

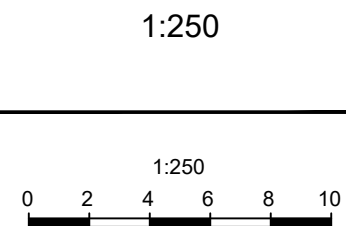
M:\2023\123194\CAD\Civil\123194-ESC.dwg, ESC, Aug 15, 2025 - 12:03 pm, umm@gh

NOTE:
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No.	REVISION	DATE	BY
4.	REVISED WATER ENTRY	DEC 03/2025	ARM
3.	ISSUED FOR CITY APPROVAL	JUNE 10/2025	ARM
2.	REVISED PER CITY COMMENTS	FEB 28/2025	ARM
1.	ISSUED FOR SITEPLAN APPLICATION	OCT/17/24	ARM

SCALE

1:250



DESIGN

ARM

CHECKED

GJM

DRAWN

MF/ARM

CHECKED

ARM

APPROVED

GJM



NOVATECH

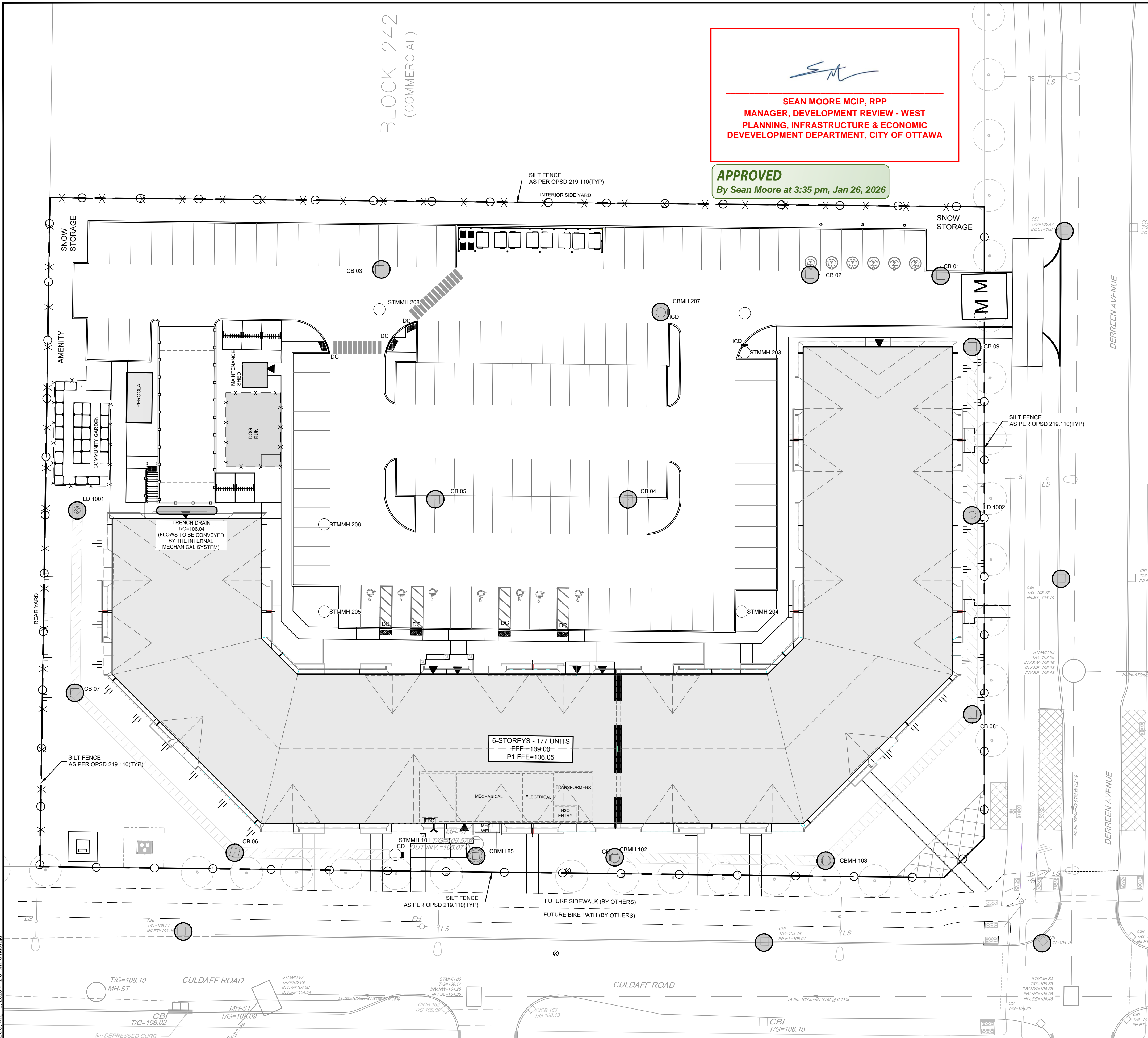
Engineers, Planners & Landscape Architects
Suite 200, 240 Michael Cowpland Drive
Ottawa, Ontario, Canada K2M 1P6
Telephone (613) 254-9643
Facsimile (613) 254-5867
Website www.novatech-eng.com

