANCE HOLE, CATCH BASIN, DITCH INLET OR VALVE CHAMBER PER OPSS 408 TO NEW GRADE.  
M2: ADJUST VALVE BOX OR CURB STOP TO NEW GRADE.  
M3: ADJUST FIRE HYDRANT TO NEW GRADE.  
S1: INSTALL SALVAGED MATERIAL REMOVED DURING DEMOLITION WORK.



**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**



**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

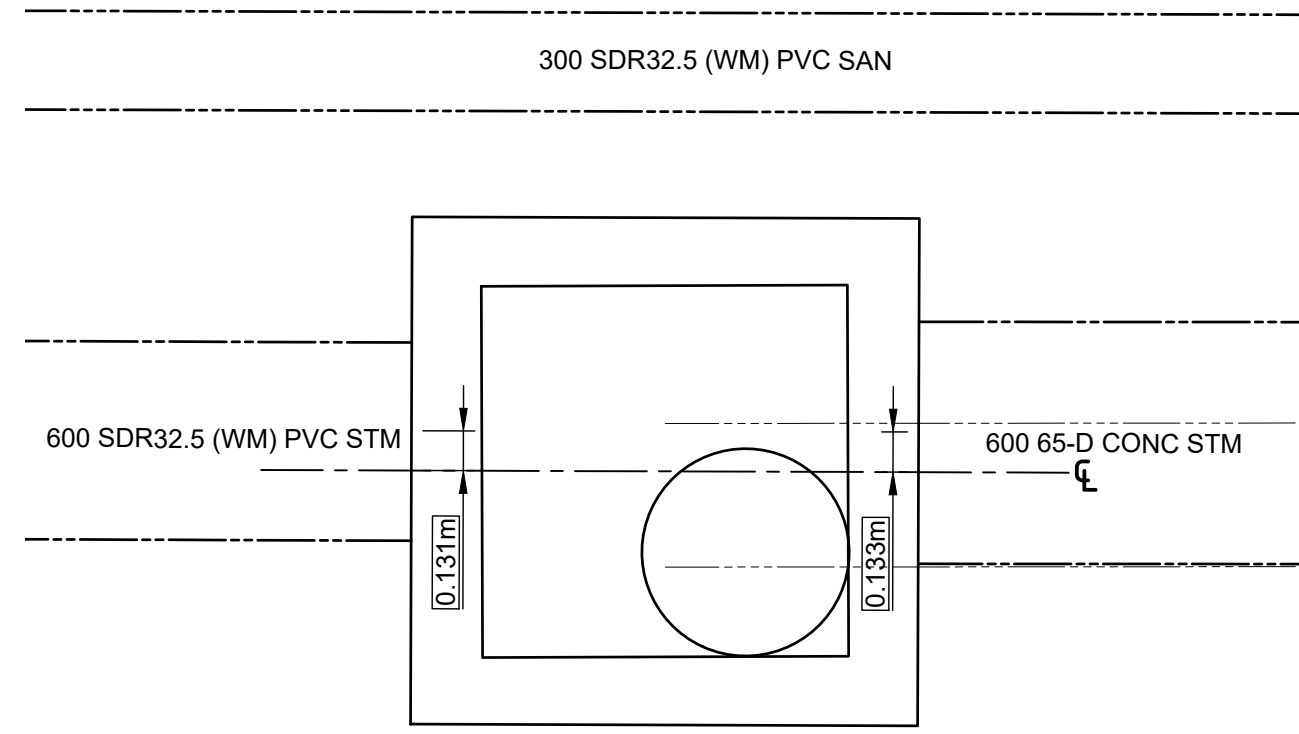
0 6.25 12.5 H=1:250  
