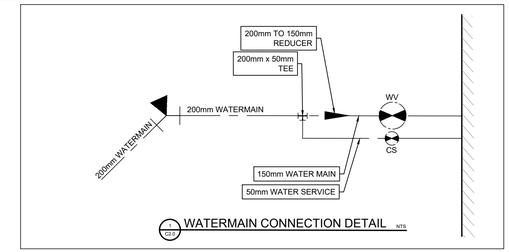
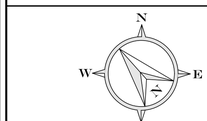
These documents are instruments of service and are the copyright property of Witzel Dyce Engineering Inc. They may not be reproduced, altered or reused without the expressed written consent of Witzel Dyce Engineering Inc.



WATERMAIN CONNECTION DETAIL (GD 5) NTS



KEY PLAN

LEGEND:

ELEVATION	XXX.XX + (XXX.XX)
EXISTING CONTOURS	345.75
CENTERLINE ROAD	
DOOR	
TREE DRIP LINE	
TOP/BOTTOM OF BANK	
SWALE	
EX. HYDRO POLE	
FIRE HYDRANT	HP
MANHOLE	
CATCHBASIN	
ASPHALT	
GRAVEL	
FENCE	
GAS LINE	GAS
HYDRO DUCT	HYDRO
OVERHEAD WIRE	OH
TELEPHONE LINE	TEL
FIBRE LINE	FIBRE
STORM PIPE	
WATERMAIN	
SANITARY	

NOTE:

TOPOGRAPHIC INFORMATION DERIVED FROM SURVEY PROVIDED BY G.M DIEMERT ARCHITECT

NO.	DATE	REVISION
5	2025.11.12	REVISED TO ADD SIDEWALK AT ENTRANCE
4	2025.10.28	REVISED PER UPDATED SITE PLAN
3	2025.10.22	ADDED EX CB AND STORM INFO
2	2025.10.16	ISSUED FOR TENDER
1	2025.08.28	ISSUED FOR REVIEW

WitzelDyce ENGINEERING INC.
826 King Street North, Unit 20
Waterloo, Ontario, N2J 4G8
www.witzeldyce.com

CERTIFIED ENGINEERING TECHNOLOGIST — CAGET — ONTARIO
JOHN HENDRIK VLEEMING
NO 824712

PROJECT

WIARTON TOWN HALL

370 WILLIAM ST. WIARTON, ON

DRAWING

GRADING AND SERVICING PLAN

DESIGNER	PROJECT NO.
JHV	17453-900
DRAWN	DRAWING NO.
JHV	C2.0
DATE	
OCTOBER 2025	
SCALE	
1:250	

CONSTRUCTION NOTES:

A. GENERAL

1. ALL CONSTRUCTION WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECT.
2. ALL WORK AND MATERIALS TO CONFORM WITH THE CURRENT ONTARIO BUILDING CODE, MINISTRY OF THE ENVIRONMENT AND CLIMATE CHANGE OF ONTARIO, CITY OF OWEN SOUND, ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS. LOCAL UTILITY STANDARDS AND MINISTRY OF TRANSPORTATION STANDARDS WILL APPLY.
3. CONTRACTOR SHALL COORDINATE WITH WITZEL DYCE ENGINEERING AND SHALL CONTACT SAME AT LEAST 48 HOURS PRIOR TO INSTALLATION OF ANY SITE WORK INCLUDING SITE SERVICES.
4. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. ALL EXISTING UTILITIES MUST BE LOCATED PRIOR TO COMMENCEMENT OF WORK. ANY VARIANCE IN LOCATION (VERTICAL OR HORIZONTAL) IS TO BE REPORTED TO THE SITEWORK ENGINEER OF RECORD 48 HOURS PRIOR TO CONSTRUCTION. LOST TIME AND/OR ANY ADDITIONAL WORKS DUE TO FAILURE OF THE CONTRACTOR TO CONFIRM UTILITY LOCATIONS AND ELEVATIONS AND NOTIFY THE SITEWORK ENGINEER OF RECORD OF ANY CONFLICTS 48 HOURS PRIOR TO CONSTRUCTION WILL BE AT THE CONTRACTOR'S EXPENSE.
5. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE EXISTING CONDITIONS PLAN, AND SITE GRADING AND SERVICING PLAN.
6. CONTRACTOR TO OBTAIN A ROAD OCCUPANCY PERMIT PRIOR TO COMMENCING ANY WORK WITHIN THE RIGHTS-OF-WAY OR MUNICIPAL EASEMENTS IF REQUIRED BY THE CITY OF OWEN SOUND. ALL UNDERGROUND SERVICING WORK IN THE RIGHTS-OF-WAY OR MUNICIPAL EASEMENTS SHALL BE INSPECTED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO BACKFILLING. ALL WORK WITHIN THE RIGHTS-OF-WAY OR MUNICIPAL EASEMENTS SHALL BE INSTALLED BY APPROVED CONTRACTOR AT THE OWNERS EXPENSE, UNLESS OTHERWISE NOTED.
7. REFER TO SITE PLAN PREPARED BY WITZEL DYCE ENGINEERING FOR ALL DIMENSIONS AND CONSTRUCTION LAYOUT REQUIREMENTS FOR CURBS, BUILDING ENVELOPES AND SITE DETAILS.
8. THESE PLANS FOR CONSTRUCTION ONLY WHEN APPROVED BY THE CITY OF OWEN SOUND AND SEALED BY THE ENGINEER.
9. ANY PROPOSED CHANGES SHALL BE APPROVED BY THE ENGINEER, AND THE CITY OF OWEN SOUND. WITZEL DYCE ENGINEERING TO CERTIFY UNDERGROUND SERVICES. CONTRACTOR TO PROVIDE MINIMUM 48 HOURS' NOTICE FOR INSPECTION. FAILURE TO NOTIFY WITZEL DYCE ENGINEERING OF INSPECTIONS DURING CONSTRUCTION MAY RESULT IN RECONSTRUCTION AT CONTRACTOR'S EXPENSE.
10. IF FOR UNFORESEEN REASONS, THE OWNER AND/OR HIS/HER REPRESENTATIVE MUST ENCROACH ON PRIVATE LANDS TO UNDERTAKE ANY WORKS, HE/SHE MUST OBTAIN WRITTEN PERMISSION FROM THE ADJACENT PROPERTY OWNERS PRIOR TO ENTERING UPON THE PRIVATE PROPERTY TO PERFORM ANY WORKS. COPIES OF THESE LETTERS OF CONSENT MUST BE SUBMITTED TO THE TOWNSHIP'S ENGINEERING DIVISION, PRIOR TO ANY WORK BEING PERFORMED. FAILURE TO COMPLY WITH THE ABOVE IS AT THE PROPERTY OWNERS OWN RISK.
11. CONTRACTOR WILL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED TO FACILITATE NEW CONSTRUCTION. REFER TO EXISTING CONDITION PLAN FOR INFORMATION ALL EXISTING SERVICE STRUCTURES, VALVES AND HYDRANTS ARE TO BE ADJUSTED TO PROPOSED ELEVATIONS.
12. THE CONTRACTOR SHALL PROVIDE THE SITEWORK ENGINEER OF RECORD 1 (ONE) SET OF SITE SERVICING, GRADING, SITE ELECTRICAL AND LANDSCAPE RECORD DRAWINGS.
13. AS BUILT PLANS TO BE UNDER TAKEN BY THE CONTRACTOR AT THE COMPLETION OF THE SITE WORKS AND PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW.
14. CONTRACTOR TO OBTAIN SITE SERVICING PERMIT FROM LOCAL AUTHORITY HAVING JURISDICTION AND PROVIDE A COPY OF SAME TO SITEWORK ENGINEER OF RECORD.

B. UNDERGROUND SERVICES

1. CONTRACTOR SHALL VERIFY ELEVATION AND LOCATION OF EXISTING SANITARY, STORM SEWERS AND WATERMAINS PRIOR TO COMMENCING SITE SERVICING WORK AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN EXISTING AND PROPOSED.
2. THE CONTRACTOR TO MAKE CONNECTIONS TO SERVICES AS SHOWN AND IS RESPONSIBLE FOR RESTORATION OF ALL OFF-SITE AFFECTED PROPERTY TO ORIGINAL CONDITION.
3. ON-SITE SERVICING SHALL NOT BE UNDERTAKEN PRIOR TO COMPLETION OF SERVICE CONNECTIONS WITHIN THE ROAD RIGHT-OF-WAY'S.
4. ALL UNDERGROUND SERVICES TO BE IN COMPLIANCE WITH THE CURRENT ONTARIO BUILDING CODE, CITY OF OWEN SOUND ENGINEERING STANDARDS, ONTARIO PROVINCIAL STANDARDS (OPSS, OPSD) AND WITH THE LATEST REGULATIONS OF THE ONTARIO PLUMBING CODE AND INSPECTED BY TOWNSHIP STAFF/CONSULTANT PRIOR TO BACKFILLING.
5. UNDERGROUND SERVICES TO TERMINATE 1.5m FROM BUILDING LINE, PLUGGED OR CAPPED c/w MARKER EXTENDING FROM INVERT TO 1.0m ABOVE FINISHED GRADE.
6. ALL BEDDING TO BE CLASS 'B' AS PER OPSS. TRENCH BACKFILL TO BE APPROVED NATIVE MATERIAL COMPACTED IN 300mm DEEP MAXIMUM LIFTS TO 95% STANDARD PROCTOR DENSITY (S.P.D.).
7. ALL SERVICES SHALL BE TESTED AS SPECIFIED IN THE APPLICABLE OPSS (OPSS 410 & 411)
8. ANY UTILITY RELOCATION DUE TO THIS DEVELOPMENT TO BE UNDERTAKEN AT THE EXPENSE OF THE OWNER/DEVELOPER.