LOCATION
CITY OF OTTAWA
670 DERREEN AVENUE

DRAWING NAME
**EROSION AND SEDIMENT
CONTROL PLAN**

PROJECT No.	123194
REV	REV#4
DRAWING No.	123194-ESC

CITY PLAN No. 19291

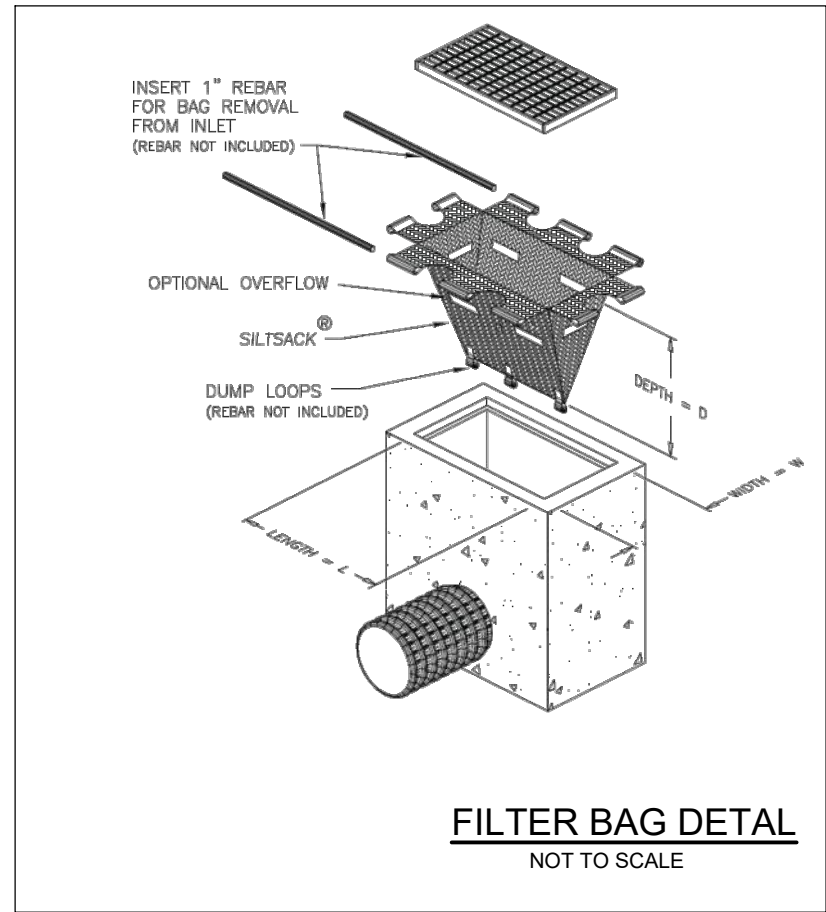


LEGEND

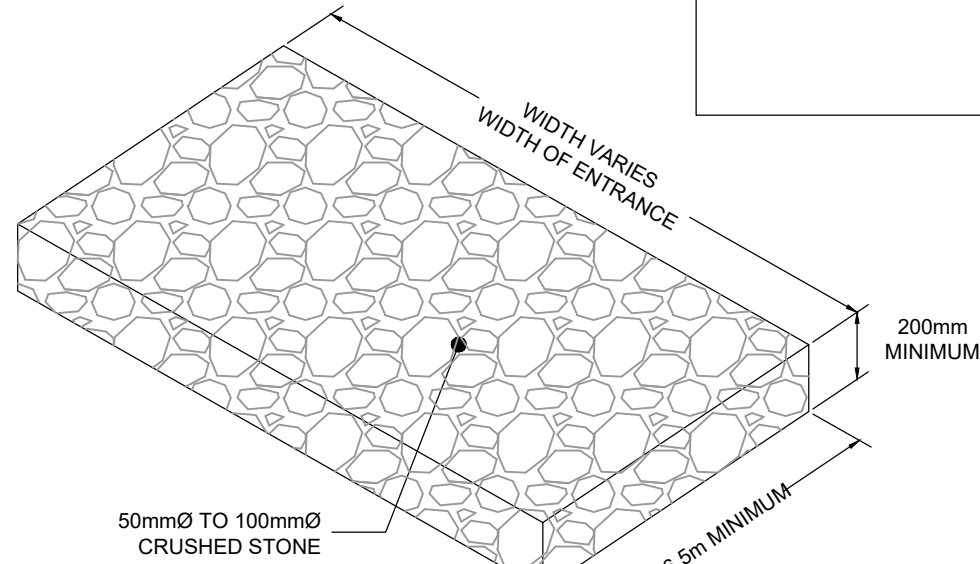
- PROPERTY LINE
- PROPOSED CURB
- DC PROPOSED DEPRESSED CURB
- PROPOSED FOUNDATION WALL C/W RAILING
- PROPOSED CAP
- PROPOSED STORM SEWER AND MANHOLE
- PROPOSED CATCHBASIN MANHOLE
- PROPOSED CATCHBASIN
- PROPOSED LANDSCAPE DRAIN
- PROPOSED TRENCH DRAIN
- PROPOSED BUILDING ENTRANCE
- SWALE c/w SUBDRAIN AND DIRECTION OF FLOW
- TERRACING 3:1 SLOPE MAX (UNLESS OTHERWISE INDICATED)
- PROPOSED FIREWALL
- PROPOSED ROOF LIMITS
- PROPOSED TRANSFORMER
- PROPOSED FILTER BAGS AT CATCHBASIN, CATCHBASIN MANHOLES AND TRENCHDRAINS
- PROPOSED MUD MAT
- LIGHT DUTY SILT FENCE (OPSD 219.110)
- EXISTING STORM MANHOLE
- EXISTING CATCHBASIN
- EXISTING LIGHT STANDARD
- EXISTING FENCE

EROSION AND SEDIMENT CONTROL NOTES:

- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