0 1.25 2.5 V=1:50

**PROJECT NUMBER**  
60635207

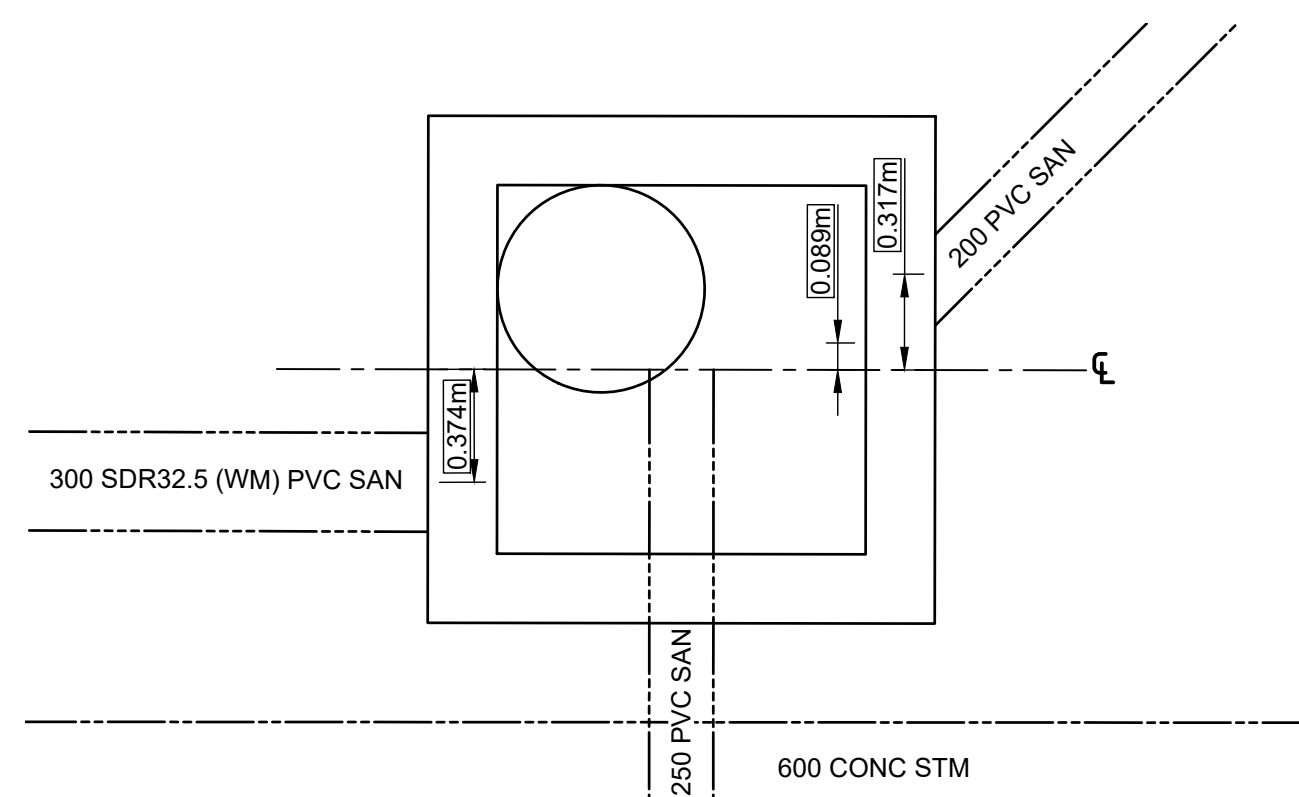
**SHEET TITLE**  
UTILITIES  
UNION ST

**SHEET NUMBER**  
CU-1005

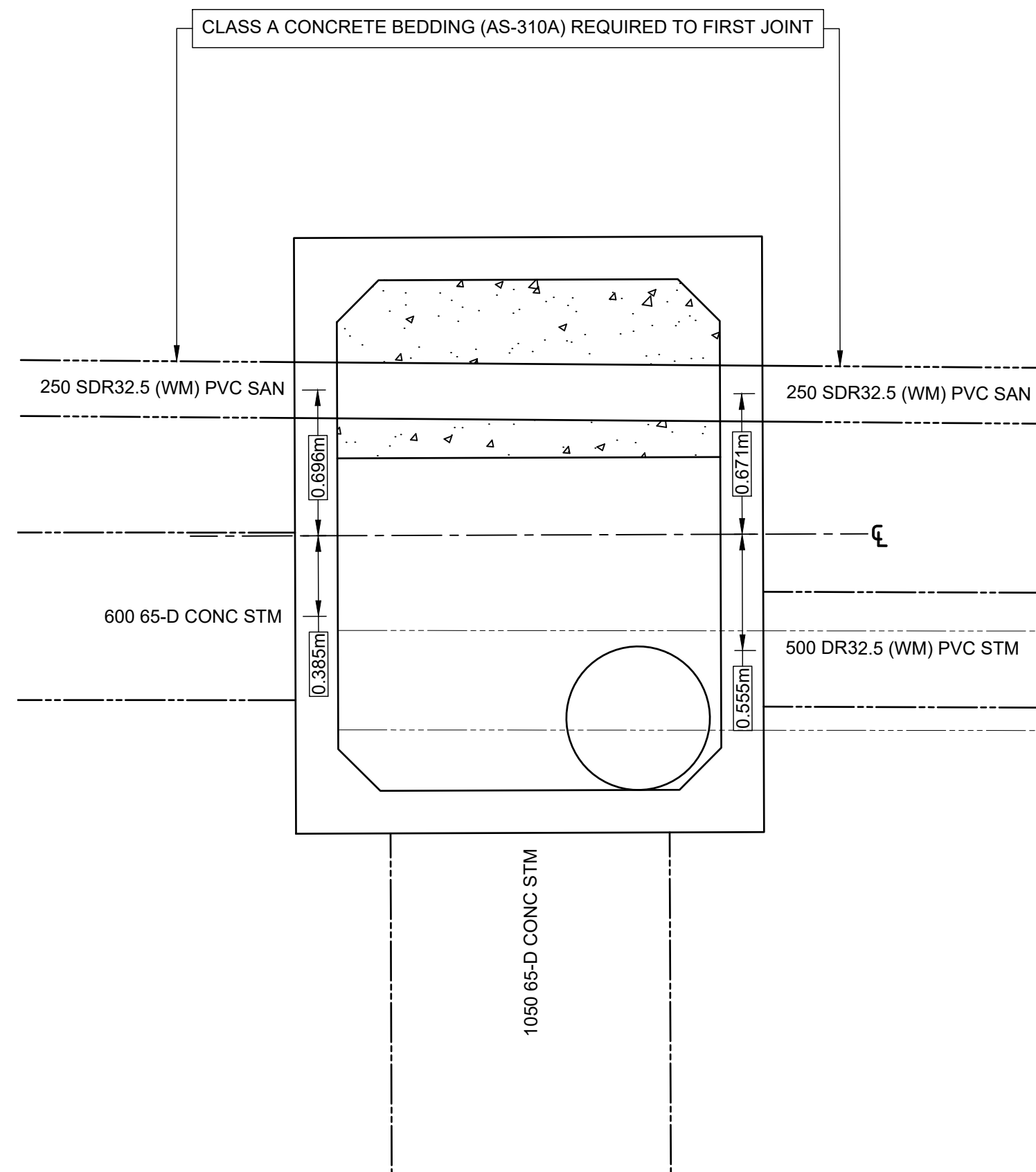
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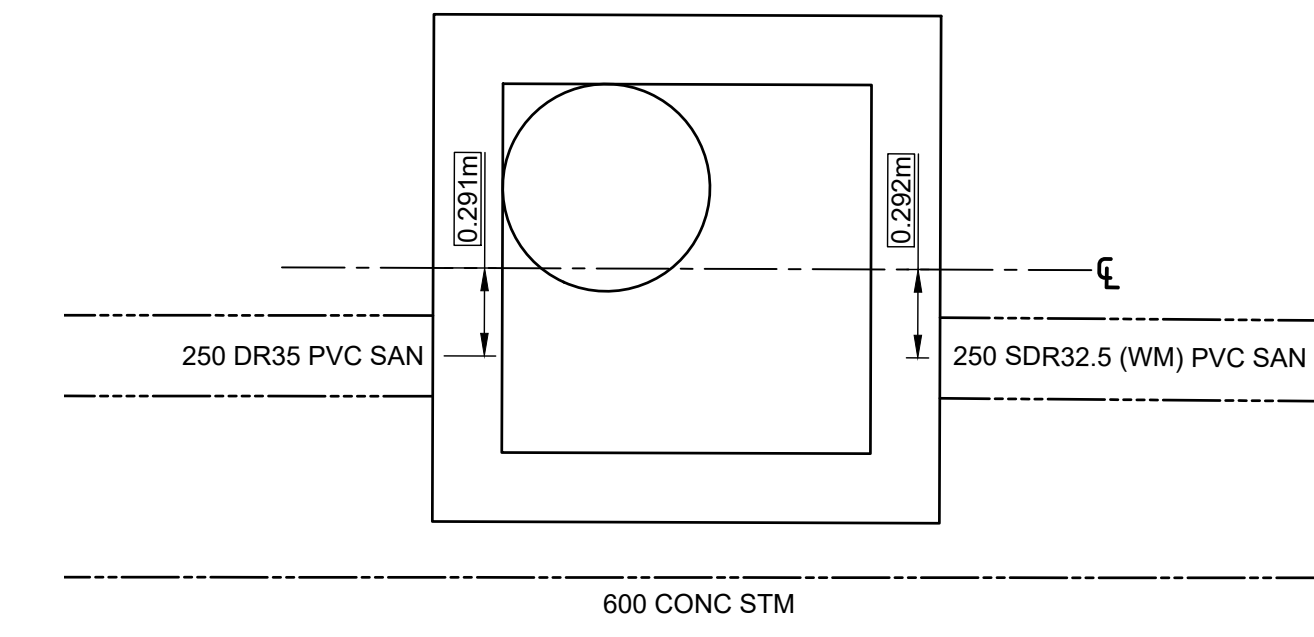
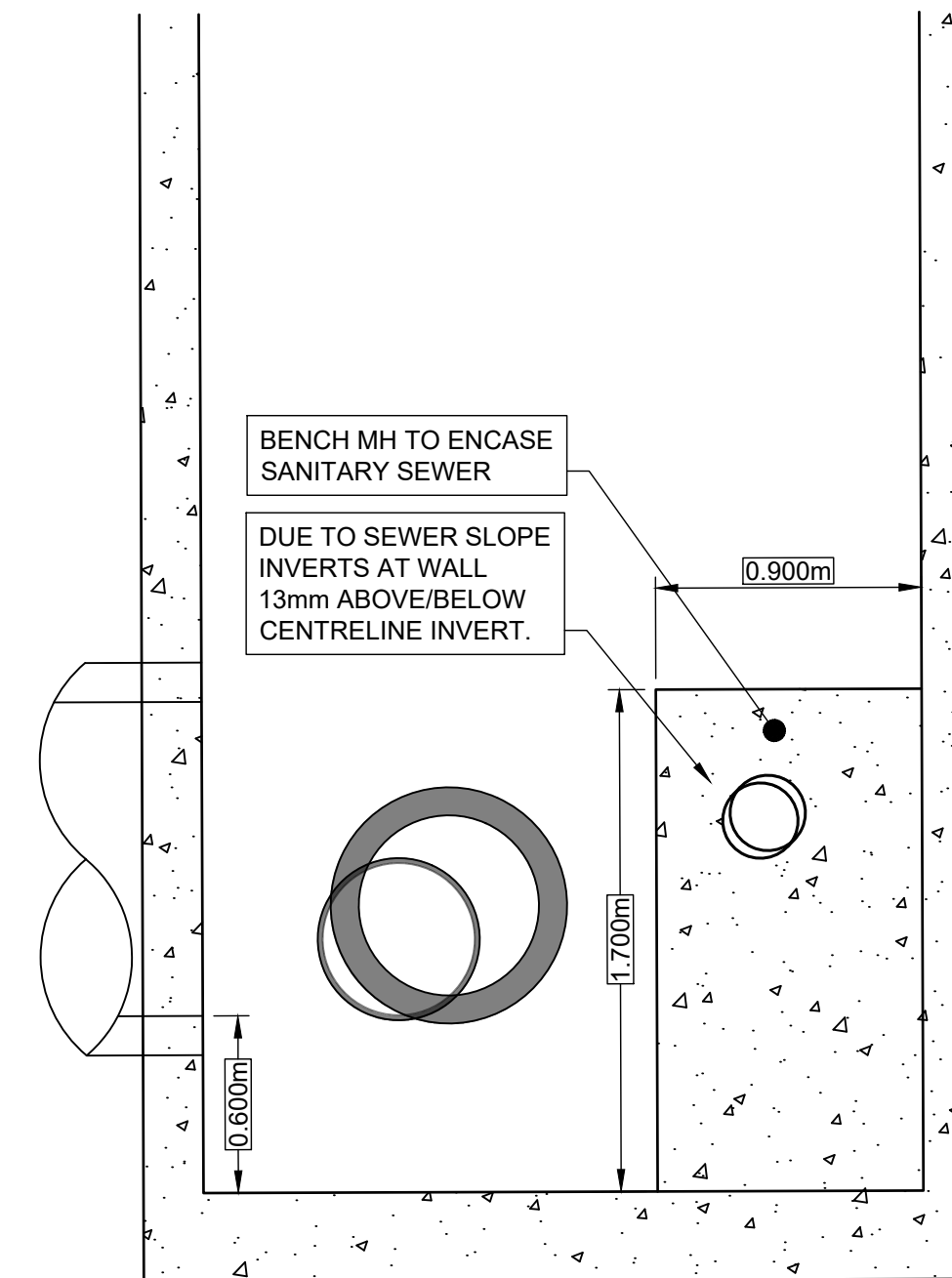
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CU-1002 Scale 1:25



