

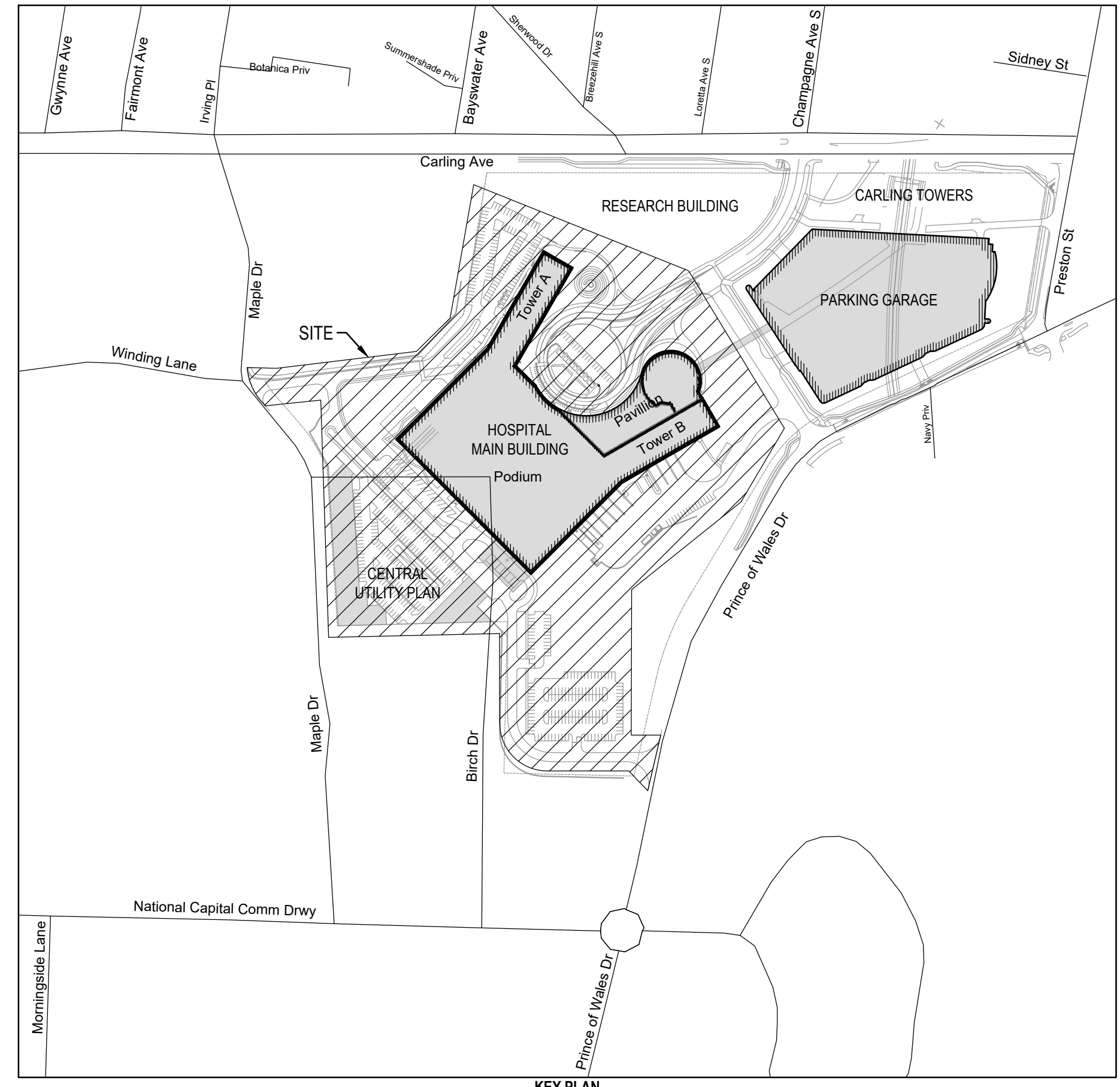
LEGEND

- BELL
- GAS
- HYDRO
- STREETLIGHT
- TRENCH
- TRENCH COVER
- TRAFFIC SIGNAL
- STORM WATER
- SANITARY WATER
- TREE PRESERVATION FENCE
- CONSTRUCTION FENCE
- EXISTING PROPERTY LINE
- LIMIT OF WORK
- SILTY FENCE
- FILTER FABRIC
- STRAW BALE CHECK DAM
- ROCK FLOW CHECK DAM
- CONTRACTOR PARKING + CONSTRUCTION STAGING AND LAYDOWN AREA
- CONSTRUCTION STAGING AND LAYDOWN AREA
- LIGHT VEHICLE / WORKER ACCESS ROAD
- PHASE 2 PLANNED GARAGE PROJECT (UNDER SEPARATE CONTRACT)
- PROPOSED ROADWAY WORKS TO BE REVIEWED AND APPROVED THROUGH RFP PROCESS

EROSION AND SEDIMENT CONTROL MEASURES:

- CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MONITORING, REPAIR AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL FEATURES. 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.
- SEDIMENT AND EROSION CONTROL PLAN OBJECTIVES:
 - PREVENT SOIL EROSION, THIS CAN RESULT FROM STREAMING RAIN WATER OR WIND EROSION DURING CONSTRUCTION.
 - PREVENT SEDIMENT DEPOSITS IN THE SEWER PIPES AND NEARBY COLLECTING STREAMS (AS APPLICABLE).
 - PREVENT AIR POLLUTION FROM PARTICULATE MATTER AND DUST.

- 1. PRIOR TO START OF CONSTRUCTION:**
 - WHEN SEDIMENT AND EROSION CONTROL MEASURES MUST BE REMOVED TO COMPLETE A PORTION OF THE WORK, THE SAME MEASURES MUST BE REINSTATED UPON THE WORK'S COMPLETION.
 - WORK TO BE DONE IN THE VICINITY OF MAJOR WATERWAYS TO BE CARRIED OUT FROM JULY AND SEPTEMBER ONLY.
 - MINIMIZE THE EXTENT OF DISTURBED AREAS AND THE DURATION OF EXPOSURE.
 - PROTECT DISTURBED AREAS FROM RUNOFF.
 - PROVIDE TEMPORARY COVER SUCH AS SEEDING OR MULCHING IF DISTURBED AREA WILL NOT BE REHABILITATED SHORTLY.
 - INSPECT STRAW BALE FLOW CHECK DAMS, SILT FENCES, SILT SACKS, COIR MATS, AND CATCH BASIN SUMPS REGULARLY AND AFTER EVERY MAJOR STORM EVENT. CLEAN AND REPAIR WHEN NECESSARY.
 - PLAN TO BE REVIEWED AND REVISED AS REQUIRED DURING CONSTRUCTION.
 - EROSION CONTROL FENCING TO BE ALSO INSTALLED AROUND THE BASE OF ALL STOCKPILES.
 - DO NOT LOCATE TOPSOIL PILES AND EXCAVATION MATERIAL CLOSER THAN 2.5m FROM ANY PAVED SURFACE, OR ONE WHICH IS TO BE PAVED BEFORE THE PILE IS REMOVED. ALL TOPSOIL PILES ARE TO BE SEEDED IN THEY ARE TO REMAIN ON SITE LONG ENOUGH FOR SEEDS TO GROW (LONGER THAN 30 DAYS). WHEN STORING SOIL ON SITE IN PILES THE CONTRACTOR MUST COVER EACH PILE WITH TARPS, STRAW OR A GEOTEXTILE FABRIC TO AVOID FINE PARTICLES TRANSPORT BY WIND AND/OR STREAMING RAIN WATER.
 - CONTROL WIND-BLOWN DUST OFF SITE TO ACCEPTABLE LEVELS BY SEEDING TOPSOIL PILES AND OTHER AREAS TEMPORARILY (PROVIDE WATERING AS REQUIRED). FOR DUST CONTROL, CONTRACTOR TO APPLY CALCIUM CHLORIDE (TYPE I - OPSD 201) AND CANCOSS-15-1) AND WATER WITH EQUIPMENT APPROVED BY THE OWNER'S REPRESENTATIVE AT RATE IN ACCORDANCE TO OPSD 509 WHEN DIRECTED BY OWNER'S REPRESENTATIVE.
 - ALL EROSION CONTROL STRUCTURE TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN STABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE GROUND COVER. SEDIMENT CAPTURE SILT SACKS MUST BE MAINTAINED AND CANNOT BE REMOVED UNTIL ALL LANDSCAPING AREAS ARE COMPLETED.
 - NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THIS CONSULTING ENGINEER AND THE CITY OF OTTAWA DEPARTMENT OF PUBLIC WORKS.
 - CONTRACTOR RESPONSIBLE FOR MUNICIPAL ROADWAY AND SIDEWALK TO BE CLEANED OF ALL SEDIMENT FROM VEHICULAR TRACKING ETC. AT THE END OF EACH WORK DAY.
 - DURING WEATHER CONDITIONS, TRUCKS AND ALL VEHICLES/EQUIPMENT LEAVING THE SITE ARE TO BE SCRAPPED.
 - ANY MUD/MATERIAL TRACKED ONTO THE ROAD SHALL BE REMOVED IMMEDIATELY BY HAND OR RUBBER TIRE LOADER.
 - TAKE ALL NECESSARY STEPS TO PREVENT BUILDING MATERIAL, CONSTRUCTION DEBRIS OR WASTE BEING SPILLED OR TRACKED ONTO ADJUTING PROPERTIES OR PUBLIC STREETS DURING CONSTRUCTION AND PROCEED IMMEDIATELY TO CLEAN UP ANY AREAS SO AFFECTED.
 - PROVIDE GRAVEL ENTRANCE WHEREVER EQUIPMENT LEAVES THE SITE TO PROVIDE MUD TRACKING ONTO PAVED SURFACES. GRAVEL BED SHALL BE A MINIMUM OF 0.15m DEEP AND SHALL CONSIST OF COARSE MATERIAL. MAINTAIN GRAVEL ENTRANCE IN CLEAN CONDITION.
- 2. DURING CONSTRUCTION:**
 - SEDIMENT AND EROSION CONTROL MEASURES TO BE CONSTRUCTED AS PER OPSD 505.
 - WHEN SEDIMENT AND EROSION CONTROL MEASURES MUST BE REMOVED TO COMPLETE A PORTION OF THE WORK, THE SAME MEASURES MUST BE REINSTATED UPON THE WORK'S COMPLETION.
 - WORK TO BE DONE IN THE VICINITY OF MAJOR WATERWAYS TO BE CARRIED OUT FROM JULY AND SEPTEMBER ONLY.
 - MINIMIZE THE EXTENT OF DISTURBED AREAS AND THE DURATION OF EXPOSURE.
 - PROTECT DISTURBED AREAS FROM RUNOFF.
 - PROVIDE TEMPORARY COVER SUCH AS SEEDING OR MULCHING IF DISTURBED AREA WILL NOT BE REHABILITATED SHORTLY.
 - INSPECT STRAW BALE FLOW CHECK DAMS, SILT FENCES, SILT SACKS, COIR MATS, AND CATCH BASIN SUMPS REGULARLY AND AFTER EVERY MAJOR STORM EVENT. CLEAN AND REPAIR WHEN NECESSARY.
 - PLAN TO BE REVIEWED AND REVISED AS REQUIRED DURING CONSTRUCTION.
 - EROSION CONTROL FENCING TO BE ALSO INSTALLED AROUND THE BASE OF ALL STOCKPILES.
 - DO NOT LOCATE TOPSOIL PILES AND EXCAVATION MATERIAL CLOSER THAN 2.5m FROM ANY PAVED SURFACE, OR ONE WHICH IS TO BE PAVED BEFORE THE PILE IS REMOVED. ALL TOPSOIL PILES ARE TO BE SEEDED IN THEY ARE TO REMAIN ON SITE LONG ENOUGH FOR SEEDS TO GROW (LONGER THAN 30 DAYS). WHEN STORING SOIL ON SITE IN PILES THE CONTRACTOR MUST COVER EACH PILE WITH TARPS, STRAW OR A GEOTEXTILE FABRIC TO AVOID FINE PARTICLES TRANSPORT BY WIND AND/OR STREAMING RAIN WATER.
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 - ALL EROSION CONTROL STRUCTURE TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN STABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE GROUND COVER. SEDIMENT CAPTURE SILT SACKS MUST BE MAINTAINED AND CANNOT BE REMOVED UNTIL ALL LANDSCAPING AREAS ARE COMPLETED.
 - NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THIS CONSULTING ENGINEER AND THE CITY OF OTTAWA DEPARTMENT OF PUBLIC WORKS.
 - CONTRACTOR RESPONSIBLE FOR MUNICIPAL ROADWAY AND SIDEWALK TO BE CLEANED OF ALL SEDIMENT FROM VEHICULAR TRACKING ETC. AT THE END OF EACH WORK DAY.
 - DURING WEATHER CONDITIONS, TRUCKS AND ALL VEHICLES/EQUIPMENT LEAVING THE SITE ARE TO BE SCRAPPED.
 - ANY MUD/MATERIAL TRACKED ONTO THE ROAD SHALL BE REMOVED IMMEDIATELY BY HAND OR RUBBER TIRE LOADER.
 - TAKE ALL NECESSARY STEPS TO PREVENT BUILDING MATERIAL, CONSTRUCTION DEBRIS OR WASTE BEING SPILLED OR TRACKED ONTO ADJUTING PROPERTIES OR PUBLIC STREETS DURING CONSTRUCTION AND PROCEED IMMEDIATELY TO CLEAN UP ANY AREAS SO AFFECTED.
 - PROVIDE GRAVEL ENTRANCE WHEREVER EQUIPMENT LEAVES THE SITE TO PROVIDE MUD TRACKING ONTO PAVED SURFACES. GRAVEL BED SHALL BE A MINIMUM OF 0.15m DEEP AND SHALL CONSIST OF COARSE MATERIAL. MAINTAIN GRAVEL ENTRANCE IN CLEAN CONDITION.
- 3. AFTER CONSTRUCTION:**
 - PROVIDE PERMANENT COVER CONSISTING OF TOPSOIL AND SEED TO DISTURBED AREAS.
 - ALL SEDIMENT AND EROSION CONTROL MEASURES TO BE REMOVED BY THE CONTRACTOR FOLLOWING THE COMPLETION OF WORK AND AFTER DISTURBED AREAS HAVE BEEN REHABILITATED AND STABILIZED. THIS INCLUDES REMOVE STRAW BALE FLOW CHECK DAMS, SILT FENCES AND FILTER CLOTHS ON CATCH BASINS AND MOUNDLE COVERS.
 - INSPECT AND CLEAN CATCH BASIN SUMPS AND STORM SEWERS.



Project Manager	MB
Project Designer	JEG
Project Architect	JEF
Landscape Architect	JEF
Civil Engineer	PARSONS
Structural Engineer	ENR
Mechanical Engineer	Smith + Anderson
Electrical Engineer	Smith + Anderson
Plumbing Engineer	Smith + Anderson
Interior Designer	Collins
Equipment Planner	Collins
Wayfinding	Collins

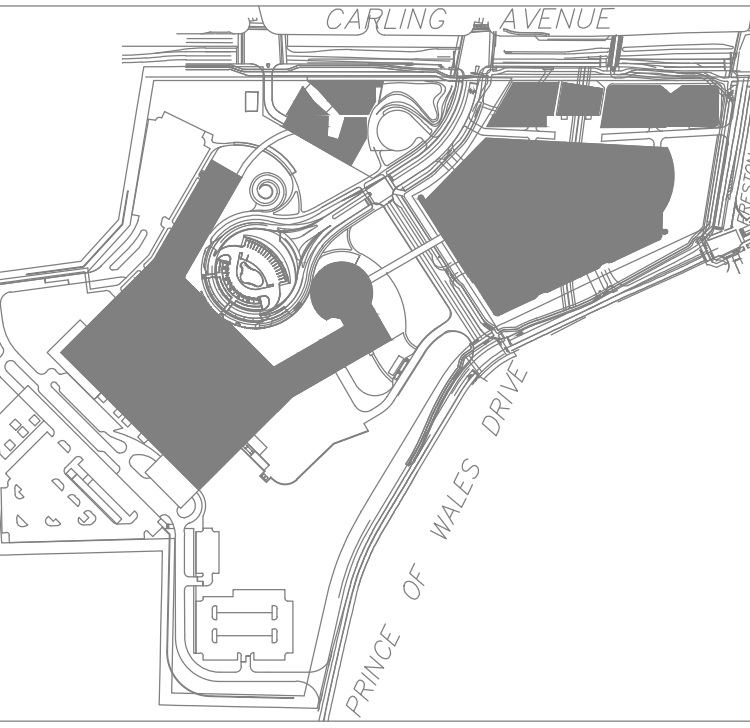
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05	2023-02-24	ISSUED FOR RFP VERSION 1.0
06	2023-04-12	RE-ISSUED FOR SPC & FLUCA

Project Number	1033980
Original Issue	04/12/22
Date of Issue	04/12/2022
File Number	18991

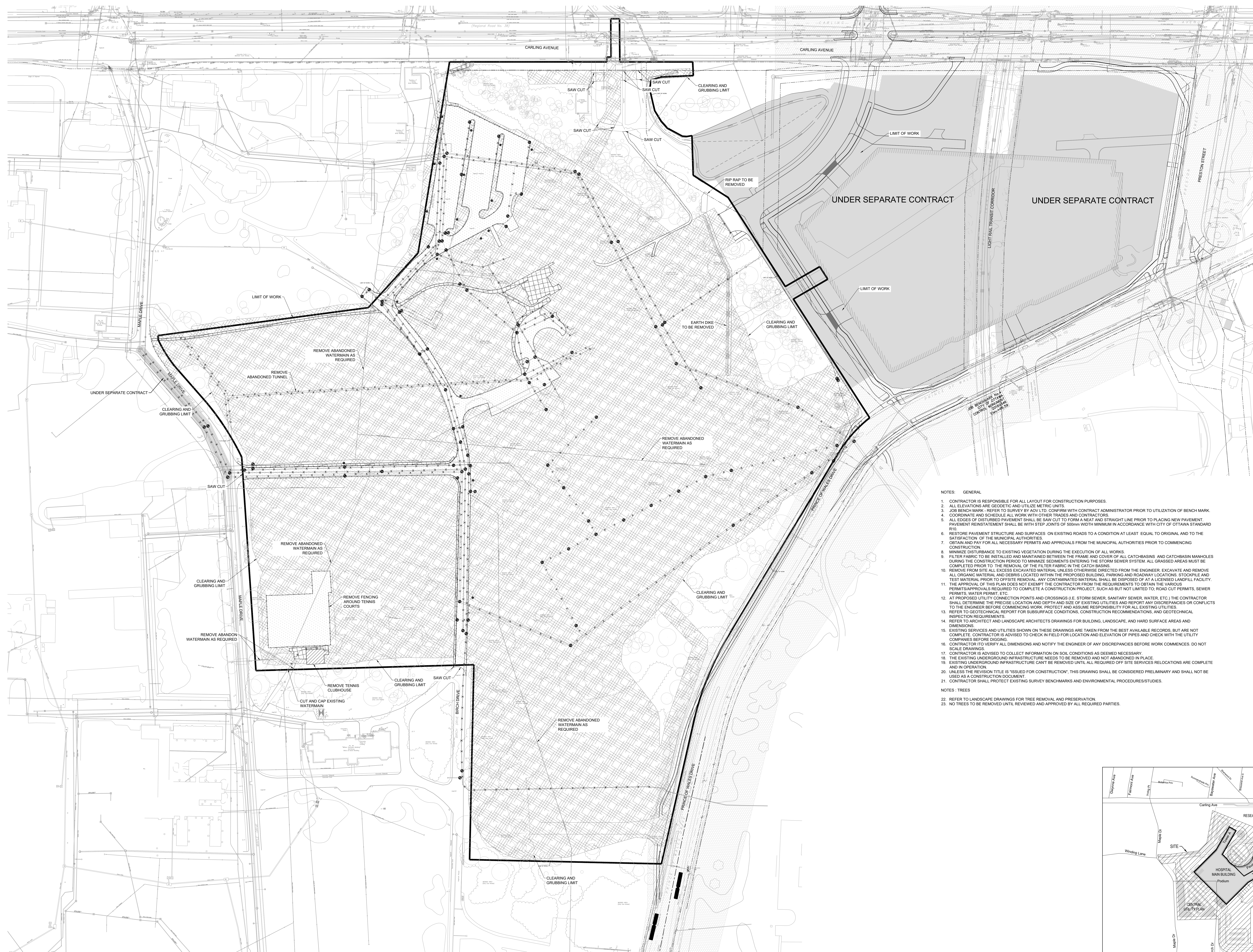
Sheet Name
EROSION AND SEDIMENT CONTROL PLAN

Sheet Number
C001

Project Status
STAGE 3



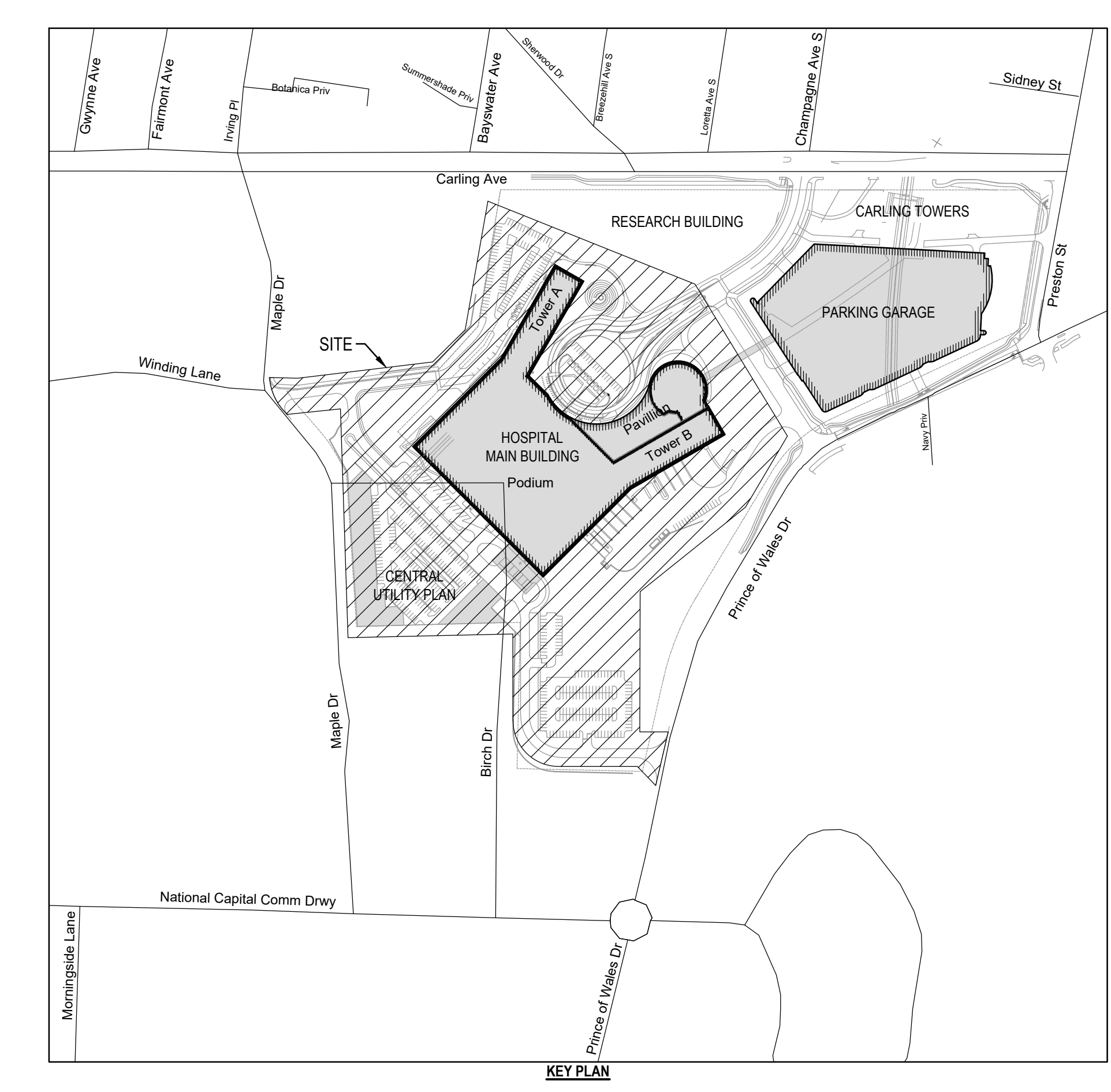
THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT



LEGEND

- EXISTING PROPERTY LINE
- LIMIT OF WORK
- PHASE 2 PARKING GARAGE PROJECT (UNDER SEPARATE CONTRACT)
- PROPOSED ROADWAY WORKS TO BE REVIEWED AND APPROVED THROUGH RMA PROCESS
- BELL
- GAS
- HYDRO
- STREET LIGHT
- TELUS
- TRAFFIC
- STORM
- SANITARY
- WATER
- REMOVE ADJUSTMENT CATCHBASIN
- REMOVE ADJUSTMENT MAINTENANCE HOLE
- REMOVE SEWER OR WATERMAIN
- ABANDON SEWER OR WATERMAIN
- CURB REMOVAL
- FENCE REMOVAL
- CONCRETE REMOVALS
- ASPHALT REMOVAL
- AREA TO BE CLEARED AND GRUBBED
- BUILDING TO BE REMOVED

- NOTES - GENERAL**
- CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.
 - ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
 - JOB BENCHMARK - REFER TO SURVEY BY ADI LTD. CONFIRM WITH CONTRACT ADMINISTRATOR PRIOR TO UTILIZATION OF BENCH MARK.
 - COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
 - ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500mm WIDTH MINIMUM IN ACCORDANCE WITH CITY OF OTTAWA STANDARD R110.
 - RESTORE PAVEMENT STRUCTURE AND SURFACES ON EXISTING ROADS TO A CONDITION AT LEAST EQUAL TO ORIGINAL AND TO THE SATISFACTION OF THE MUNICIPAL AUTHORITIES.
 - OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.
 - MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.
 - FILTER FABRIC TO BE INSTALLED AND MAINTAINED BETWEEN THE FRAME AND COVER OF ALL CATCHBASINS AND CATCHBASIN MANHOLES DURING THE CONSTRUCTION PERIOD TO MINIMIZE SEDIMENT ENTERING THE STORM SEWER SYSTEM. ALL GRASSED AREAS MUST BE COMPLETED PRIOR TO THE REMOVAL OF THE FILTER FABRIC IN THE CATCH BASIN.
 - REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL UNLESS OTHERWISE DIRECTED FROM THE ENGINEER. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS LOCATED WITHIN THE PROPOSED BUILDING, PARKING AND ROADWAY LOCATIONS. STOCKPILE AND TEST MATERIAL PRIOR TO OFF SITE REMOVAL. ANY CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
 - THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS BUT NOT LIMITED TO: ROAD CUT PERMITS, SEWER PERMITS, WATER PERMIT, ETC.
 - AT PROPOSED UTILITY CONNECTION POINTS AND CROSSINGS (I.E. STORM SEWER, SANITARY SEWER, WATER, ETC.) THE CONTRACTOR SHALL DETERMINE THE PRECISE LOCATION AND DEPTH AND SIZE OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES.
 - REFER TO GEOTECHNICAL REPORT FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS.
 - REFER TO ARCHITECT AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING, LANDSCAPE, AND HARD SURFACE AREAS AND DIMENSIONS.
 - EXISTING SERVICES AND UTILITIES SHOWN ON THESE DRAWINGS ARE TAKEN FROM THE BEST AVAILABLE RECORDS, BUT ARE NOT COMPLETE. CONTRACTOR IS ADVISED TO CHECK IN FIELD FOR LOCATION AND ELEVATION OF PIPES AND CHECK WITH THE UTILITY COMPANIES BEFORE DIGGING.
 - CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE WORK COMMENCES. DO NOT SCALE DRAWINGS.
 - CONTRACTOR IS ADVISED TO COLLECT INFORMATION ON SOIL CONDITIONS AS DEEMED NECESSARY.
 - THE EXISTING UNDERGROUND INFRASTRUCTURE NEEDS TO BE REMOVED AND NOT ABANDONED IN PLACE.
 - EXISTING UNDERGROUND INFRASTRUCTURE CANNOT BE REMOVED UNTIL ALL REQUIRED OFF SITE SERVICES RELOCATIONS ARE COMPLETE AND IN OPERATION.
 - UNLESS THE REVISION TITLE IS "ISSUED FOR CONSTRUCTION", THIS DRAWING SHALL BE CONSIDERED PRELIMINARY AND SHALL NOT BE USED AS A CONSTRUCTION DOCUMENT.
 - CONTRACTOR SHALL PROTECT EXISTING SURVEY BENCHMARKS AND ENVIRONMENTAL PROCEDURES/STUDIES.
- NOTES - TREES**
- REFER TO LANDSCAPE DRAWINGS FOR TREE REMOVAL AND PRESERVATION.
 - NO TREES TO BE REMOVED UNTIL REVIEWED AND APPROVED BY ALL REQUIRED PARTIES.



Project Manager M1
Project Designer JEO
Project Architect JEO
Landscape Architect J.F. Fairs
Civil Engineer PARSONS
Structural Engineer EYP
Mechanical Engineer Smith + Anderson
Electrical Engineer Smith + Anderson
Plumbing Engineer Smith + Anderson
Interior Designer Collins
Equipment Planner Collins
Wayfinding PARSONS

Sheet Reviewer PARSONS

MARK	DATE	DESCRIPTION
01	2022-09-23	ISSUED FOR PRE-CONSULTATION
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Project Number 1033980
Original Issue 04/21/22
File Number 001-22-02-0168
File 10091

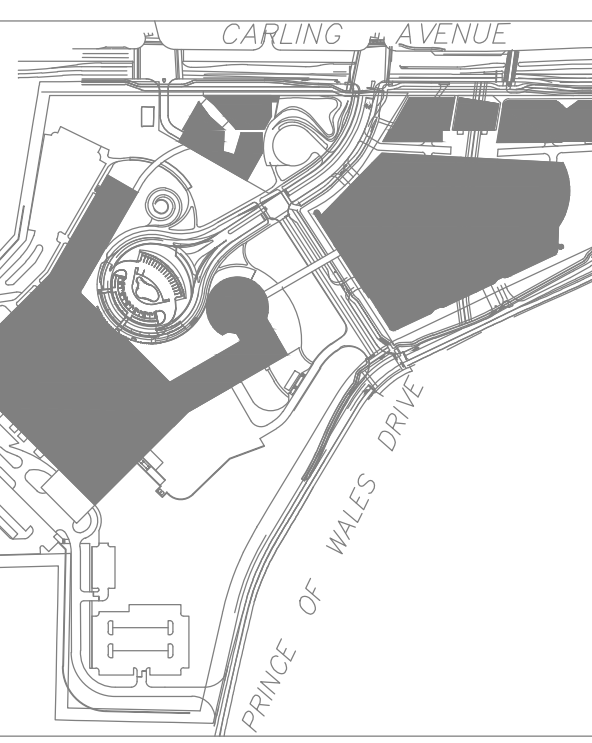
PRELIMINARY
NOT FOR CONSTRUCTION

Sheet Name
REMOVALS

Sheet Number
C002

Project Status
STAGE 3

D07-12-22-016



THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT

NOTES: GENERAL

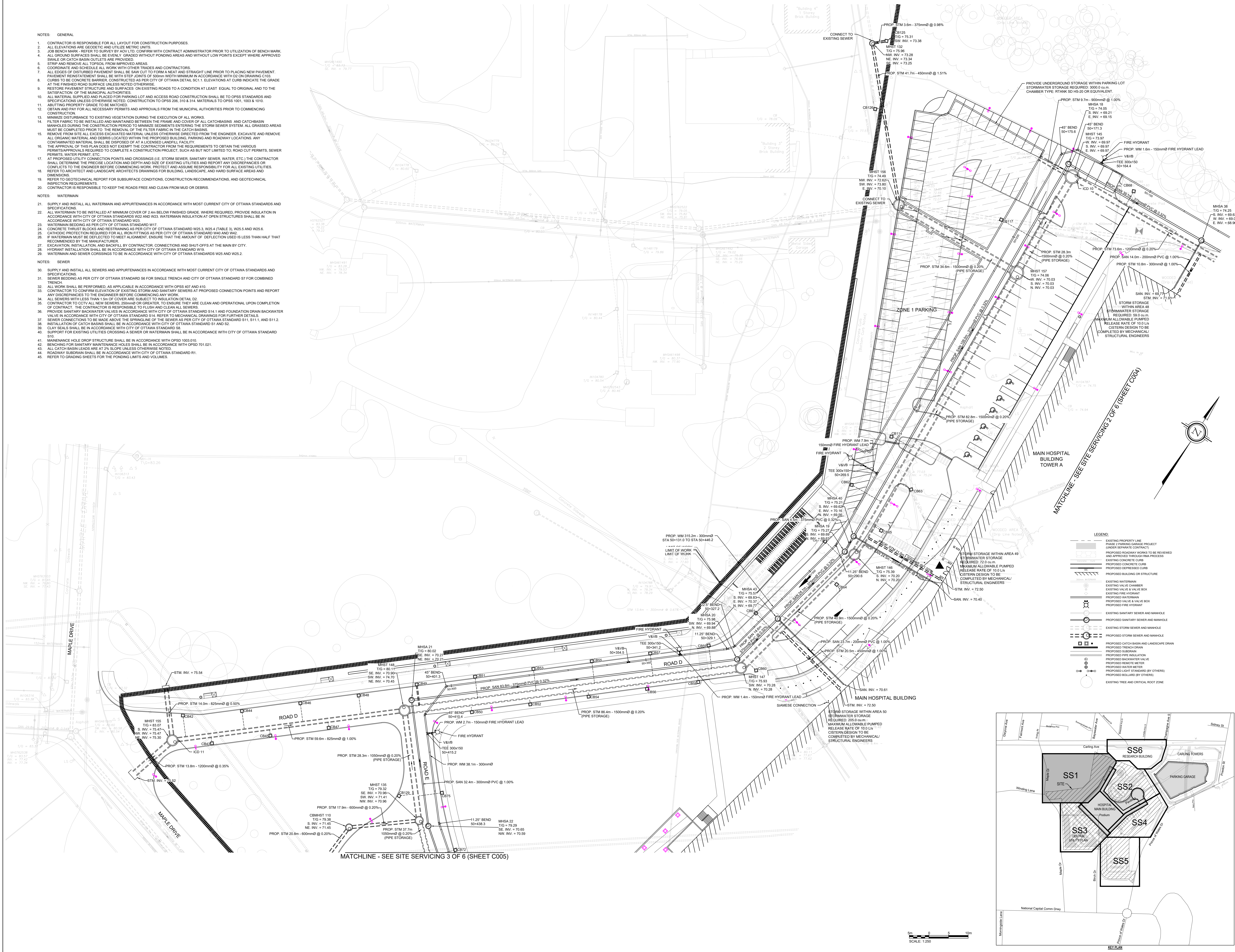
- CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.
- ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
- JOB BENCH MARK - REFER TO SURVEY BY AGL LTD. CONTRA WITH CONTRACT ADMINISTRATOR PRIOR TO UTILIZATION OF BENCH MARK.
- ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
- STRIP AND REMOVE ALL TOPSOIL FROM IMPROVED AREAS.
- COORDINATE AND SCHEME ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT.
- PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500mm WIDTH MINIMUM IN ACCORDANCE WITH CD ON DRAWING C103.
- CURBS TO BE CONCRETE BARRER. CONSTRUCT AS PER CITY OF OTTAWA DETAIL S01.1. ELEVATIONS AT CURBS INDICATE THE GRADE AT THE FINISHED ROAD SURFACE UNLESS NOTED OTHERWISE.
- RESTORE PAVEMENT STRUCTURE AND SURFACES ON EXISTING ROADS TO A CONDITION AT LEAST EQUAL TO ORIGINAL AND TO THE SATISFACTION OF THE MUNICIPAL AUTHORITIES.
- ALL MATERIALS SHALL BE PLACED FOR PAVING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPS8 STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. CONSTRUCTION TO OPS8 206, 310 & 314 MATERIALS TO OPS8 1001, 1003 & 1010.
- ADJUSTING PROPERTY GRADE TO BE MATCHED.
- OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.
- MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.
- FILTER FABRIC TO BE INSTALLED AND MAINTAINED BETWEEN THE FRAME AND COVER OF ALL CATCHBASINS AND CATCHBASIN MANHOLES DURING THE CONSTRUCTION PERIOD TO MINIMIZE SEDIMENTS ENTERING THE STORM SEWER SYSTEM. ALL GRASSED AREAS MUST BE COMPLETED PRIOR TO THE REMOVAL OF THE FILTER FABRIC IN THE CATCH BASIN.
- REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL UNLESS OTHERWISE DIRECTED FROM THE ENGINEER. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS LOCATED WITHIN THE PROPOSED BUILDING, PARKING AND ROADWAY LOCATIONS. ANY CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
- THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS BUT NOT LIMITED TO: ROAD CUT PERMITS, SEWER PERMITS, WATER PERMIT, ETC.
- AT PROPOSED UTILITY CONNECTION POINTS AND CROSSINGS (I.E. STORM SEWER, SANITARY SEWER, WATER, ETC.) THE CONTRACTOR SHALL DETERMINE THE PRECISE LOCATION AND DEPTH AND SIZE OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES. REFER TO ARCHITECT AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDINGS, LANDSCAPE, AND HARD SURFACE AREAS AND DIMENSIONS.
- REFER TO GEOTECHNICAL REPORT FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE TO KEEP THE ROADS FREE AND CLEAN FROM MUD OR DEBRIS.