- THE OWNER AGREES TO PREPARE AND IMPLEMENT AN EROSION AND SEDIMENT CONTROL PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA, APPROPRIATE TO THE SITE CONDITIONS, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.) AND DURING ALL PHASES OF SITE PREPARATION AND CONSTRUCTION IN ACCORDANCE WITH THE CURRENT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL SUCH AS BUT NOT LIMITED TO INSTALLING FILTER CLOTHS ACROSS MANHOLE/CATCHBASIN LIDS TO PREVENT SEDIMENTS FROM ENTERING STRUCTURES AND INSTALL AND MAINTAIN A LIGHT DUTY SILT FENCE BARRIER AS REQUIRED.
 - THE CONTRACTOR SHALL PLACE FILTER BAGS UNDER THE CATCHBASIN AND MANHOLE GRATES FOR THE DURATION OF CONSTRUCTION AND WILL REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION.
 - SILT FENCING FOR ENTIRE PERIMETER OF SITE, SHALL BE UTILIZED TO CONTROL EROSION FROM THE SITE DURING CONSTRUCTION.
 - THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
 - PROVIDE MUD MATS AT ALL CONSTRUCTION ACCESS POINTS TO MINIMIZE SEDIMENT TRANSPORT OFFSITE.
 - EROSION AND SEDIMENT CONTROL MEASURES MAY BE MODIFIED IN THE FIELD AT THE DISCRETION OF THE CITY OF OTTAWA SITE INSPECTOR OR CONSERVATION AUTHORITY.