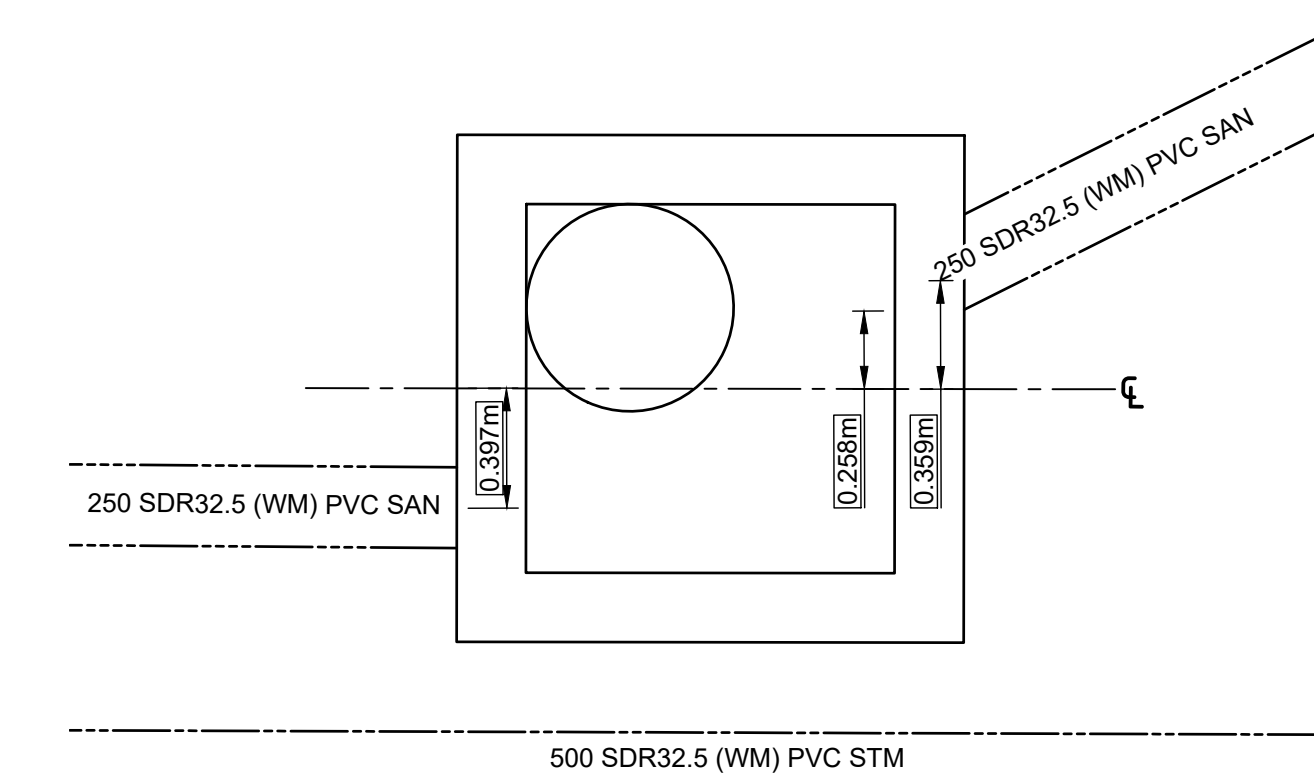
**B | 5S3944**  
CU-1002 Scale 1:25



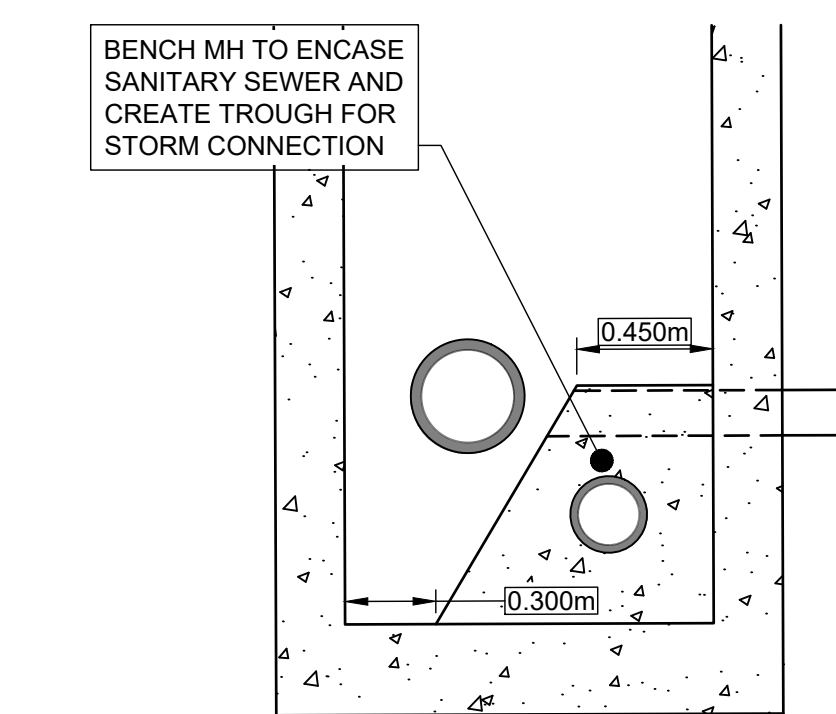
**F | 5R3950**  
CU-1003 Scale 1:25