NOTES: WATERMAIN

- SUPPLY AND INSTALL ALL WATERMAIN AND APPURTENANCES IN ACCORDANCE WITH MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
- ALL WATERMAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4m BELOW FINISHED GRADE. WHERE REQUIRED, PROVIDE INSULATION IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W22 AND W23. WATERMAIN INSULATION AT OPEN STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W23.
- WATERMAIN BEDDING AS PER CITY OF OTTAWA STANDARD W17.
- CONCRETE THROST BLOCKS AND RESTRAINS AS PER CITY OF OTTAWA STANDARD W23.4 (TABLE 3), W25.5 AND W25.6.
- CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS AS PER CITY OF OTTAWA STANDARD W40 AND W42.
- WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT. ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.
- EXCAVATION INSTALLATION AND BACKFILL BY CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN BY CITY.
- HYDRANT INSTALLATION SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W19.
- WATERMAIN AND SEWER CROSSINGS TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W25 AND W25.2.

NOTES: SEWER

- SUPPLY AND INSTALL ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
- SEWER BEDDING AS PER CITY OF OTTAWA STANDARD S6 FOR SINGLE TRENCH AND CITY OF OTTAWA STANDARD S7 FOR COMBINED TRENCH.
- ALL WORK SHALL BE PERFORMED, AS APPLICABLE IN ACCORDANCE WITH OPS8 407 AND 410.
- CONTRACTOR TO CONFIRM ELEVATION OF EXISTING STORM AND SANITARY SEWERS AT PROPOSED CONNECTION POINTS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE COMMENCING ANY WORK.
- ALL SEWERS WITH LESS THAN 1.5m OF COVER ARE SUBJECT TO INSULATION DETAIL D2.
- CONTRACTOR TO CUT ALL NEW SEWERS, 200mm OR GREATER, TO ENSURE THEY ARE CLEAN AND OPERATIONAL UPON COMPLETION OF CONTRACT. THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS.
- PROVIDE SANITARY BACKWATER VALVES IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S14.1 AND FOUNDATION DRAIN BACKWATER VALVE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S14. REFER TO MECHANICAL DRAWINGS FOR FURTHER DETAILS.
- SEWER CONNECTIONS TO BE MADE ABOVE THE SPRINGLINE OF THE SEWER AS PER CITY OF OTTAWA STANDARD S11, S11.1, AND S11.2.
- INSTALLATION OF CATCH BASINS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S1 AND S2.
- CLAY SEALS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S8.
- SUPPORT FOR EXISTING UTILITIES CROSSING A SEWER OR WATERMAIN SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S10.
- MAINTENANCE HOLE DROP STRUCTURE SHALL BE IN ACCORDANCE WITH OPS8 1003.010.
- BENCHING FOR SANITARY MAINTENANCE HOLES SHALL BE IN ACCORDANCE WITH OPS8 701.021.
- ALL CATCH BASIN LEADS ARE AT 2% SLOPE UNLESS OTHERWISE NOTED.
- ROADWAY SUBDRAIN SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD R1.
- REFER TO GRADING SHEETS FOR THE PONDING LIMITS AND VOLUMES.



LEGEND

	EXISTING PROPERTY LINE
	PROPOSED ROADWAY WORKS TO BE REVIEWED AND APPROVED THROUGH RMA PROCESS
	EXISTING CONCRETE CURB
	PROPOSED CONCRETE CURB
	PROPOSED DEPRESSED CURB
	PROPOSED BUILDING OR STRUCTURE
	EXISTING WATERMAIN
	EXISTING VALVE CHAMBER
	EXISTING VALVE BOX
	EXISTING WATERMAIN
	PROPOSED VALVE & VALVE BOX
	PROPOSED FIRE HYDRANT
	EXISTING SANITARY SEWER AND MANHOLE
	PROPOSED SANITARY SEWER AND MANHOLE
	EXISTING STORM SEWER AND MANHOLE
	PROPOSED STORM SEWER AND MANHOLE
	PROPOSED CATCH BASIN AND LANDSCAPE DRAIN
	PROPOSED SUBSOIL DRAIN
	PROPOSED BACKWATER VALVE
	PROPOSED FIRE HYDRANT LEAD
	PROPOSED LIGHT STANDARDS (BY OTHERS)
	EXISTING TREE AND CRITICAL ROOT ZONE

Project Manager: MI
 Project Designer: JEG
 Project Architect: JEG
 Landscape Architect: JEG
 Civil Engineer: PARSONS
 Structural Engineer: EWP
 Mechanical Engineer: Smith + Anderson
 Electrical Engineer: Smith + Anderson
 Plumbing Engineer: Smith + Anderson
 Equipment Planner: Collins
 Windfields: Collins

Sheet Reviewer: PARSONS

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Project Number: 1033960
 Original Issue: 04/12/22
 File Number: 201-22-02168
 Rev: 18991

PRELIMINARY
NOT FOR CONSTRUCTION

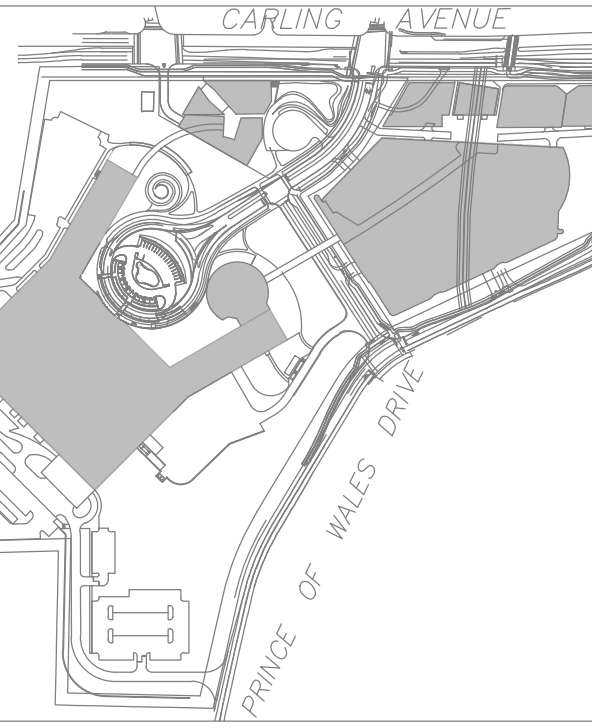
Sheet Name
SERVICING PLAN
1 OF 6

Sheet Number
C003

Project Status
STAGE 3

D07-12-22-0

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THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT

- NOTES - GENERAL
- CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.
 - ALL ELEVATIONS ARE GEODETIC AND UTILISE METRIC UNITS.
 - JOB BENCH MARK - REFER TO SURVEY BY ADV. LTD. CONFIRM WITH CONTRACT ADMINISTRATOR PRIOR TO UTILIZATION OF BENCH MARK.
 - ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALES OR CATCH BASIN OUTLETS ARE PROVIDED.
 - STRIP AND REMOVE ALL TOPSOIL FROM IMPROVED AREAS.
 - COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
 - ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 300MM WIDTH MINIMUM IN ACCORDANCE WITH D2 ON DRAWING C103.
 - CURBS TO BE CONCRETE BARRIER, CONSTRUCTED AS PER CITY OF OTTAWA DETAIL SC1.1. ELEVATIONS AT CURB INDICATE THE GRADE AT THE FINISHED ROAD SURFACE AND SHALL BE IN ACCORDANCE WITH THE SATISFACTION OF THE MUNICIPAL AUTHORITIES.
 - RESTORE PAVEMENT STRUCTURE AND SURFACES ON EXISTING ROADS TO A CONDITION AT LEAST EQUAL TO ORIGINAL AND TO THE SATISFACTION OF THE MUNICIPAL AUTHORITIES.
 - ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPS5 STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. CONSTRUCTION TO OPS5 206, 310 & 314. MATERIALS TO OPS5 1001, 1003 & 1010.
 - ABUTTING PROPERTY GRADE TO BE MATCHED.
 - OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.
 - MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.
 - FILTER FABRIC TO BE INSTALLED AND MAINTAINED BETWEEN THE FRAME AND COVER OF ALL CATCHBASINS AND CATCHBASIN MANHOLES DURING THE CONSTRUCTION PERIOD TO MINIMIZE SEDIMENTS ENTERING THE STORM SEWER SYSTEM. ALL GRASSSED AREAS MUST BE COMPLETED PRIOR TO THE REMOVAL OF THE FILTER FABRIC IN THE CATCH BASINS.
 - REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL UNLESS OTHERWISE DIRECTED FROM THE ENGINEER. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS LOCATED WITHIN THE PROPOSED BUILDING, PARKING AND ROADWAY LOCATIONS. ANY CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
 - THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS BUT NOT LIMITED TO: ROAD CUT PERMITS, SEWER PERMITS, WATER PERMIT, ETC.
 - AT PROPOSED UTILITY CONNECTION POINTS AND CROSSINGS (I.E. STORM SEWER, SANITARY SEWER, WATER, ETC.) THE CONTRACTOR SHALL DETERMINE THE PRECISE LOCATION AND DEPTH AND SIZE OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES.
 - REFER TO ARCHITECT AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING, LANDSCAPE, AND HARD SURFACE AREAS AND DIMENSIONS.
 - REFER TO GEOTECHNICAL REPORT FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS.
 - CONTRACTOR IS RESPONSIBLE TO KEEP THE ROADS FREE AND CLEAN FROM MUD OR DEBRIS.

- NOTES - WATERMAIN
- SUPPLY AND INSTALL ALL WATERMAIN AND APPURTENANCES IN ACCORDANCE WITH MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
 - ALL WATERMAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4m BELOW FINISHED GRADE. WHERE REQUIRED, PROVIDE INSULATION IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W22 AND W23. WATERMAIN INSULATION AT OPEN STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W23.
 - WATERMAIN BEDDING AS PER CITY OF OTTAWA STANDARD W17.
 - CONCRETE THRUST BLOCKS AND RESTRAINING AS PER CITY OF OTTAWA STANDARD W25.3, W25.4 (TABLE 3), W25.5 AND W25.6.
 - CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS AS PER CITY OF OTTAWA STANDARD W40 AND W42.
 - IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.
 - EXCAVATION, INSTALLATION, AND BACKFILL BY CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN BY CITY.
 - WATERMAIN AND SEWER CROSSINGS TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W25 AND W25.2.
- NOTES - SEWER
- SUPPLY AND INSTALL ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
 - SEWER BEDDING AS PER CITY OF OTTAWA STANDARD S6 FOR SINGLE TRENCH AND CITY OF OTTAWA STANDARD S7 FOR COMBINED TRENCH.
 - ALL WORK SHALL BE PERFORMED, AS APPLICABLE IN ACCORDANCE WITH OPS5 407 AND 410.
 - CONTRACTOR TO CONFIRM ELEVATION OF EXISTING STORM AND SANITARY SEWERS AT PROPOSED CONNECTION POINTS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE COMMENCING ANY WORK.
 - ALL SEWERS WITH LESS THAN 1.5m OF COVER ARE SUBJECT TO INSULATION WITH OPS5 1021.
 - CONTRACTOR TO CUT ALL NEW SEWERS, 250mm OR GREATER, TO ENSURE THEY ARE CLEAN AND OPERATIONAL UPON COMPLETION OF CONTRACT. THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS.
 - PROVIDE SANITARY BACKWATER VALVES IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S14.5 AND FOUNDATION DRAIN BACKWATER VALVES IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S14. REFER TO MECHANICAL DRAWINGS FOR FURTHER DETAILS.
 - SEWER CONNECTIONS TO BE MADE ABOVE THE SPRINGLINE OF THE SEWER AS PER CITY OF OTTAWA STANDARD S11, S11.1, AND S11.2.
 - INSTALLATION OF CATCH BASINS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S1 AND S2.
 - CLAY SEALS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S8.
 - SUPPORT FOR EXISTING UTILITIES CROSSING A SEWER OR WATERMAIN SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S10.
 - MAINTENANCE HOLE DROP STRUCTURE SHALL BE IN ACCORDANCE WITH OPS5 1003.010.
 - BENCHING FOR SANITARY MAINTENANCE HOLES SHALL BE IN ACCORDANCE WITH OPS5 1003.021.
 - ALL CATCH BASIN LEADS ARE AT 2% SLOPE UNLESS OTHERWISE NOTED.
 - ROADWAY SUBGRADE SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD R1.
 - REFER TO GRADING SHEETS FOR THE PONDING LIMITS AND VOLUMES.

LEGEND:

	EXISTING PRIORITY LINE
	PHASE 2 PARKING GARAGE PROJECT (UNDER SEPARATE CONTRACT)
	PROPOSED ROADWAY WORKS TO BE REVIEWED AND APPROVED THROUGH RMA PROCESS
	EXISTING CONCRETE CURB
	PROPOSED CONCRETE CURB
	PROPOSED BUILDING OR STRUCTURE
	EXISTING WATERMAIN
	EXISTING VALVE CHAMBER
	EXISTING FIRE HYDRANT
	PROPOSED VALVE & VALVE BOX
	PROPOSED FIRE HYDRANT
	EXISTING SANITARY SEWER AND MANHOLE
	PROPOSED SANITARY SEWER AND MANHOLE
	EXISTING STORM SEWER AND MANHOLE
	PROPOSED STORM SEWER AND MANHOLE
	PROPOSED CATCH BASIN AND LANDSCAPE DRAIN
	PROPOSED TRENCH DRAIN
	PROPOSED PIPE INSULATION
	PROPOSED BACKWATER VALVE
	PROPOSED REMOTE METER
	PROPOSED WATER METER
	PROPOSED LIGHT STANDARD (BY OTHERS)
	PROPOSED BOLLARD (BY OTHERS)
	EXISTING TREE AND CRITICAL ROOT ZONE



Project Manager	MT
Project Designer	JEG
Project Architect	JF Fahs
Landscape Architect	PARSONS
Civil Engineer	EXP
Structural Engineer	Smith + Anderson
Mechanical Engineer	Smith + Anderson
Electrical Engineer	Smith + Anderson
Plumbing Engineer	Smith + Anderson
Interior Designer	Collins
Equipment Planner	Collins
Wardfinders	

MARK	DATE	DESCRIPTION
01	2022-09-23	ISSUED FOR PRE-CONSULTATION
02	2022-10-26	DRAFT FOR RFP S/D
03	2022-11-30	ISSUED FOR SPC & FLUIDA - 1ST SUBMISSION
04	2022-12-02	ISSUED FOR 3A1.2
05	2023-02-24	ISSUED FOR RFP VERSION 1.0
06	2023-04-12	RE-ISSUED FOR SPC & FLUIDA

Project Number	10333962
Original Issue	04/12/22
File Number	2021-02-22-0168
Rev	18991

PRELIMINARY
NOT FOR CONSTRUCTION

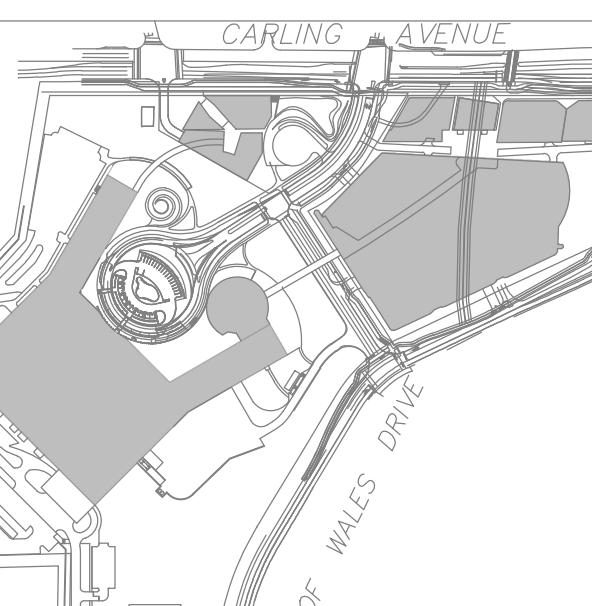
SITE
SITE SERVICING PLAN
2 OF 6

Sheet Number
C004

Project Status
STAGE 3

D07-12-22-0168

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NOTES - GENERAL

- CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.
- ALL ELEVATIONS ARE GEODETIC AND UTILITY METRIC UNITS.
- JOB BENCH MARK - REFER TO SURVEY BY ADV. LTD. CONFIRM WITH CONTRACT ADMINISTRATOR PRIOR TO UTILIZATION OF BENCH MARK.
- ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
- STOP AND REMOVE ALL TOPSOIL FROM IMPROVED AREAS.
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINFORCEMENT SHALL BE WITH STEEL JOISTS OF 200mm WIDTH MINIMUM IN ACCORDANCE WITH D2 ON DRAWING C103.
- CURBS TO BE CONCRETE BARRIER, CONSTRUCTED AS PER CITY OF OTTAWA DETAIL S1.1. ELEVATIONS AT CURBS INDICATE THE GRADE AT THE FINISHED ROAD SURFACE UNLESS NOTED OTHERWISE.
- RESTORE PAVEMENT STRUCTURE AND SURFACES ON EXISTING ROADS TO A CONDITION AT LEAST EQUAL TO ORIGINAL AND TO THE SATISFACTION OF THE SURFACE AUTHORITY.
- ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPS STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. CONSTRUCTION TO OPS 206, 310 & 314. MATERIALS TO OPS 1001, 1003 & 1010.
- ABUTTING PROPERTY GRADE TO BE MATCHED.
- OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.
- MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.
- FILTER FABRIC TO BE INSTALLED AND MAINTAINED BETWEEN THE FRAME AND COVER OF ALL CATCHBASINS AND CATCH-BASIN MANHOLES DURING THE CONSTRUCTION PERIOD TO MINIMIZE SEDIMENTS ENTERING THE STORM SEWER SYSTEM. ALL GRASSED AREAS MUST BE COMPLETED PRIOR TO THE REMOVAL OF THE FILTER FABRIC IN THE CATCH BASINS.
- REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL UNLESS OTHERWISE DIRECTED FROM THE ENGINEER. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS LOCATED WITHIN THE PROPOSED BUILDING, PARKING AND ROADWAY LOCATIONS. ANY CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
- THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS BUT NOT LIMITED TO ROAD CUT PERMITS, SEWER PERMITS, WATER PERMIT, ETC.
- AT PROPOSED UTILITY CONNECTION POINTS AND CROSSINGS (I.E. STORM SEWER, SANITARY SEWER, WATER, ETC.) THE CONTRACTOR SHALL DETERMINE THE PRECISE LOCATION AND DEPTH AND SIZE OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES. REFER TO ARCHITECT AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING, LANDSCAPE AND HARD SURFACE AREAS AND DIMENSIONS.
- REFER TO GEOTECHNICAL REPORT FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE TO KEEP THE ROADS FREE AND CLEAN FROM MUD OR DEBRIS.

NOTES - WATERMAIN

- SUPPLY AND INSTALL ALL WATERMAIN AND APPURTENANCES IN ACCORDANCE WITH MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
- ALL WATERMAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4m BELOW FINISHED GRADE, WHERE REQUIRED, PROVIDE INSULATION IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W22 AND W23. WATERMAIN INSULATION AT OPEN STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W23.
- WATERMAIN BEDDING AS PER CITY OF OTTAWA STANDARD W17.
- CONCRETE THRUST BLOCKS AND RESTRAINING AS PER CITY OF OTTAWA STANDARD W25.3, W25.4 (TABLE 3), W25.5 AND W25.6.
- CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS AS PER CITY OF OTTAWA STANDARD W26 AND W27.
- IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.
- EXCAVATION, INSTALLATION, AND BACKFILL BY CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN BY CITY.
- HYDRANT INSTALLATION SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W31 AND W32.
- WATERMAIN AND SEWER CROSSINGS TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W25 AND W25.2.

NOTES - SEWER

- SUPPLY AND INSTALL ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
- SEWER BEDDING AS PER CITY OF OTTAWA STANDARD S5 FOR SINGLE TRENCH AND CITY OF OTTAWA STANDARD S7 FOR COMBINED TRENCH.
- ALL WORK SHALL BE PERFORMED, AS APPLICABLE IN ACCORDANCE WITH OPS 487 AND 410.
- CONTRACTOR TO CONFIRM ELEVATION OF EXISTING STORM AND SANITARY SEWERS AT PROPOSED CONNECTION POINTS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE COMMENCING ANY WORK.
- ALL SEWERS WITH LESS THAN 1.5m OF COVER ARE SUBJECT TO INSULATION DETAIL D2.
- CONTRACTOR TO CUT ALL NEW SEWERS, 250mm OR GREATER, TO ENSURE THEY ARE CLEAN AND OPERATIONAL UPON COMPLETION OF CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR FLUSH AND CLEAN ALL SEWERS.
- PROVIDE SANITARY BACKWATER VALVES IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S14.1 AND FOUNDATION DRAIN BACKWATER VALVE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S14.2 TO MECHANICAL DRAWINGS FOR FURTHER DETAILS.
- SEWER CONNECTIONS TO BE MADE ABOVE THE FINISH FLOOR OF THE BUILDING.
- INSTALLATION OF CATCH BASINS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S1 AND S2.
- CLAY SEALS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S5.
- SUPPORT FOR EXISTING UTILITIES CROSSING A SEWER OR WATERMAIN SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S10.
- MAINTENANCE HOLE DROP STRUCTURE SHALL BE IN ACCORDANCE WITH OPS1003.010.
- BENCHING FOR SANITARY MAINTENANCE HOLES SHALL BE IN ACCORDANCE WITH OPS101.021.
- ALL CATCH BASIN LEADS ARE AT 2% SLOPE UNLESS OTHERWISE NOTED.
- ROADWAY SUBGRADE SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD R1.
- REFER TO GRADING SHEETS FOR THE PONDING LIMITS AND VOLUMES.

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PONDING GARAGE PROJECT (UNDER SEPARATE CONTRACT)
- PROPOSED CONCRETE CURB
- PROPOSED CONCRETE CURB
- PROPOSED BUILDING OR STRUCTURE
- EXISTING WATERMAIN
- EXISTING VALVE CHAMBER
- EXISTING FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPOSED VALVE & VALVE BOX
- PROPOSED VALVE & VALVE BOX
- EXISTING SANITARY SEWER AND MANHOLE
- PROPOSED SANITARY SEWER AND MANHOLE
- EXISTING STORM SEWER AND MANHOLE
- PROPOSED STORM SEWER AND MANHOLE
- PROPOSED CATCH BASIN AND LANDSCAPE DRAIN
- PROPOSED TRENCH OPEN
- PROPOSED SUBCRAN
- PROPOSED FIRE RELIEF VALVE
- PROPOSED BACKWATER VALVE
- PROPOSED FRENCH METER
- PROPOSED WATER METER
- PROPOSED BOLLARD (BY OTHERS)
- PROPOSED BOLLARD (BY OTHERS)
- EXISTING TREE AND CRITICAL ROOT ZONE

Project Manager	MI
Project Designer	JEG
Project Architect	JH Fairs
Landscape Architect	PARSONS
Civil Engineer	ENV
Structural Engineer	Smith + Anderson
Mechanical Engineer	Smith + Anderson
Electrical Engineer	Smith + Anderson
Plumbing Engineer	Smith + Anderson
Interior Designer	Collins
Equipment Planner	
Wayfindings	

Sheet Reviewer

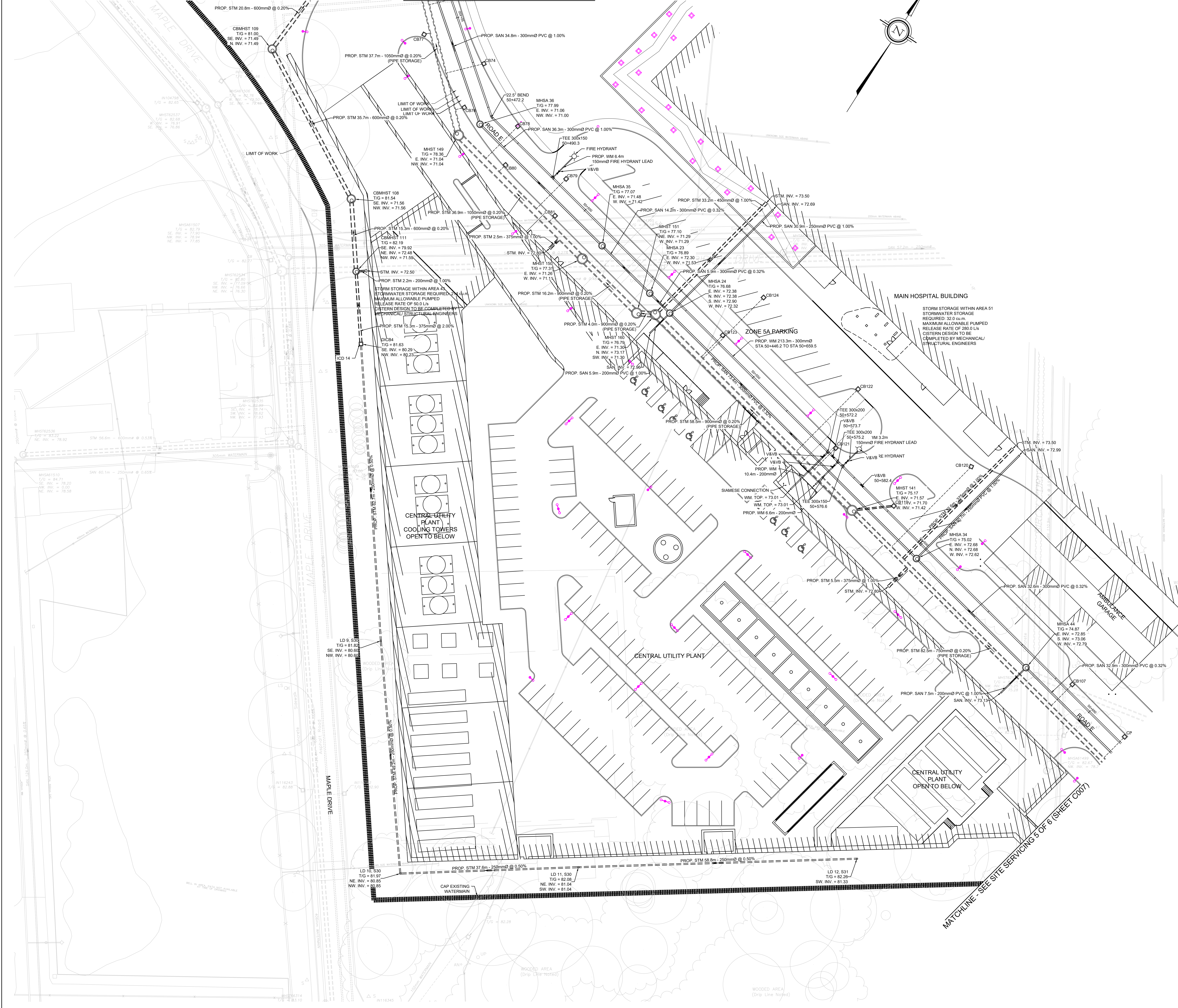
PARSONS

MARK	DATE	DESCRIPTION
01	2022-08-23	ISSUED FOR PRE-CONSULTATION
02	2022-10-26	DRAFT FOR RFP ID
03	2022-11-30	ISSUED FOR SPC & FLUIDA - 1ST SUBMISSION
04	2022-12-02	ISSUED FOR 3A1.2
05	2023-02-24	ISSUED FOR RFP VERSION 1.0
06	2023-04-12	RE-ISSUED FOR SPC & FLUIDA

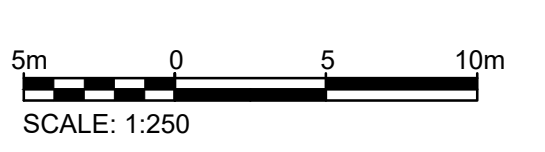
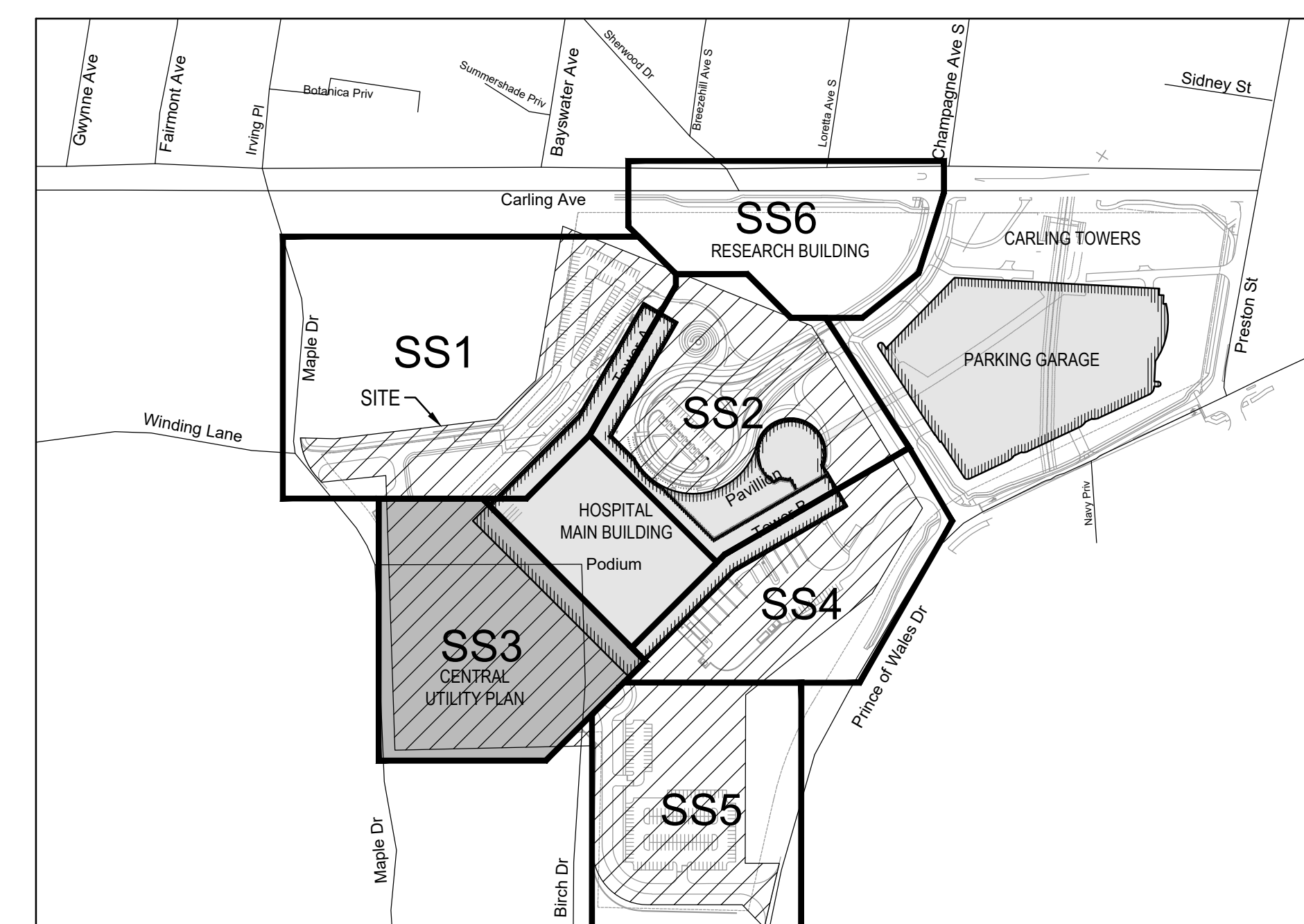
Project Number	1033982
Original Issue	04/12/22
File Number	201-22-22-0168
File	18991

PRELIMINARY
NOT FOR CONSTRUCTION

MATCHLINE - SEE SITE SERVICING 1 OF 6 (SHEET C003)