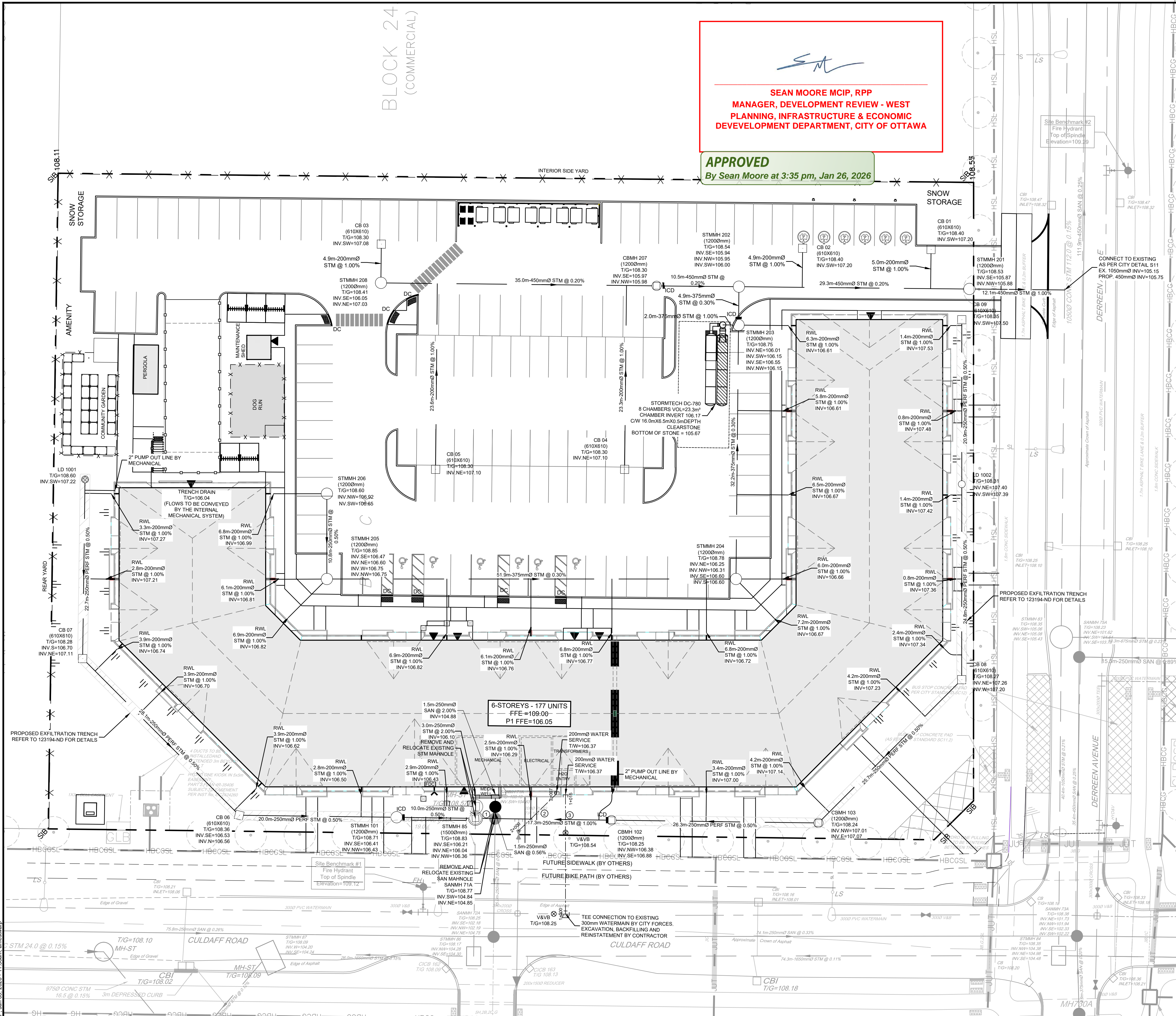




FILTER BAG DETAIL
NOT TO SCALE

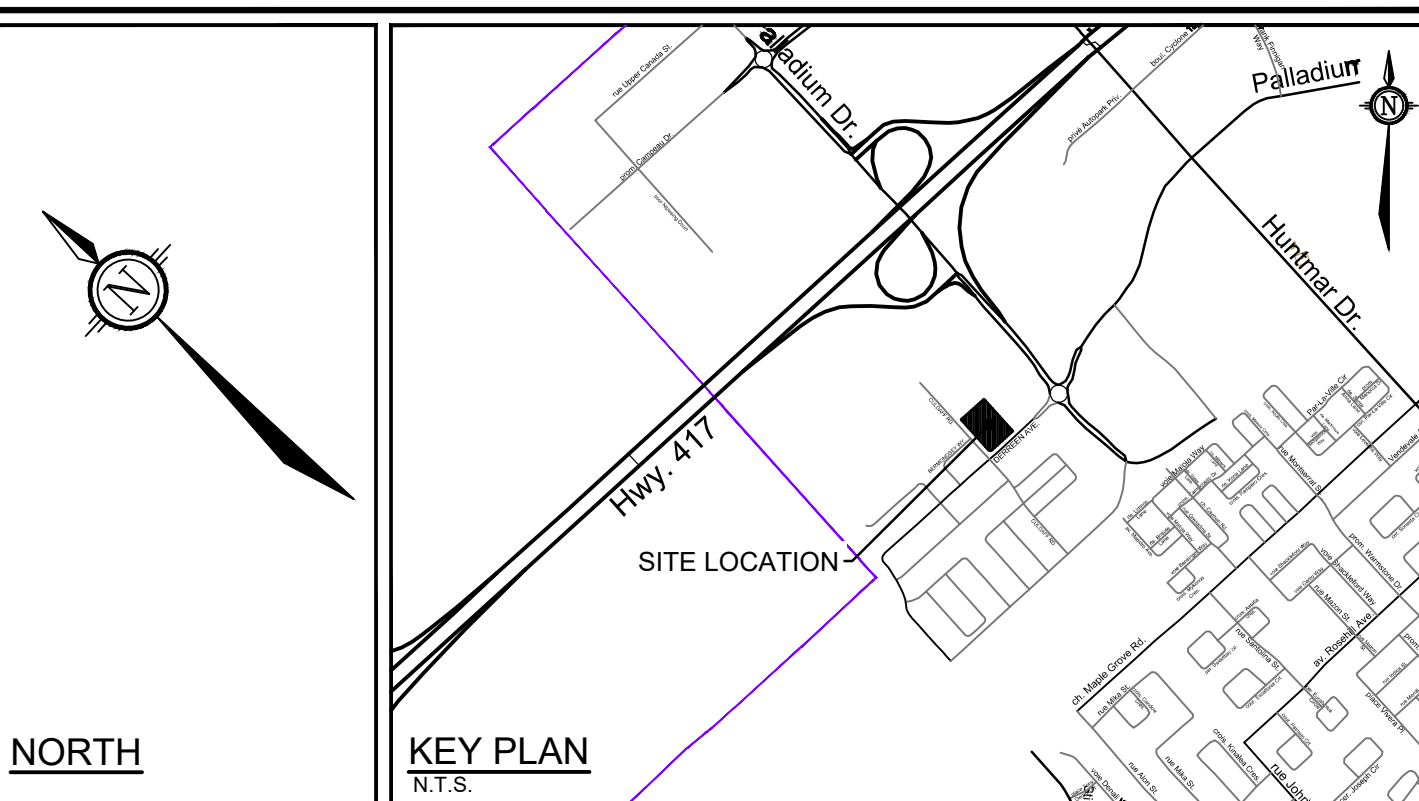


MUD MAT DETAIL
NOT TO SCALE

REFER TO 123194-ND FOR ADDITIONAL NOTES & DETAILS



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LEGEND	
	PROPERTY LINE
	PROPOSED CURB
	PROPOSED DEPRESSED CURB
	PROPOSED TWISI
	PROPOSED FOUNDATION WALL c/w RAILING
	PROPOSED CAP
	PROPOSED SANITARY SERVICE c/w MANHOLE
	PROPOSED STORM SEWER AND MANHOLE
	PROPOSED CATCHBASIN MANHOLE
	PROPOSED CATCHBASIN
	PROPOSED LANDSCAPE DRAIN
	PROPOSED TRENCH DRAIN
	PROPOSED INLET CONTROL DEVICE
	RAIN WATER LEADER CONNECTION LOCATION
	PROPOSED PIPE CROSSING (REFER TO 123050-ND FOR DETAILS)
	PROPOSED SIAMESE CONNECTION
	PROPOSED WATER SERVICE
	PROPOSED HYDRANT c/w LEAD & VALVE
	PROPOSED VALVE AND VALVE BOX
	PROPOSED WATER METER
	PROPOSED REMOTE WATER METER
	PROPOSED BUILDING ENTRANCE
	PROPOSED FIREWALL
	PROPOSED GARbage COLLECTION BINS