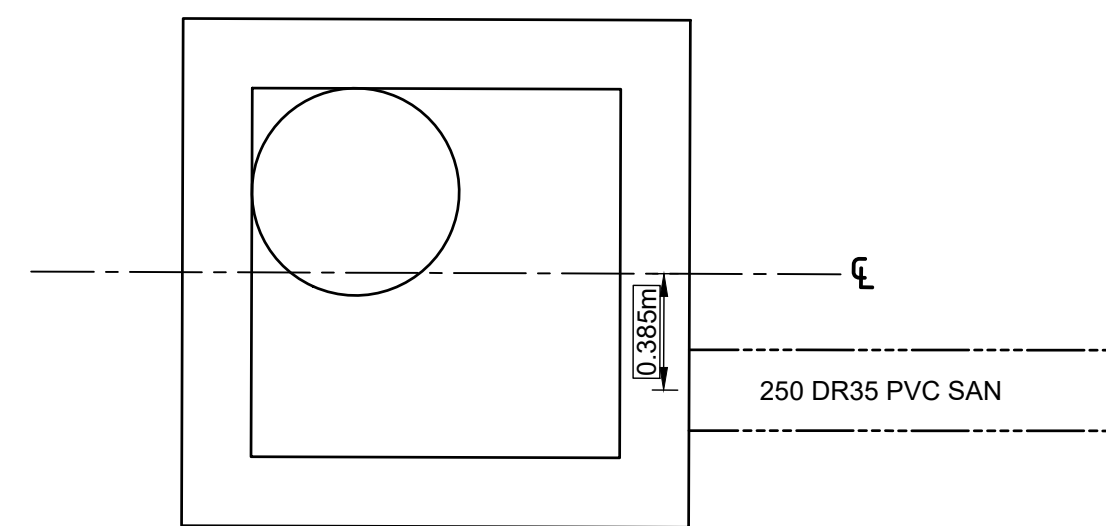
**E | 5S4021**  
CU-1003 Scale 1:25



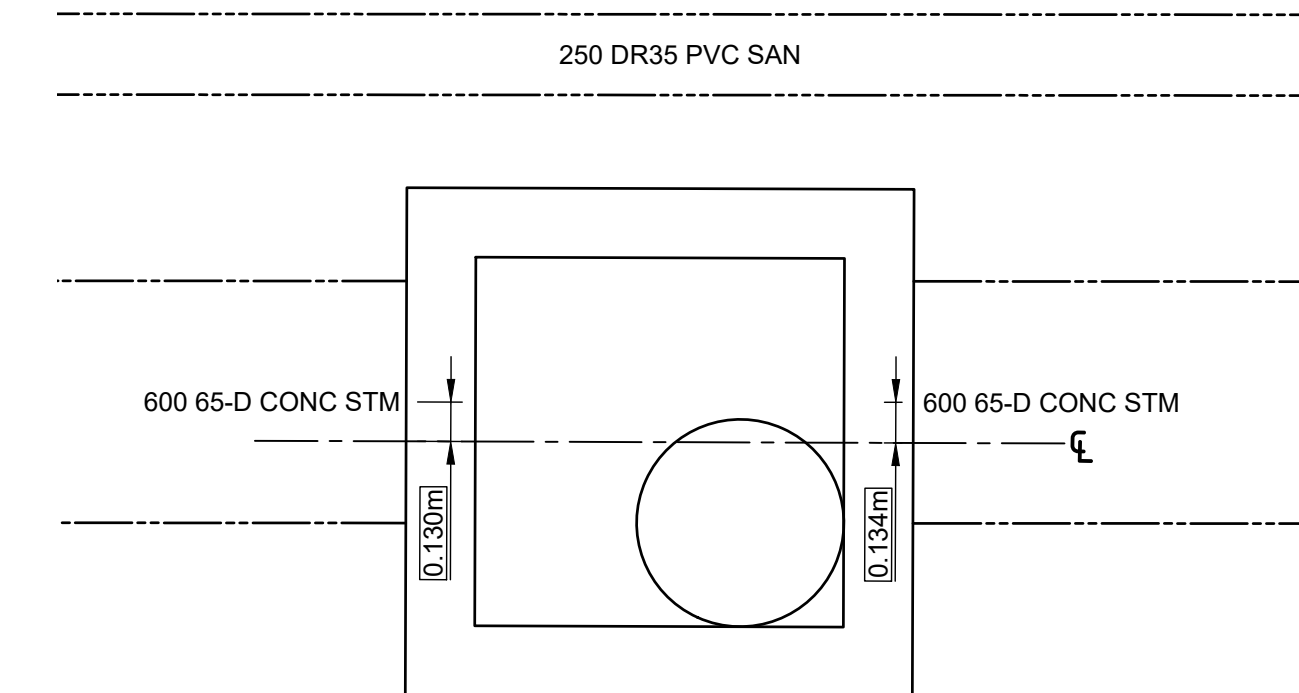
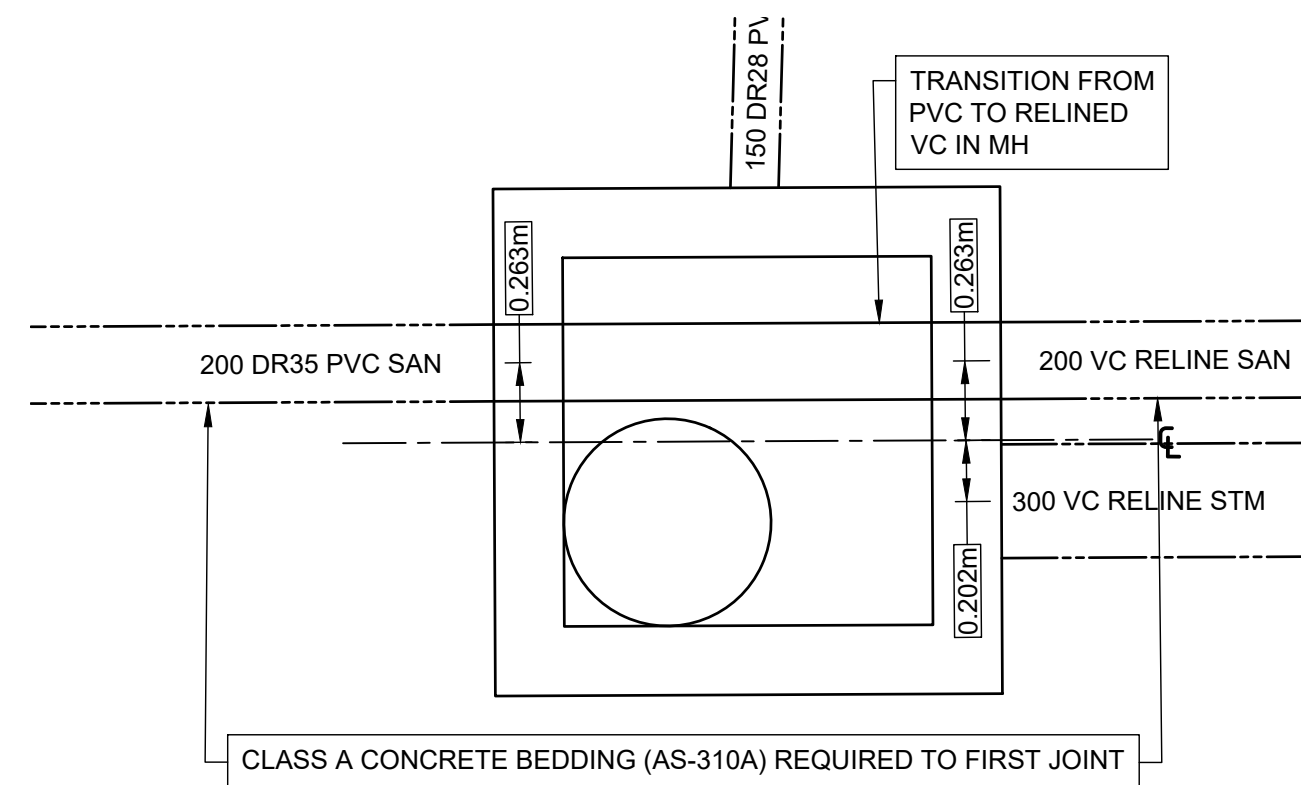
**G | 5S4022**  
CU-1003 Scale 1:25