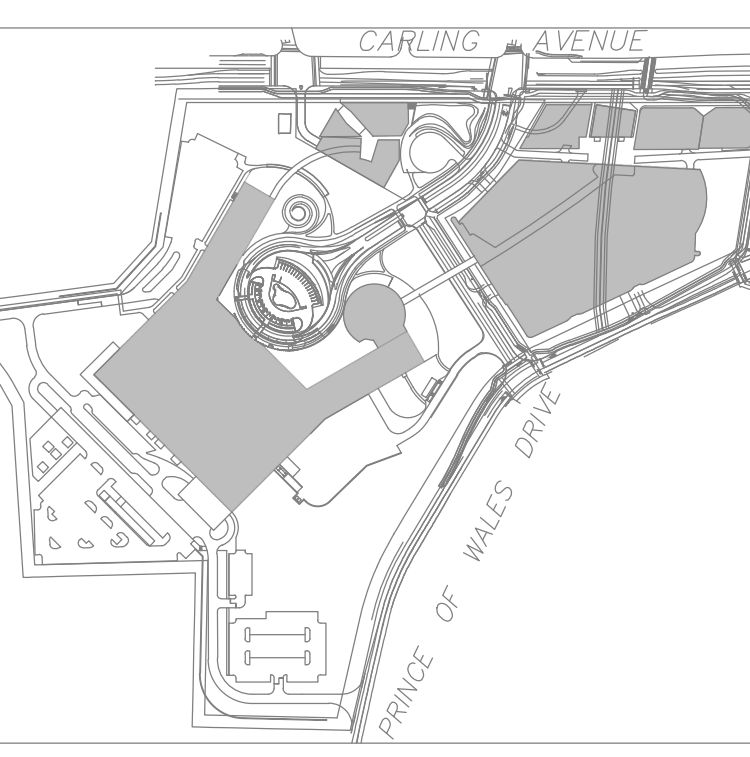
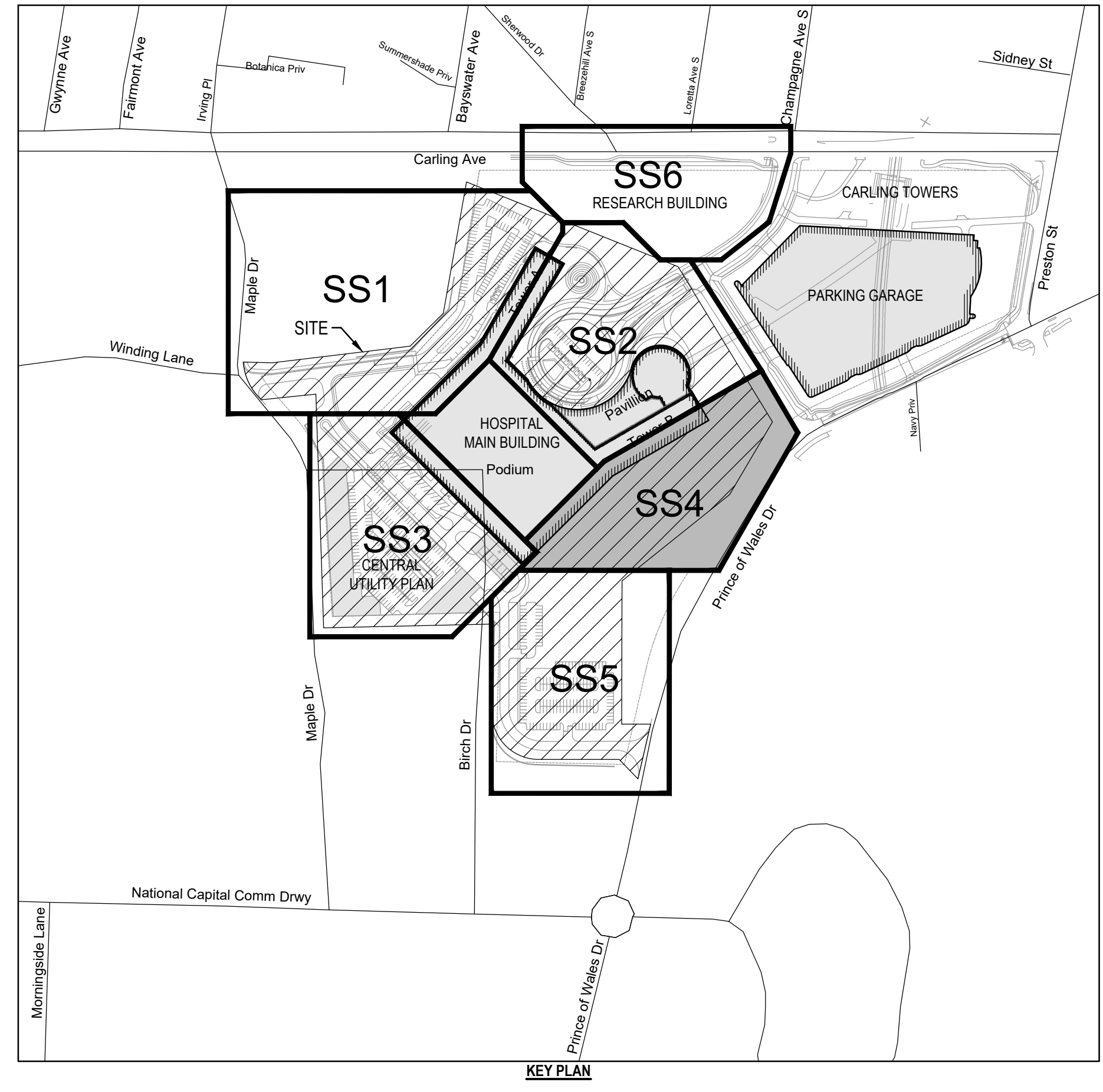
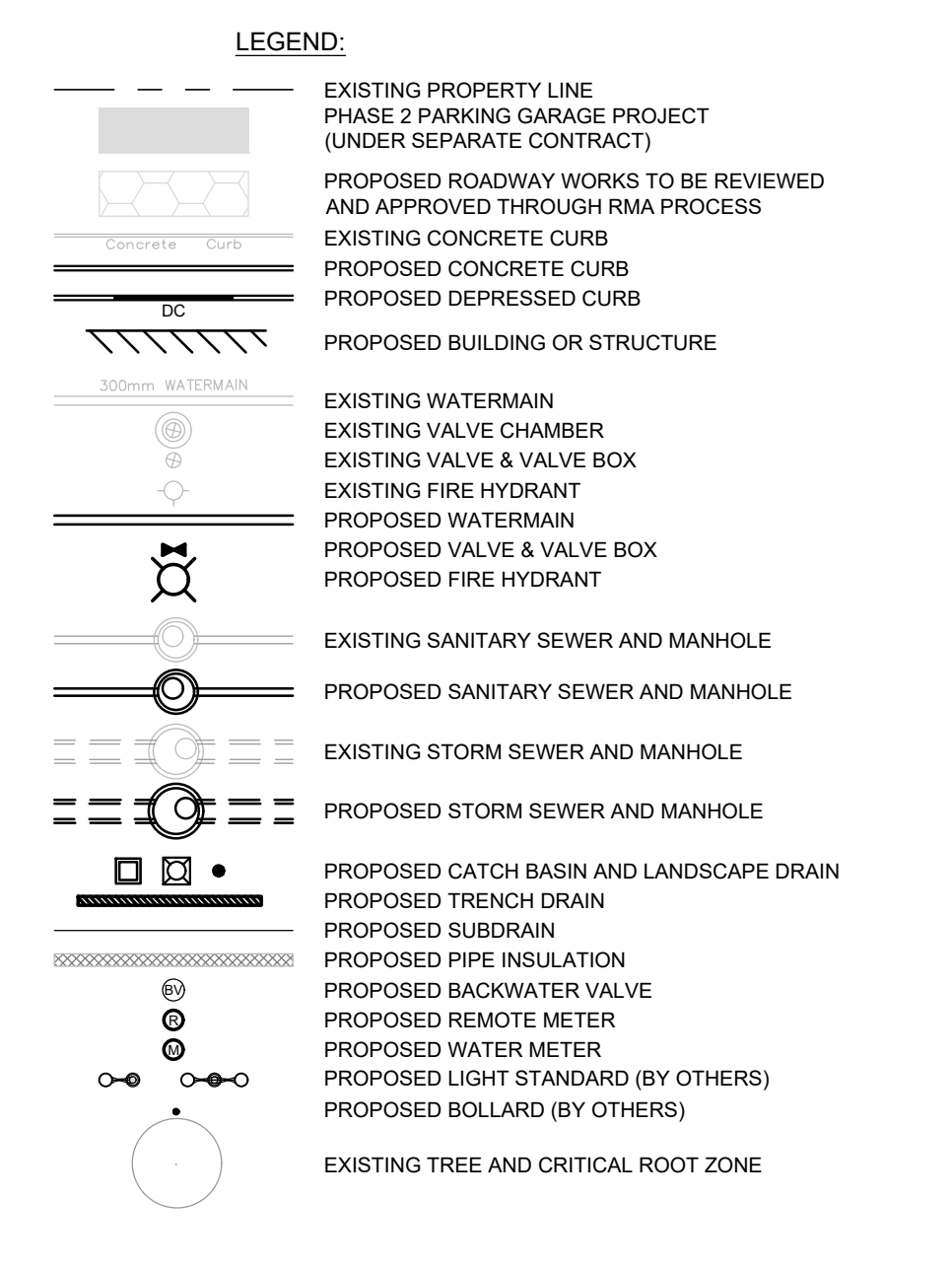
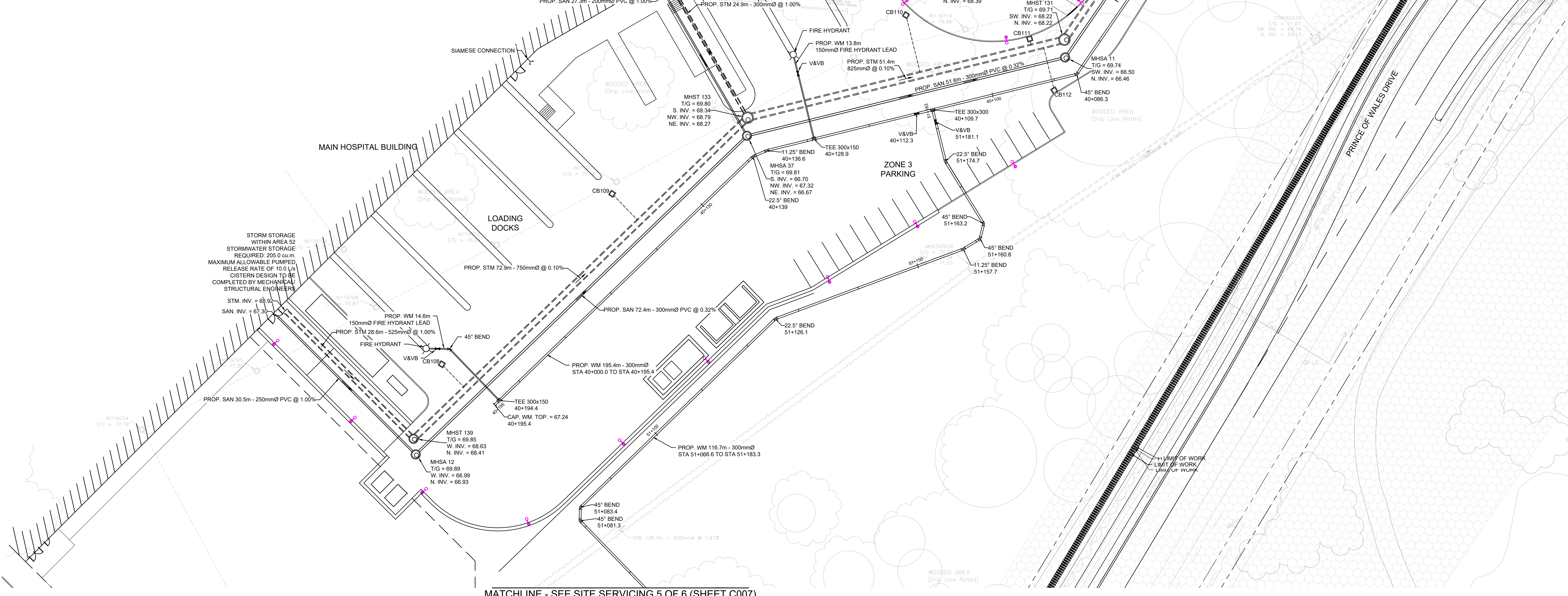
MATCHLINE - SEE SITE SERVICING 5 OF 6 (SHEET C007)



- NOTES: GENERAL
- CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.
 - ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
 - JOB BENCH MARK - REFER TO SURVEY BY ADV LTD. CONFORM WITH CONTRACT ADMINISTRATOR PRIOR TO UTILIZATION OF BENCH MARK.
 - ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT FLOODING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALES OR CATCH BASIN OUTLETS ARE PROVIDED.
 - STRIP AND REMOVE ALL TOPSOIL FROM IMPROVED AREAS.
 - COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
 - ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500mm WIDTH MINIMUM IN ACCORDANCE WITH O2 ON DRAWING C103. CURBS TO BE CONCRETE BARRIER CONSTRUCTED AS PER CITY OF OTTAWA DETAIL SCL1.1. ELEVATIONS AT CURB INDICATE THE GRADE AT THE FINISHED ROAD SURFACE UNLESS NOTED OTHERWISE.
 - RESTORE PAVEMENT STRUCTURE AND SURFACES ON EXISTING ROADS TO A CONDITION AT LEAST EQUAL TO ORIGINAL AND TO THE SATISFACTION OF THE MUNICIPAL AUTHORITIES.
 - ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPSS STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. CONSTRUCTION TO OPSS 208, 313 & 314. MATERIALS TO OPSS 1001, 1003 & 1010.
 - ADJUTING PROPERTY GRADE TO BE MATCHED.
 - OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.
 - MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.
 - FILTER FABRIC TO BE INSTALLED AND MAINTAINED BETWEEN THE FRAME AND COVER OF ALL CATCHBASINS AND CATCH-BASIN MANHOLES DURING THE CONSTRUCTION PERIOD TO MINIMIZE SEDIMENTS ENTERING THE STORM SEWER SYSTEM. ALL GRASSED AREAS MUST BE COMPLETED PRIOR TO THE REMOVAL OF THE FILTER FABRIC IN THE CATCHBASIN.
 - REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL UNLESS OTHERWISE DIRECTED FROM THE ENGINEER. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS LOCATED WITHIN THE PROPOSED BUILDING, PARKING AND ROADWAY LOCATIONS. ANY CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
 - THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS BUT NOT LIMITED TO: ROAD OUT PERMITS, SEWER PERMITS, WATER PERMIT, ETC.
 - AT PROPOSED UTILITY CONNECTION POINTS AND CROSSINGS (I.E. STORM SEWER, SANITARY SEWER, WATER, ETC.) THE CONTRACTOR SHALL DETERMINE THE PRECISE LOCATION AND DEPTH AND SIZE OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES. REFER TO ARCHITECT AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING, LANDSCAPE, AND HARD SURFACE AREAS AND DIMENSIONS.
 - REFER TO GEOTECHNICAL REPORT FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS.
 - CONTRACTOR IS RESPONSIBLE TO KEEP THE ROADS FREE AND CLEAN FROM MUD OR DEBRIS.

- NOTES: WATERMAIN
- SUPPLY AND INSTALL ALL WATERMAIN AND APPURTENANCES IN ACCORDANCE WITH MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
 - ALL WATERMAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4m BELOW FINISHED GRADE, WHERE REQUIRED, PROVIDE INSULATION IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W22 AND W23. WATERMAIN INSULATION AT OPEN STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W21.
 - WATERMAIN BEDDING AS PER CITY OF OTTAWA STANDARD W17.
 - CONCRETE THRUST BLOCKS AND RESTRAINS AS PER CITY OF OTTAWA STANDARD W3.3, W3.4 (TABLE 3), W25.5 AND W25.6.
 - CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS AS PER CITY OF OTTAWA STANDARD W40 AND W42.
 - IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.
 - EXCAVATION, INSTALLATION, AND BACKFILL BY CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN BY CITY.
 - HYDRANT INSTALLATION SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W19.
 - WATERMAIN AND SEWER CROSSINGS TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W25 AND W25.2.

- NOTES: SEWER
- SUPPLY AND INSTALL ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
 - SEWER BEDDING AS PER CITY OF OTTAWA STANDARD S6 FOR SINGLE TRENCH AND CITY OF OTTAWA STANDARD S7 FOR COMBINED TRENCH.
 - ALL WORK SHALL BE PERFORMED, AS APPLICABLE IN ACCORDANCE WITH OPSS 407 AND 410.
 - CONTRACTOR TO CONFIRM ELEVATION OF EXISTING STORM AND SANITARY SEWERS AT PROPOSED CONNECTION POINTS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE COMMENCING ANY WORK.
 - ALL SEWERS WITH LESS THAN 1.5m OF COVER ARE SUBJECT TO INSULATION DETAIL D2.
 - CONTRACTOR TO CUT ALL NEW SEWERS, 250mm OR GREATER, TO ENSURE THEY ARE CLEAN AND OPERATIONAL. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS.
 - PROVIDE SANITARY BACKWATER VALVES IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S14.1 AND FOUNDATION DRAIN BACKWATER VALVE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S14. REFER TO MECHANICAL DRAWINGS FOR FURTHER DETAILS.
 - SEWER CONNECTIONS TO BE MADE ABOVE THE SPRINGLINE OF THE SEWER AS PER CITY OF OTTAWA STANDARD S11, S11.1, AND S11.2.
 - INSTALLATION OF CATCH BASINS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS S1 AND S2.
 - CLAY SEALS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S8.
 - SUPPORT FOR EXISTING UTILITIES CROSSING A SEWER OR WATERMAIN SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S10.
 - MAINTENANCE HOLE DROP STRUCTURE SHALL BE IN ACCORDANCE WITH OPSS 1003.010.
 - BENCHING FOR SANITARY MAINTENANCE HOLES SHALL BE IN ACCORDANCE WITH OPSS 701.021.
 - ALL CATCH BASIN LEADS ARE AT 2% SLOPE UNLESS OTHERWISE NOTED.
 - ROADWAY SUBGRAN SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD R1.
 - REFER TO GRADING SHEETS FOR THE PONDING LIMITS AND VOLUMES.



THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT



Project Manager	MI
Project Designer	JEG
Project Architect	JFF
Landscape Architect	JFF
Civil Engineer	PARSONS
Structural Engineer	EXF
Mechanical Engineer	Smith + Anderson
Electrical Engineer	Smith + Anderson
Plumbing Engineer	Smith + Anderson
Interior Designer	Collins
Wayfinding	

MARK	DATE	DESCRIPTION
01	2022-08-23	ISSUED FOR PRE-CONSULTATION
02	2022-10-26	DRAFT FOR RFP
03	2022-11-30	ISSUED FOR SPC & FLUIDA - 1ST SUBMISSION
04	2022-12-02	ISSUED FOR 3A1-2
05	2023-02-24	ISSUED FOR RFP VERSION 1.0
06	2023-04-12	RE-ISSUED FOR SPC & FLUIDA

Project Number	1033960
Original Issue	04/12/22
File Number	201-22-22-0168
Rev	18891

PRELIMINARY NOT FOR CONSTRUCTION

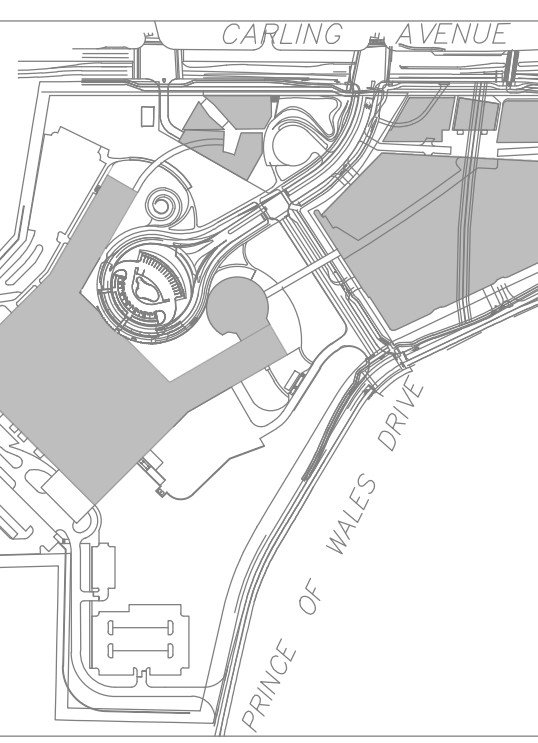
SITE SERVICE PLAN 4 OF 6

Sheet Number
C006

Project Status
STAGE 3

D07-12-22-0168

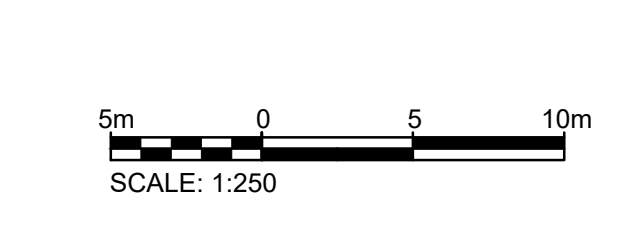
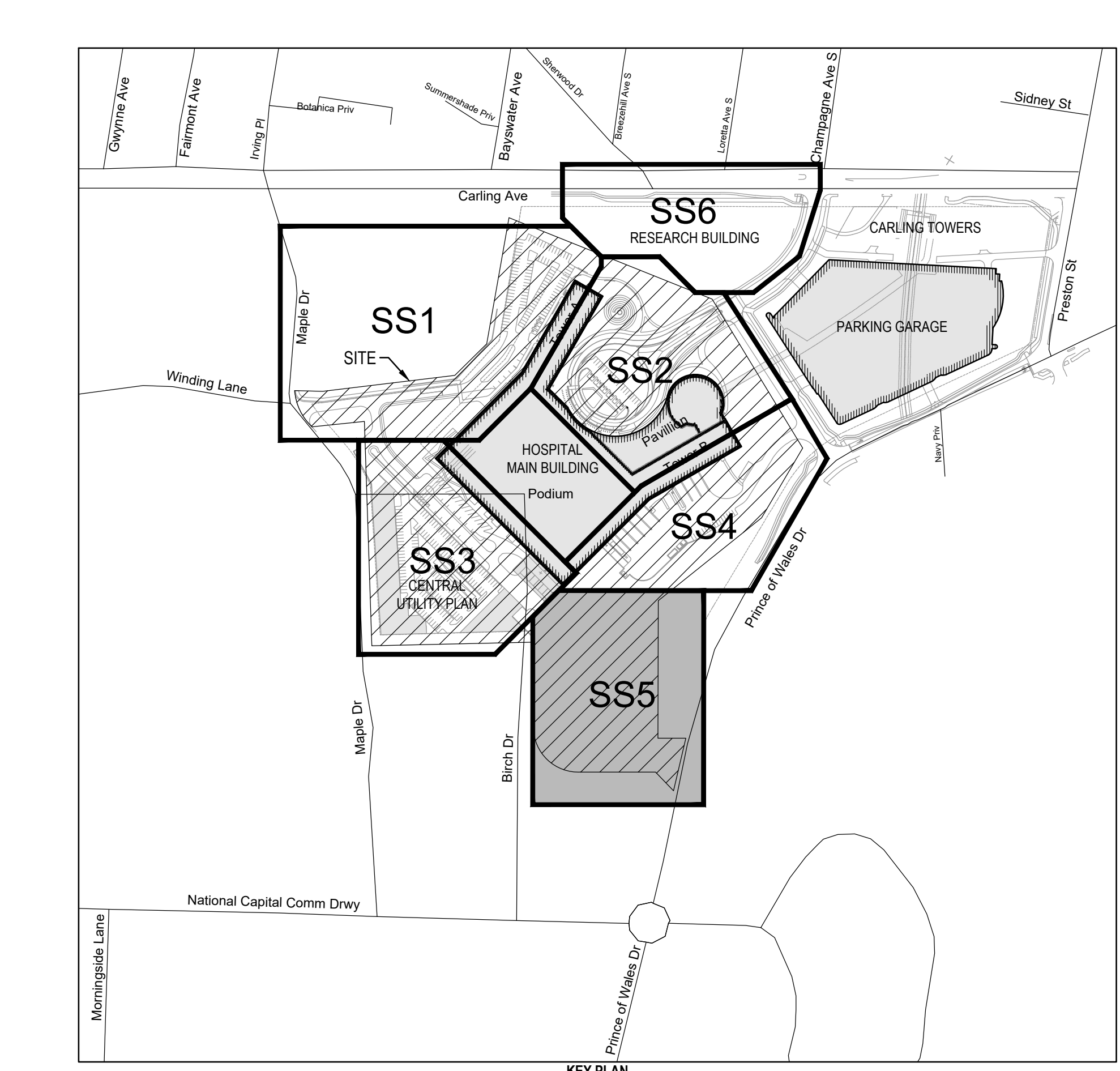
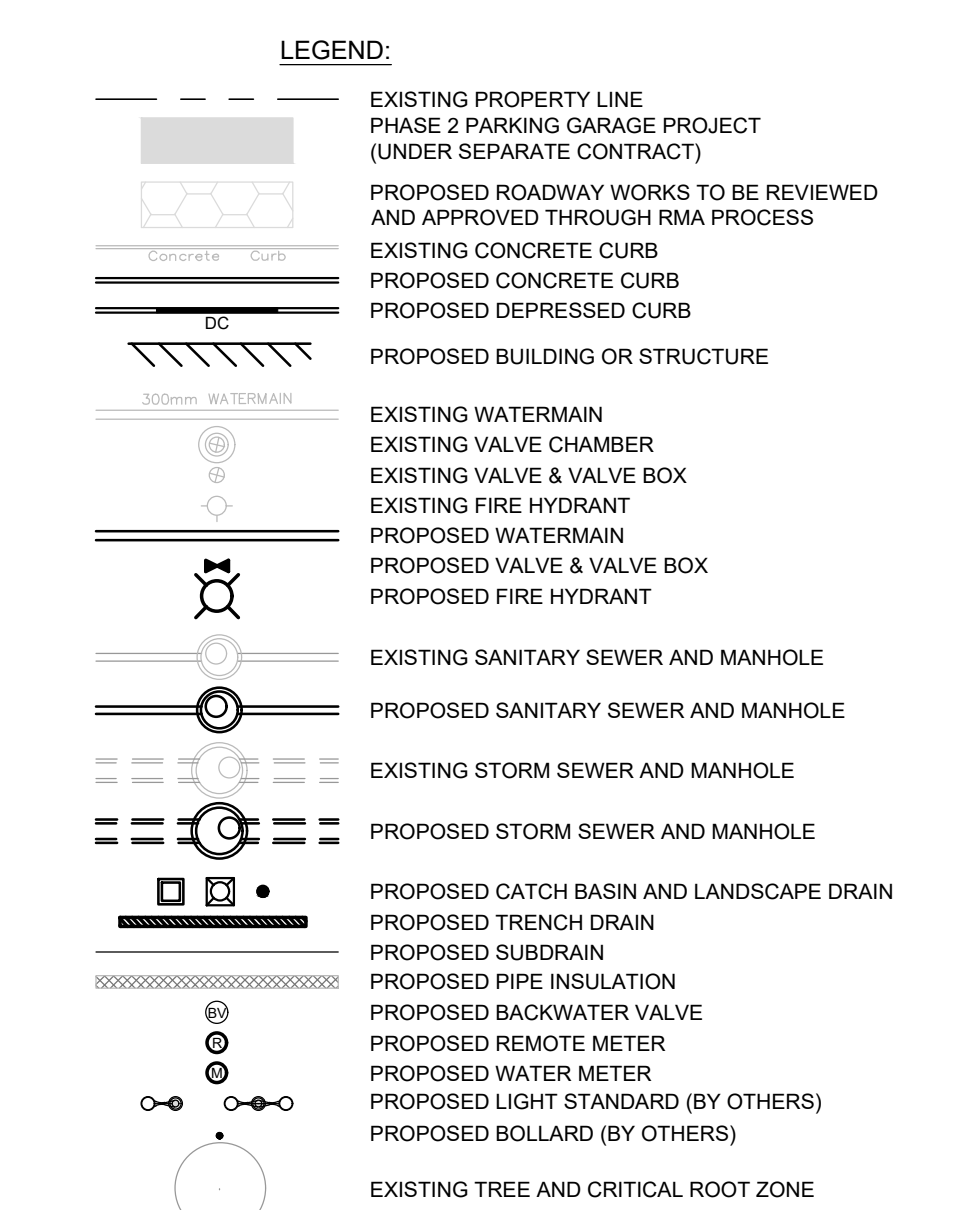
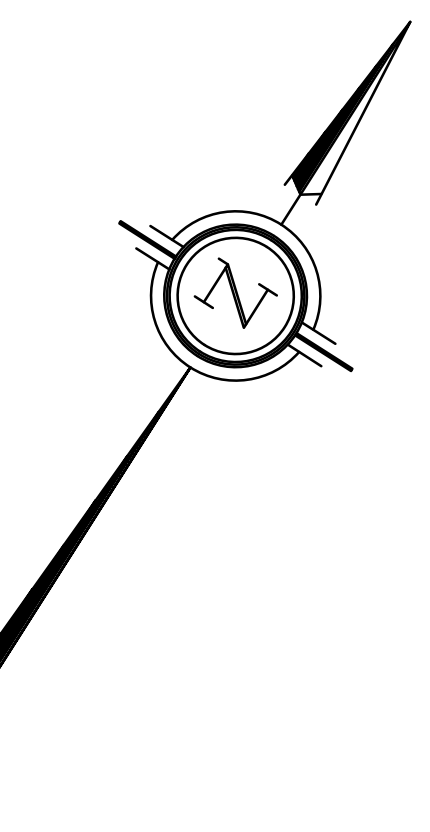
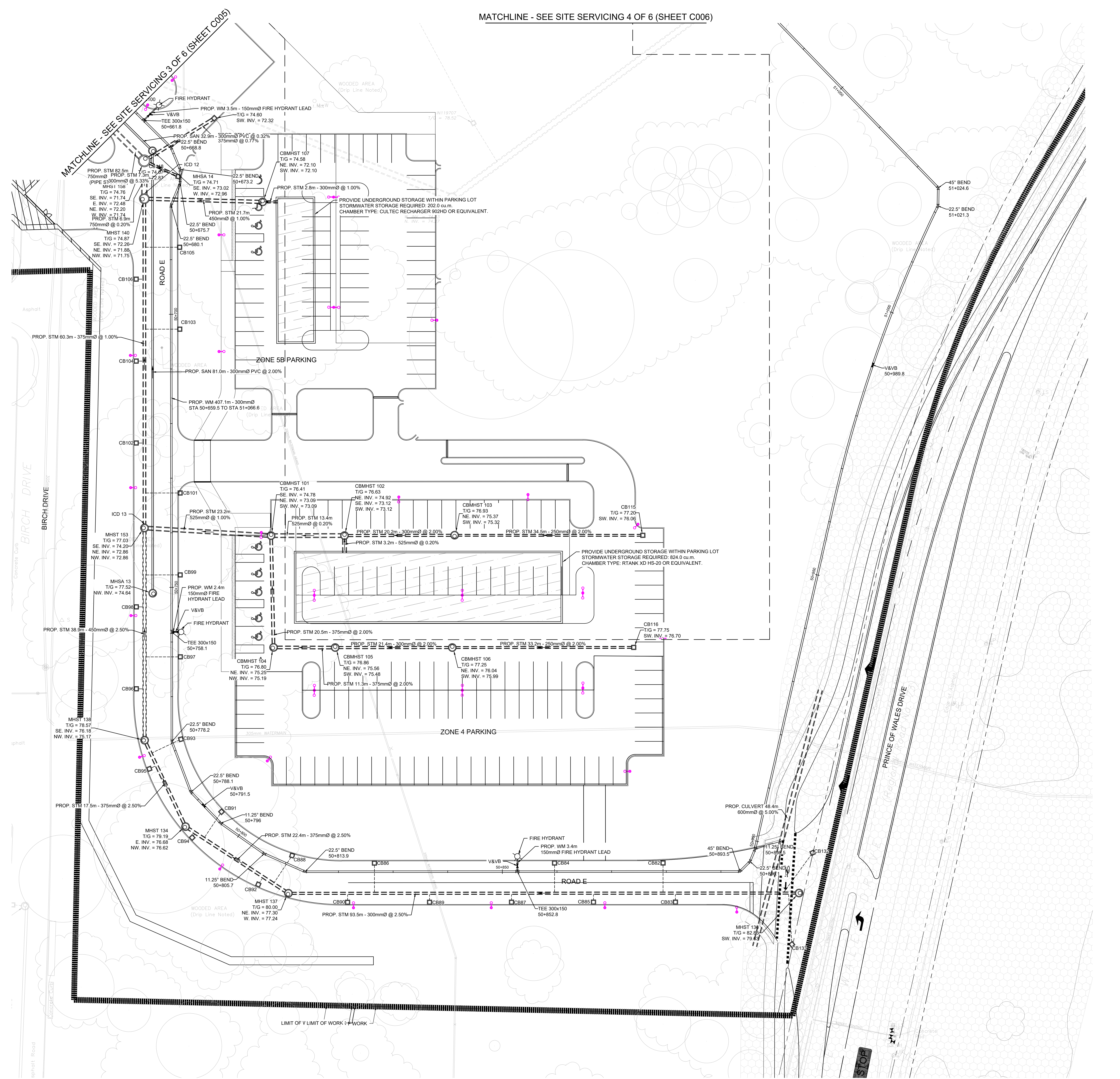
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THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT

- NOTES: GENERAL
- CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.
 - ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
 - JOB BENCH MARK: REFER TO SURVEY BY ADV. LTD. TO CONFIRM WITH CONTRACT ADMINISTRATOR PRIOR TO UTILIZATION OF BENCH MARK.
 - ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
 - STRIP AND REMOVE ALL TOPSOIL FROM IMPROVED AREAS.
 - COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
 - ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT.
 - PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500mm WIDTH MINIMUM IN ACCORDANCE WITH 02 ON DRAWING C103.
 - CURBS TO BE CONCRETE BARRIER CONSTRUCTED AS PER CITY OF OTTAWA DETAIL SCL1. ELEVATIONS AT CURB INDICATE THE GRADE AT THE FINISHED ROAD SURFACE UNLESS NOTED OTHERWISE.
 - RESTORE PAVEMENT STRUCTURE AND SURFACES ON EXISTING ROADS TO A CONDITION AT LEAST EQUAL TO ORIGINAL AND TO THE SATISFACTION OF THE MUNICIPAL AUTHORITIES.
 - ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPSIS STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. CONSTRUCTION TO OPSIS 209, 318 & 314. MATERIALS TO OPSIS 1001, 1003 & 1010.
 - ABUTTING PROPERTY GRADE TO BE MATCHED.
 - OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.
 - MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.
 - FILTER FABRIC TO BE INSTALLED AND MAINTAINED BETWEEN THE FRAME AND COVER OF ALL CATCH-BASINS AND CATCH-BASIN MANHOLES DURING THE CONSTRUCTION PERIOD TO MINIMIZE SEDIMENTS ENTERING THE STORM SEWER SYSTEM. ALL GRASSSED AREAS MUST BE COMPLETED PRIOR TO THE REMOVAL OF THE FILTER FABRIC IN THE CATCH BASIN.
 - REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL UNLESS OTHERWISE DIRECTED FROM THE ENGINEER. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS LOCATED WITHIN THE PROPOSED BUILDING, PARKING AND ROADWAY LOCATIONS. ANY CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
 - THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS BUT NOT LIMITED TO, ROAD CUT PERMITS, SEWER PERMITS, WATER PERMIT, ETC.
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 - REFER TO GEOTECHNICAL REPORT FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTOR REQUIREMENTS.
 - CONTRACTOR IS RESPONSIBLE TO KEEP THE ROADS FREE AND CLEAN FROM MUD OR DEBRIS.
- NOTES: WATERMAIN
- SUPPLY AND INSTALL ALL WATERMAIN AND APPURTENANCES IN ACCORDANCE WITH MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
 - ALL WATERMAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4m BELOW FINISHED GRADE. WHERE REQUIRED, PROVIDE INSULATION IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W22 AND W23. WATERMAIN INSULATION AT OPEN STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W23.
 - WATERMAIN BEDDING AS PER CITY OF OTTAWA STANDARD W17.
 - CONCRETE THURST BLOCKS AND RESTRAINING AS PER CITY OF OTTAWA STANDARD W23.3, W24.4 (TABLE 3), W25.5 AND W25.6.
 - CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS AS PER CITY OF OTTAWA STANDARD W40 AND W42.
 - IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.
 - EXCAVATION, INSTALLATION, AND BACKFILL BY CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN BY CITY.
 - HYDRANT INSTALLATION SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W19.
 - WATERMAIN AND SEWER CROSSINGS TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W25 AND W25.2.
- NOTES: SEWER
- SUPPLY AND INSTALL ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
 - SEWER BEDDING AS PER CITY OF OTTAWA STANDARD S6 FOR SINGLE TRENCH AND CITY OF OTTAWA STANDARD S7 FOR COMBINED TRENCH.
 - ALL WORK SHALL BE PERFORMED, AS APPLICABLE IN ACCORDANCE WITH OPSIS 407 AND 410.
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 - CONTRACTOR TO CUTY ALL NEW SEWERS 200mm OR GREATER TO ENSURE THEY ARE CLEAN AND OPERATIONAL UPON COMPLETION OF CONTRACT. THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS.
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 - BENCHING FOR SANITARY MAINTENANCE HOLES SHALL BE IN ACCORDANCE WITH OPSIS 701.021.
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 - ROADWAY SUBGRAN SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD R1.
 - REFER TO GRADING SHEETS FOR THE PONDING LIMITS AND VOLUMES.