	PROPOSED BIKE RACKS
	PROPOSED CROSSWALK PAINTING
	PROPOSED LINE PAINTING
	PROPOSED ROOF LIMITS
	PROPOSED TRANSFORMER
	DIRECTION OF FLOW
	EXISTING UTILITY POLE c/w GUY WIRES
	EXISTING WATERMAIN c/w VALVE & VALVE CHAMBER
	EXISTING HYDRANT c/w LEAD & VALVE
	EXISTING SANITARY MANHOLE & SEWER
	EXISTING STORM MANHOLE & SEWER
	EXISTING CATCHBASIN
	EXISTING JOINT UTILITY TRENCH
	EXISTING STREETLIGHT
	EXISTING ROAD SIGNAGE
	EXISTING STREET TREE

PIPE CROSSING TABLE			
CROSSING	LOWER PIPE	HIGHER PIPE	CLEARANCE
1	250mmØ SAN OBV = 105.08	250mmØ STM INV = 106.24	±1.16m
2	200mmØ WM OBV = 105.77	250mmØ STM INV = 106.27	±0.50m
3	200mmØ WM OBV = 105.82	250mmØ STM INV = 106.32	±0.50m

PROPOSED 200mmØ WATER SERVICE (1+000.0)			
STATION	SURFACE ELEVATION	T/W M ELEVATION	COMMENTS
1+000.00	108.24	105.84*	CONNECTION TO EXISTING 300mmØ WATERMAIN
1+010.32	108.54	106.14	PROPOSED VALVE AND VALVE BOX