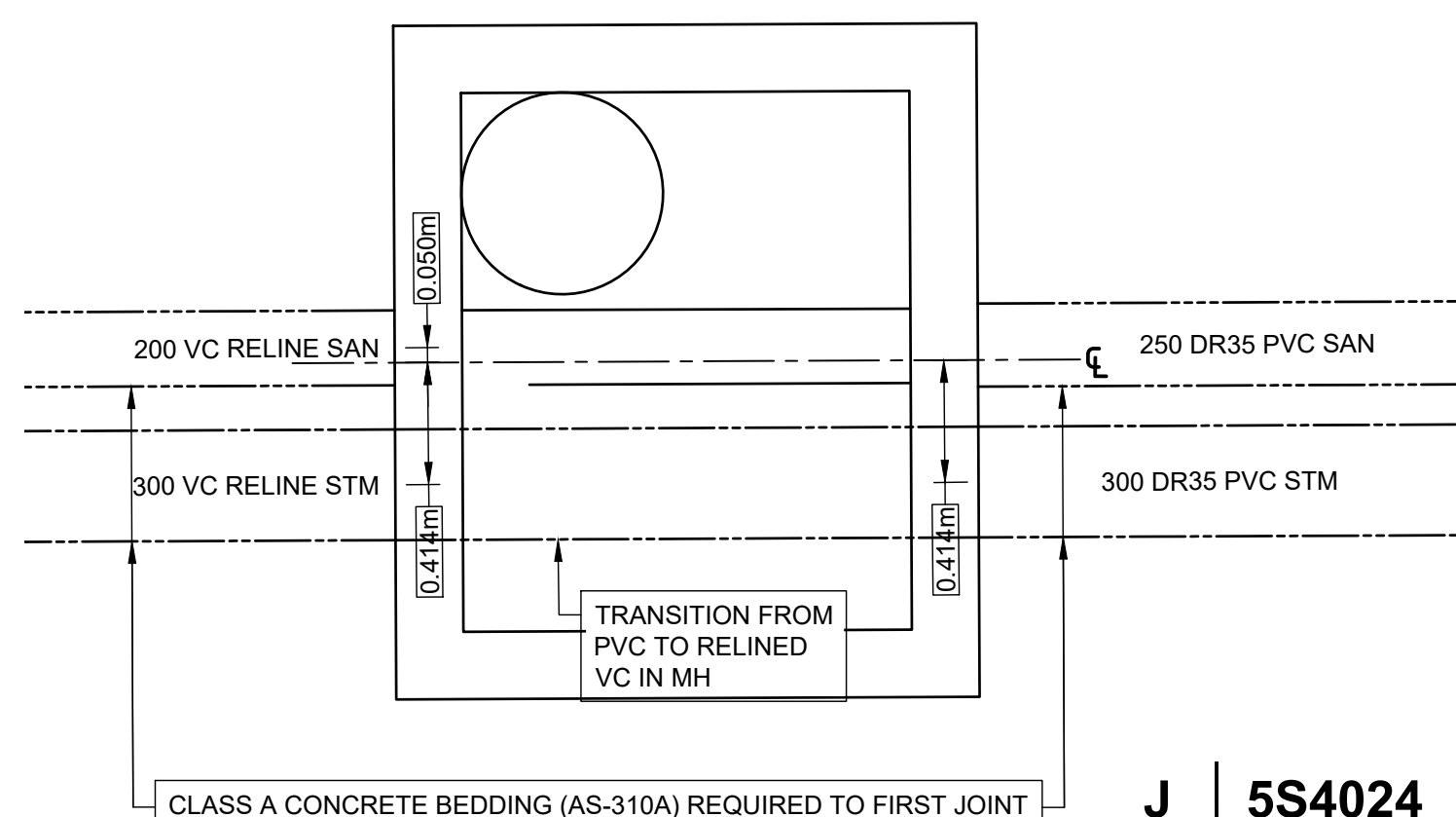
**H | 5R4026**  
CU-1004 Scale 1:25



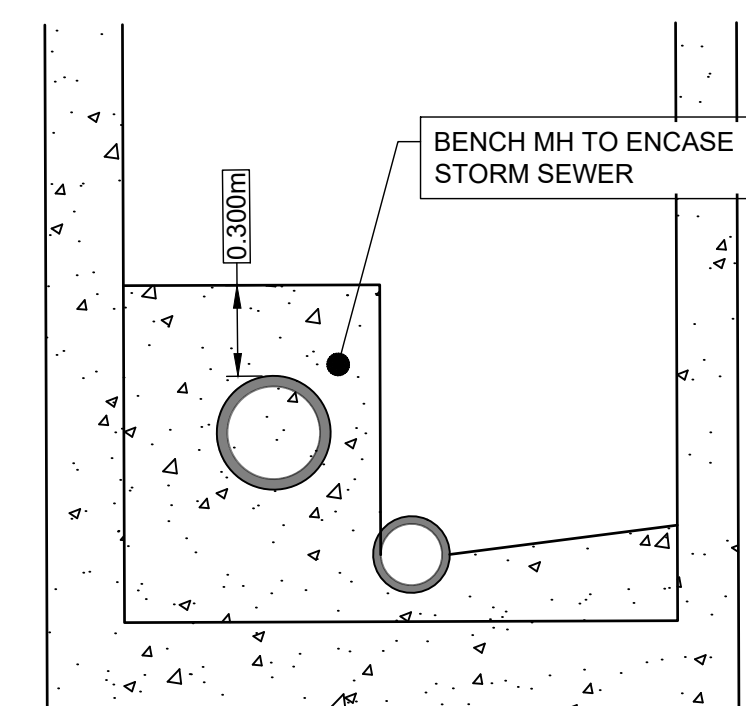
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CU-1002 Scale 1:25



**D | 5R3949**  
CU-1003 Scale 1:25

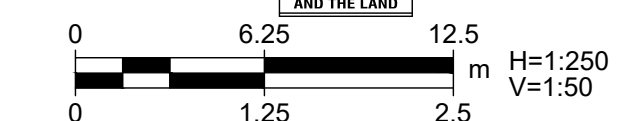


**J | 5S4024**  
CU-1004 Scale 1:25



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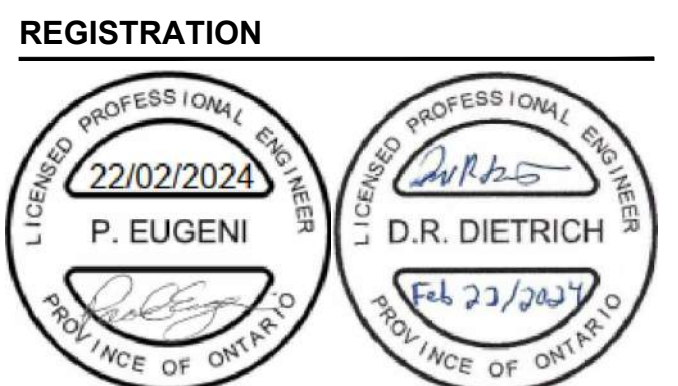
TENDER SET SIGNED BY  
MARK WINTERTON, P. ENG.  
COMMISSIONER  
INFRASTRUCTURE SERVICES



**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**  
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.citywindsor.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



**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

**ISSUE/REVISION**

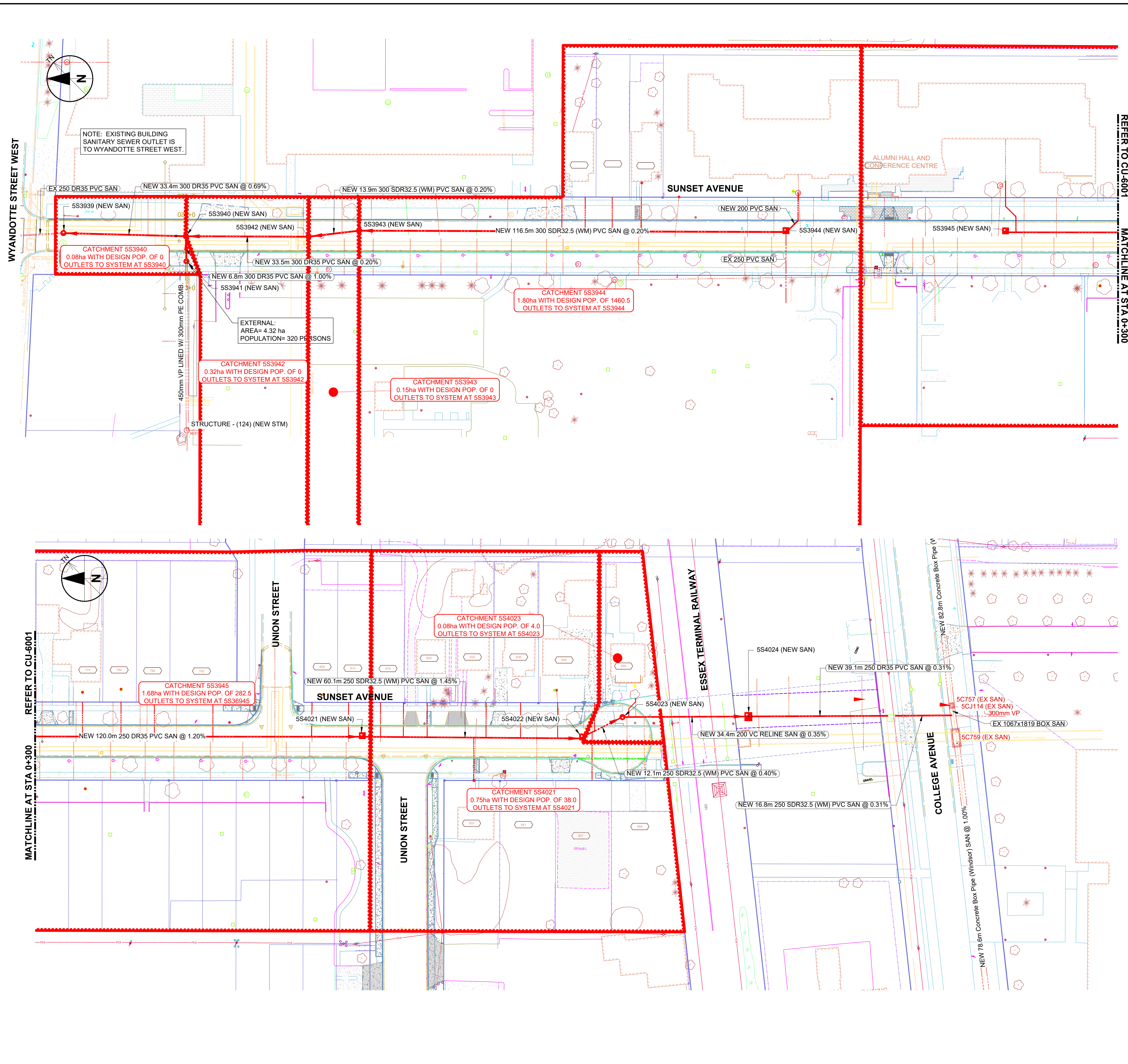
I/R	DATE	DESCRIPTION
0	2024-02-22	Issued for Construction
F	2023-11-01	Re-Issued for Tender
E	2023-05-18	Issued for Tender
D	2023-03-30	Issued for Review
C	2020-11-12	Issued for MECF Approval
B	2020-08-07	Issued for City Review