MATCHLINE - SEE SITE SERVICING 4 OF 6 (SHEET C006)



Project Manager	MB
Project Designer	JEG
Project Architect	JFF
Landscape Architect	JFF
Civil Engineer	PARSONS
Structural Engineer	ENR
Mechanical Engineer	Smith + Anderson
Electrical Engineer	Smith + Anderson
Plumbing Engineer	Smith + Anderson
Interior Designer	Collins
Equipment Planner	Collins
Wayfindings	Wayfindings

Sheet Reviewer: PARSONS

MARK	DATE	DESCRIPTION
01	2022-09-23	ISSUED FOR PRE-CONSULTATION
02	2022-10-26	DRAFT FOR RFP 10
03	2022-11-30	ISSUED FOR SPC & FLUIDA - 1ST SUBMISSION
04	2022-12-02	ISSUED FOR 3A1.2
05	2023-02-24	ISSUED FOR RFP VERSION 1.0
06	2023-04-12	RE-ISSUED FOR SPC & FLUIDA

Project Number	1033980
Original Issue	04/21/22
File Number	201-22-02-0168
Plan	18991

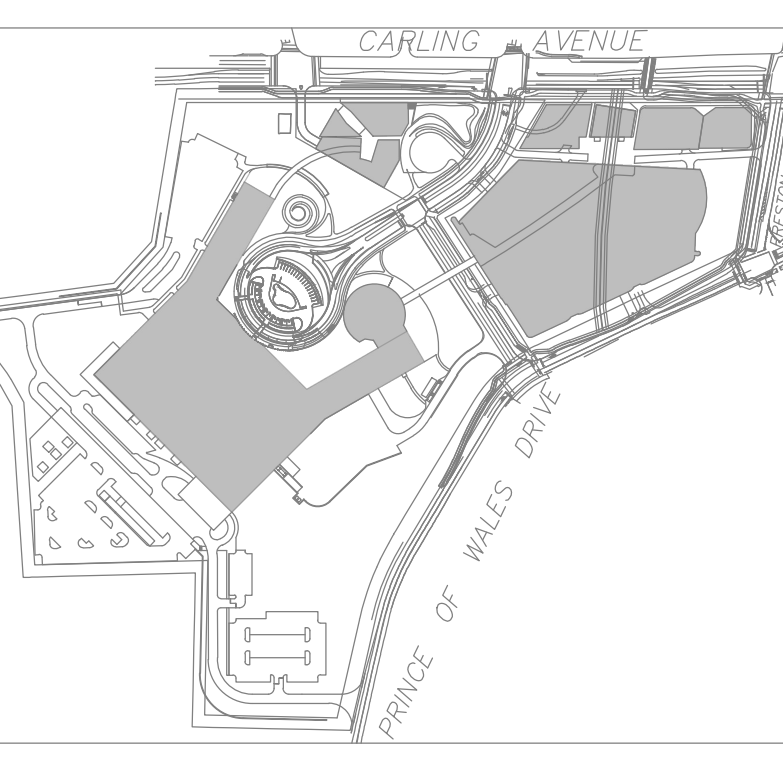
PRELIMINARY
NOT FOR CONSTRUCTION

SITE
SITE SERVICING PLAN
5 OF 6

Sheet Number
C007

Project Status
STAGE 3

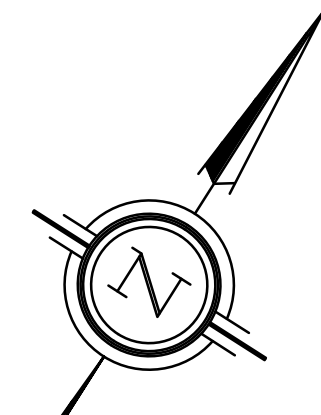
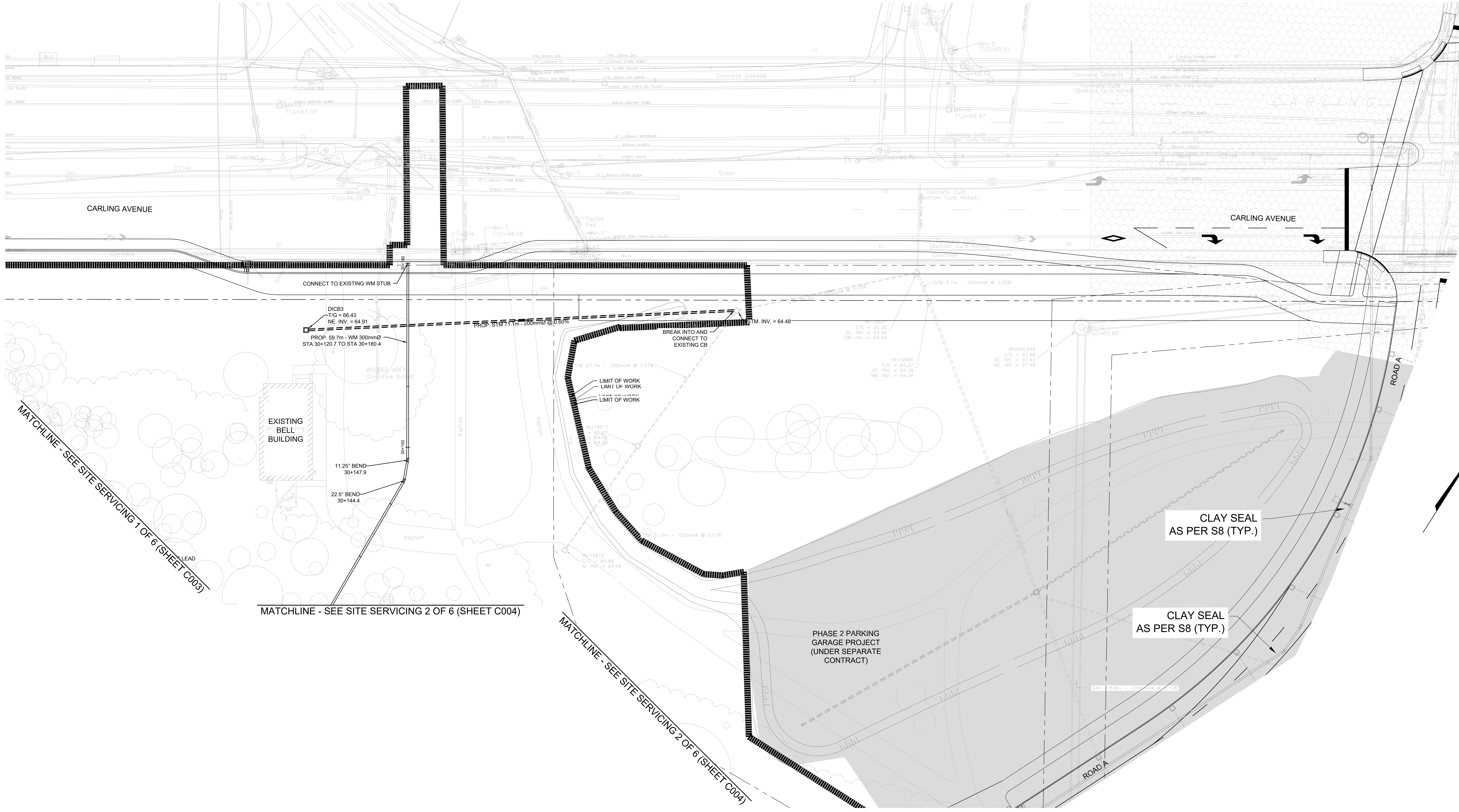
D07-12-22-0168



THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT

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- LEGEND:
- EXISTING PROPERTY LINE
 - PHASE 2 PARKING GARAGE PROJECT (UNDER SEPARATE CONTRACT)
 - PROPOSED ROADWAY WORKS TO BE REVIEWED AND APPROVED THROUGH RWA PROCESS
 - EXISTING CONCRETE CURB
 - PROPOSED CONCRETE CURB
 - PROPOSED REBERSED CURB
 - PROPOSED BUILDING OR STRUCTURE
 - EXISTING WATERMAIN
 - EXISTING VALVE CHAMBER
 - EXISTING VALVE & VALVE BOX
 - EXISTING FIRE HYDRANT
 - PROPOSED WATERMAIN
 - PROPOSED VALVE & VALVE BOX
 - PROPOSED FIRE HYDRANT
 - EXISTING SANITARY SEWER AND MANHOLE
 - PROPOSED SANITARY SEWER AND MANHOLE
 - EXISTING STORM SEWER AND MANHOLE
 - PROPOSED STORM SEWER AND MANHOLE
 - PROPOSED CATCH BASIN AND LANDSCAPE DRAIN
 - PROPOSED TRENCH DRAIN
 - PROPOSED SUBDRAIN
 - PROPOSED PIPE INSULATION
 - PROPOSED BACKWATER VALVE
 - PROPOSED REMOTE METER
 - PROPOSED WATER METER
 - PROPOSED LIGHT STANDARD (BY OTHER)
 - PROPOSED BOLLARD (BY OTHER)
 - EXISTING TREE AND CRITICAL ROOT ZONE



Project Manager	MB
Project Designer	JEG
Project Architect	JEG
Landscape Architect	JH Fahs
Civil Engineer	PARSONS
Structural Engineer	EXP
Mechanical Engineer	Smith + Anderson
Electrical Engineer	Smith + Anderson
Plumbing Engineer	Smith + Anderson
Interior Designer	Interior Designer
Equipment Planner	Collins
Wayfindings	Collins

MARK	DATE	DESCRIPTION
01	2022-09-23	ISSUED FOR PRE-CONSULTATION
02	2022-10-26	DRAFT FOR RFP ID
03	2022-11-30	ISSUED FOR SPC & FLUDA - 1ST SUBMISSION
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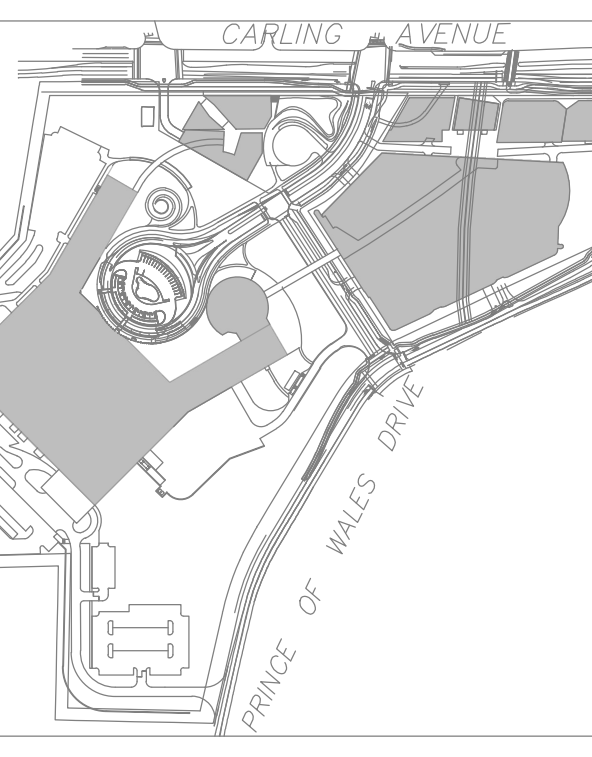
Project Number	1033390
Original Issue	04/12/22
File Number	1001-22-22-0168
File	10091

PRELIMINARY
NOT FOR CONSTRUCTION

SITE
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6 OF 6

Sheet Number
C008

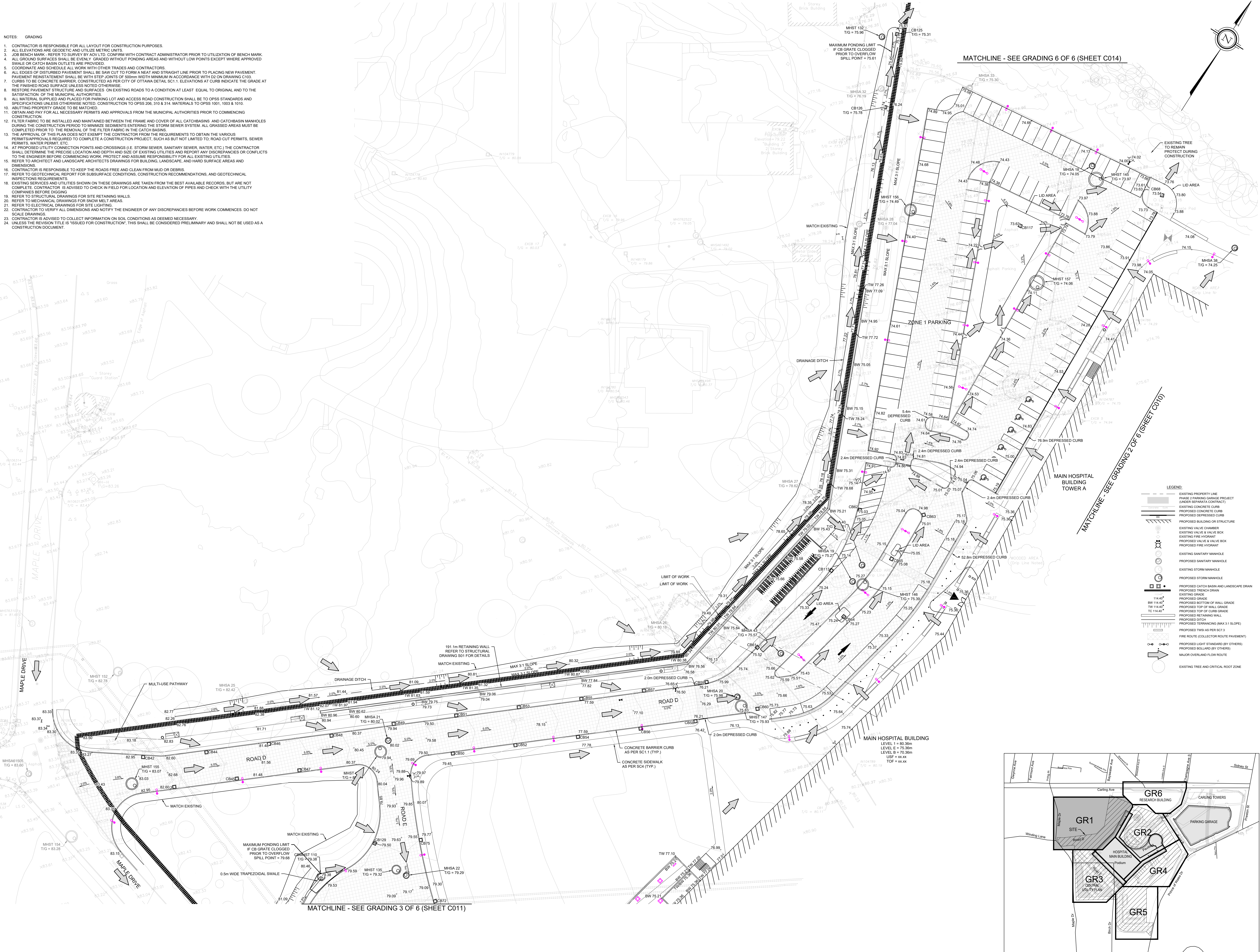
Project Status
STAGE 3



THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT

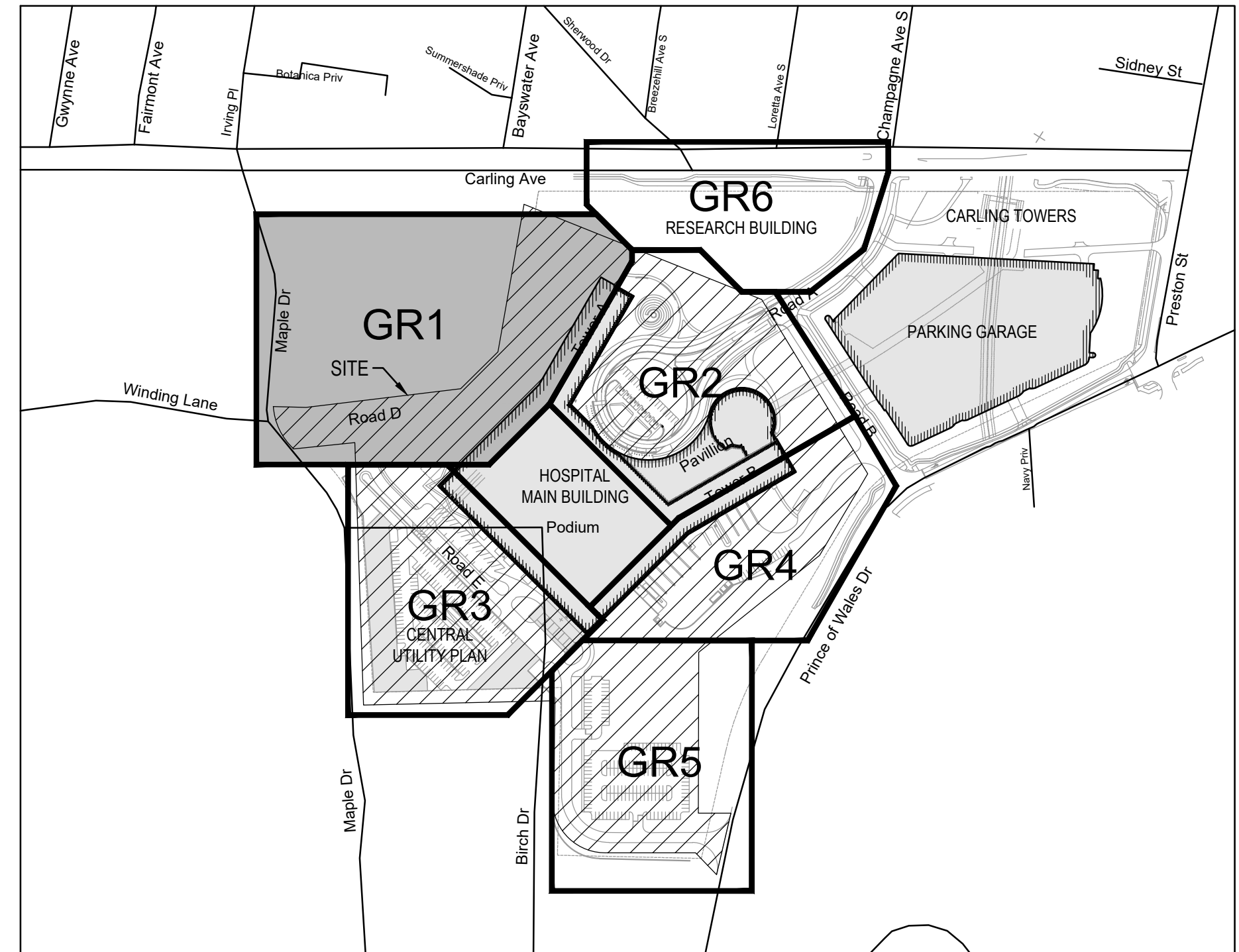
NOTES: GRADING

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- FILTER FABRIC TO BE INSTALLED AND MAINTAINED BETWEEN THE FRAME AND COVER OF ALL CATCH-BASINS AND CATCH-BASIN MANHOLES DURING THE CONSTRUCTION PERIOD TO MINIMIZE SEDIMENTS ENTERING THE STORM SEWER SYSTEM. ALL GRASSED AREAS MUST BE COMPLETED PRIOR TO THE REMOVAL OF THE FILTER FABRIC IN THE CATCH-BASIN.
- THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS BUT NOT LIMITED TO: ROAD CUT PERMITS, SEWER PERMITS, WATER PERMIT, ETC.
- AT PROPOSED UTILITY CONNECTION POINTS AND CROSSINGS (I.E. STORM SEWER, SANITARY SEWER, WATER, ETC.), THE CONTRACTOR SHALL DETERMINE THE PRECISE LOCATION AND DEPTH AND SIZE OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES.
- REFER TO ARCHITECT AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING, LANDSCAPE, AND HARD SURFACE AREAS AND DIMENSIONS.
- CONTRACTOR IS RESPONSIBLE TO KEEP THE ROADS FREE AND CLEAN FROM MUD OR DEBRIS.
- REFER TO GEOTECHNICAL REPORT FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS.
- EXISTING SERVICES AND UTILITIES SHOWN ON THESE DRAWINGS ARE TAKEN FROM THE BEST AVAILABLE RECORDS, BUT ARE NOT COMPLETE. CONTRACTOR IS ADVISED TO CHECK IN FIELD FOR LOCATION AND ELEVATION OF PIPES AND CHECK WITH THE UTILITY COMPANIES BEFORE DIGGING.
- REFER TO STRUCTURAL DRAWINGS FOR SITE RETAINING WALLS.
- REFER TO MECHANICAL DRAWINGS FOR SNOW MELT AREAS.
- REFER TO ELECTRICAL DRAWINGS FOR SITE LIGHTING.
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE WORK COMMENCES. DO NOT SCALE DRAWINGS.
- CONTRACTOR IS ADVISED TO COLLECT INFORMATION ON SOIL CONDITIONS AS DEEMED NECESSARY.
- UNLESS THE REVISION TITLE IS ISSUED FOR CONSTRUCTION, THIS SHALL BE CONSIDERED PRELIMINARY AND SHALL NOT BE USED AS A CONSTRUCTION DOCUMENT.



LEGEND:

- EXISTING PROPERTY LINE
- PHASE 2 PARKING GARAGE PROJECT (UNDER SEPARATE CONTRACT)
- EXISTING CONCRETE CURB
- PROPOSED CONCRETE CURB
- EXISTING DEPRESSIONED CURB
- PROPOSED DEPRESSIONED CURB
- PROPOSED BUILDING OR STRUCTURE
- EXISTING VALVE CHAMBER
- EXISTING VALVE & VALVE BOX
- EXISTING FIRE HYDRANT
- PROPOSED VALVE & VALVE BOX
- PROPOSED FIRE HYDRANT
- EXISTING SANITARY MANHOLE
- PROPOSED SANITARY MANHOLE
- EXISTING STORM MANHOLE
- PROPOSED STORM MANHOLE
- PROPOSED CATCH BASIN AND LANDSCAPE DRAIN
- PROPOSED TRENCH DRAIN
- EXISTING GRADE
- PROPOSED GRADE
- BW 14.40"
- PROPOSED BOTTOM OF WALL GRADE
- TW 14.40"
- PROPOSED TOP OF CURB GRADE
- PROPOSED RETAINING WALL
- PROPOSED DITCH
- PROPOSED TERRACING (MAX 3:1 SLOPE)
- PROPOSED TWEIGS AS PER SCT 3
- FIRE ROUTE (COLLECTOR ROUTE PAVEMENT)
- PROPOSED LIGHT BRANDED (BY OTHERS)
- PROPOSED BOLLARDS (BY OTHERS)
- MAJOR OVERLAND FLOW ROUTE
- EXISTING TREE AND CRITICAL ROOT ZONE



RECOMMENDED PAVEMENT STRUCTURE - PARKING AREAS	RECOMMENDED PAVEMENT STRUCTURE - LOCAL ROUTES	RECOMMENDED PAVEMENT STRUCTURE - COLLECTOR ROUTES	RECOMMENDED PAVEMENT STRUCTURE - ROAD PAVEMENT
THICKNESS(mm)	MATERIAL DESCRIPTION	MATERIAL DESCRIPTION	MATERIAL DESCRIPTION
60	SUPERPAVE 12mm SURFACE COURSE	60	SUPERPAVE 12mm F1 SURFACE COURSE
100	S.P. F-3147 GRANULAR A BASE	30	SUPERPAVE 10mm SURFACE COURSE
400	S.P. F-3147 GRANULAR B TYPE 1 SUBBASE	150	SUPERPAVE 10mm BINDER COURSE
		60	S.P. F-3147 GRANULAR A BASE
		400	S.P. F-3147 GRANULAR B TYPE 1 SUBBASE

Project Manager	MR
Project Designer <td>JEG</td>	JEG
Project Architect <td>JEF</td>	JEF
Landscape Architect <td>JF Fairs</td>	JF Fairs
Civil Engineer <td>PARSONS</td>	PARSONS
Structural Engineer <td>ENR</td>	ENR
Mechanical Engineer <td>Smith + Anderson</td>	Smith + Anderson
Electrical Engineer <td>Smith + Anderson</td>	Smith + Anderson
Plumbing Engineer <td>Smith + Anderson</td>	Smith + Anderson
Interior Designer <td>Collins</td>	Collins
Equipment Planner <td></td>	
Wayfinders <td></td>	

MARK	DATE	DESCRIPTION
01	2022-08-23	ISSUED FOR PRE-CONSULTATION
02	2022-10-26	DRAFT FOR RFP
03	2022-11-30	ISSUED FOR SPC & FLUIDA - 1ST SUBMISSION
04	2022-12-02	ISSUED FOR 341.2
05	2023-02-24	ISSUED FOR RFP VERSION 1.0
06	2023-04-12	RE-ISSUED FOR SPC & FLUIDA

Project Number	1033982
Original Issue	04/12/22
File Number	201-22-02-0168
Rev	18991

PRELIMINARY
NOT FOR CONSTRUCTION

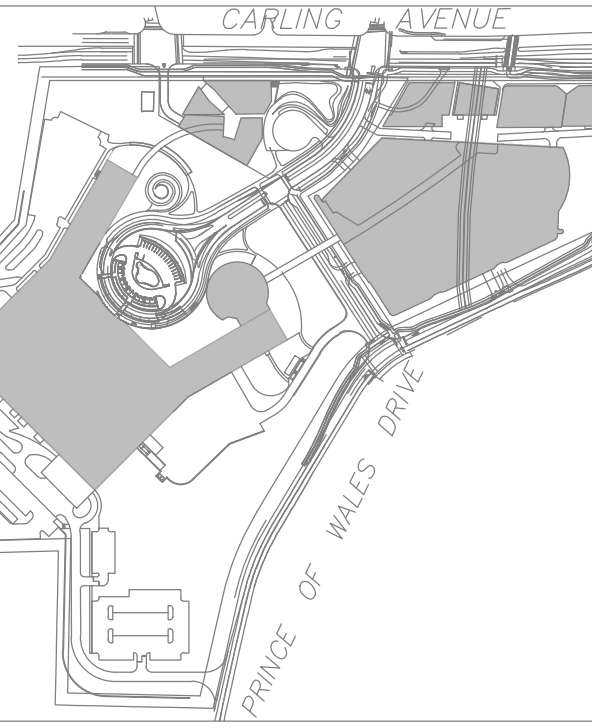
Sheet Name
GRADING PLAN 1 OF 6

Sheet Number
C009

Project Status
STAGE 3

D07-12-22-016

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THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT

NOTES: GRADING

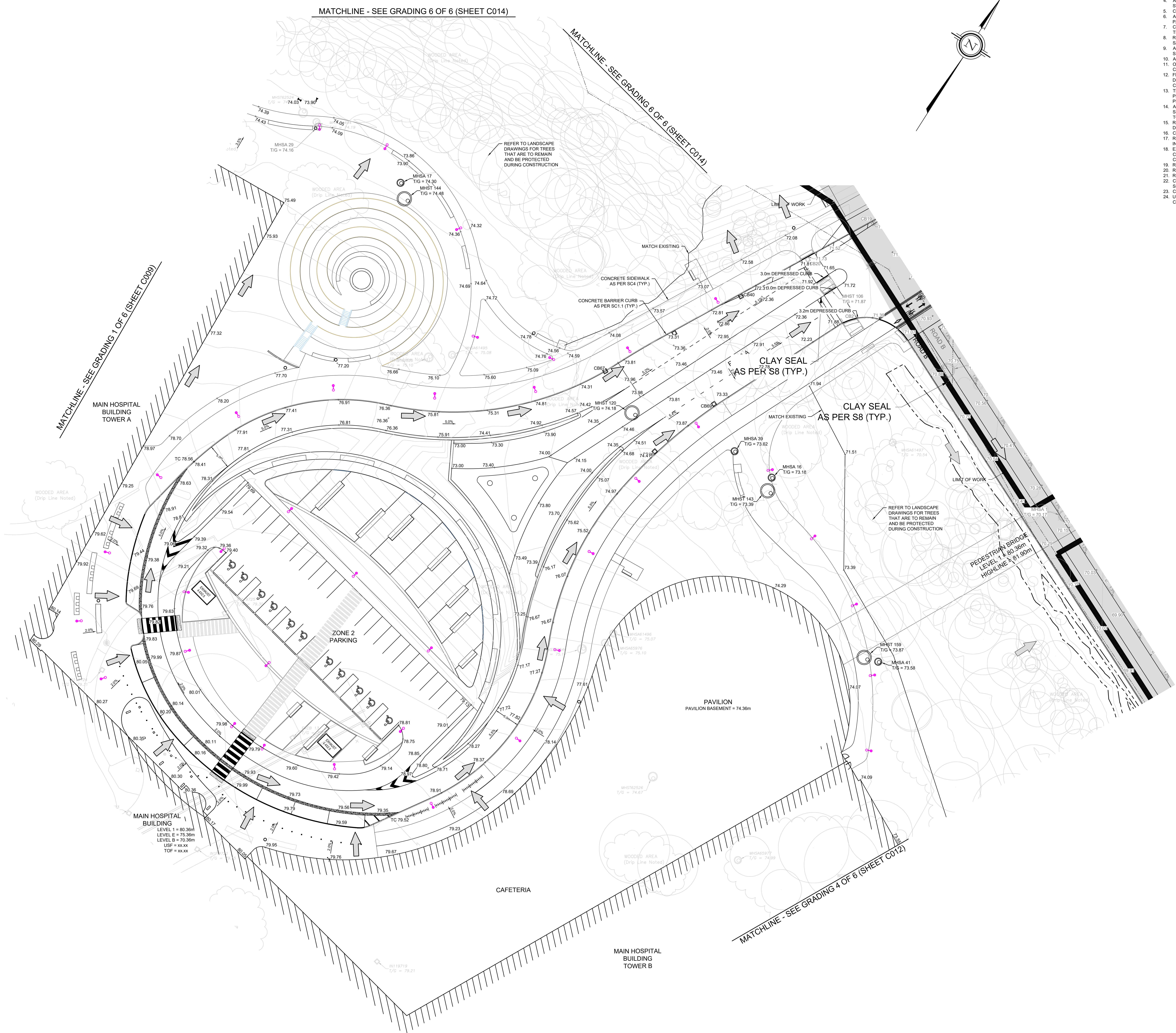
- CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.
- ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
- JOB BENCH MARK - REFER TO SURVEY BY ADV. LTD. CONFIRM WITH CONTRACT ADMINISTRATOR PRIOR TO UTILIZATION OF BENCH MARK.
- ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500mm WIDTH MINIMUM IN ACCORDANCE WITH 02 ON DRAWING C-103.
- CURBS TO BE CONCRETE BARRIER, CONSTRUCTED AS PER CITY OF OTTAWA DETAIL SC-1. ELEVATIONS AT CURB INDICATE THE GRADE AT THE FINISHED ROAD SURFACE UNLESS NOTED OTHERWISE.
- RESTORE PAVEMENT STRUCTURE AND SURFACES ON EXISTING ROADS TO A CONDITION AT LEAST EQUAL TO ORIGINAL AND TO THE SATISFACTION OF THE MUNICIPAL AUTHORITIES.
- ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPSR STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. CONSTRUCTION TO OPSR 206, 310 & 314. MATERIALS TO OPSR 1001, 1003 & 1010.
- ABUTTING PROPERTY GRADE TO BE MATCHED.
- OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.
- FILTER FABRIC TO BE INSTALLED AND MAINTAINED BETWEEN THE FRAME AND COVER OF ALL CATCHBASINS AND CATCHBASIN MANHOLES DURING THE CONSTRUCTION PERIOD TO MINIMIZE SEDIMENTS ENTERING THE STORM SEWER SYSTEM. ALL GRASSED AREAS MUST BE COMPLETED PRIOR TO THE REMOVAL OF THE FILTER FABRIC IN THE CATCH BASINS.
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MATCHLINE - SEE GRADING 6 OF 6 (SHEET C014)

MATCHLINE - SEE GRADING 6 OF 6 (SHEET C014)

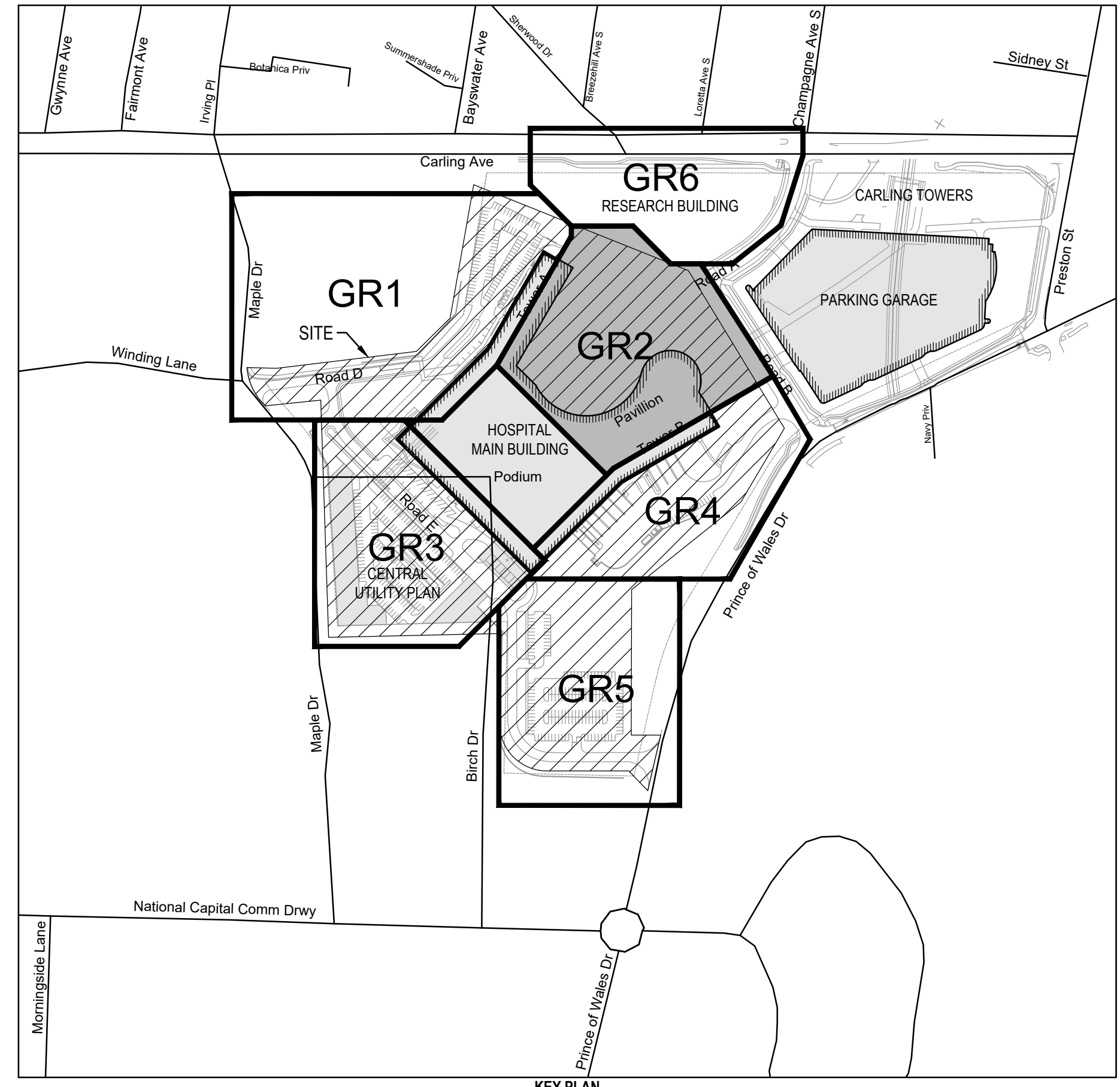
MATCHLINE - SEE GRADING 1 OF 6 (SHEET C009)

MATCHLINE - SEE GRADING 4 OF 6 (SHEET C012)



LEGEND:

[Symbol]	EXISTING PROPERTY LINE
[Symbol]	PHASE 2 PARKING GARAGE PROJECT (UNDER SEPARATE CONTRACT)
[Symbol]	EXISTING CONCRETE CURB
[Symbol]	PROPOSED CONCRETE CURB
[Symbol]	PROPOSED DEPRESSION CURB
[Symbol]	PROPOSED BUILDING OR STRUCTURE
[Symbol]	EXISTING VALVE CHAMBER
[Symbol]	EXISTING VALVE & VALVE BOX
[Symbol]	EXISTING FIRE HYDRANT
[Symbol]	PROPOSED VALVE & VALVE BOX
[Symbol]	PROPOSED FIRE HYDRANT
[Symbol]	EXISTING SANITARY MANHOLE
[Symbol]	PROPOSED SANITARY MANHOLE
[Symbol]	EXISTING STORM MANHOLE
[Symbol]	PROPOSED STORM MANHOLE
[Symbol]	PROPOSED CATCH BASIN AND LANDSCAPE DRAIN
[Symbol]	PROPOSED TRENCH DRAIN
[Symbol]	EXISTING GRADE
[Symbol]	PROPOSED GRADE
[Symbol]	PROPOSED BOTTOM OF WALL GRADE
[Symbol]	PROPOSED TOP OF WALL GRADE
[Symbol]	PROPOSED TOP OF CURB GRADE
[Symbol]	PROPOSED RETAINING WALL
[Symbol]	PROPOSED DITCH
[Symbol]	PROPOSED TERRACING (MAX 3:1 SLOPE)
[Symbol]	PROPOSED TWEIGS PER SCT 3
[Symbol]	FIRE ROUTE (COLLECTOR ROUTE PAVEMENT)
[Symbol]	PROPOSED LIGHT STRANDED (BY OTHERS)
[Symbol]	PROPOSED BOLLARDS (BY OTHERS)
[Symbol]	MAJOR OVERLAND FLOW ROUTE
[Symbol]	EXISTING TREE AND CRITICAL ROOT ZONE



RECOMMENDED PAVEMENT STRUCTURE - PARKING AREAS

THICKNESS(mm)	MATERIAL DESCRIPTION
90	SUPERPAVE 12.0mm SURFACE COURSE
150	S.P. F-3147 GRANULAR A BASE
400	S.P. F-3147 GRANULAR B TYPE II SUBBASE

RECOMMENDED PAVEMENT STRUCTURE - LOCAL ROUTES

THICKNESS(mm)	MATERIAL DESCRIPTION
40	SUPERPAVE 12.0mm SURFACE COURSE
90	SUPERPAVE 19.0mm BINDER COURSE
150	S.P. F-3147 GRANULAR A BASE
400	S.P. F-3147 GRANULAR B TYPE II SUBBASE

RECOMMENDED PAVEMENT STRUCTURE - COLLECTOR ROUTES

THICKNESS(mm)	MATERIAL DESCRIPTION
90	SUPERPAVE 12.0mm SURFACE COURSE
150	SUPERPAVE 19.0mm BINDER COURSE
300	S.P. F-3147 GRANULAR A BASE
400	S.P. F-3147 GRANULAR B TYPE II SUBBASE

RECOMMENDED PAVEMENT STRUCTURE - RIGID PAVEMENT

THICKNESS(mm)	MATERIAL DESCRIPTION
200	PORTLAND CEMENT CONCRETE
150	S.P. F-3147 GRANULAR A BASE
400	S.P. F-3147 GRANULAR B TYPE II SUBBASE



Project Manager: MS
Project Designer: JEG
Project Architect: JMF
Landscape Architect: JMF
Civil Engineer: EJP
Structural Engineer: Smith + Anderson
Mechanical Engineer: Smith + Anderson
Electrical Engineer: Smith + Anderson
Plumbing Engineer: Smith + Anderson
Interior Designer: Collins
Equipment Planner: Wyzulindas

Sheet Reviewer: PARSONS

MARK DATE DESCRIPTION

01	2022-09-23	ISSUED FOR PRE-CONSULTATION
02	2022-10-26	DRAFT FOR RFP 3D
03	2022-11-30	ISSUED FOR SPC & FLUIDA - 1ST SUBMISSION
04	2022-12-02	ISSUED FOR 3A1-2
05	2023-02-24	ISSUED FOR RFP VERSION 1.0
06	2023-04-12	RE-ISSUED FOR SPC & FLUIDA

Project Number: 10333962
Original Issue: 04/12/22
File Number: 2021-02-22-0168
Rev: 10001

PRELIMINARY
NOT FOR CONSTRUCTION

Sheet Name: GRADING PLAN 2 OF 5

Sheet Number: C010

Project Status: STAGE 3

D07-12-22-0168

RECOMMENDED PAVEMENT STRUCTURE - PARKING AREAS	
THICKNESS(mm)	MATERIAL DESCRIPTION
60	SUPERPAVE 12.5mm SURFACE COURSE
150	S.P. F-3147 GRANULAR A BASE
400	S.P. F-3147 GRANULAR B TYPE B SUBBASE