C. GRADING

1. COMPLETE ALL EXCAVATION, GRADING, TRIMMING AND COMPACTION AS REQUIRED TO FACILITATE THE WORK, ALL SUBGRADE AREAS SHALL BE PROOF ROLLED TO 98% S.P.D. PRIOR TO SUBGRADE PLACEMENT.
2. DISPOSE OF ALL SURPLUS AND UNSUITABLE MATERIAL OFFSITE.
3. SAW-CUT ASPHALT IN NEAT LINES AT ALL MATCH LINES.
4. TRANSITION SLOPES TO BE MAXIMUM 3:1 (HORIZONTAL TO VERTICAL) UNLESS NOTED OTHERWISE.

D. SURFACE WORKS

1. SITE AREAS DISTURBED BY CONSTRUCTION AND NOT INDICATED FOR REMOVAL TO BE RESTORED TO ORIGINAL CONDITIONS.
2. E.

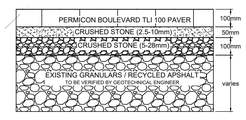
CONSTRUCTION NOTES:

E. EROSION CONTROL

1. ALL SILT FENCING TO BE INSTALLED PRIOR TO COMMENCEMENT OF ANY AREA GRADING, EXCAVATION OR DEMOLITION.
2. EROSION CONTROL FENCE TO BE PLACED AROUND THE BASE OF ALL STOCKPILES. ALL STOCKPILES TO BE KEPT A MINIMUM OF 2.5m FROM ALL PROPERTY LINES.
3. P-250 FILTER FABRIC UNDERLYING CONSTRUCTION VEHICLE ENTRANCE TO CONSIST OF CLEAN OR REPLACED 300mm THICK, 50mmØ STONE, STONE TO BE TAKEN UP WHEN ACCUMULATIONS COVER 50% OF TOP OF STONE (SEE DETAIL).
4. EROSION PROTECTION TO BE PROVIDED AROUND ALL STORM AND SANITARY MANHOLES AND/OR CATCHBASINS.
5. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE DEVELOPMENT PROGRESSES. CONTRACTOR TO PROVIDE ALL ADDITIONAL CONTROL STRUCTURES.
6. EROSION CONTROL STRUCTURES TO BE MONITORED REGULARLY BY WITZEL DYCE ENGINEERING AND ANY DAMAGE REPAIRED IMMEDIATELY. SEDIMENTS TO BE REMOVED WHEN ACCUMULATIONS REACH A MAXIMUM OF ONE THIRD (1/3) THE HEIGHT OF THE SILT FENCE.
7. ALL EROSION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN RE-STABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE GROUND COVER.
8. NO ALTERNATIVE METHODS OF EROSION CONTROL PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY WITZEL DYCE ENGINEERING.
9. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SEDIMENTS FROM THE MUNICIPAL ROADS, SIDEWALKS AND DITCHES AT THE END OF EACH WORK DAY.
10. MUD MATS TO BE PROVIDED AT ALL LOCATIONS WHERE CONSTRUCTION VEHICLES EXIT THE SITE. MUD MATS SHALL BE A MINIMUM OF 3.0m WIDE, 10.0m LONG (LENGTH MAY VARY DEPENDING ON SITE LAYOUT) AND 0.3m DEEP AND SHALL CONSIST OF 50mmØ CLEAR STONE MATERIAL OR APPROVED EQUIVALENT. CONTRACTOR TO ENSURE ALL VEHICLES LEAVE THE SITE VIA THE MUD MAT AND THAT THAT MAT IS MAINTAINED IN A MANNER TO MAXIMIZE ITS EFFECTIVENESS AT ALL TIMES.
11. WITZEL DYCE ENGINEERING TO MONITOR THE SITE DEVELOPMENT TO ENSURE ALL EROSION CONTROLS ARE INSTALLED AND MAINTAINED TO TOWNSHIP REQUIREMENTS. CONTRACTOR TO COMPLY WITH THE ENGINEER'S INSTRUCTIONS TO INSTALL, MODIFY, OR MAINTAIN EROSION CONTROL WORKS.

F. MISCELLANEOUS

1. WHERE COVER OVER SEWERS IS LESS THAN 1.2m IN PAVED AREAS, OR LESS THAN 0.9m IN GRASSED AREAS, INSTALL INSULATION AS PER DETAIL. INSULATION TO BE 60mm THICK x1800mm WIDE UNLESS OTHERWISE NOTED. INSTALL LONGITUDINALLY OVER CENTERLINE OF PIPE WITH OVERLAPPING JOINTS.
2. IT IS THE SITE OWNERS' RESPONSIBILITY TO ENSURE THAT ALL SEDIMENT CONTROLS ARE IMPLEMENTED AND MAINTAINED IN ACCORDANCE WITH THE ABOVE CRITERIA.



TYPICAL DETAIL (GD 5) PAVER SECTION NTS

Scale 1:250

5 0 5 10 15 METRES

P:\17453900\DWG\17453C.dwg
May 27, 24