**KEY PLAN**

**PROJECT NUMBER**  
60635207

**SHEET TITLE**  
UTILITIES  
SANITARY SEWER  
DRAINAGE PLAN

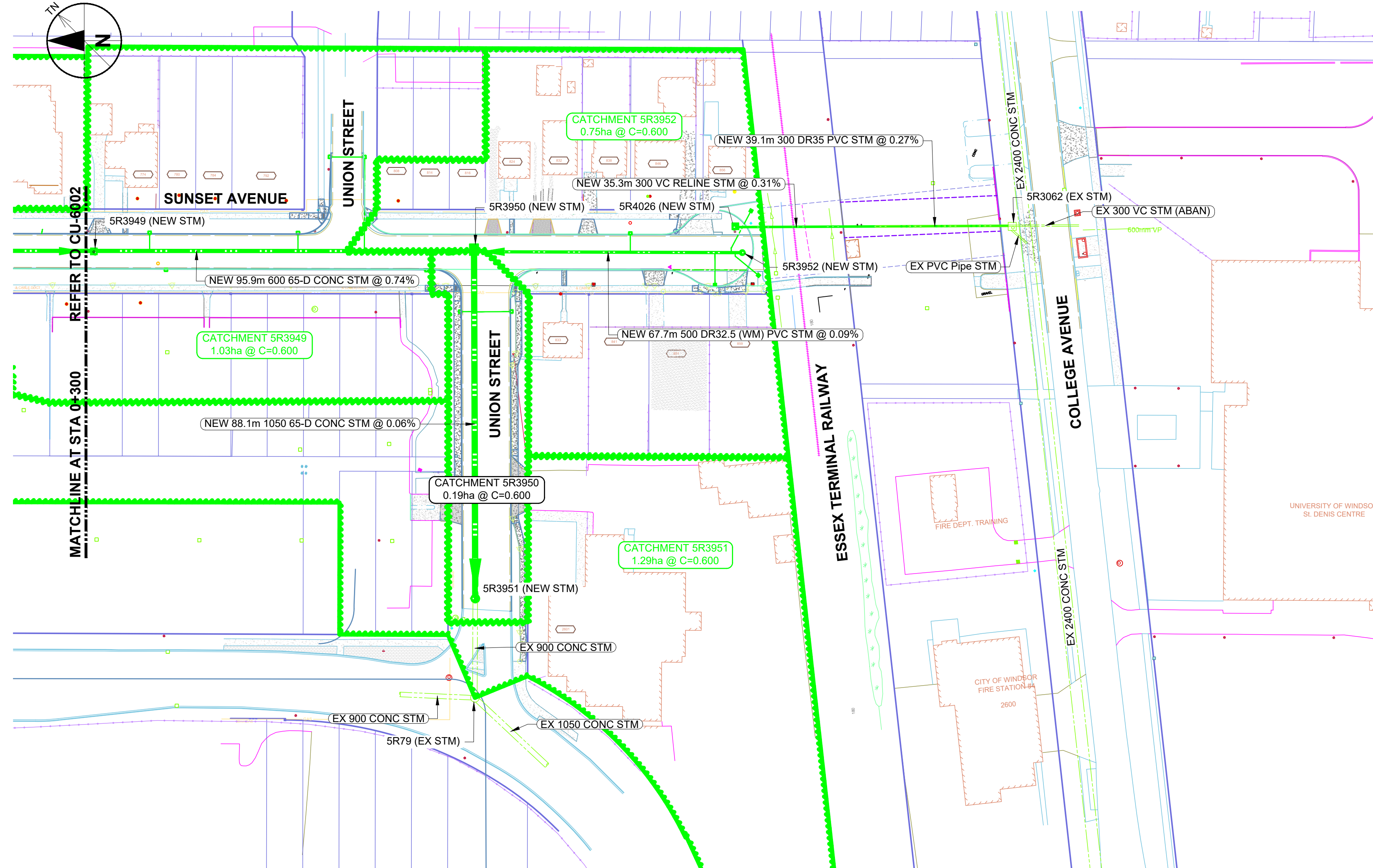
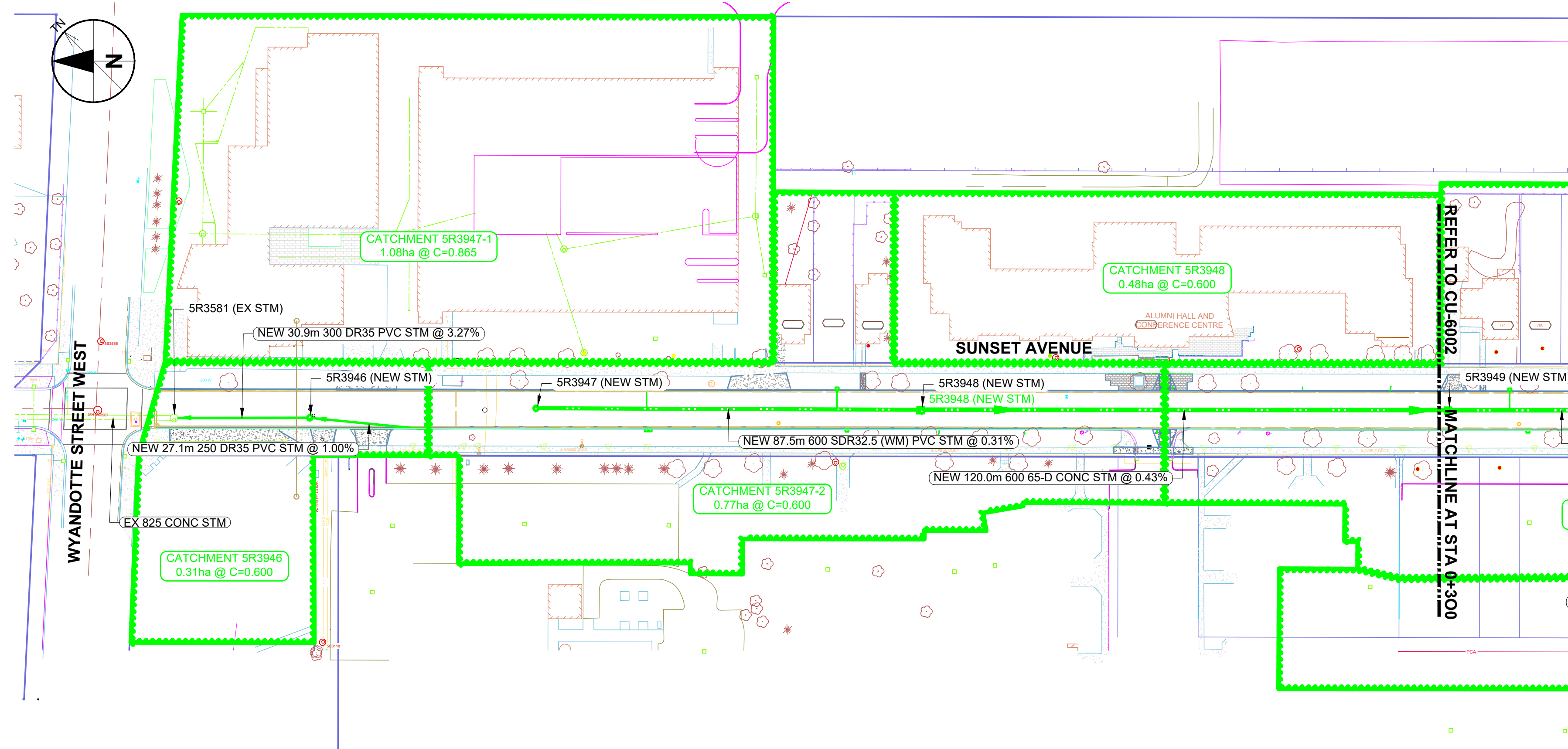
**SHEET NUMBER**  
CU-6001



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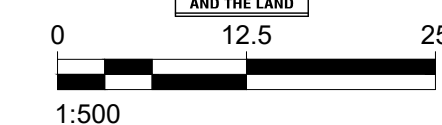
**TENDER SET SIGNED BY**  
 MARK WINTERTON, P. ENG.  
 COMMISSIONER  
 INFRASTRUCTURE SERVICES





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

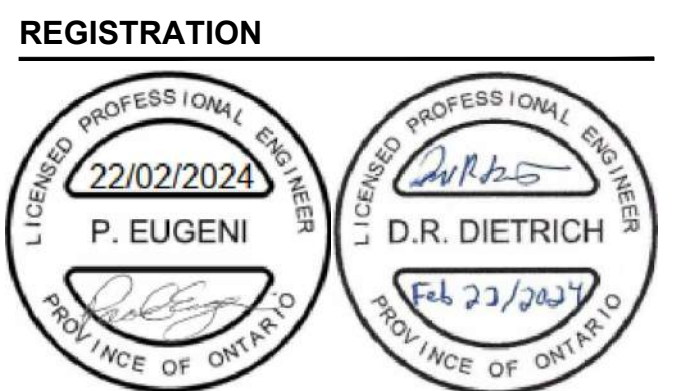
TENDER SET SIGNED BY  
 MARK WINTERTON, P. ENG.  
 COMMISSIONER  
 INFRASTRUCTURE SERVICES



**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.  
 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
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E	2023-05-18	Issued for Tender
D	2023-03-30	Issued for Review
C	2020-11-12	Issued for MECF Approval
B	2020-08-07	Issued for City Review