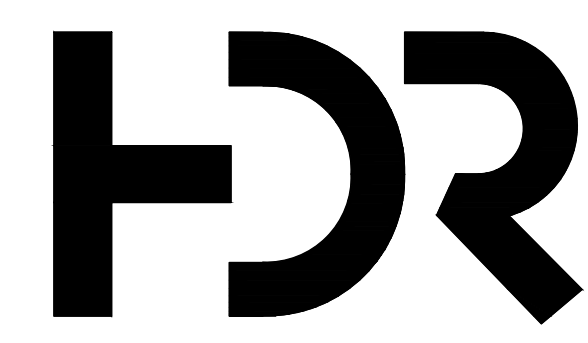
RECOMMENDED PAVEMENT STRUCTURE - LOCAL ROUTES	
THICKNESS(mm)	MATERIAL DESCRIPTION
60	SUPERPAVE 12.5mm SURFACE COURSE
150	SUPERPAVE 19.0mm BINDER COURSE
400	S.P. F-3147 GRANULAR B TYPE B SUBBASE

RECOMMENDED PAVEMENT STRUCTURE - COLLECTOR ROUTES	
THICKNESS(mm)	MATERIAL DESCRIPTION
60	SUPERPAVE 12.5mm SURFACE COURSE
150	SUPERPAVE 19.0mm BINDER COURSE
400	S.P. F-3147 GRANULAR B TYPE B SUBBASE

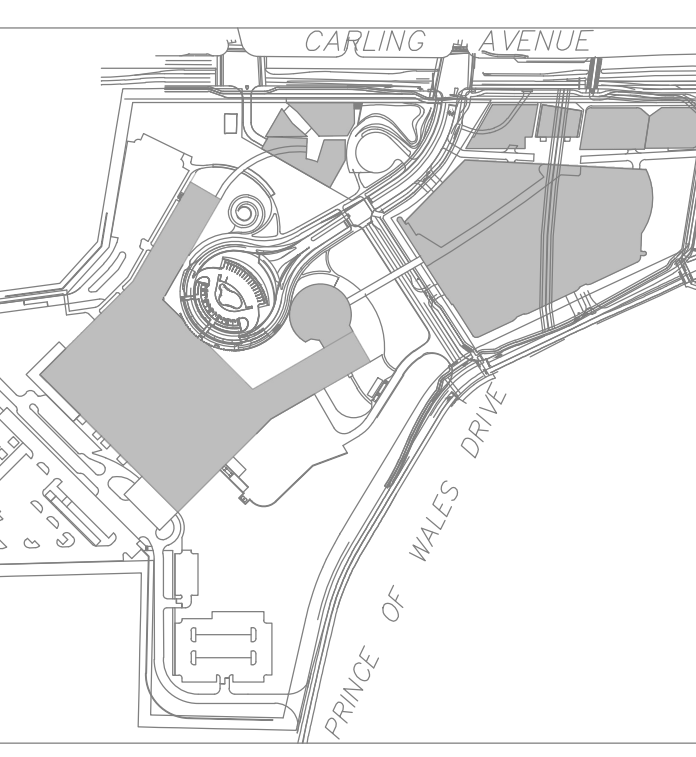
RECOMMENDED PAVEMENT STRUCTURE - RIGID PAVEMENT	
THICKNESS(mm)	MATERIAL DESCRIPTION
200	PORTLAND CEMENT CONCRETE
150	S.P. F-3147 GRANULAR A BASE
400	S.P. F-3147 GRANULAR B TYPE B SUBBASE

NOTES: GRADING

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- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500mm WITH MINIMUM IN ACCORDANCE WITH D2 ON DRAWING C103.
- CURBS TO BE CONCRETE BARRIER, CONSTRUCTED AS PER CITY OF OTTAWA DETAIL SC1.1. ELEVATIONS AT CURB INDICATE THE GRADE AT THE FINISHED ROAD SURFACE UNLESS NOTED OTHERWISE.
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- ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPS STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. CONSTRUCTION TO OPS 206, 310 & 314. MATERIALS TO OPS 1001, 1003 & 1010.
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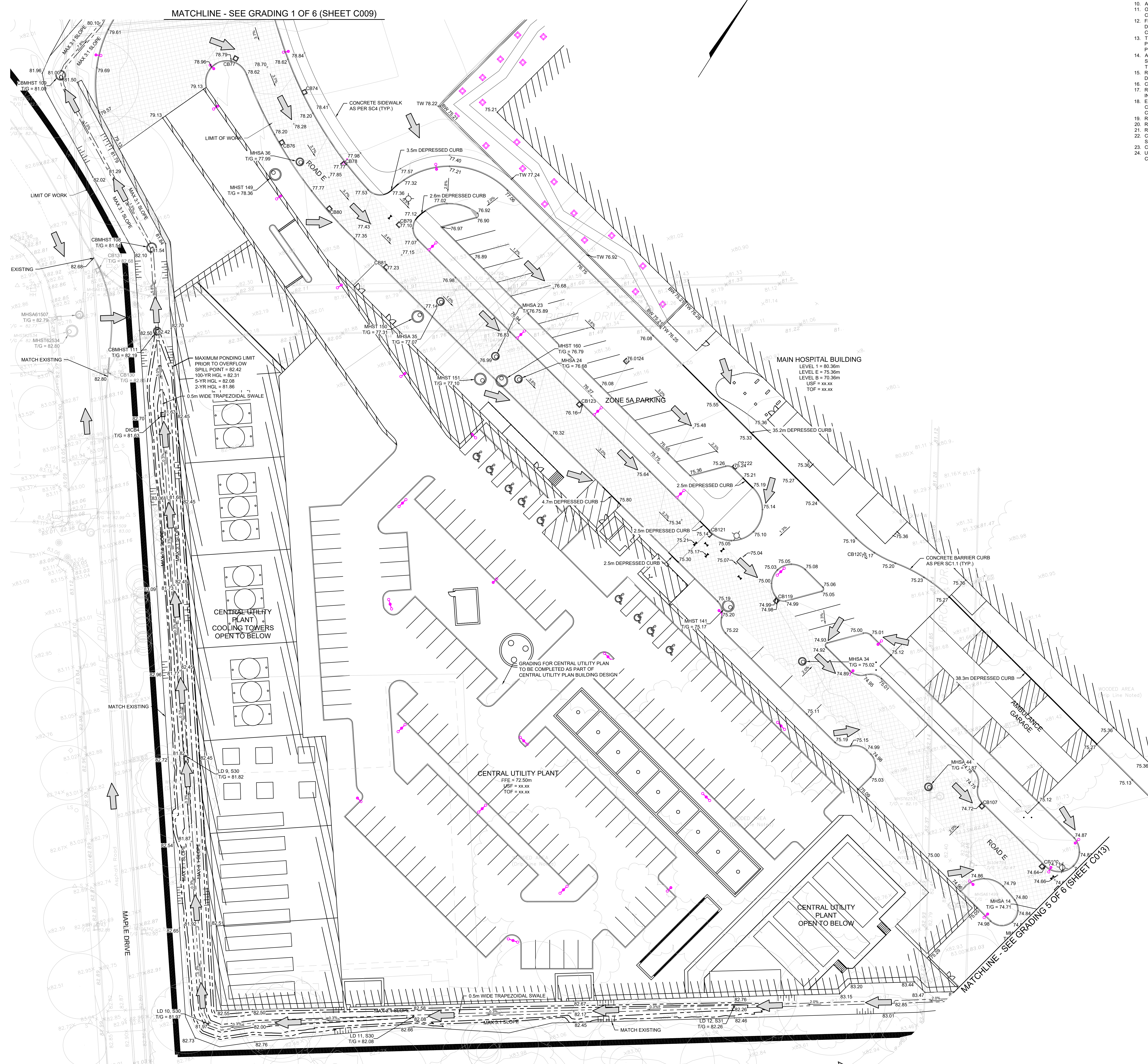
HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
Ottawa, Ontario K1Z 0A6



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- CIVIC CAMPUS
REDEVELOPMENT

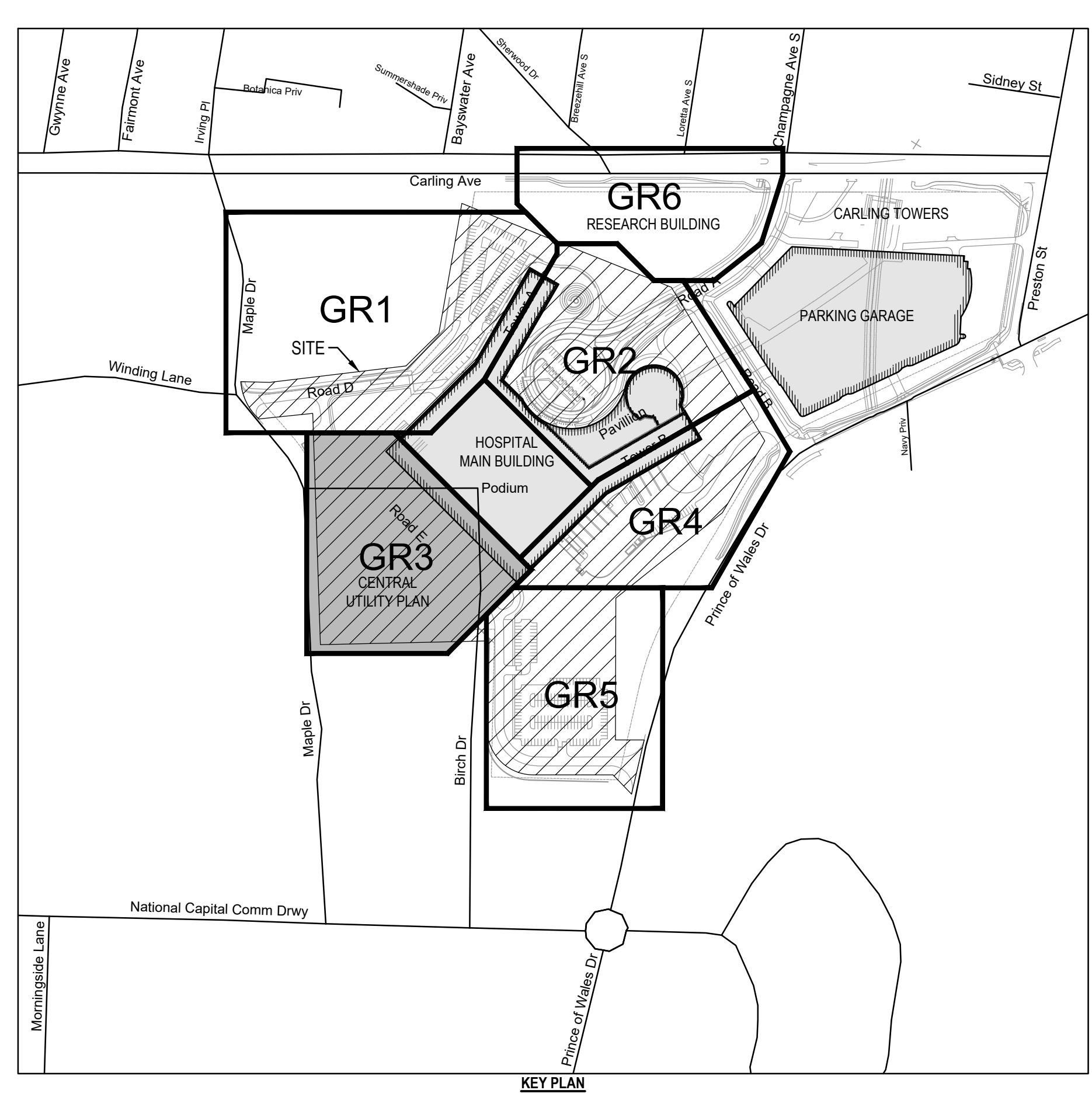
NEW CAMPUS DEVELOPMENT
FOR THE OTTAWA HOSPITAL

NOUVEAU CAMPUS
DE L'HÔPITAL D'OTTAWA



LEGEND:

[Symbol]	EXISTING PROPERTY LINE
[Symbol]	PHASE 2 PARKING GARAGE PROJECT (UNDER SEPARATE CONTRACT)
[Symbol]	EXISTING CONCRETE CURB
[Symbol]	PROPOSED CONCRETE CURB
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Project Manager	MB
Project Designer	JEG
Project Architect	JEF
Landscape Architect	JF Fairs
Civil Engineer	PARSONS
Structural Engineer	ENR
Mechanical Engineer	Smith + Anderson
Electrical Engineer	Smith + Anderson
Plumbing Engineer	Smith + Anderson
Interior Designer	Collins
Equipment Planner	Collins
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Project Number: 1033982
Original Issue: 04/12/22
File Number: 200-22-20168
Rev: 18991

PRELIMINARY
NOT FOR CONSTRUCTION

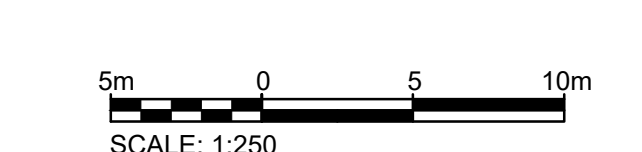
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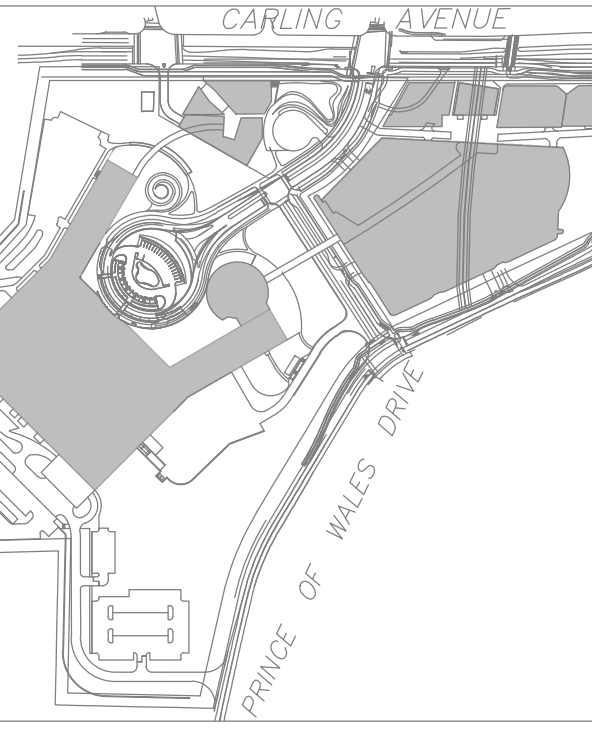
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Project Status: STAGE 3

D07-12-22-0168

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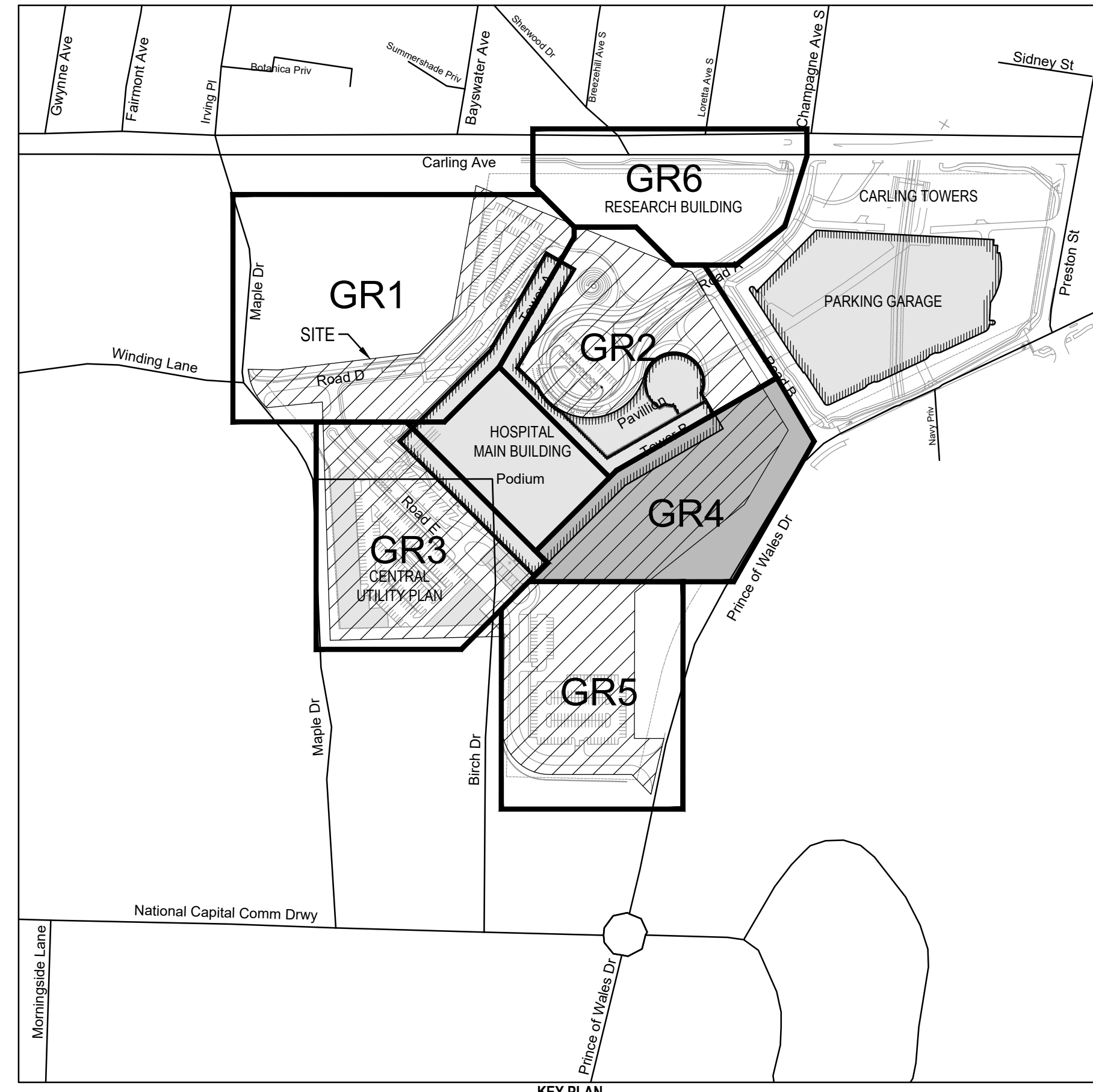
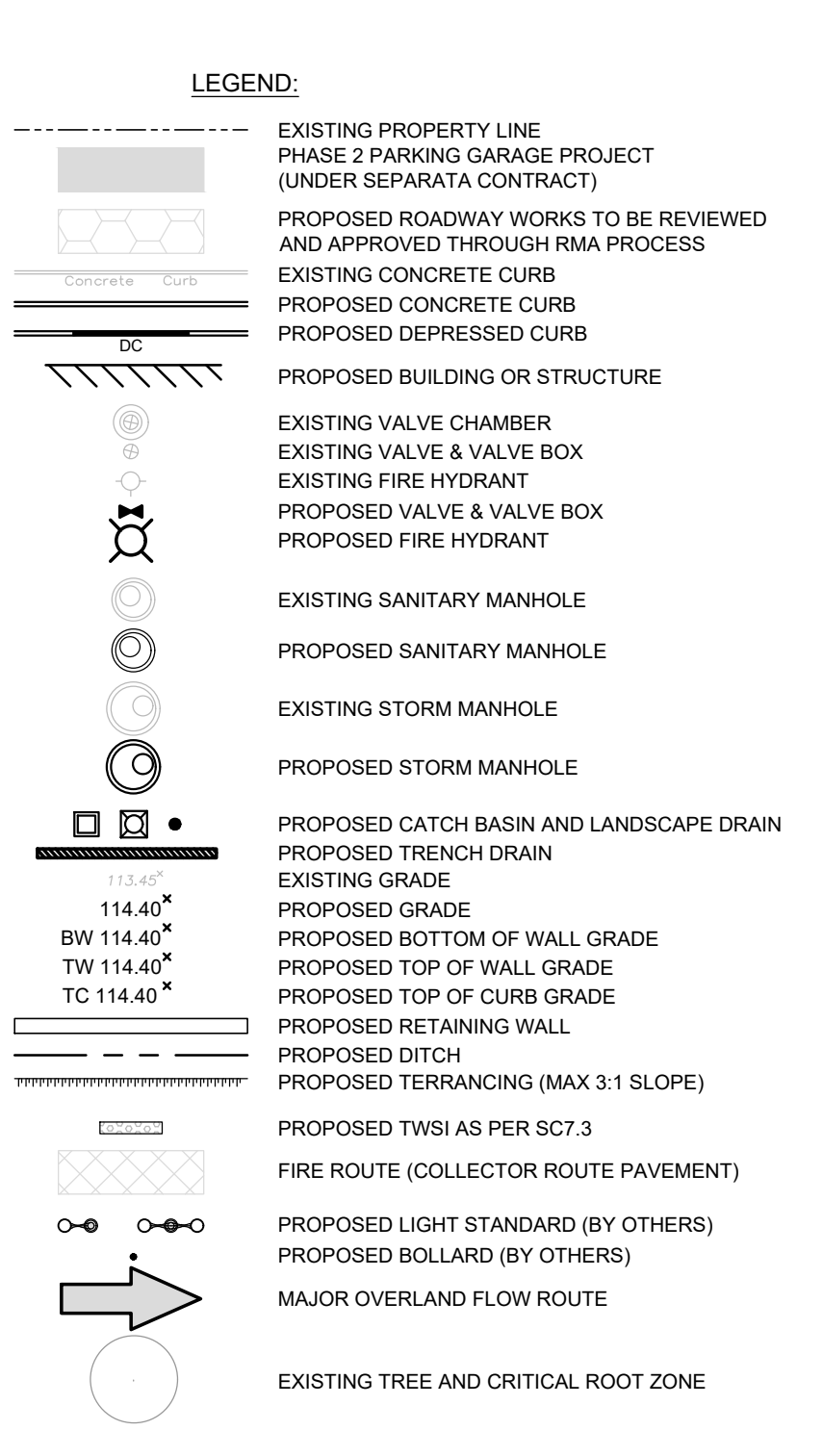




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- CIVIC CAMPUS
REDEVELOPMENT

NOTES GRADING

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- ADJUSTING PROPERTY GRADE TO BE MATCHED.
- OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.
- FILTER FABRIC TO BE INSTALLED AND MAINTAINED BETWEEN THE FRAME AND COVER OF ALL CATCHBASINS AND CATCHBASIN MANHOLES DURING THE CONSTRUCTION PERIOD TO MINIMIZE SEDIMENTS ENTERING THE STORM SEWER SYSTEM. ALL GRASSED AREAS MUST BE COMPLETED PRIOR TO THE REMOVAL OF THE FILTER FABRIC IN THE CATCH BASIN.
- THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS BUT NOT LIMITED TO, ROAD CUT PERMITS, SEWER PERMITS, WATER PERMIT, ETC.
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- REFER TO ARCHITECT AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING, LANDSCAPE, AND HARD SURFACE AREAS AND DIMENSIONS.
- CONTRACTOR IS RESPONSIBLE TO KEEP THE ROADS FREE AND CLEAN FROM MUD OR DEBRIS.
- REFER TO GEOTECHNICAL REPORT FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS.
- EXISTING SERVICES AND UTILITIES SHOWN ON THESE DRAWINGS ARE TAKEN FROM THE BEST AVAILABLE RECORDS, BUT ARE NOT COMPLETE. CONTRACTOR IS ADVISED TO CHECK IN FIELD FOR LOCATION AND ELEVATION OF PIPES AND CHECK WITH THE UTILITY COMPANIES BEFORE DIGGING.
- REFER TO STRUCTURAL DRAWINGS FOR SITE RETAINING WALLS.
- REFER TO MECHANICAL DRAWINGS FOR SNOW MELT AREAS.
- REFER TO ELECTRICAL DRAWINGS FOR SITE LIGHTING.
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE WORK COMMENCES. DO NOT SCALE DRAWINGS.
- CONTRACTOR IS ADVISED TO COLLECT INFORMATION ON SOIL CONDITIONS AS DEEMED NECESSARY.
- UNLESS THE REVISION TITLE IS ISSUED FOR CONSTRUCTION, THIS SHALL BE CONSIDERED PRELIMINARY AND SHALL NOT BE USED AS A CONSTRUCTION DOCUMENT.

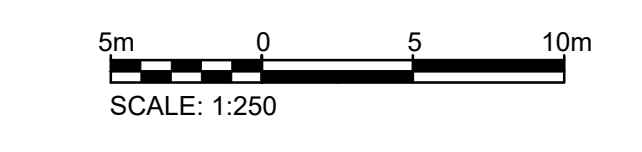


THICKNESS(mm)	MATERIAL DESCRIPTION
50	SUPERPAVE 12.5mm SURFACE COURSE
100	SUPERPAVE 19.5mm BINDER COURSE
400	S.P. F-3147 GRANULAR A BASE

THICKNESS(mm)	MATERIAL DESCRIPTION
40	SUPERPAVE 12.5mm SURFACE COURSE
70	SUPERPAVE 19.5mm BINDER COURSE
150	S.P. F-3147 GRANULAR A BASE
400	S.P. F-3147 GRANULAR B TYPE 1 SUBBASE

THICKNESS(mm)	MATERIAL DESCRIPTION
50	SUPERPAVE 12.5mm FCI SURFACE COURSE
70	SUPERPAVE 19.5mm BINDER COURSE
150	S.P. F-3147 GRANULAR A BASE
400	S.P. F-3147 GRANULAR B TYPE 1 SUBBASE

THICKNESS(mm)	MATERIAL DESCRIPTION
200	PORTLAND CEMENT CONCRETE
150	S.P. F-3147 GRANULAR A BASE
400	S.P. F-3147 GRANULAR B TYPE 1 SUBBASE



Project Manager	MT
Project Designer	JEG
Project Architect	JEG
Landscape Architect	JEF Fairs
Civil Engineer	PARSONS
Structural Engineer	EVF
Mechanical Engineer	Smith + Anderson
Electrical Engineer	Smith + Anderson
Plumbing Engineer	Smith + Anderson
Interior Designer	Interior Designer
Equipment Planner	Collins
Wayfinders	

MARK	DATE	DESCRIPTION
01	2022-09-23	ISSUED FOR PRE CONSULTATION
02	2022-10-26	DRAFT FOR RFP ID
03	2022-11-30	ISSUED FOR SPC & FLUIDA - 1ST SUBMISSION
04	2022-12-02	ISSUED FOR 3A1.2
05	2023-02-24	ISSUED FOR RFP VERSION 1.0
06	2023-04-12	RE-ISSUED FOR SPC & FLUIDA

Project Number	1033960
Original Issue	04/12/22
File Number	201-22-00168
Rev	1001

PRELIMINARY
NOT FOR CONSTRUCTION

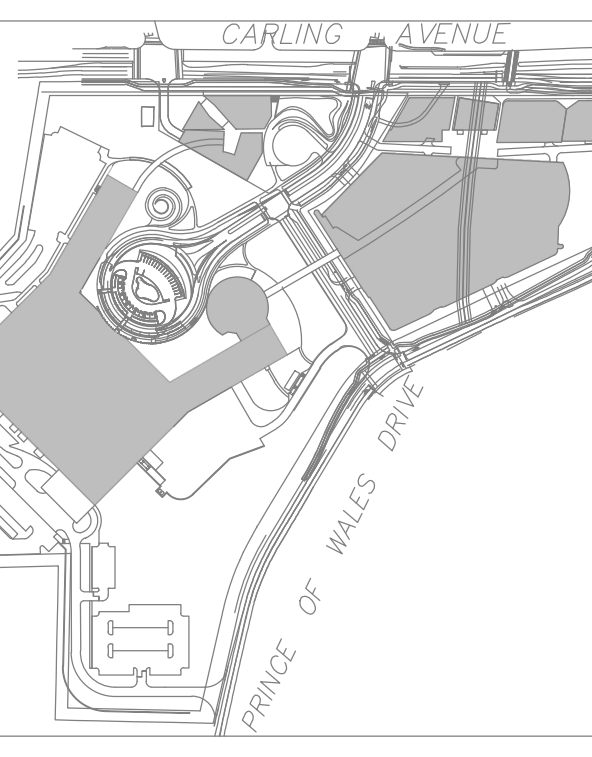
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GRADING PLAN 4 OF 5

Sheet Number
C012

Project Status
STAGE 3

D07-12-22-0168

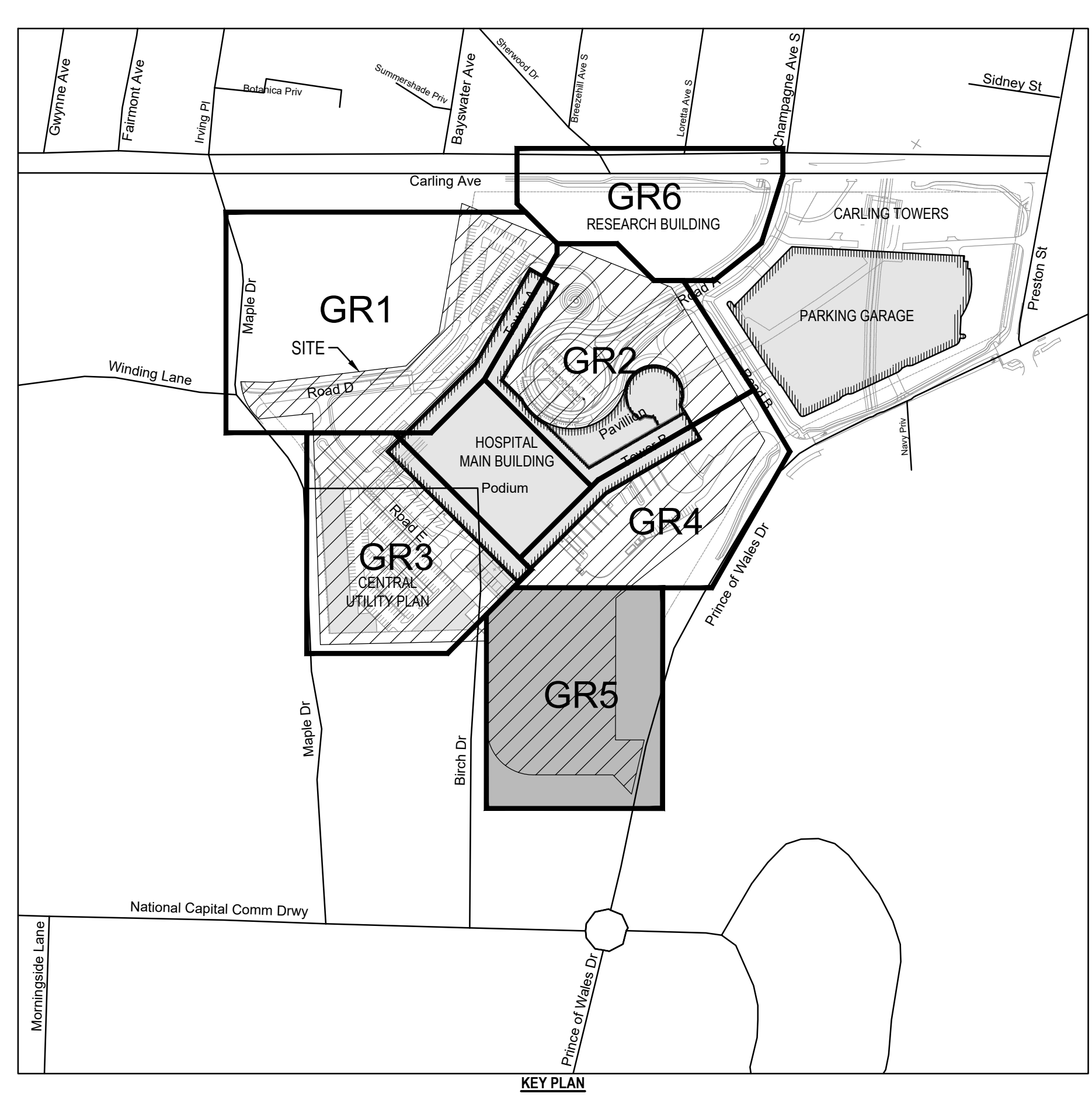
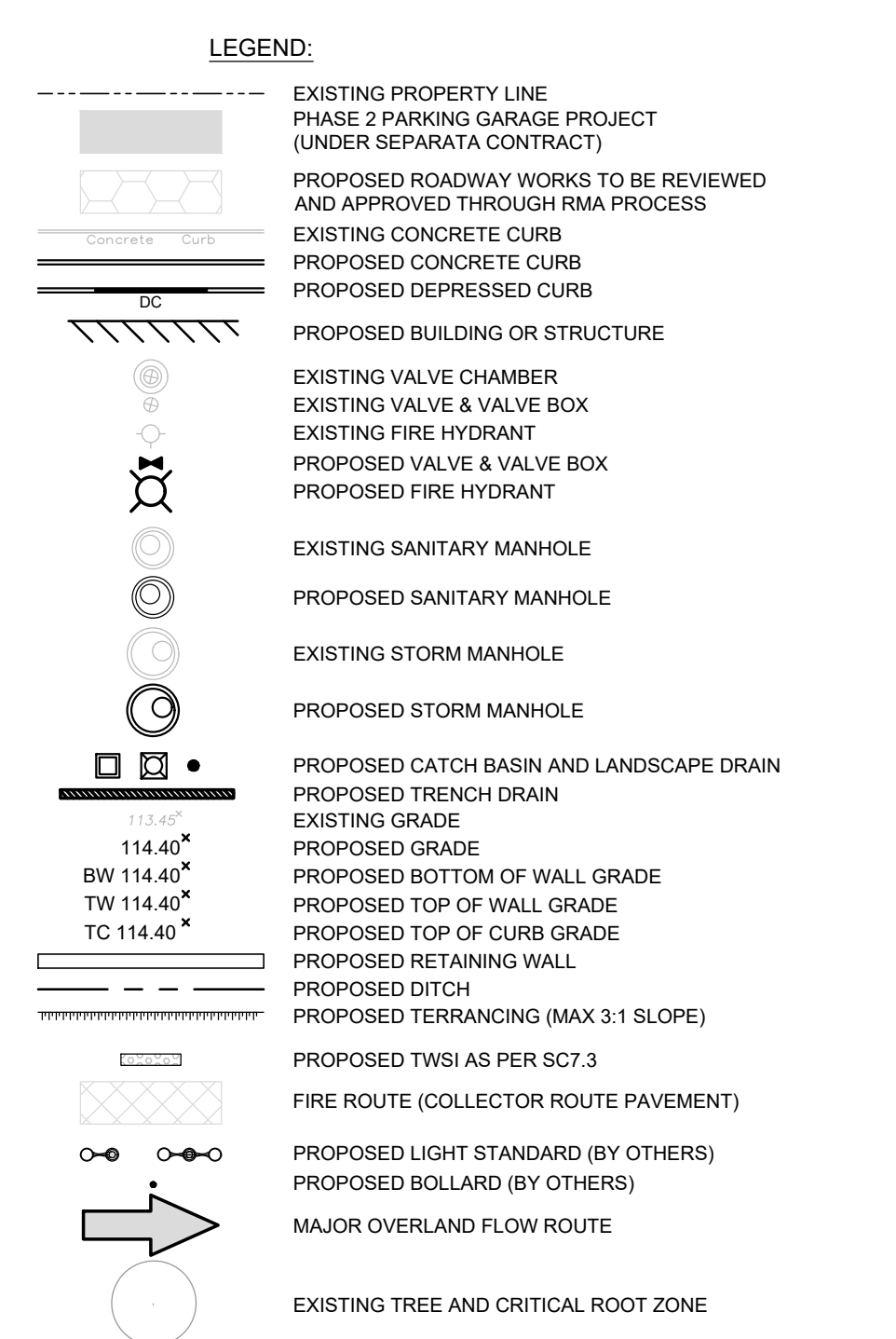
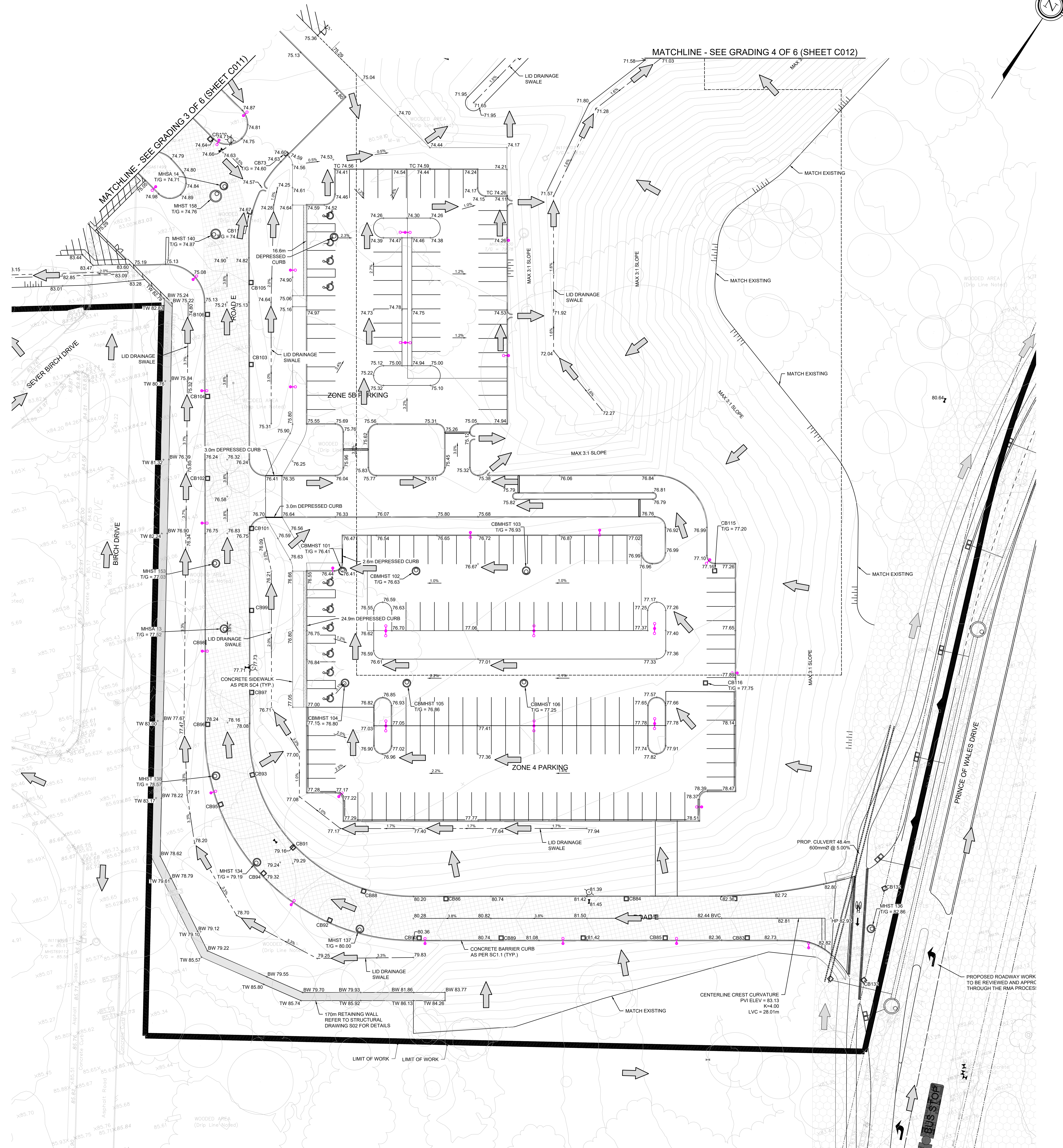
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THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT

NOTES: GRADING

- CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.
- ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
- JOB BENCH MARK - REFER TO SURVEY BY ADV LTD. CONFIRM WITH CONTRACT ADMINISTRATOR PRIOR TO UTILIZATION OF BENCH MARK.
- ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT POONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500mm WIDTH MINIMUM IN ACCORDANCE WITH 02 ON DRAWING C103.
- CURBS TO BE CONCRETE BARRIER, CONSTRUCTED AS PER CITY OF OTTAWA DETAIL S02.1. ELEVATIONS AT CURBS INDICATE THE GRADE AT THE FINISHED ROAD SURFACE UNLESS NOTED OTHERWISE.
- RESTORE PAVEMENT STRUCTURE AND SURFACES ON EXISTING ROADS TO A CONDITION AT LEAST EQUAL TO ORIGINAL AND TO THE SATISFACTION OF THE MUNICIPAL AUTHORITIES.
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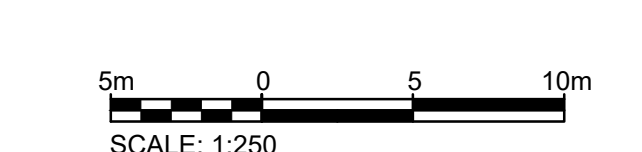


THICKNESS(mm)	MATERIAL DESCRIPTION
50	SUPERPAVE 12.5mm SURFACE COURSE
100	SUPERPAVE 12.5mm SURFACE COURSE
150	S.P. F-3147 GRANULAR A BASE
400	S.P. F-3147 GRANULAR B TYPE 1 SUBBASE

THICKNESS(mm)	MATERIAL DESCRIPTION
40	SUPERPAVE 12.5mm SURFACE COURSE
70	SUPERPAVE 12.5mm SURFACE COURSE
150	S.P. F-3147 GRANULAR A BASE
400	S.P. F-3147 GRANULAR B TYPE 1 SUBBASE

THICKNESS(mm)	MATERIAL DESCRIPTION
50	SUPERPAVE 12.5mm SURFACE COURSE
70	SUPERPAVE 12.5mm SURFACE COURSE
150	S.P. F-3147 GRANULAR A BASE
400	S.P. F-3147 GRANULAR B TYPE 1 SUBBASE

THICKNESS(mm)	MATERIAL DESCRIPTION
200	PORTLAND CEMENT CONCRETE
150	S.P. F-3147 GRANULAR A BASE
400	S.P. F-3147 GRANULAR B TYPE 1 SUBBASE



Project Manager	MB
Project Designer	JEG
Project Architect	JEG
Landscape Architect	JF Fairs
Civil Engineer	PARSONS
Structural Engineer	ENR
Mechanical Engineer	Smith + Anderson
Electrical Engineer	Smith + Anderson
Plumbing Engineer	Smith + Anderson
Interior Designer	Collins
Equipment Planner	Collins
Windowing	Collins

Sheet Reviewer	PARSONS
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MARK	DATE	DESCRIPTION
01	2022-08-23	ISSUED FOR PRE CONSULTATION
02	2022-10-26	DRAFT FOR RFP ID
03	2022-11-30	ISSUED FOR SPC & FLUIDA - 1ST SUBMISSION
04	2022-12-02	ISSUED FOR 3A1.2
05	2023-02-24	ISSUED FOR RFP VERSION 1.0
06	2023-04-12	RE-ISSUED FOR SPC & FLUIDA

Project Number	1033982
Original Issue	04/12/22
File Number	201-22-22-0168
Rev	19991

PRELIMINARY
NOT FOR CONSTRUCTION

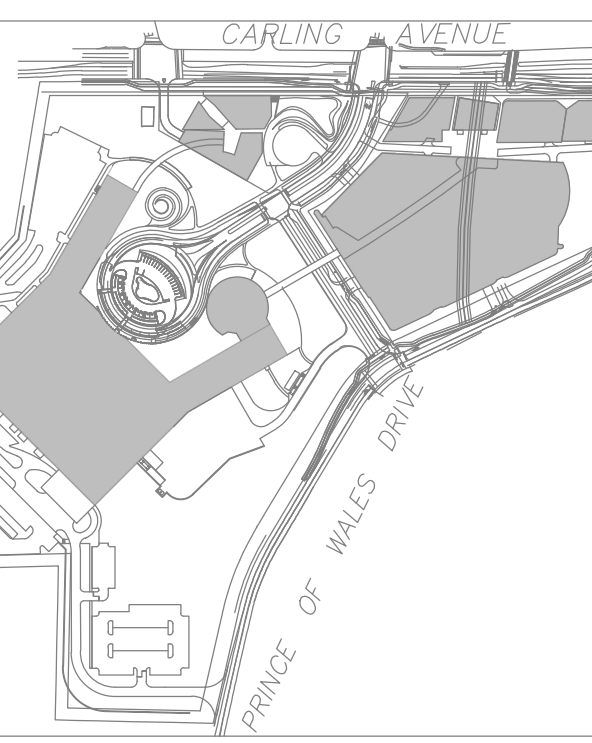
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GRADING PLAN 5 OF 5

Sheet Number
C013

Project Status
STAGE 3

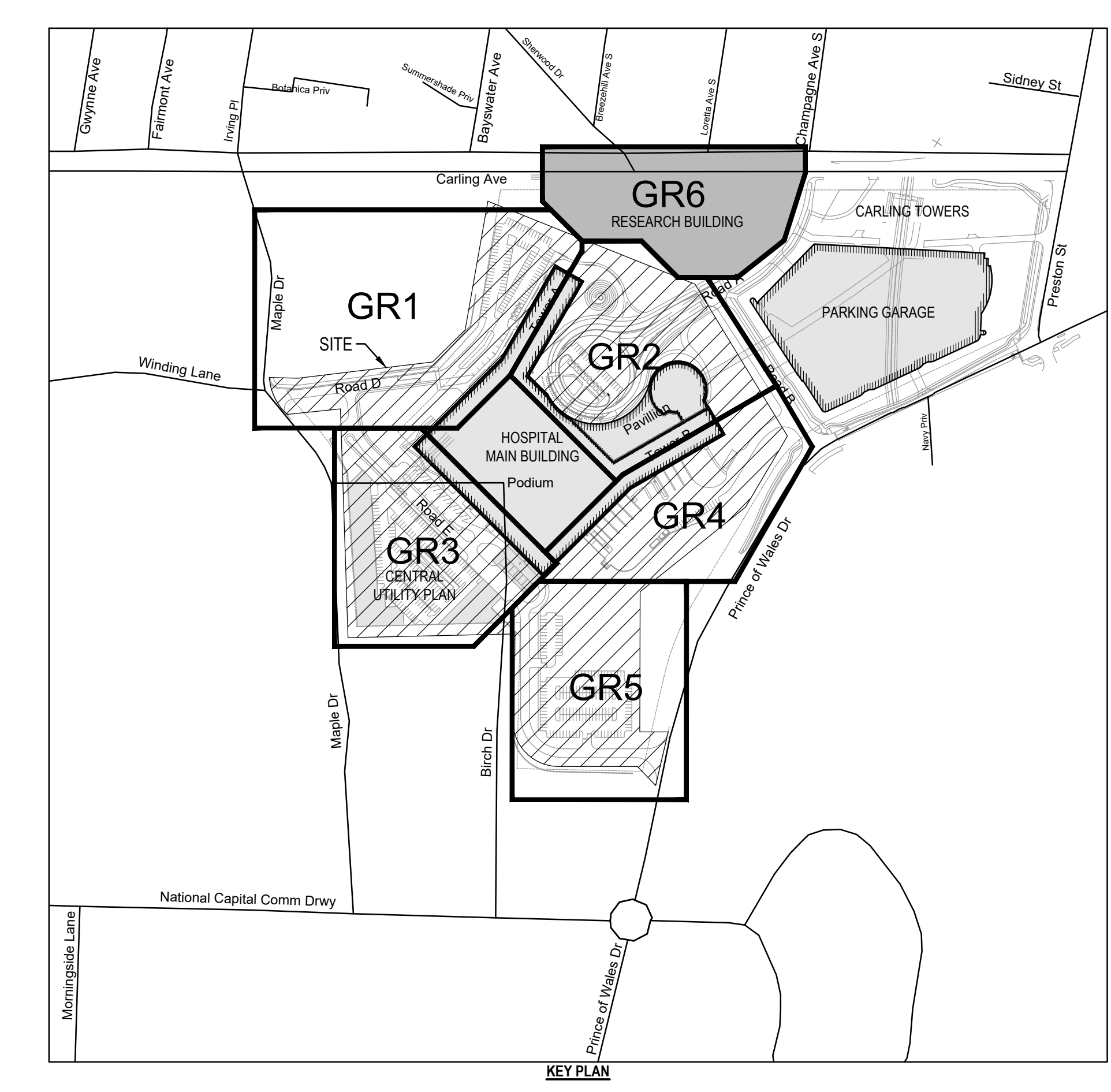
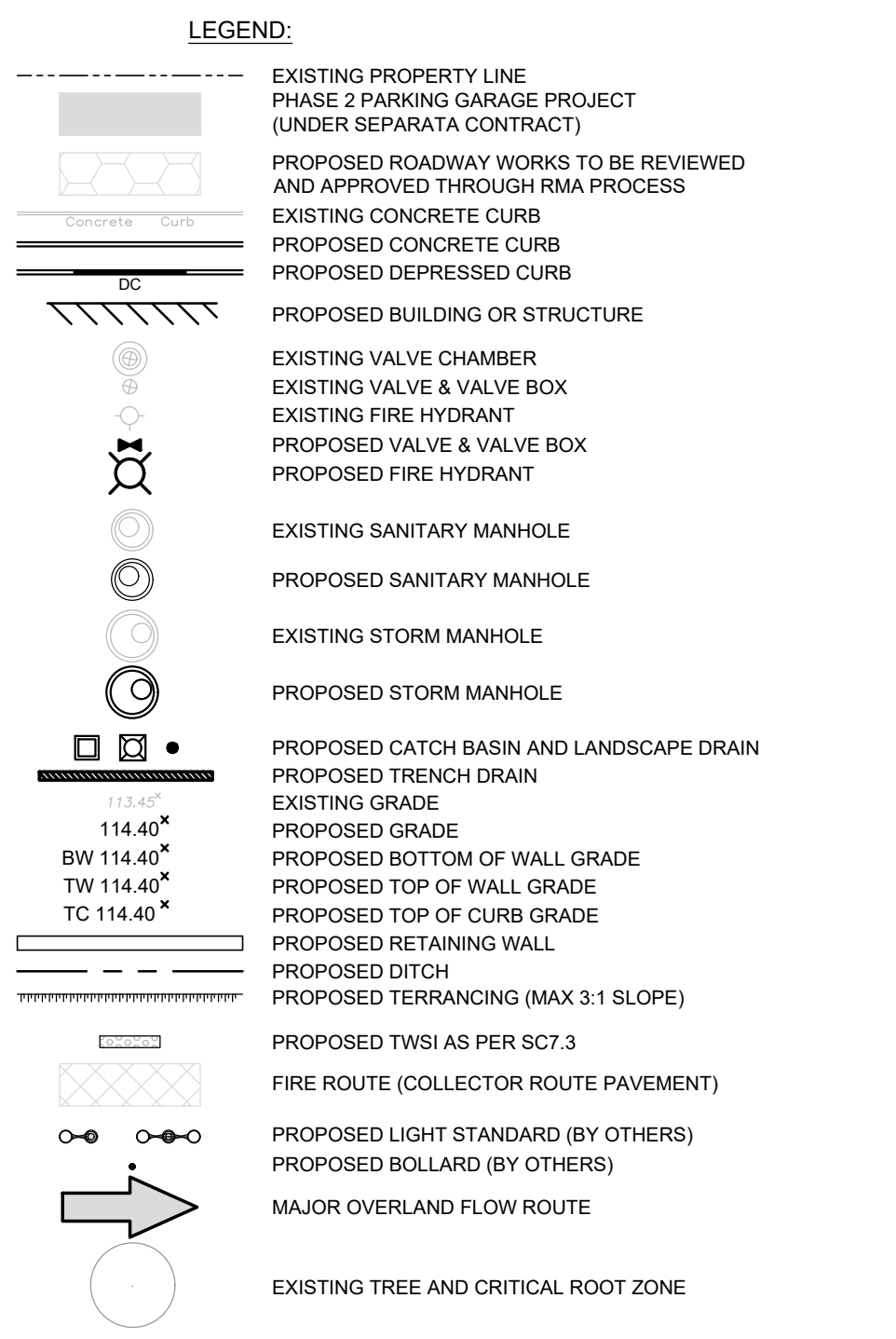
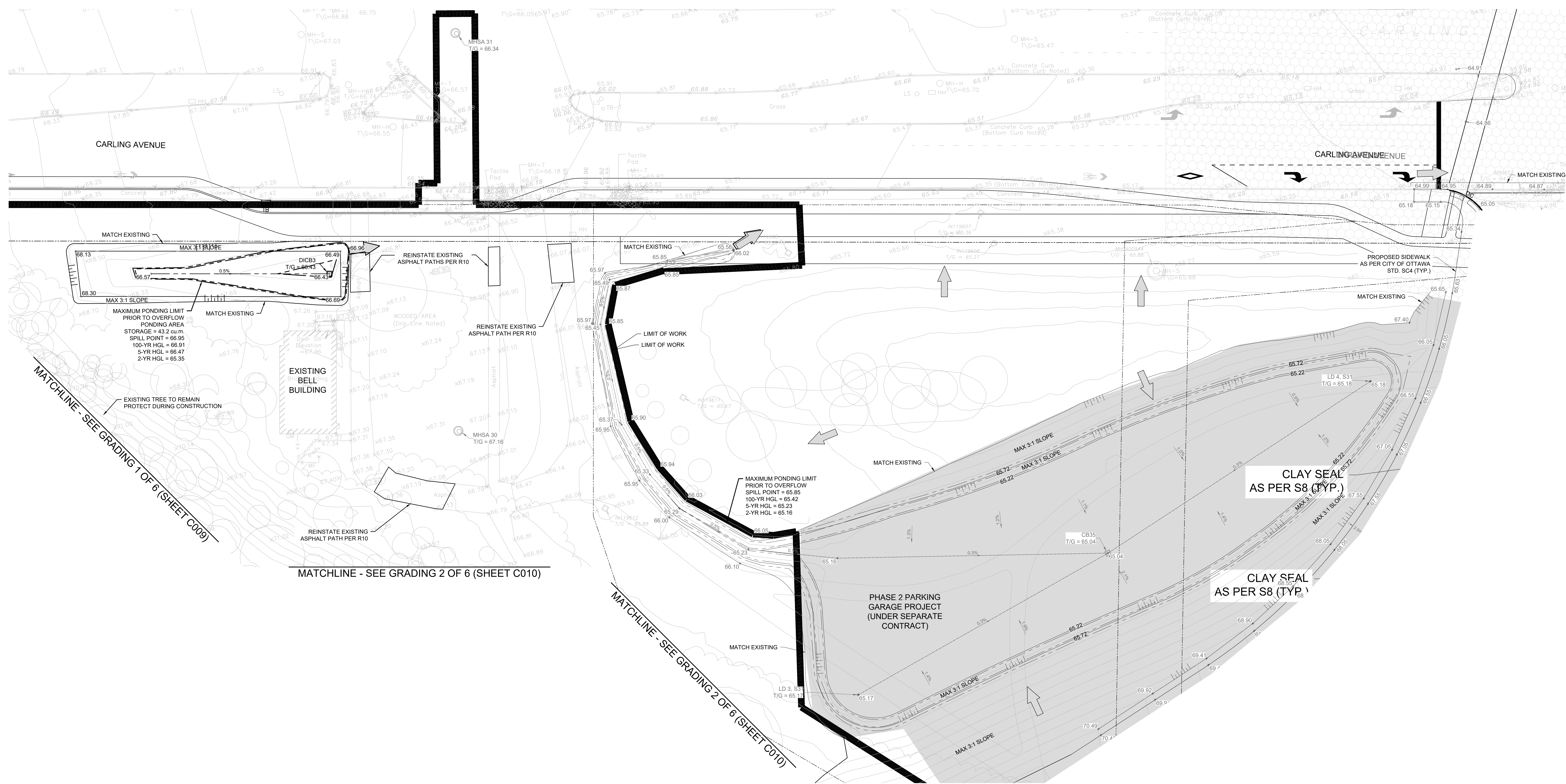
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THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT

- NOTES: GRADING
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RECOMMENDED PAVEMENT STRUCTURE - PARKING AREAS		RECOMMENDED PAVEMENT STRUCTURE - LOCAL ROUTES		RECOMMENDED PAVEMENT STRUCTURE - COLLECTOR ROUTES		RECOMMENDED PAVEMENT STRUCTURE - HIGH PAVEMENT	
THICKNESS (mm)	MATERIAL DESCRIPTION	THICKNESS (mm)	MATERIAL DESCRIPTION	THICKNESS (mm)	MATERIAL DESCRIPTION	THICKNESS (mm)	MATERIAL DESCRIPTION
50	SUPERPAVE 12.5mm SURFACE COURSE	40	SUPERPAVE 12.5mm SURFACE COURSE	50	SUPERPAVE 12.5mm FC1 SURFACE COURSE	200	PORTLAND CEMENT CONCRETE
100	S.F. F-3147 GRANULAR A BASE	50	SUPERPAVE 10mm BRICKER COURSE	70	SUPERPAVE 10mm BRICKER COURSE	150	S.F. F-3147 GRANULAR A BASE
400	S.F. F-3147 GRANULAR B TYPE 1 SUBBASE	100	S.F. F-3147 GRANULAR A BASE	100	S.F. F-3147 GRANULAR A BASE	400	S.F. F-3147 GRANULAR B TYPE 1 SUBBASE
		400	S.F. F-3147 GRANULAR B TYPE 1 SUBBASE	400	S.F. F-3147 GRANULAR B TYPE 1 SUBBASE		

Project Manager	MR
Project Designer <td>JEG</td>	JEG
Project Architect <td>JEG</td>	JEG
Landscape Architect <td>JH Fairs</td>	JH Fairs
Civil Engineer <td>PARSONS</td>	PARSONS
Structural Engineer <td>ENR</td>	ENR
Mechanical Engineer <td>Smith + Anderson</td>	Smith + Anderson
Electrical Engineer <td>Smith + Anderson</td>	Smith + Anderson
Plumbing Engineer <td>Smith + Anderson</td>	Smith + Anderson
Interior Designer <td>Collins</td>	Collins
Equipment Planner <td>Collins</td>	Collins
Wardlines <td>Collins</td>	Collins

MARK	DATE	DESCRIPTION
01	2022-09-23	ISSUED FOR PRE CONSULTATION
02	2022-10-26	DRAFT FOR RFP ID
03	2022-11-30	ISSUED FOR SPC & FLUIDA - 1ST SUBMISSION
04	2022-12-02	ISSUED FOR 3A1.2
05	2023-02-24	ISSUED FOR RFP VERSION 1.0
06	2023-04-12	RE-ISSUED FOR SPC & FLUIDA

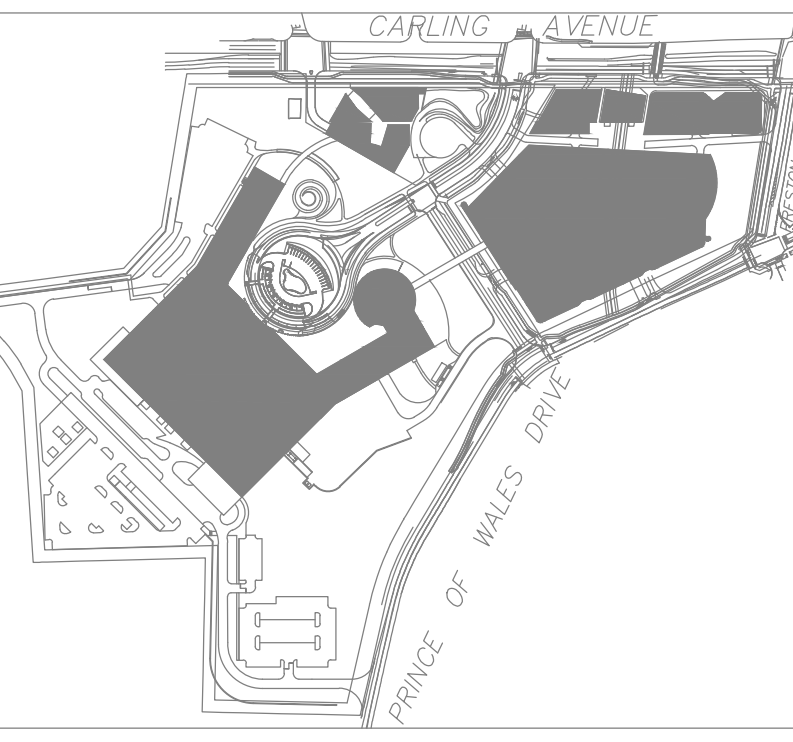
Project Number: 1033960
Original Issue: 04/12/22
File Number: 201-22-22-0168
Rev: 1001

PRELIMINARY
NOT FOR CONSTRUCTION

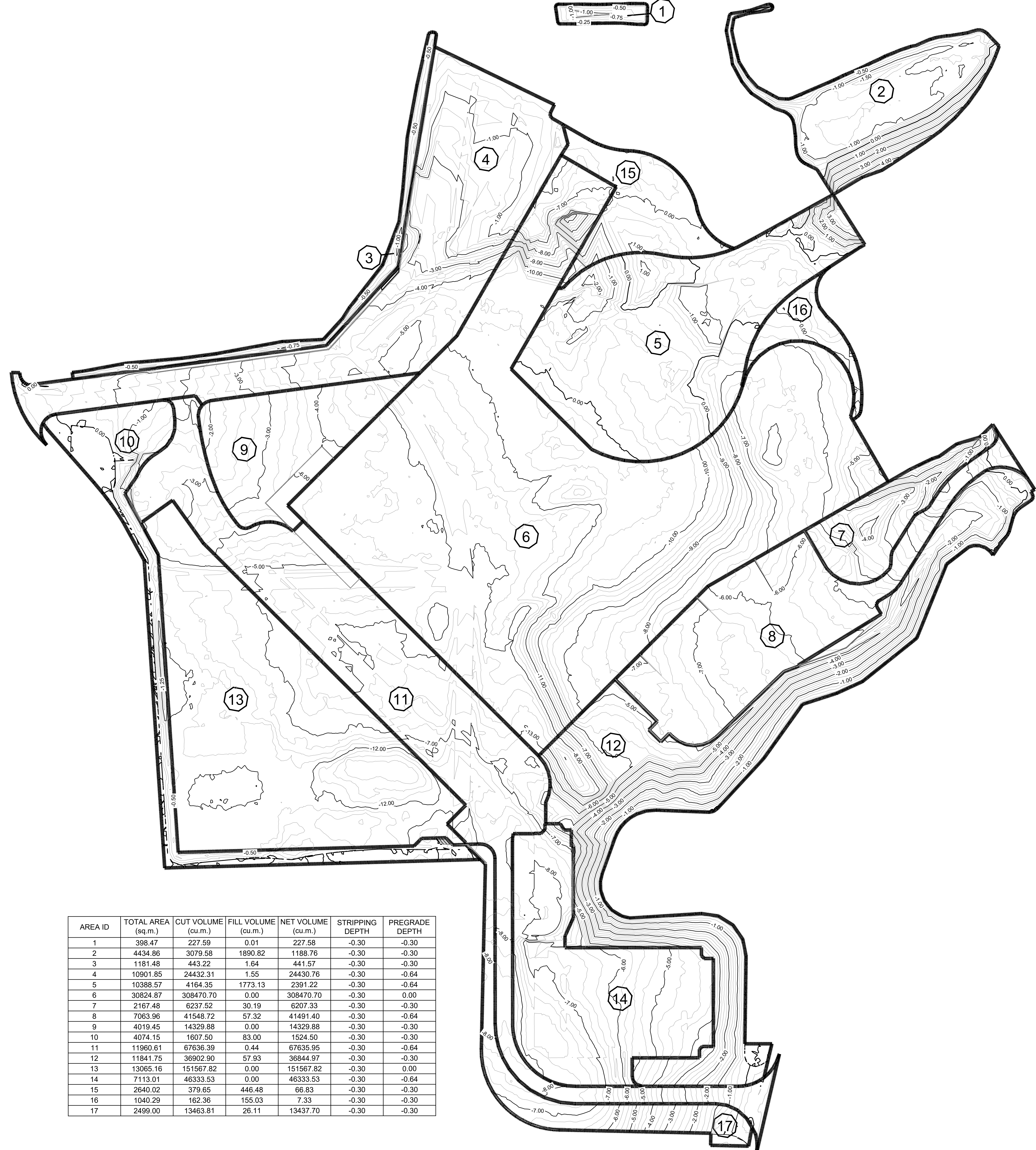
Sheet Name: GRADING PLAN 6 OF 6

Sheet Number: C014

Project Status: STAGE 3



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- CIVIC CAMPUS
REDEVELOPMENT



AREA ID	TOTAL AREA (sq.m.)	CUT VOLUME (cu.m.)	FILL VOLUME (cu.m.)	NET VOLUME (cu.m.)	STRIPPING DEPTH	PREGRADE DEPTH
1	398.47	227.59	0.01	227.58	-0.30	-0.30
2	4434.86	3079.58	1890.82	1188.76	-0.30	-0.30
3	1181.48	443.22	1.64	441.57	-0.30	-0.30
4	10901.85	24432.31	1.55	24430.76	-0.30	-0.64
5	10388.57	4164.35	1773.13	2391.22	-0.30	-0.64
6	30824.87	308470.70	0.00	308470.70	-0.30	0.00
7	2167.48	6237.52	30.19	6207.33	-0.30	-0.30
8	7063.96	41548.72	57.32	41491.40	-0.30	-0.64
9	4019.45	14329.88	0.00	14329.88	-0.30	-0.30
10	4074.15	1607.50	83.00	1524.50	-0.30	-0.30
11	11960.81	67636.39	0.44	67635.95	-0.30	-0.64
12	11841.75	36902.90	57.93	36844.97	-0.30	-0.30
13	13065.16	151567.82	0.00	151567.82	-0.30	0.00
14	7113.01	46333.53	0.00	46333.53	-0.30	-0.64
15	2640.02	379.65	446.48	66.83	-0.30	-0.30
16	1040.29	162.36	155.03	7.33	-0.30	-0.30
17	2499.00	13463.81	26.11	13437.70	-0.30	-0.30

Project Manager	MB
Project Designer	JEG
Project Architect	JEG
Landscape Architect	MJ Fairs
Civil Engineer	PARSONS
Structural Engineer	ENV
Mechanical Engineer	Smith + Anderson
Electrical Engineer	Smith + Anderson
Plumbing Engineer	Smith + Anderson
Interior Designer	Collins
Equipment Planner	Collins
Wayfinding	Collins

Sheet Reviewer: PARSONS

MARK	DATE	DESCRIPTION
01	2022-08-23	ISSUED FOR PRE-CONSULTATION
02	2022-10-26	DRAFT FOR RFP 3D
03	2022-11-30	ISSUED FOR SPC & FLUIDA - 1ST SUBMISSION
04	2022-12-02	ISSUED FOR 3A1.2
05	2023-03-24	ISSUED FOR RFP VERSION 1.0
06	2023-04-12	RE-ISSUED FOR SPC & FLUIDA

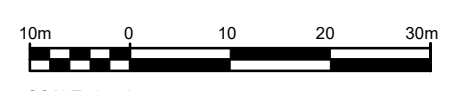
Project Number	1033380
Original Issue	04/21/22
File Number	200-12-22-0168
File	18991