1+012.01	108.37	105.97	CROSS BELOW 250mm STM (CLEARANCE ±0.50m)
1+014.88	108.77	106.37	CAP SERVICE 1.0m FROM THE FOUNDATION WALL

PROPOSED 200mmØ WATER SERVICE (2+000.0)			
STATION	SURFACE ELEVATION	T/W M ELEVATION	COMMENTS
2+000.0	108.63	106.23*	CONNECTION TO EXISTING 200mm VALVE c/w 45° BEND EXISTING CAP AND PIPE PAST VALVE TO BE REMOVED
2+002.11	108.70	105.77	CROSS ABOVE 300mm STM AS PER CITY OF OTTAWA DETAIL W25 (CLEARANCE ±0.50m)
2+006.76	108.90	106.37	45° BEND
2+006.99	108.91	106.37	CAP SERVICE 0.6m FROM THE FOUNDATION WALL

* CONTRACTOR TO CONFIRM THE ELEVATION OF THE EXISTING WATER SUBMAIN AND NOTIFY THE ENGINEER IF DIFFERENT

ICD SIZING AND FLOWS					
STRUCTURE	ORIFICE ICD SIZE	ICD INVERT (m)	T/G (m)	100-yr HGL (m)	100-yr HEAD (m)
STMMH 101	83mm PLATE	106.43	108.70	108.17	1.70
CBMH 102	83mm PLATE	106.38	108.25	107.48	1.06
STMMH 203	94mm PLATE	106.02	108.74	107.81	1.74
CBMH 207	152mm PLATE	105.97	108.30	108.42	2.37