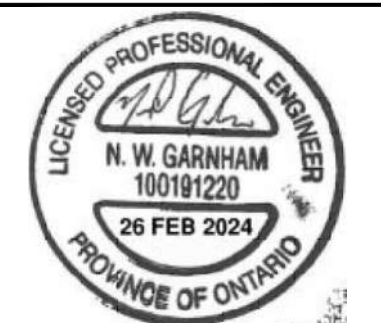
**KEY PLAN**

**PROJECT NUMBER**  
 60635207

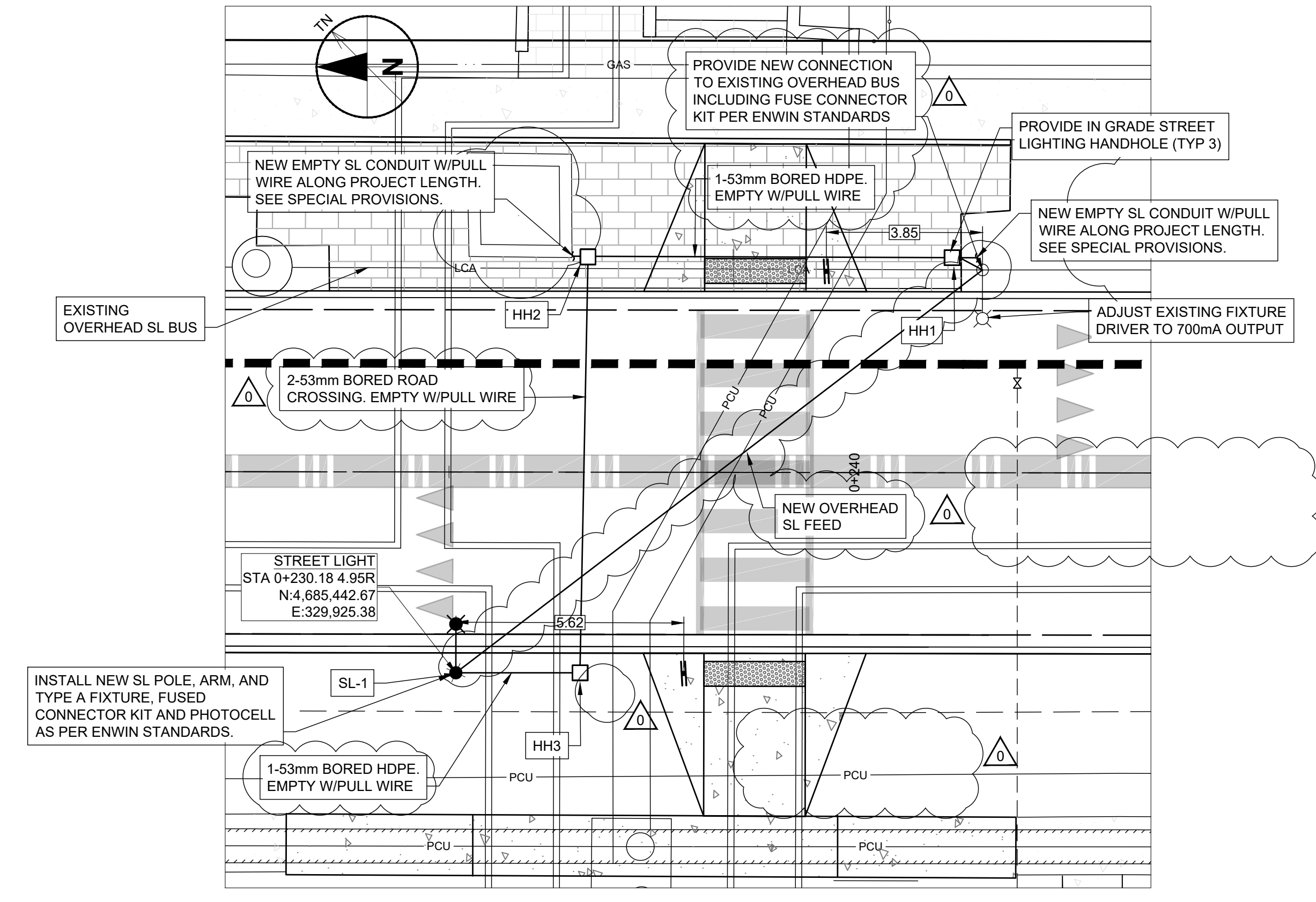
**SHEET TITLE**  
 UTILITIES  
 STORM SEWER  
 DRAINAGE PLAN

**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

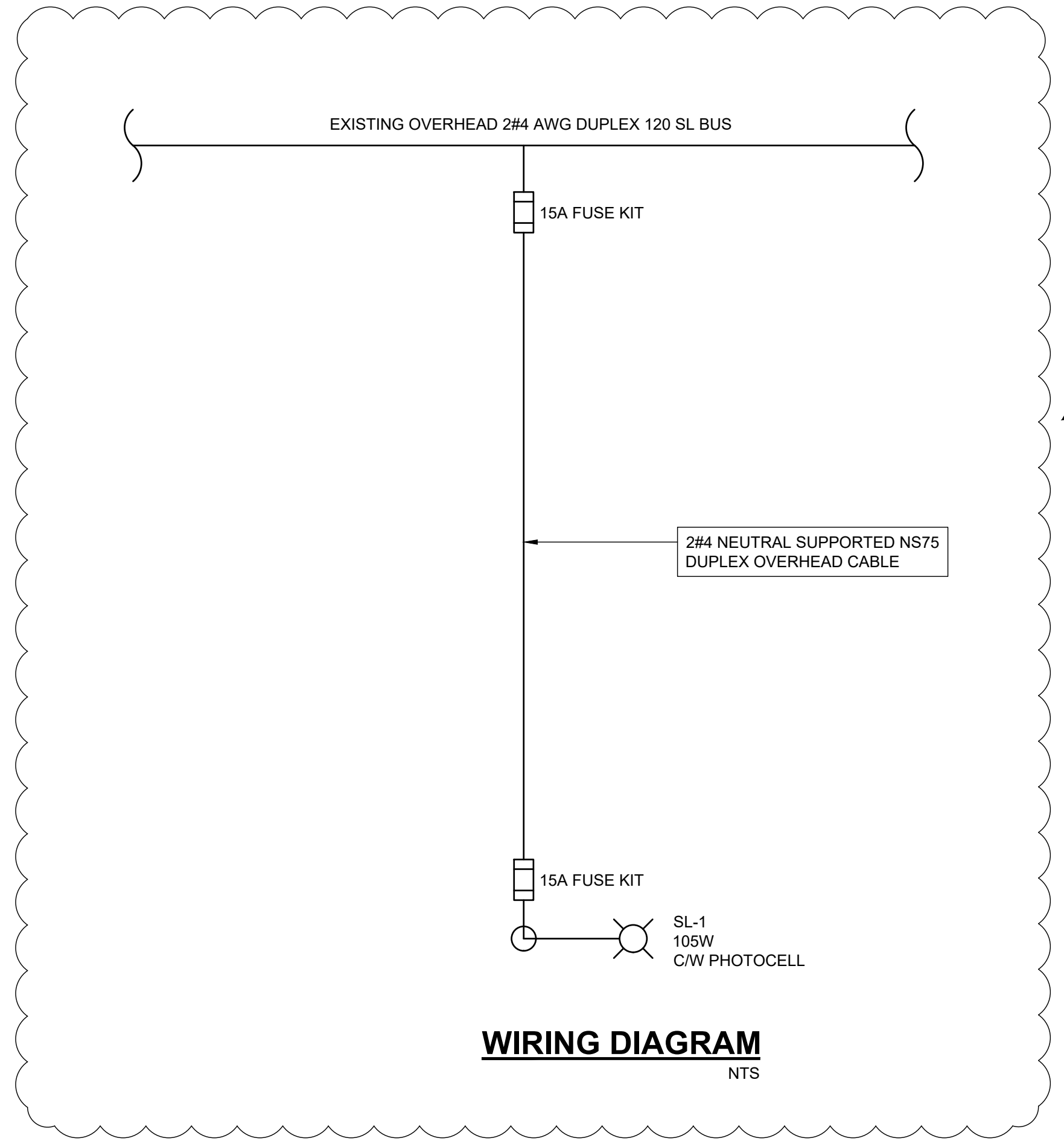
LUMINAIRE SCHEDULE										
TYPE	MANUFACTURER	MODEL	ARRANGEMENT	LLF	ARM	WATTS	LUMENS	BUG Rating	LER	
A	LED ROADWAY LIGHTING (LIVEABLE CITIES)	NXT-48M-0-7-2ES-7-GY-3-UL-S-2H-0423	SINGLE	0.8	1.8	105	11541	B2-U0-G2	110	

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.