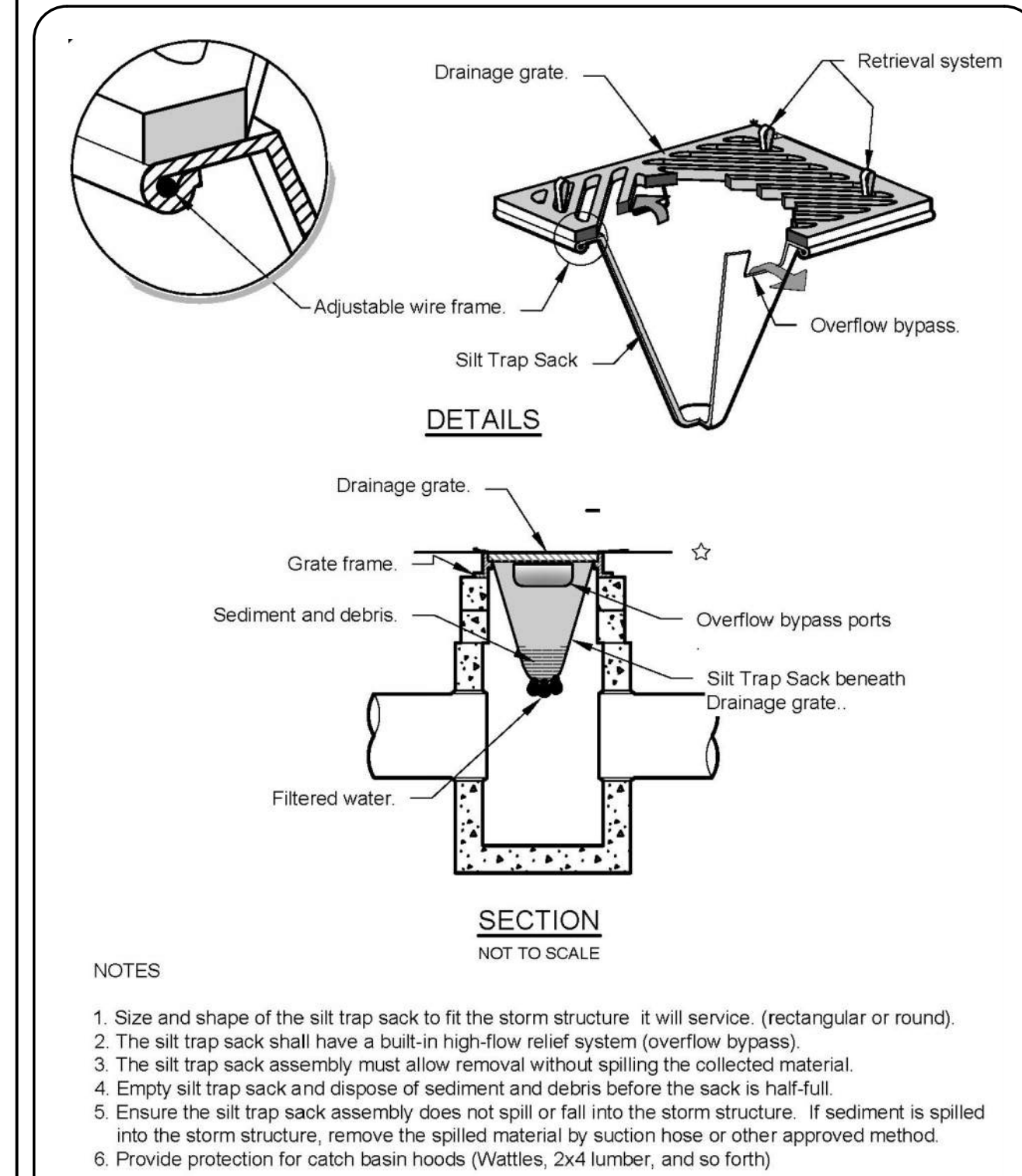
PRELIMINARY
NOT FOR CONSTRUCTION

CUT-FILL
PLAN

Sheet Number
C015

Project Status
STAGE 3

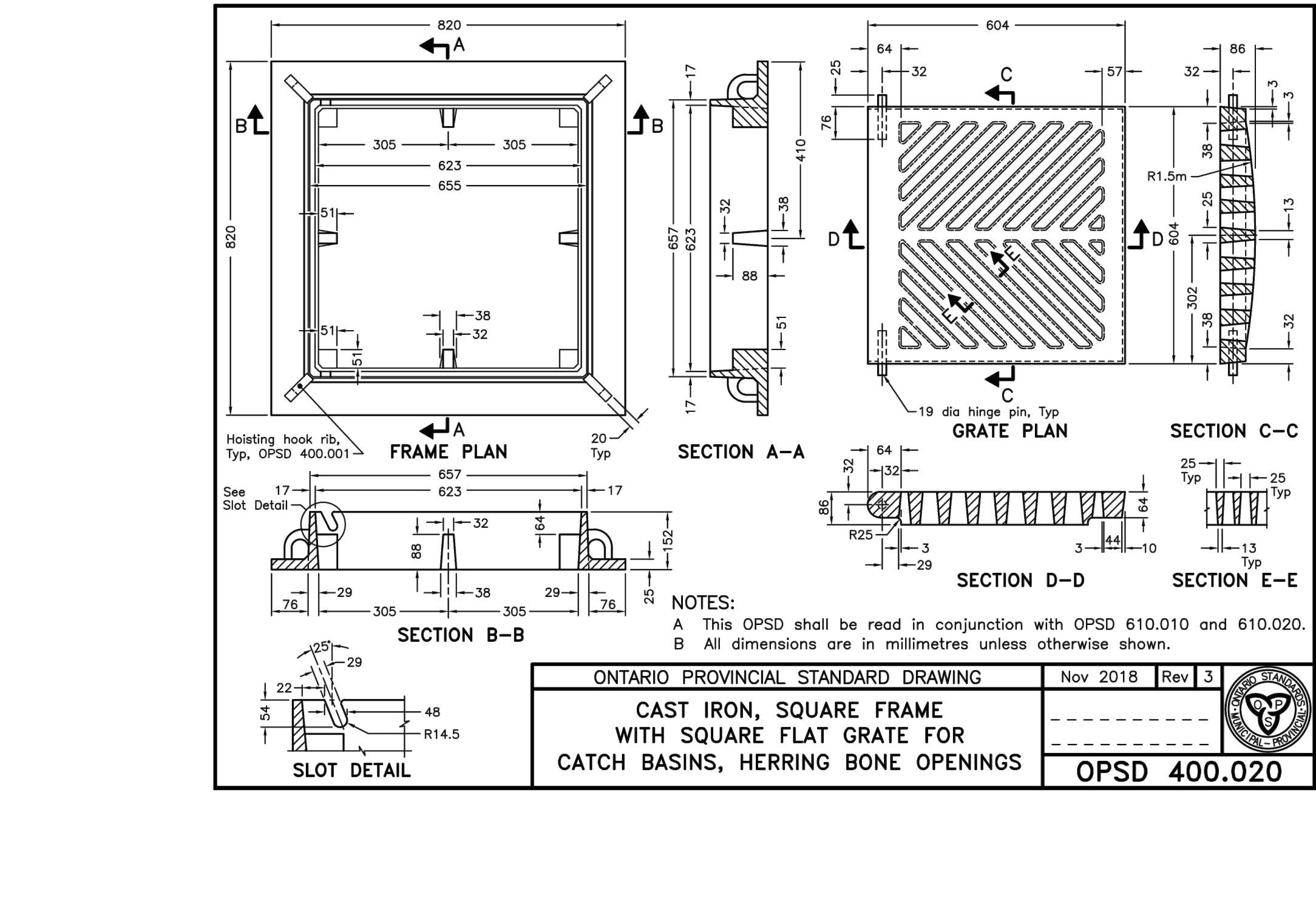




ONTARIO PROVINCIAL STANDARD DRAWING Nov 2018 Rev 1

CAST IRON, SQUARE FRAME WITH SQUARE FLAT GRATE FOR CATCH BASINS, HERRING BONE OPENINGS

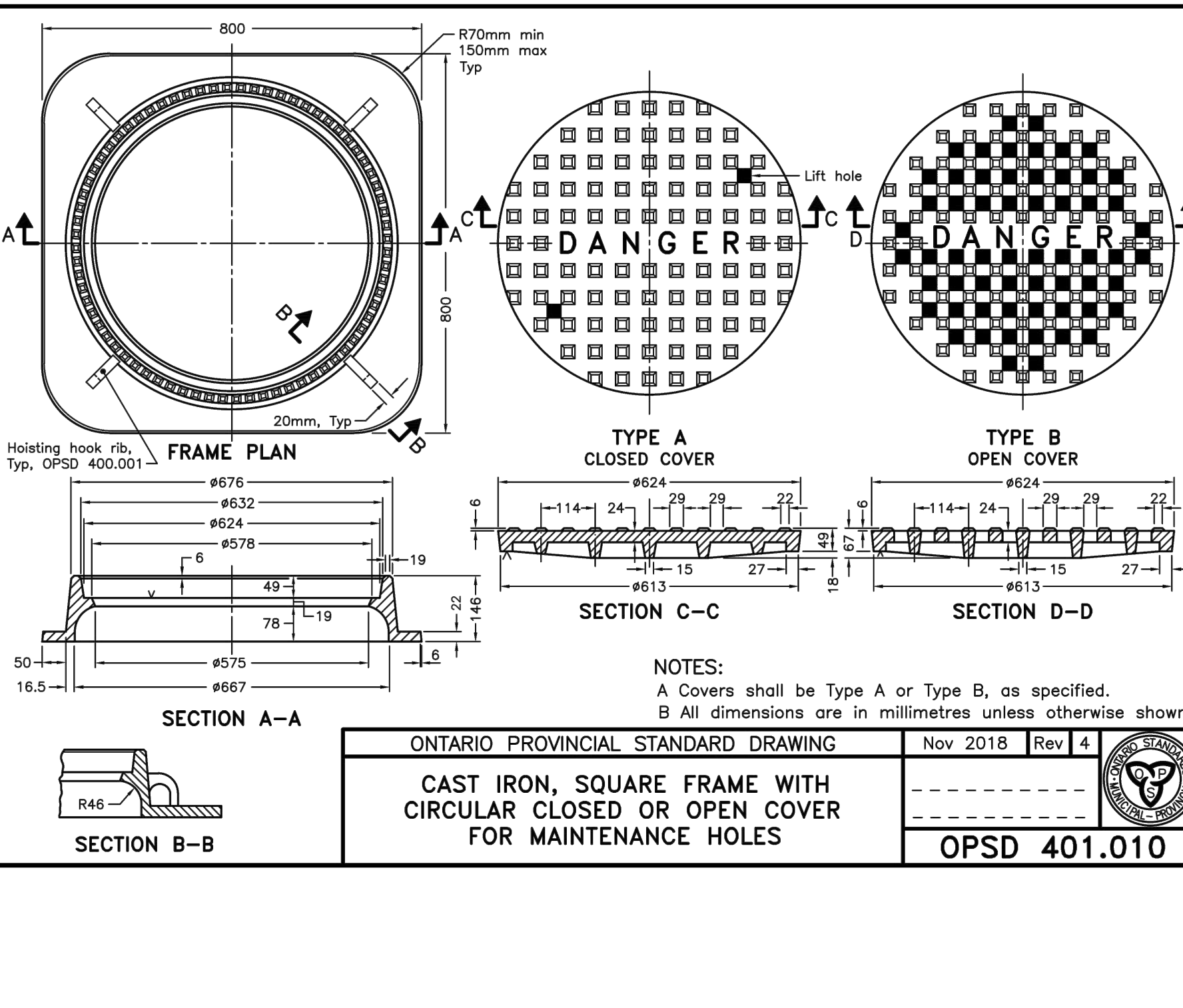
OPSD 400.020



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2018 Rev 1

CAST IRON, SQUARE FRAME WITH CIRCULAR CLOSED OR OPEN COVER FOR MAINTENANCE HOLES

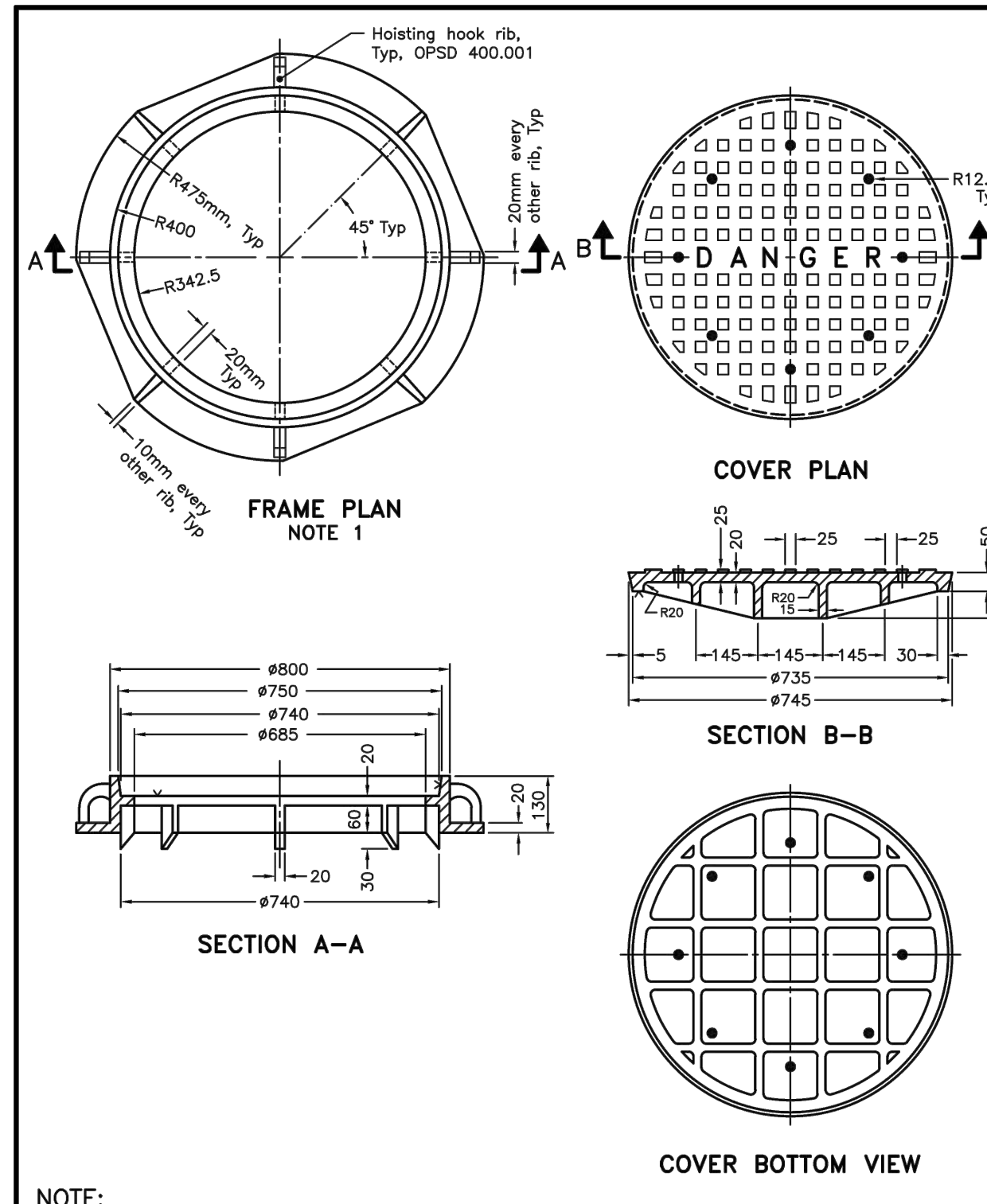
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ONTARIO PROVINCIAL STANDARD DRAWING Nov 2018 Rev 1

CAST IRON, CIRCULAR FRAME WITH CIRCULAR 745mm COVER FOR MAINTENANCE HOLES

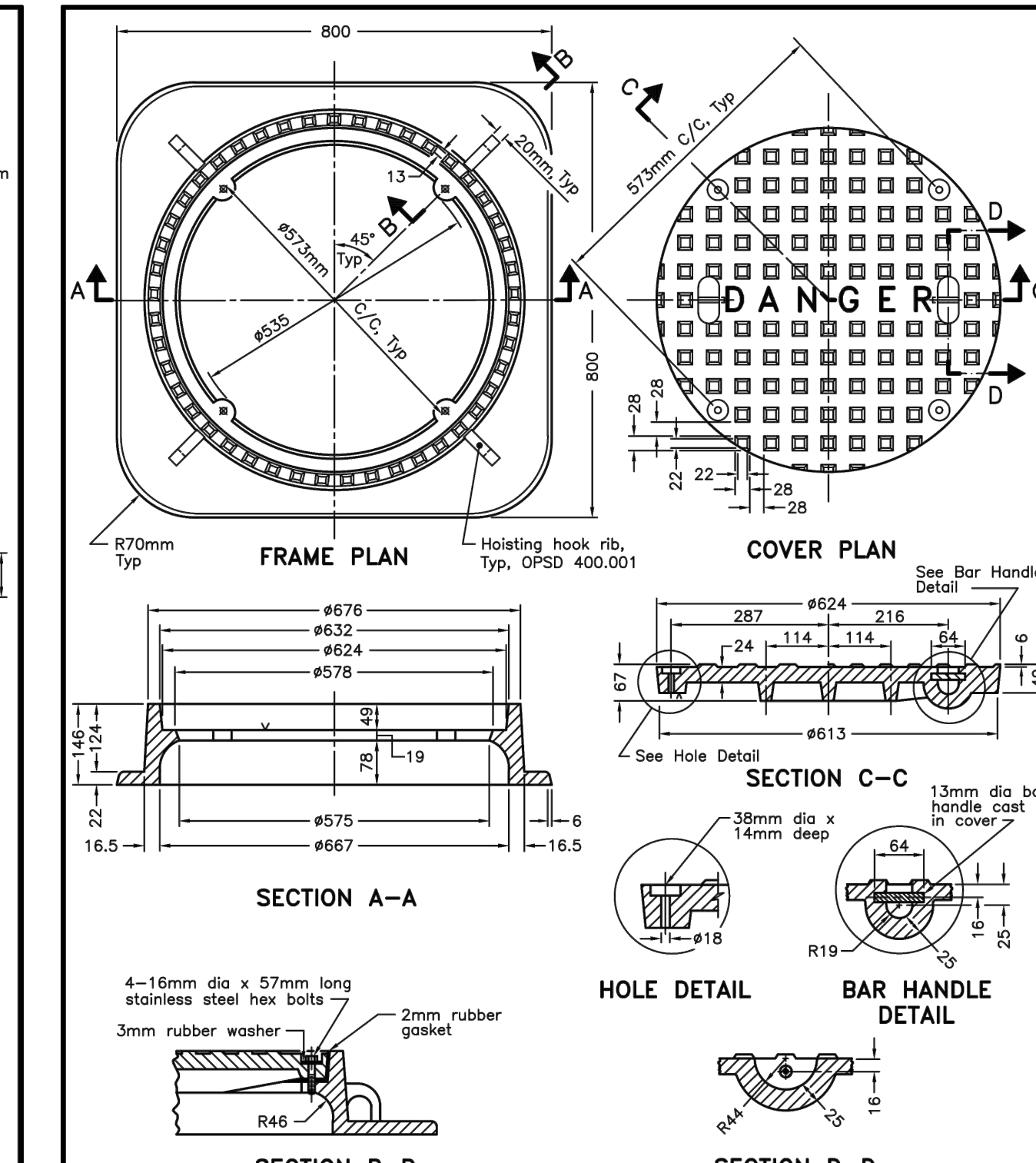
OPSD 401.020



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2018 Rev 1

CAST IRON, SQUARE FRAME WITH CIRCULAR WATERPROOF COVER FOR MAINTENANCE HOLES

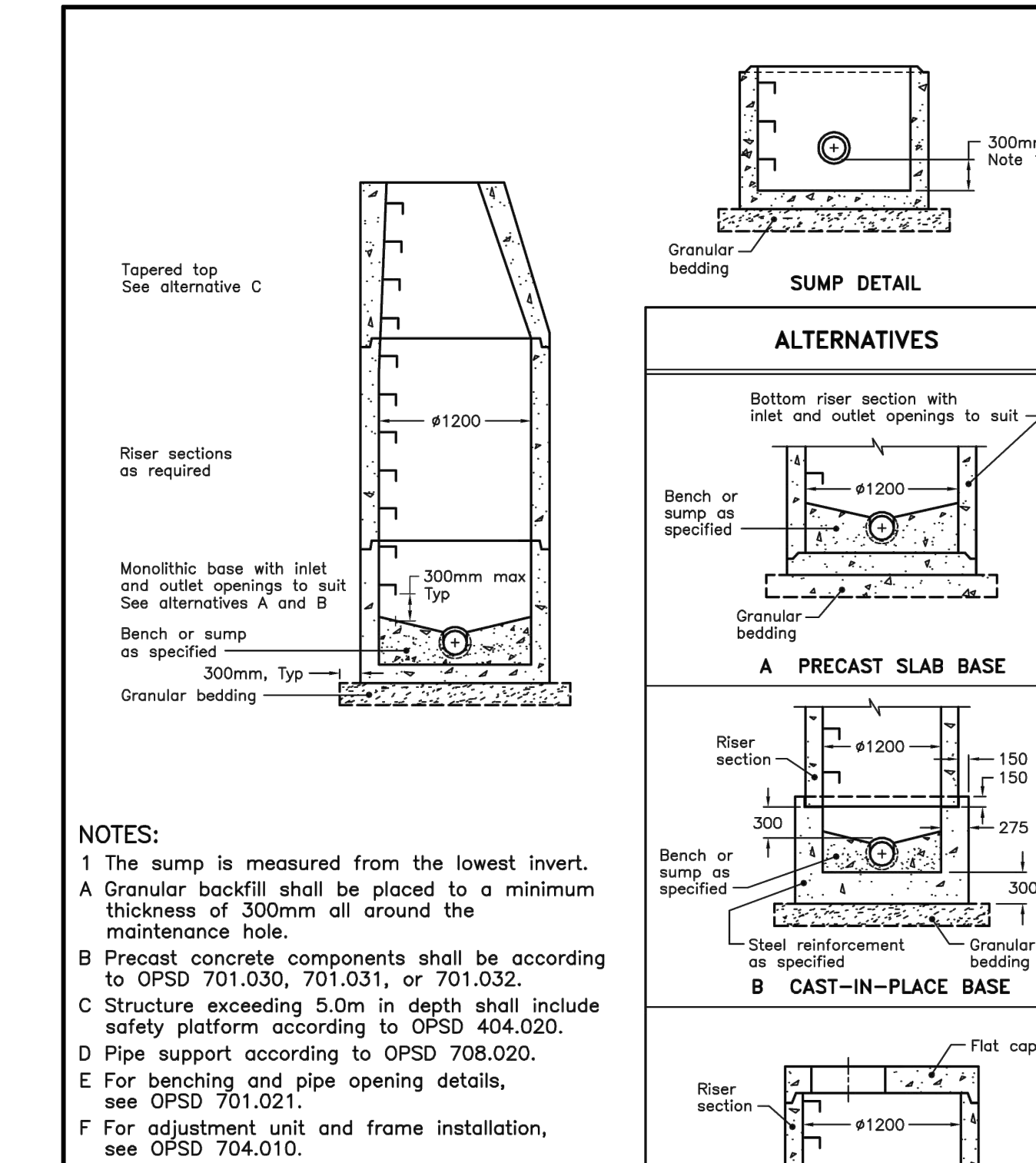
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ONTARIO PROVINCIAL STANDARD DRAWING Nov 2018 Rev 1