- NOTE:
- ALL SERVICE CONNECTIONS AND CATCHBASIN CONNECTIONS TO BE MADE PER CITY OF OTTAWA DETAIL S11, S11.2, AND S1.
 - BACKWATER VALVES TO BE PROVIDED ON ALL STORM AND SANITARY LATERALS AS PER CITY OF OTTAWA DETAILS S14, S14.1, AND S14.2. DOWNSTREAM OF ANY GRAVITY OUTLET FROM THE BUILDING. REFER TO MECHANICAL PLANS FOR DETAIL.
 - ALL FLOWS FROM THE UNDERGROUND PARKING GARAGE ARE TO BE CONVEYED TO THE SANITARY SERVICE. SANITARY FLOWS ARE TO BE PUMPED TO THE PROPOSED SANITARY SERVICE (TYP).
 - PROPOSED SERVICES TO BE SLEEVED THROUGH FOUNDATION WALL. FOUNDATION DRAINS TO BE PUMPED TO STORM SERVICE.
 - PROPOSED TRENCHDRAINS ARE TO BE CONVEYED TO THE FREE FLOWING STM OUTLET CONNECTION TO STMMH 85. REFER TO THE MECHANICAL DRAWINGS FOR DETAILS.
 - ROOF DOWNSPOUTS ARE TO BE DIRECTLY CONNECTED TO THE PROPOSED STORMWATER MANAGEMENT SYSTEM. REFER TO ARCHITECT AND MECHANICAL PLANS FOR DETAILS.
 - REFER TO MECHANICAL DRAWINGS FOR FURTHER DETAILS ON INTERNAL PLUMBING (TYP).
- REFER TO 123194-ND FOR ADDITIONAL NOTES & DETAILS

NOVATECH

Engineers, Planners & Landscape Architects

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PROJECT NO.