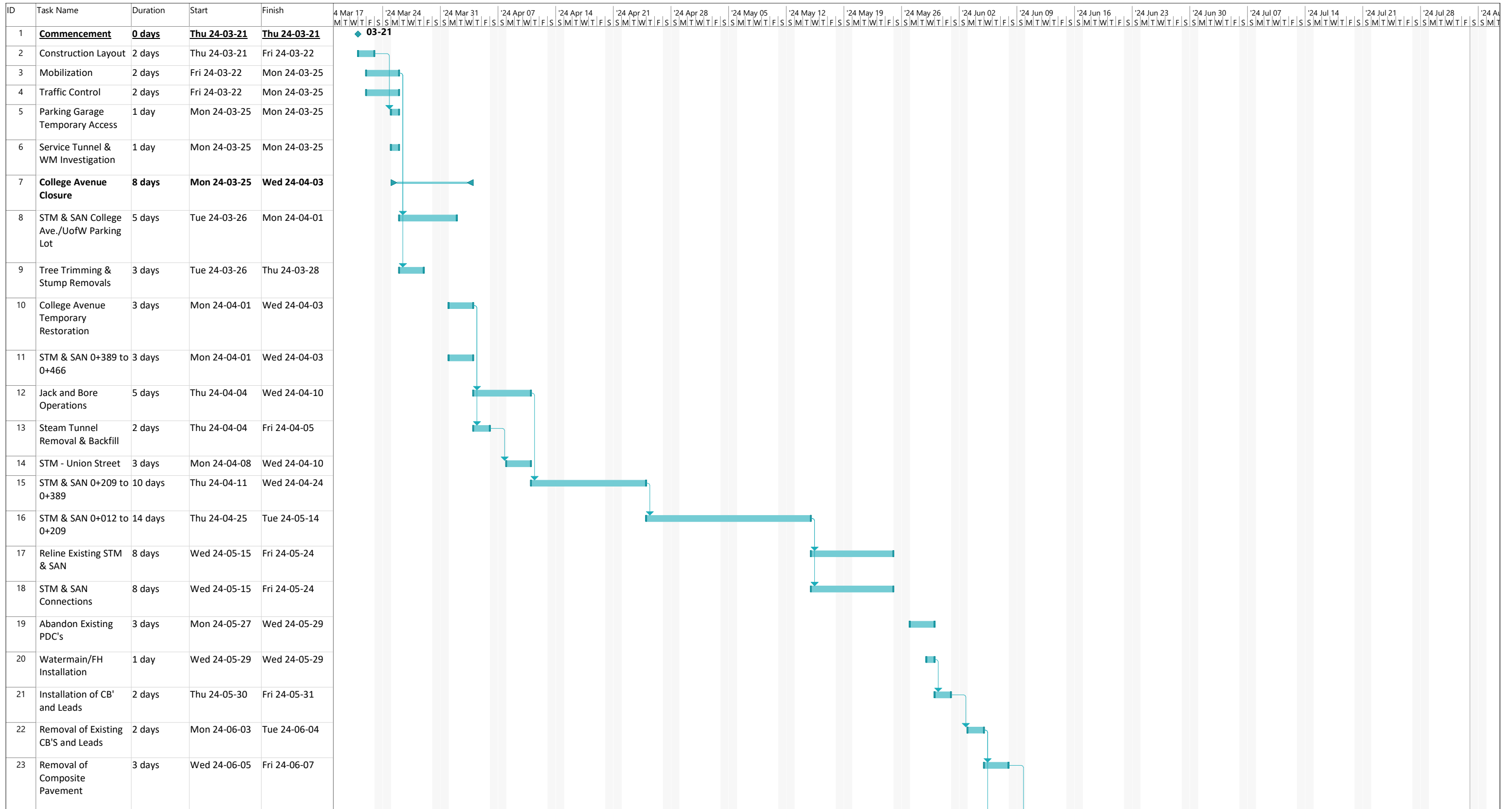
**TENDER SET SIGNED BY**  
 MARK WINTERTON, P. ENG.  
 COMMISSIONER  
 INFRASTRUCTURE SERVICES



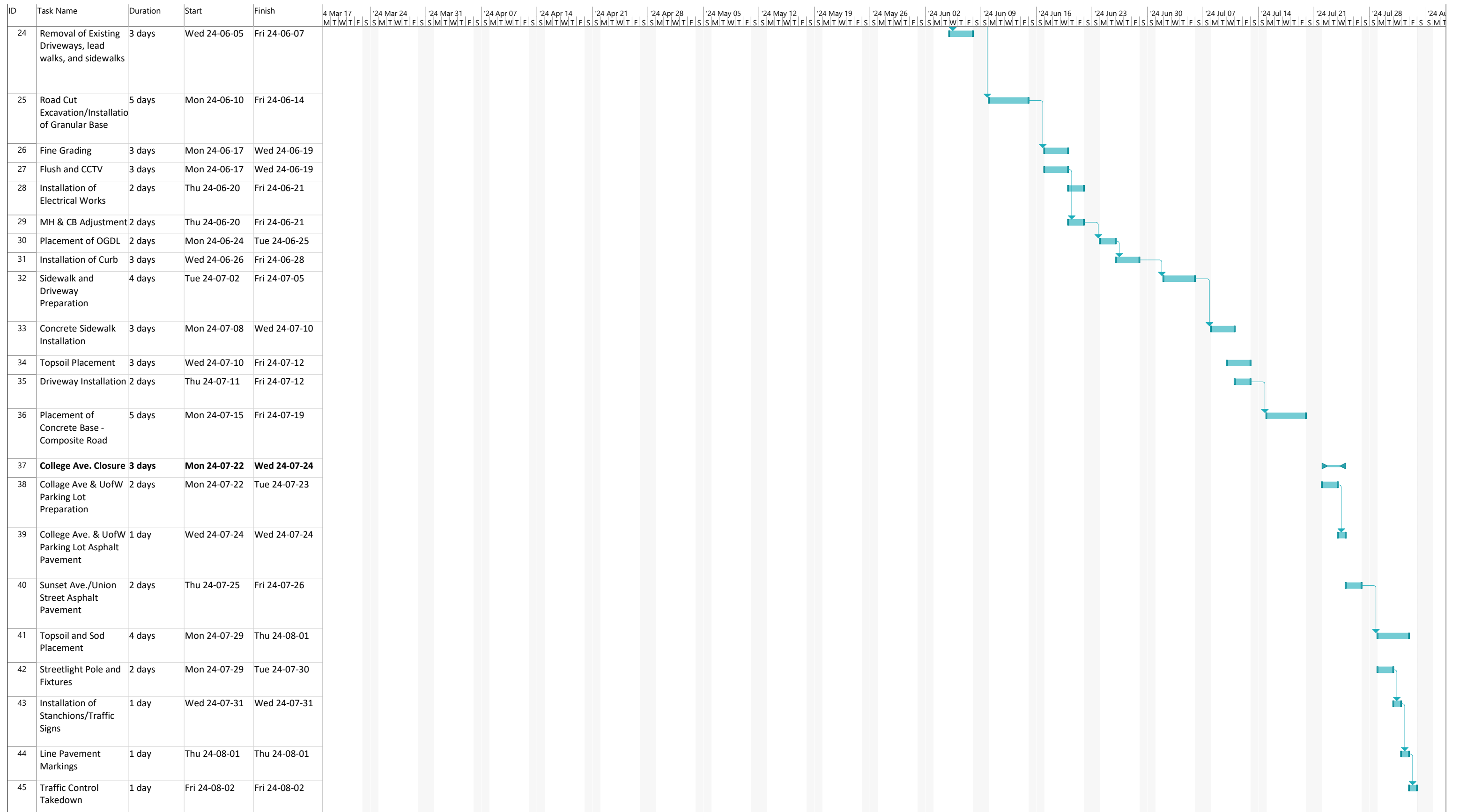
**WIRING DIAGRAM**  
 NTS

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Project: Sunset Schedule Date: Wed 24-02-21	Task	[Blue bar]	Summary	[Black bar]	Inactive Milestone	[Grey bar]	Duration-only	[Light blue bar]	Start-only	[Blue bar]	External Milestone	[Grey bar]	Manual Progress
	Split	[Dotted line]	Project Summary	[Black bar]	Inactive Summary	[Grey bar]	Manual Summary Rollup	[Dark blue bar]	Finish-only	[Blue bar]	Deadline	[Green arrow]	
	Milestone	[Diamond]	Inactive Task	[White bar]	Manual Task	[Light blue bar]	Manual Summary	[Black bar]	External Tasks	[Grey bar]	Progress	[Blue bar]	



Project: Sunset Schedule Date: Wed 24-02-21	Task		Summary		Inactive Milestone		Duration-only		Start-only		External Milestone		Manual Progress	
	Split		Project Summary		Inactive Summary		Manual Summary Rollup		Finish-only		Deadline			
	Milestone		Inactive Task		Manual Task		Manual Summary		External Tasks		Progress			