123194

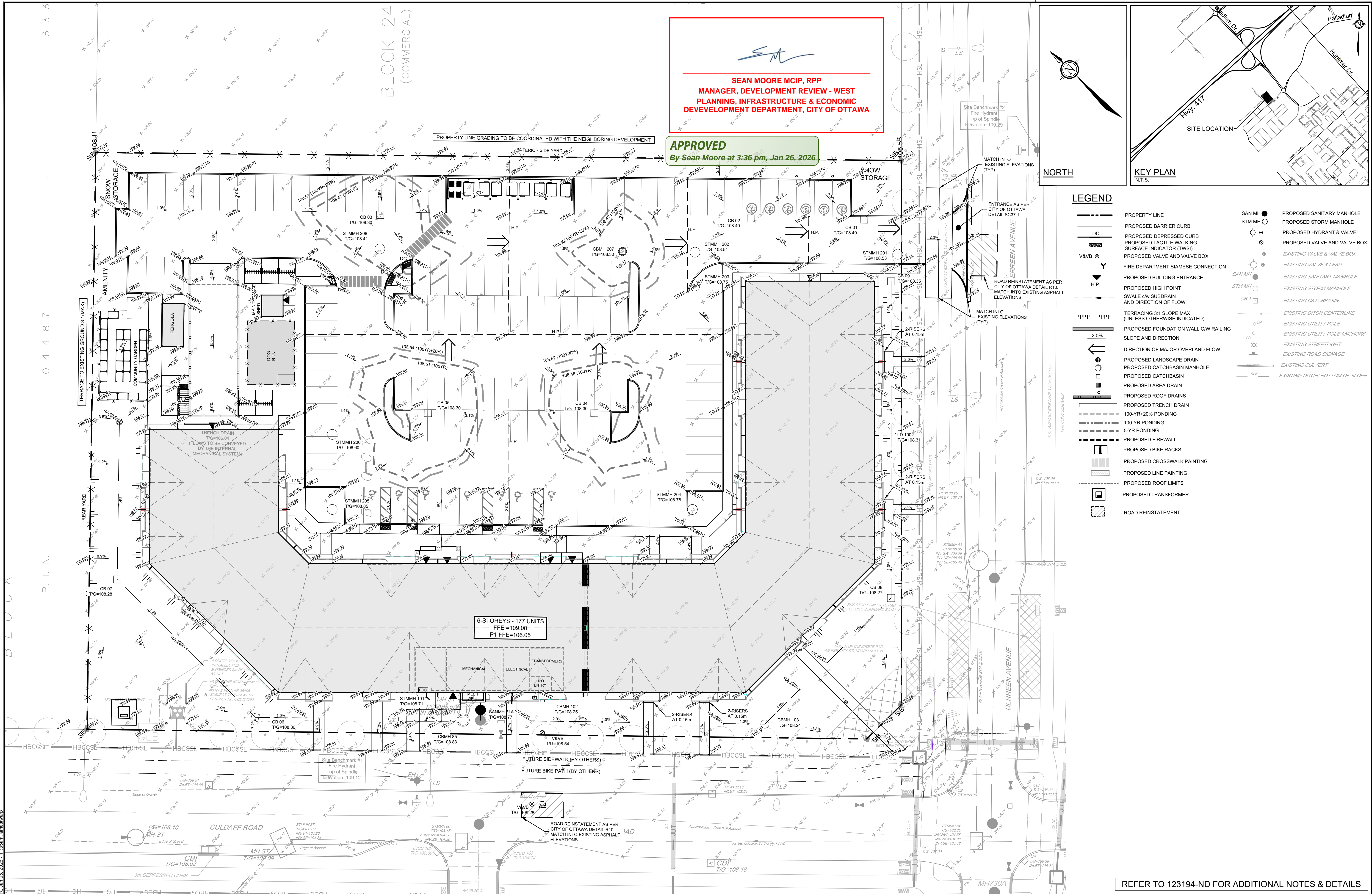
REV

REV#4

DRAWING NO.

123194-GP

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SEAN MOORE MCIP, RPP
MANAGER, DEVELOPMENT REVIEW - WEST
PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

APPROVED
By Sean Moore at 3:36 pm, Jan 26, 2026

NORTH

KEY PLAN
N.T.S.

LEGEND

- PROPERTY LINE
- PROPOSED BARRIER CURB
- PROPOSED DEPRESSED CURB
- PROPOSED TACTILE WALKING SURFACE INDICATOR (TWSI)
- PROPOSED VALVE AND VALVE BOX
- FIRE DEPARTMENT SIAMESE CONNECTION
- PROPOSED BUILDING ENTRANCE
- PROPOSED HIGH POINT
- SWALE & SUBDRAIN AND DIRECTION OF FLOW
- TERRACING 3:1 SLOPE MAX (UNLESS OTHERWISE INDICATED)
- PROPOSED FOUNDATION WALL C/W RAILING SLOPE AND DIRECTION
- DIRECTION OF MAJOR OVERLAND FLOW
- PROPOSED LANDSCAPE DRAIN
- PROPOSED CATCHBASIN MANHOLE
- PROPOSED CATCHBASIN
- PROPOSED AREA DRAIN
- PROPOSED ROOF DRAINS
- PROPOSED TRENCH DRAIN
- 100-YR+20% PONDING
- 100-YR PONDING
- 5-YR PONDING
- PROPOSED FIREWALL
- PROPOSED BIKE RACKS
- PROPOSED CROSSWALK PAINTING
- PROPOSED LINE PAINTING
- PROPOSED ROOF LIMITS
- PROPOSED TRANSFORMER
- ROAD REINSTATEMENT
- SAN MH
- STM MH
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM MANHOLE
- PROPOSED HYDRANT & VALVE
- PROPOSED VALVE AND VALVE BOX
- EXISTING VALVE & VALVE BOX
- EXISTING VALVE & LEAD
- EXISTING SANITARY MANHOLE
- EXISTING STORM MANHOLE
- EXISTING CATCHBASIN
- EXISTING DITCH CENTERLINE
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE ANCHORS
- EXISTING STREETLIGHT
- EXISTING ROAD SIGNAGE
- EXISTING CULVERT
- EXISTING DITCH/ BOTTOM OF SLOPE

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DRAWING NAME
GRADING PLAN

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