PRECAST CONCRETE MAINTENANCE HOLE 1200mm DIAMETER

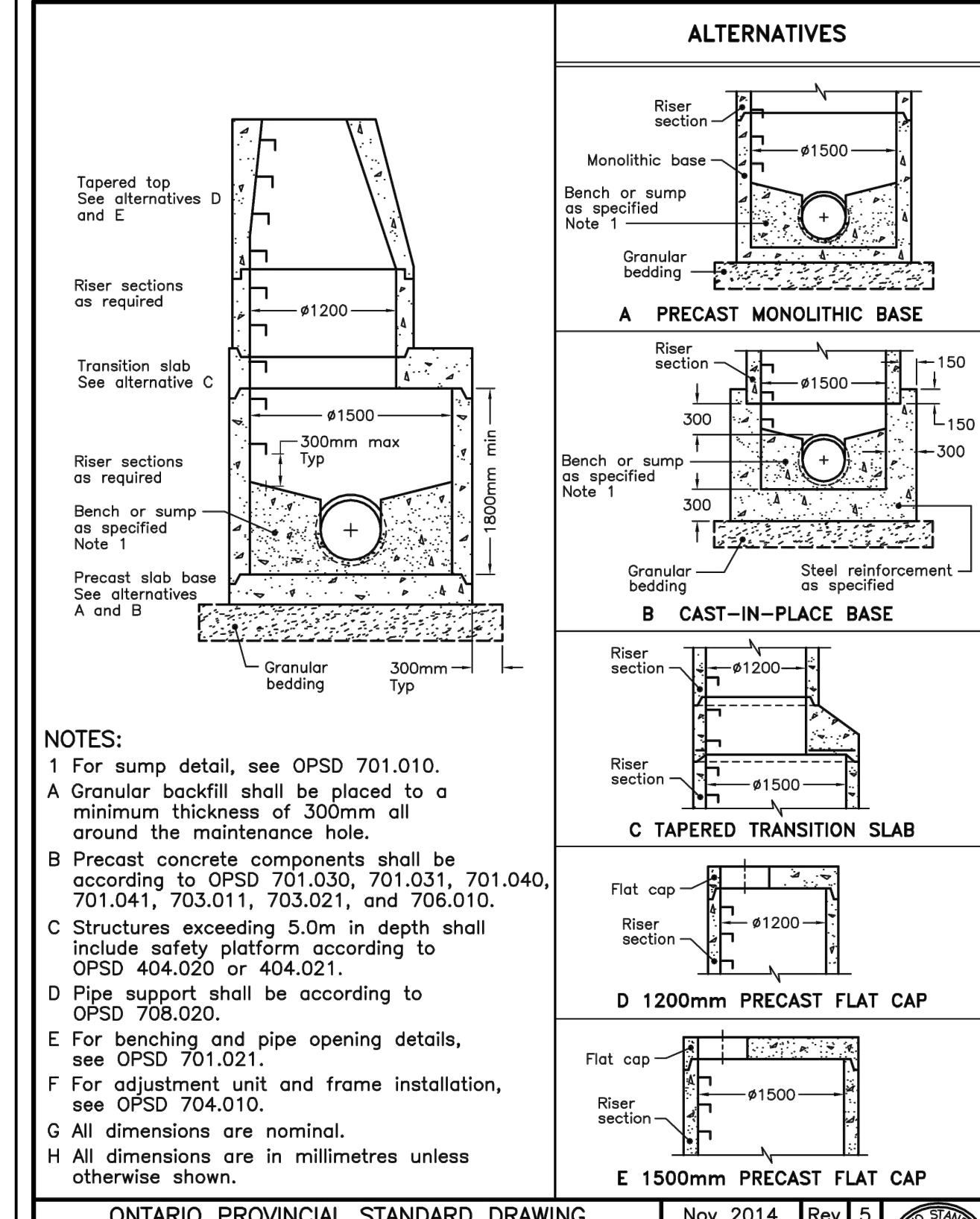
OPSD 701.010



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 1

PRECAST CONCRETE MAINTENANCE HOLE 1500mm DIAMETER

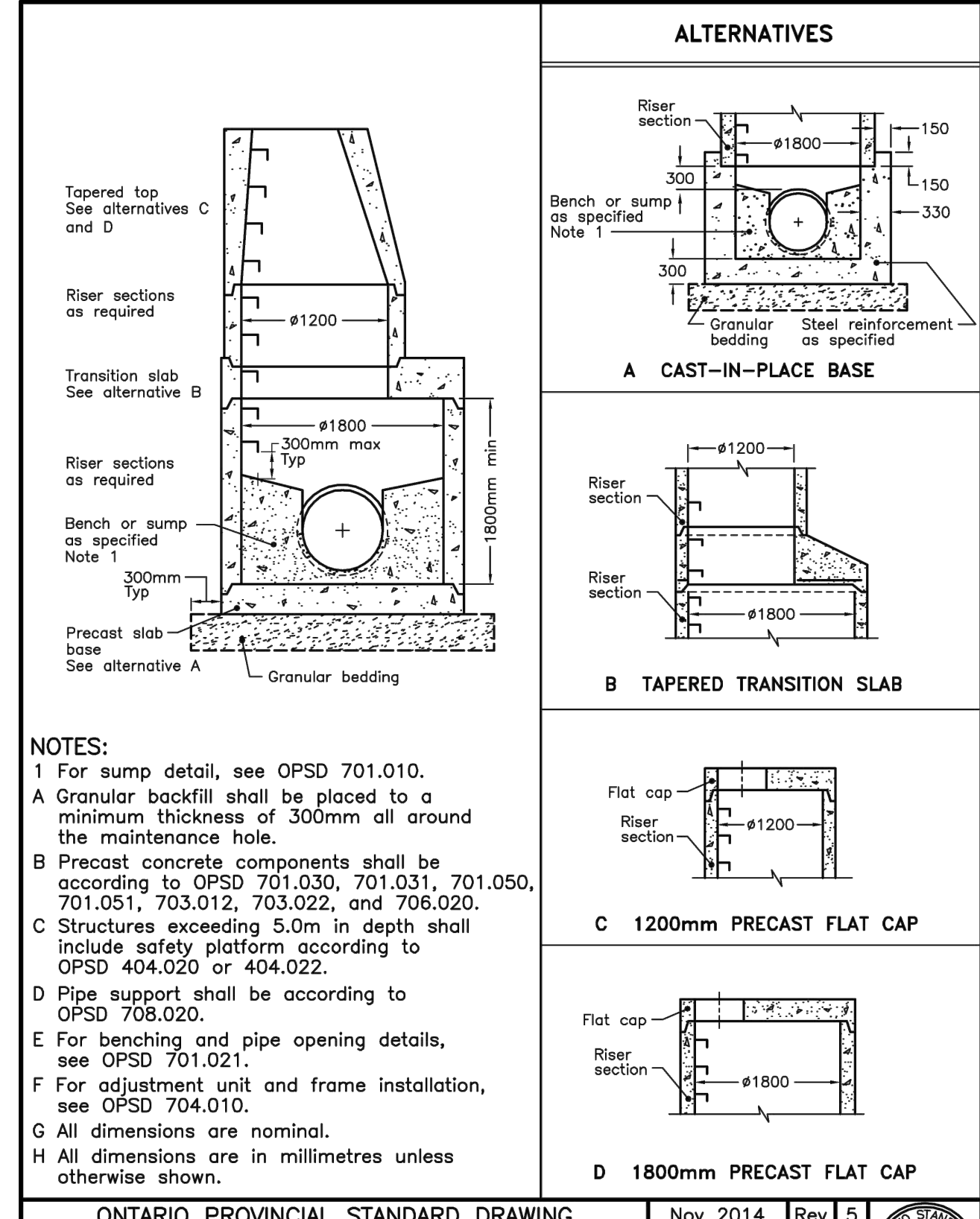
OPSD 701.011



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 1

PRECAST CONCRETE MAINTENANCE HOLE 1800mm DIAMETER

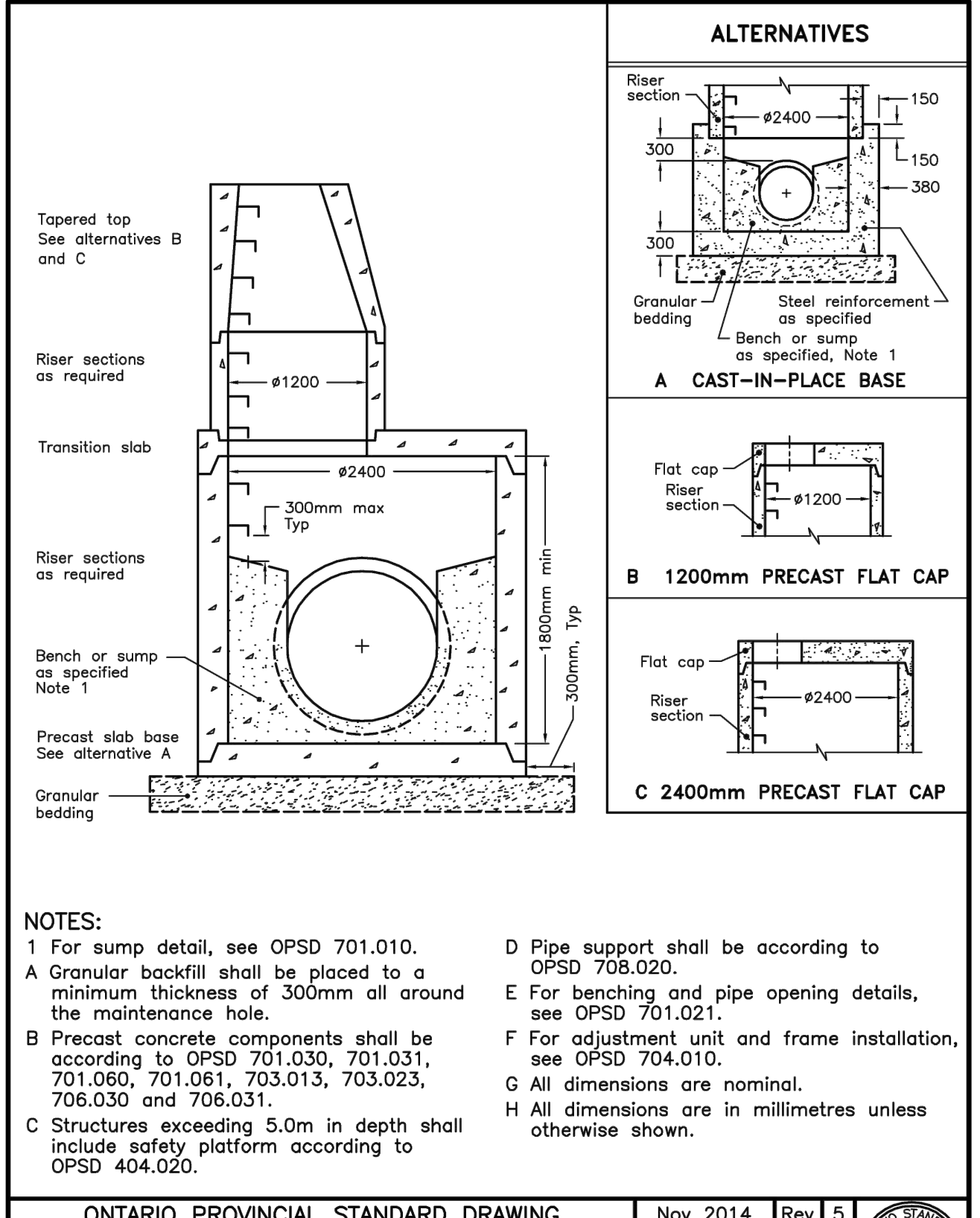
OPSD 701.012



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 1

PRECAST CONCRETE MAINTENANCE HOLE 2400mm DIAMETER

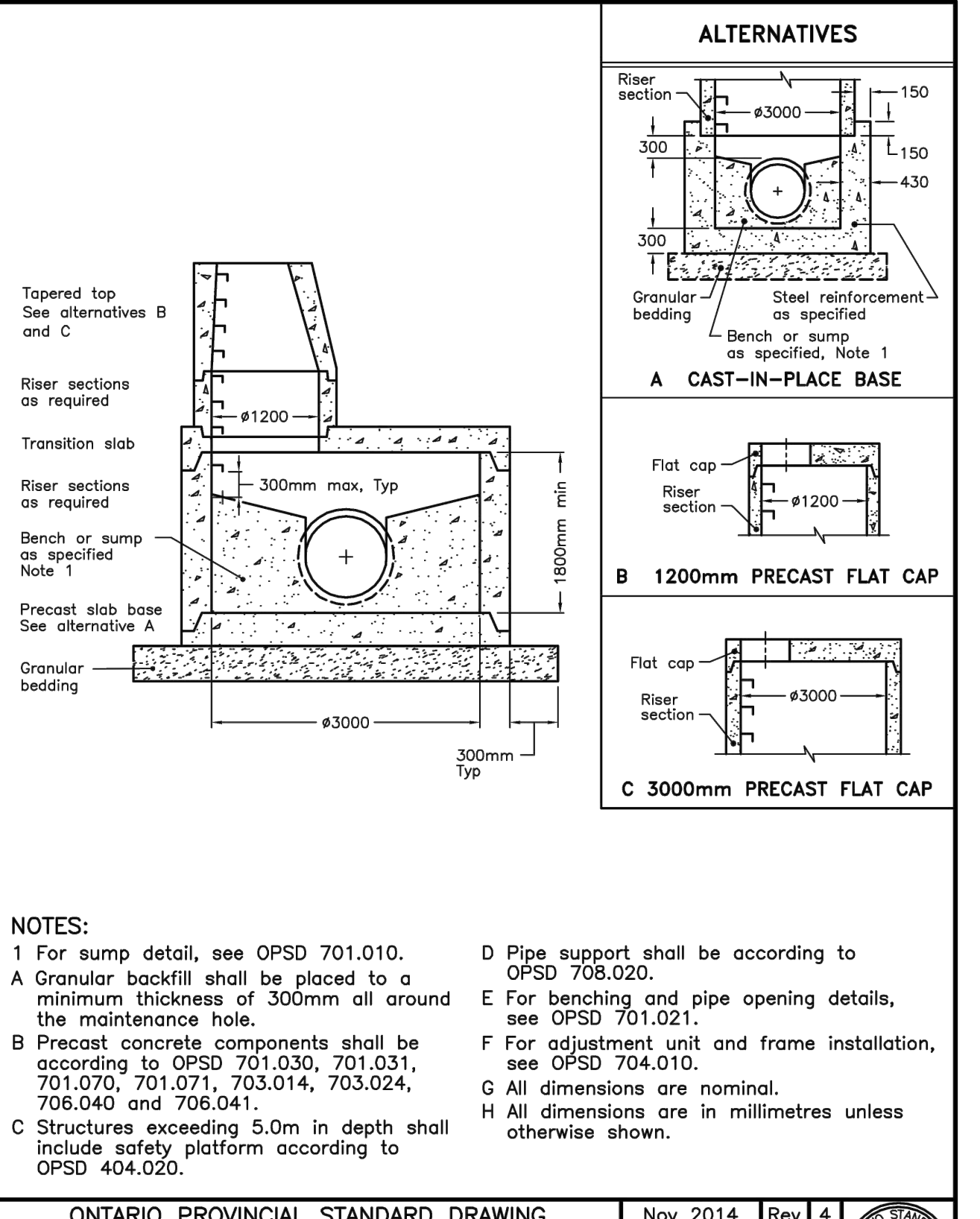
OPSD 701.013



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 1

PRECAST CONCRETE MAINTENANCE HOLE 3000mm DIAMETER

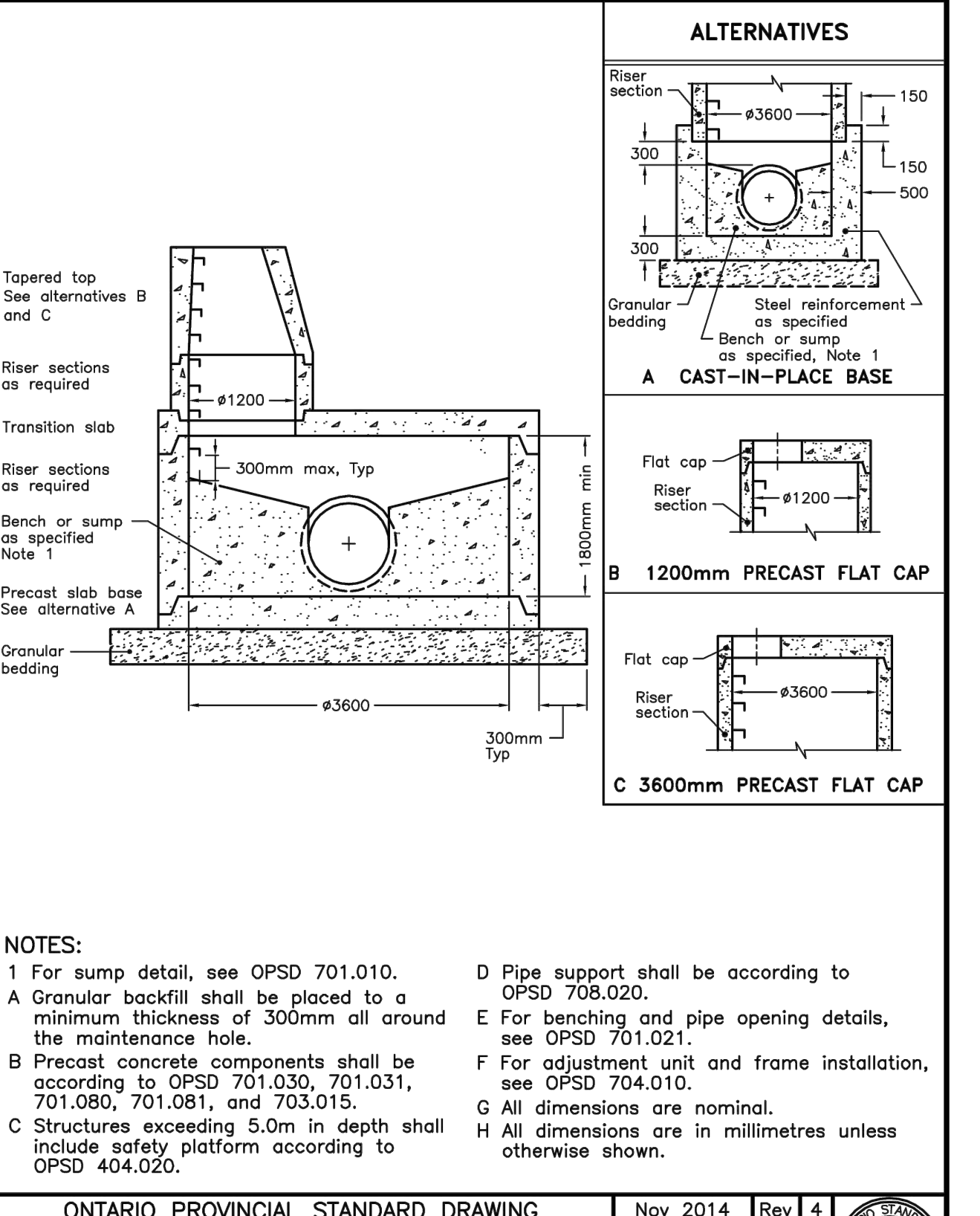
OPSD 701.014



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 1

PRECAST CONCRETE MAINTENANCE HOLE 3600mm DIAMETER

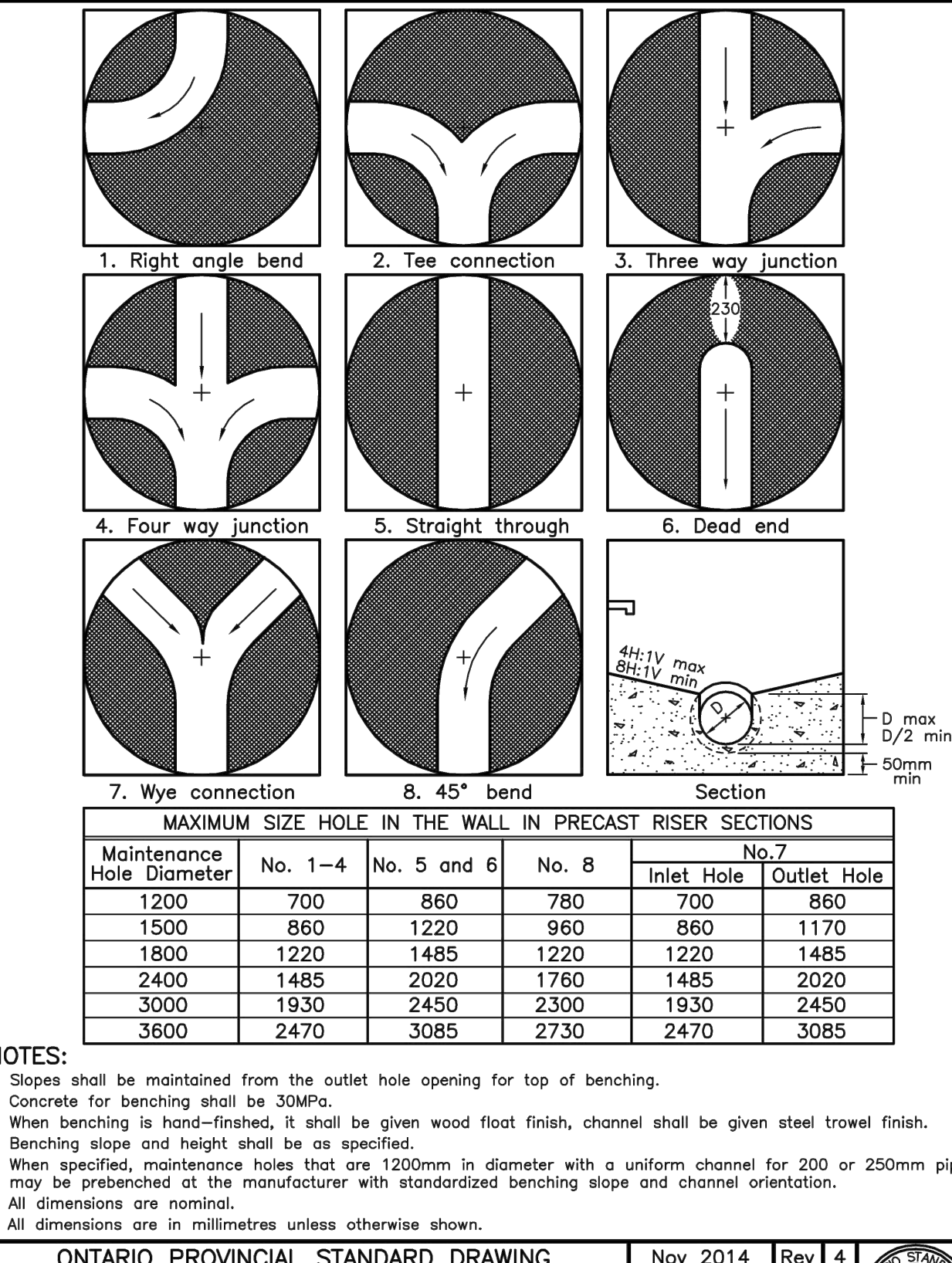
OPSD 701.015



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 1

MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES

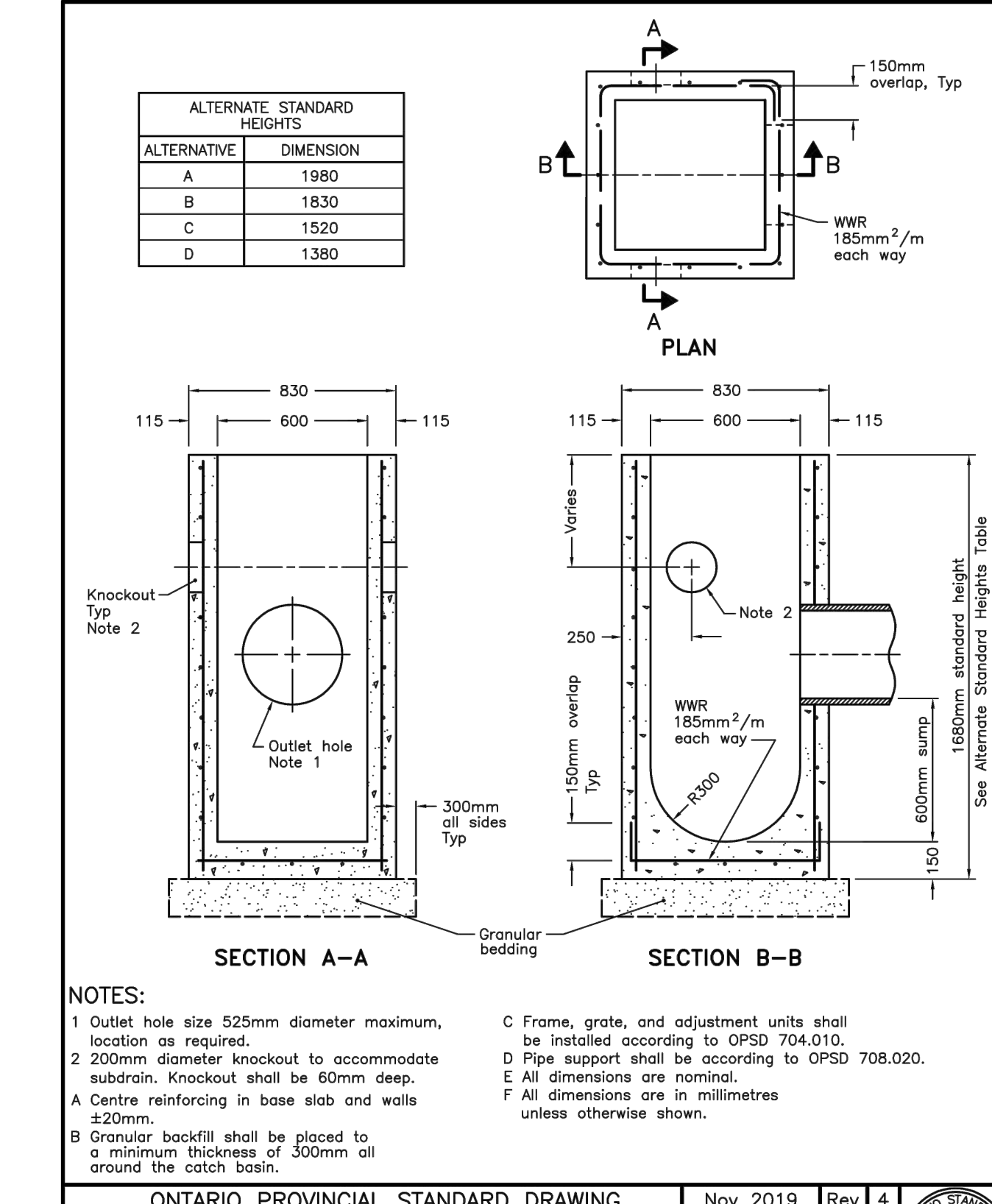
OPSD 701.021



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2019 Rev 1

PRECAST CONCRETE CATCH BASIN 600x600mm

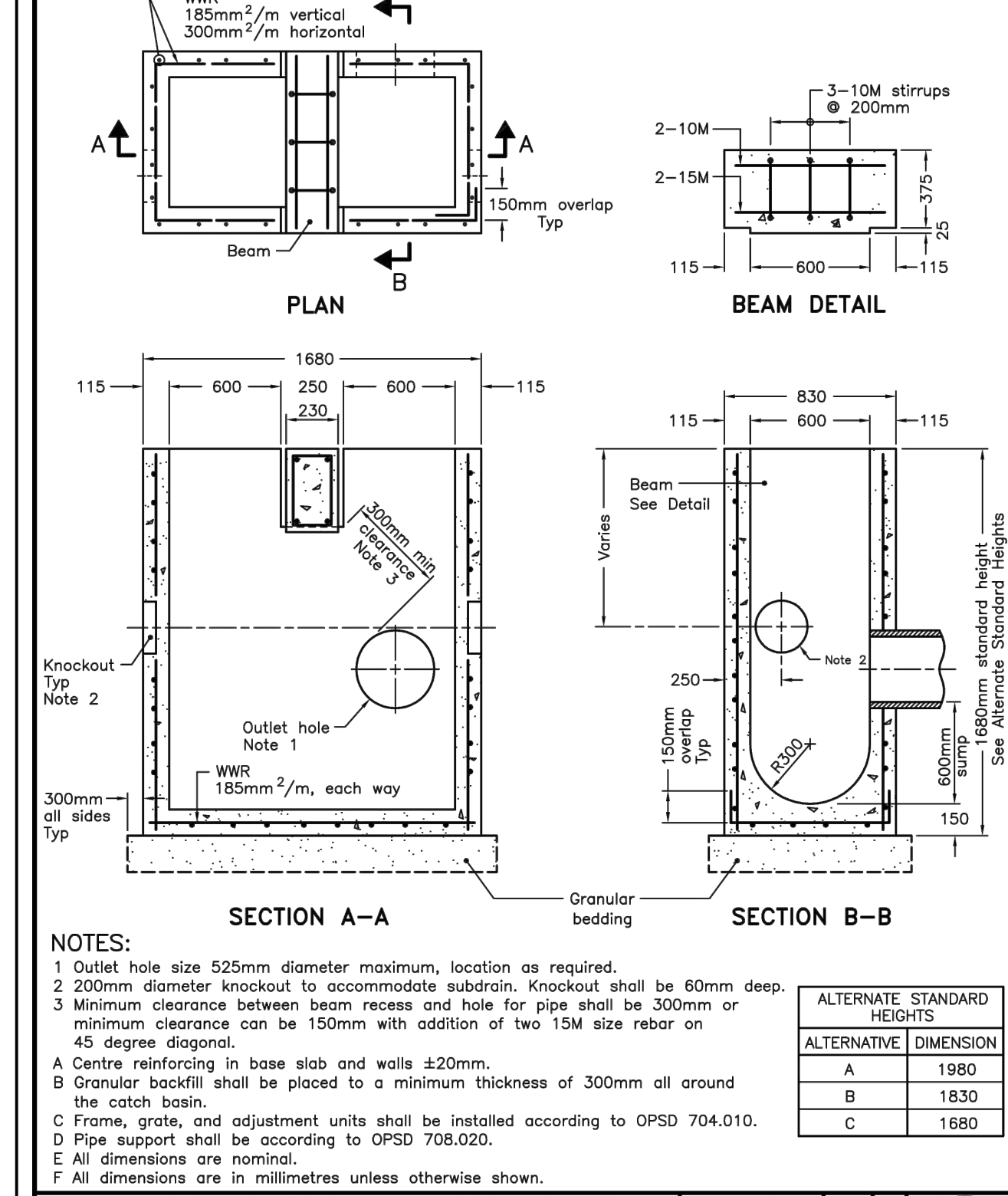
OPSD 705.010



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2019 Rev 1

PRECAST CONCRETE TWIN INLET CATCH BASIN 600 x 1450mm

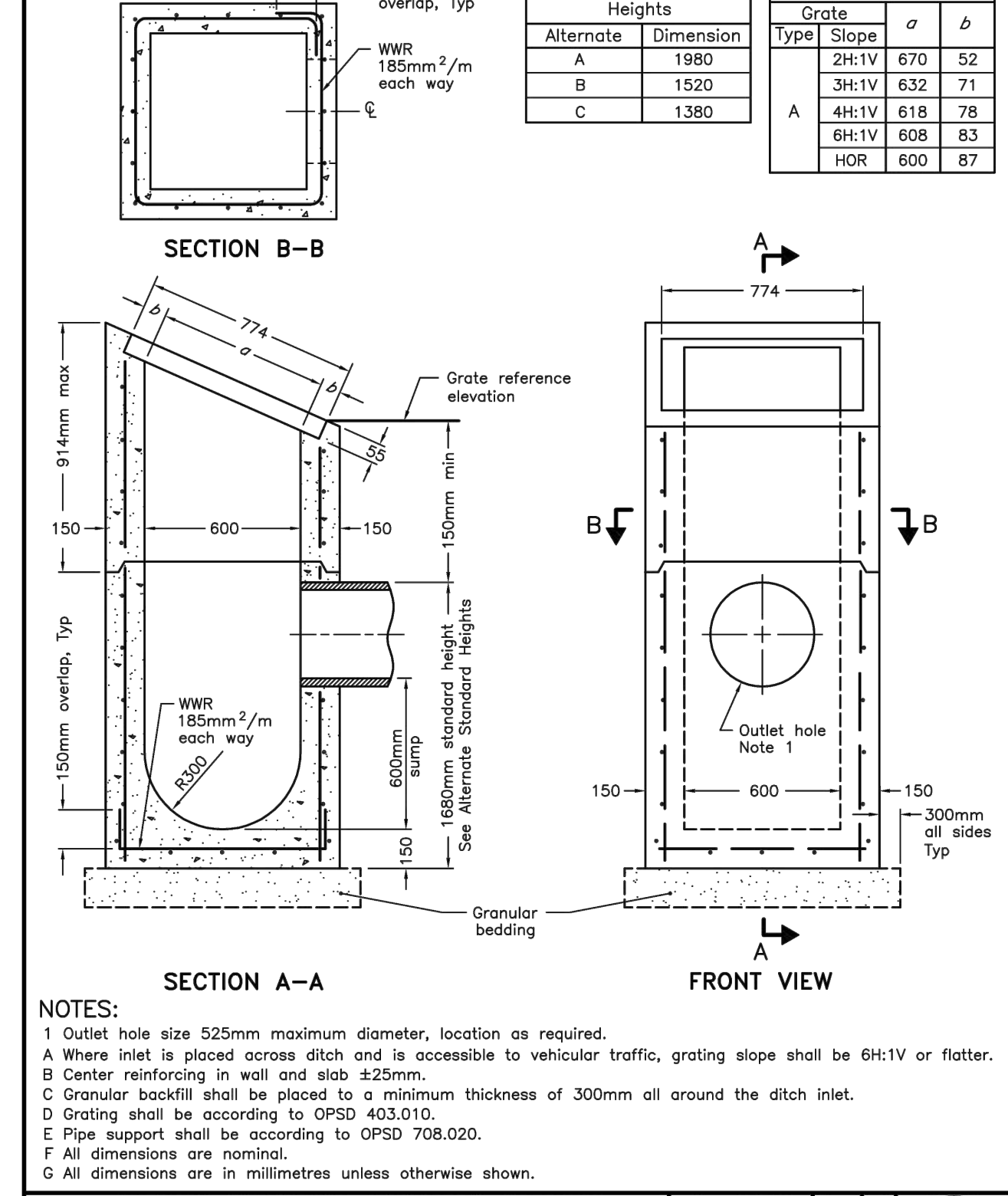
OPSD 705.020



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2019 Rev 1

PRECAST CONCRETE DITCH INLET 600 x 600mm

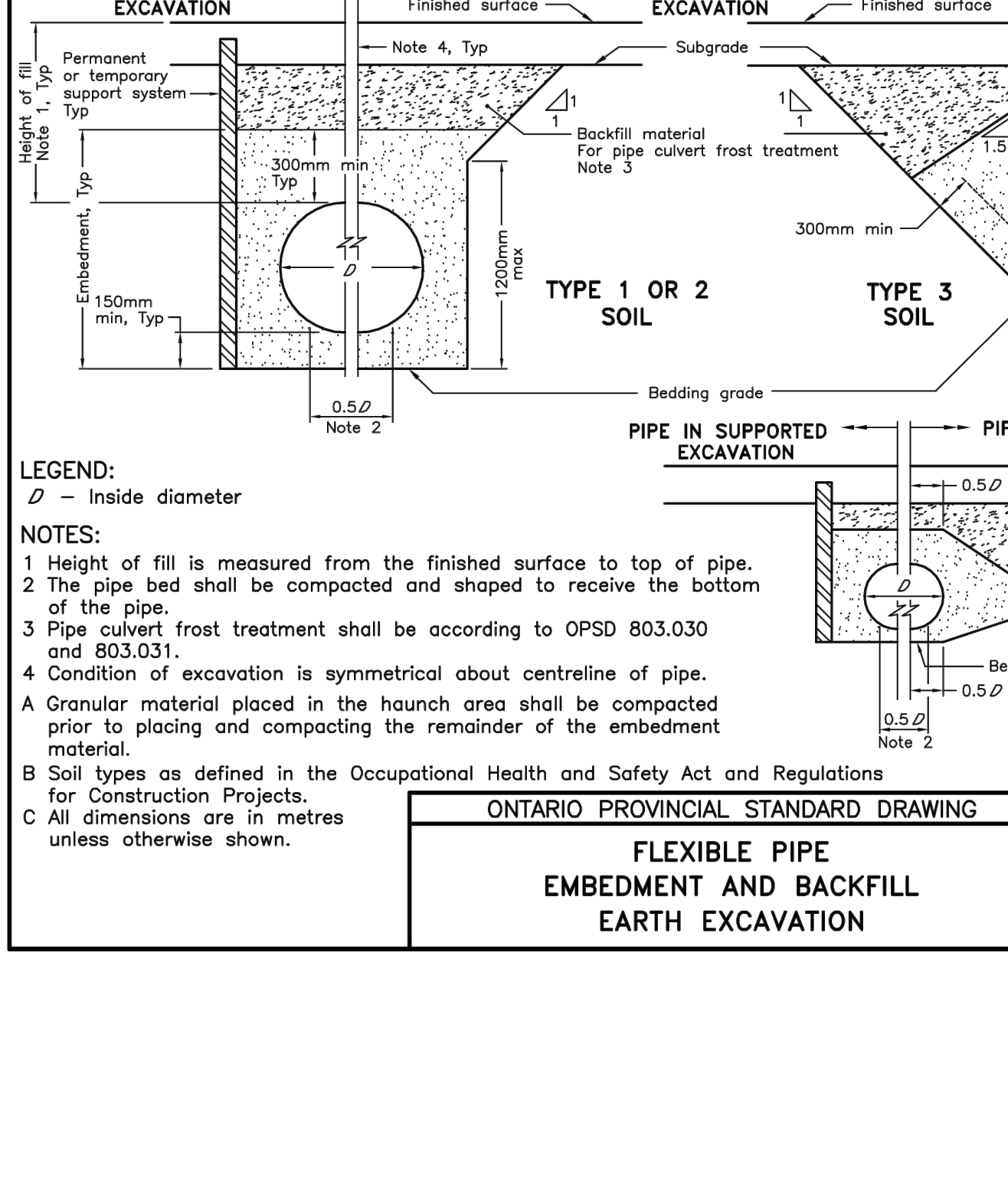
OPSD 705.030



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2019 Rev 1

INSTALLATION OF CATCH BASIN WITH MONOLITHIC SIDEWALK AND CURB, BARRIER, AND DEPRESSED CURB

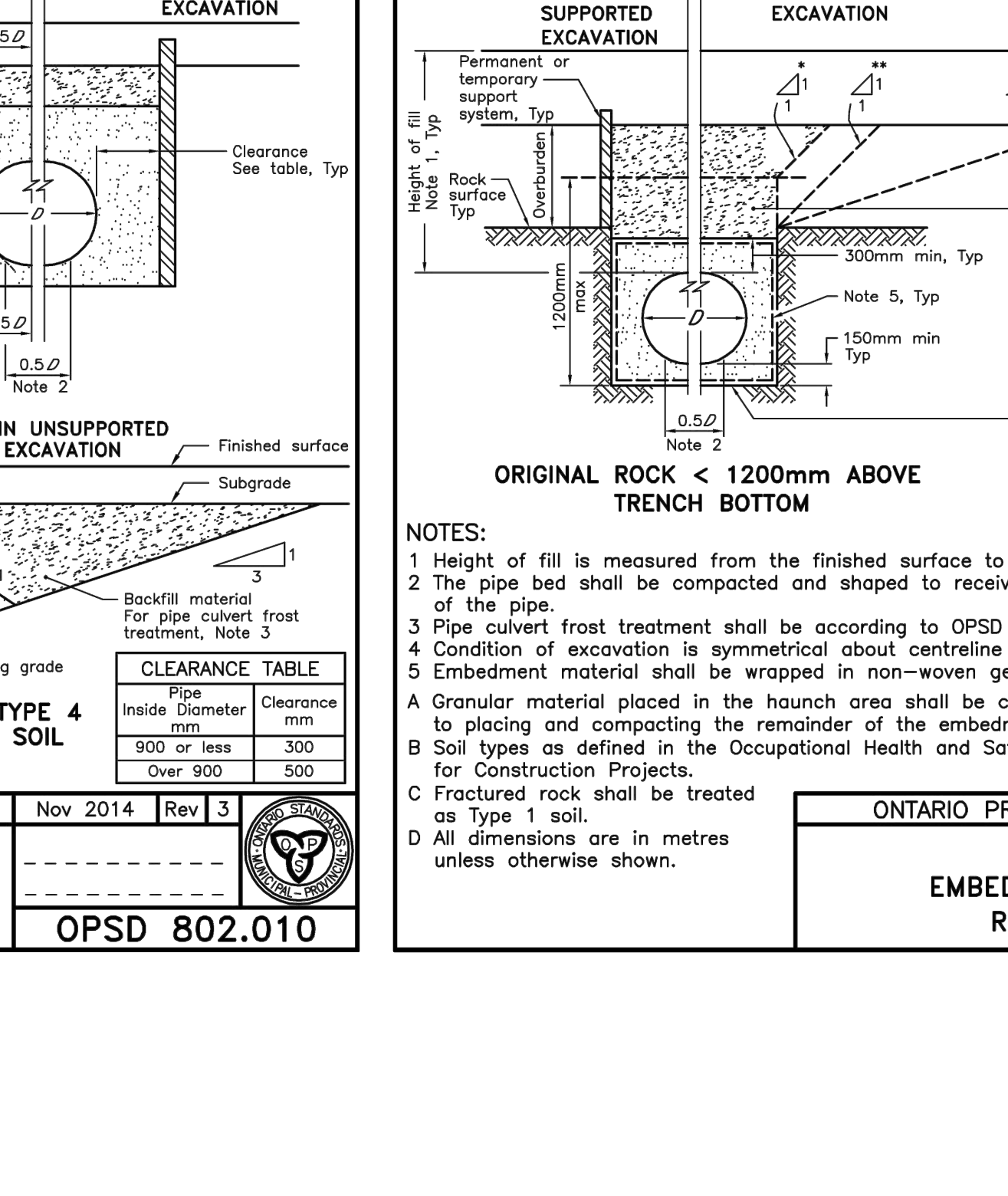
OPSD 802.010



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 1

PIPE IN SUPPORTED EXCAVATION

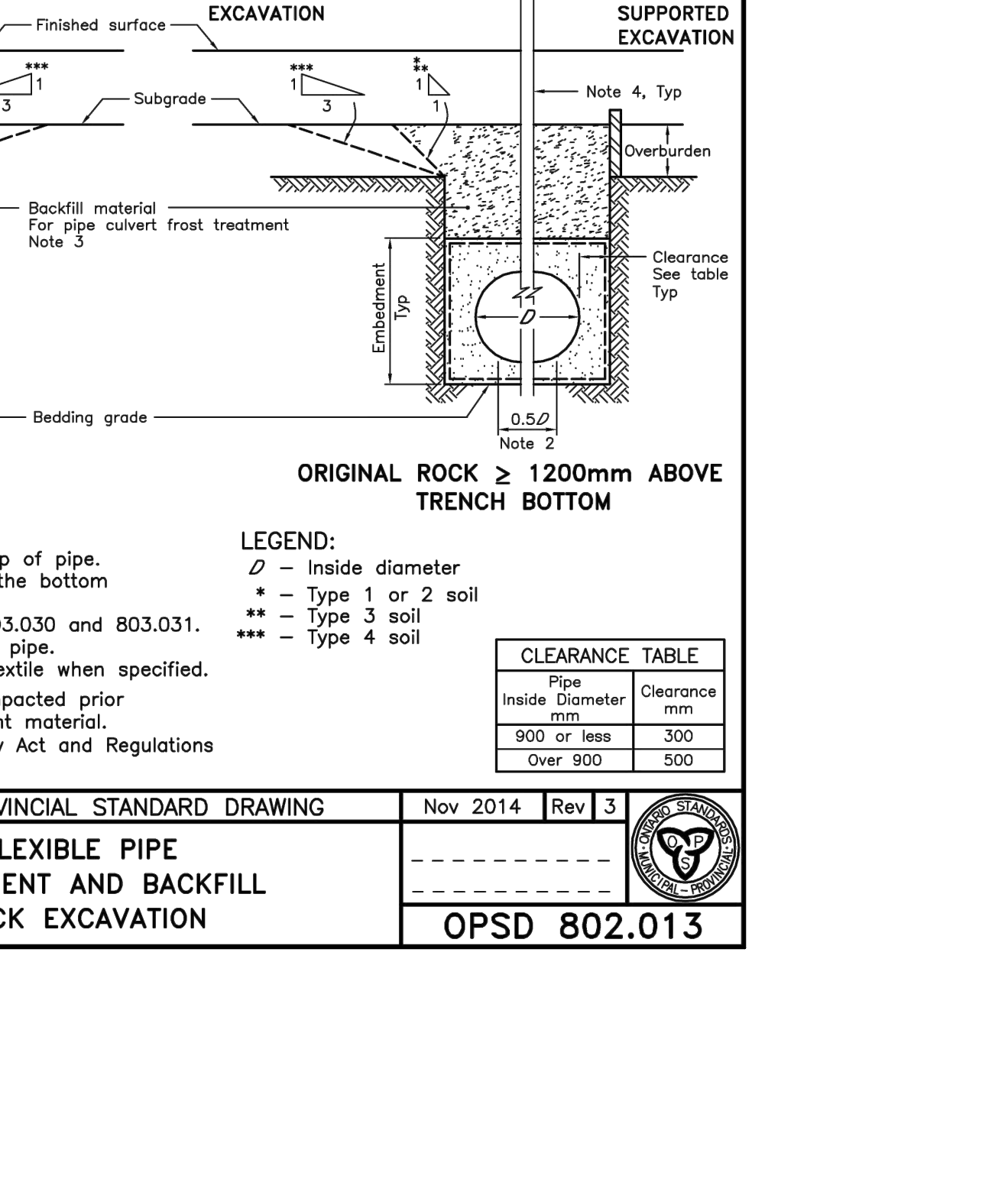
OPSD 802.013



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2016 Rev 1

CAST-IN-PLACE MAINTENANCE HOLE DROP STRUCTURE TEE

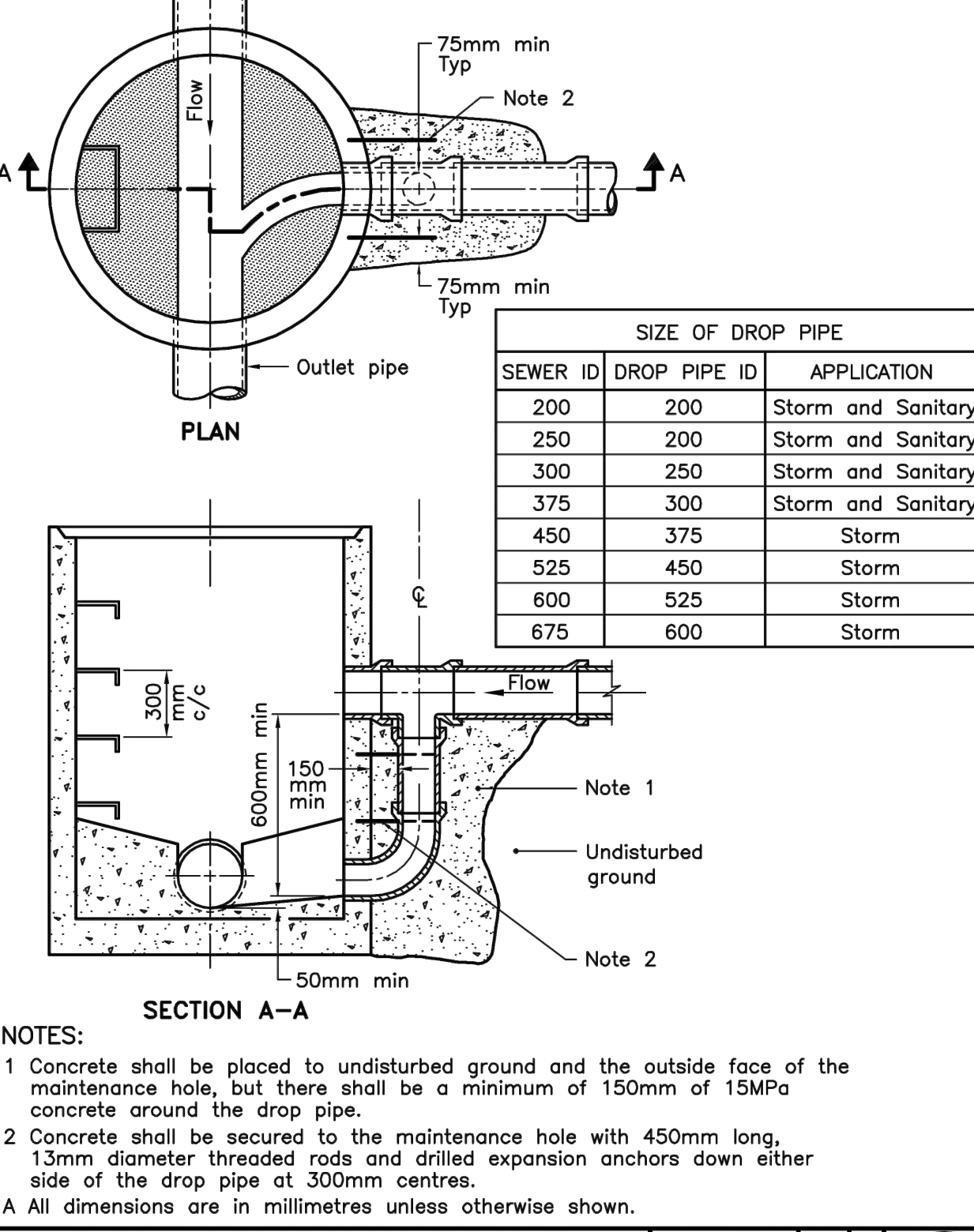
OPSD 1003.010



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2015 Rev 1

STANDARD TRENCH REINSTATEMENT IN PAVED SURFACE

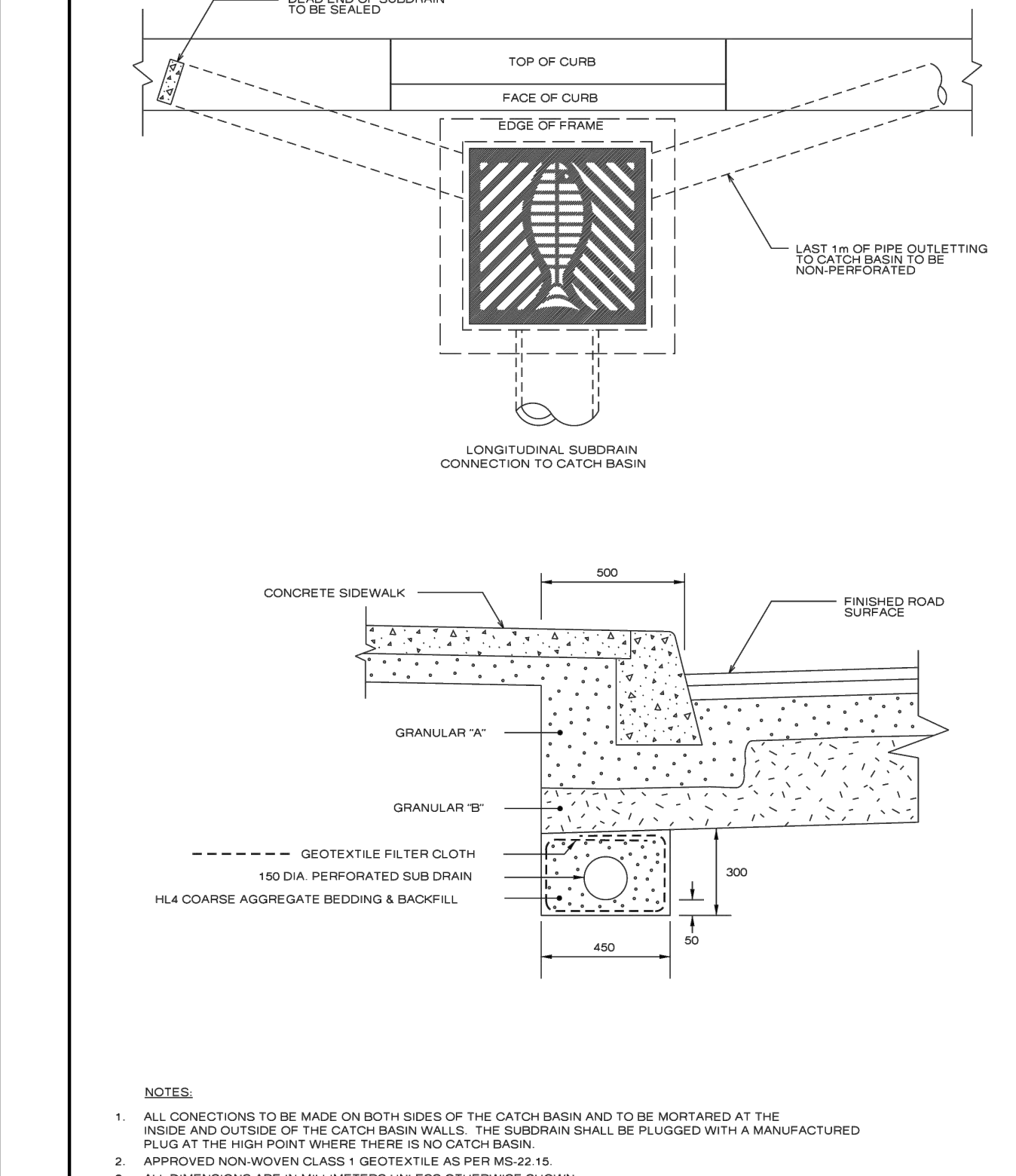
OPSD 219.110



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2015 Rev 1

INSTALLATION OF CATCH BASIN WITH CURB AND GUTTER

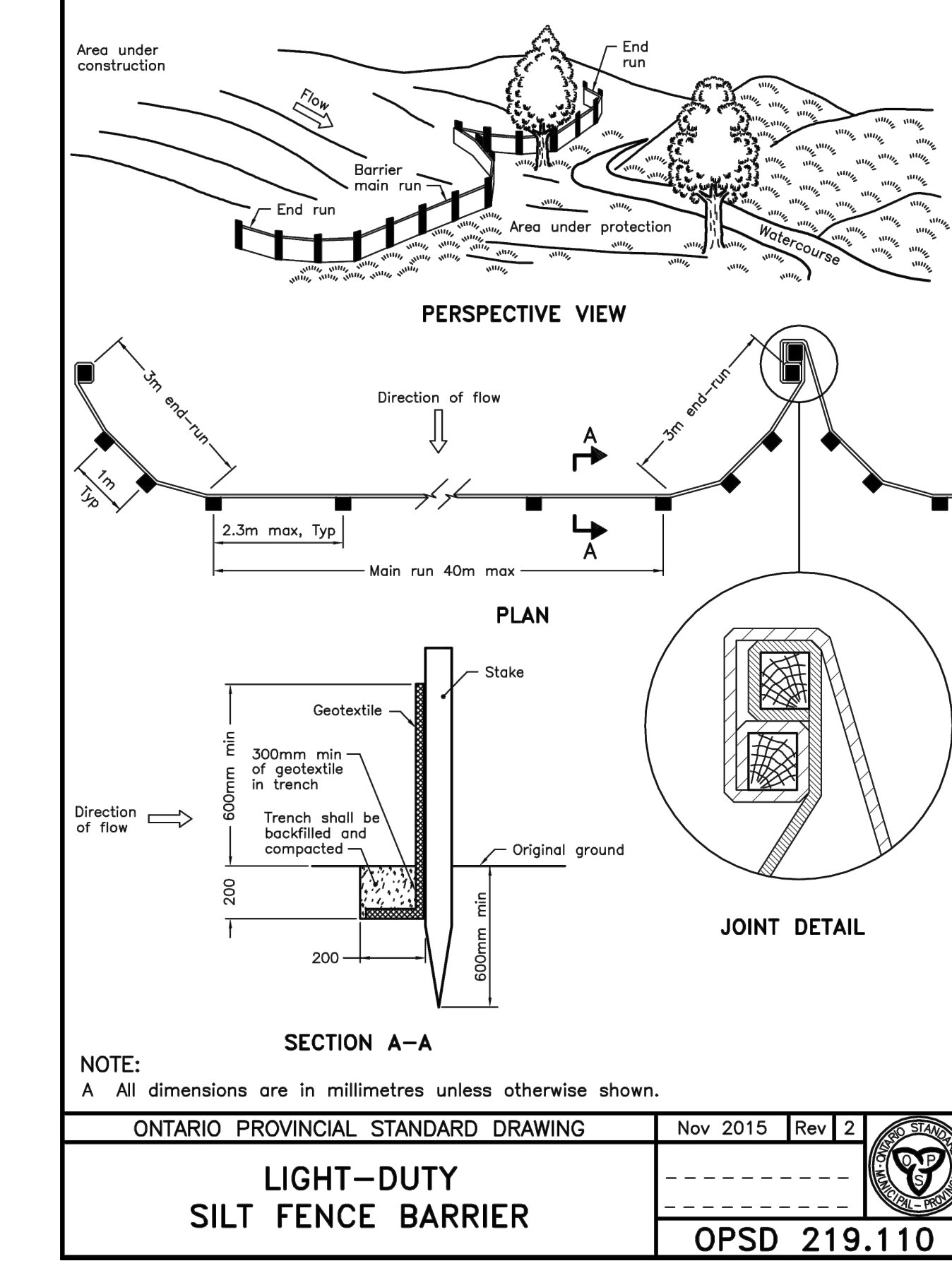
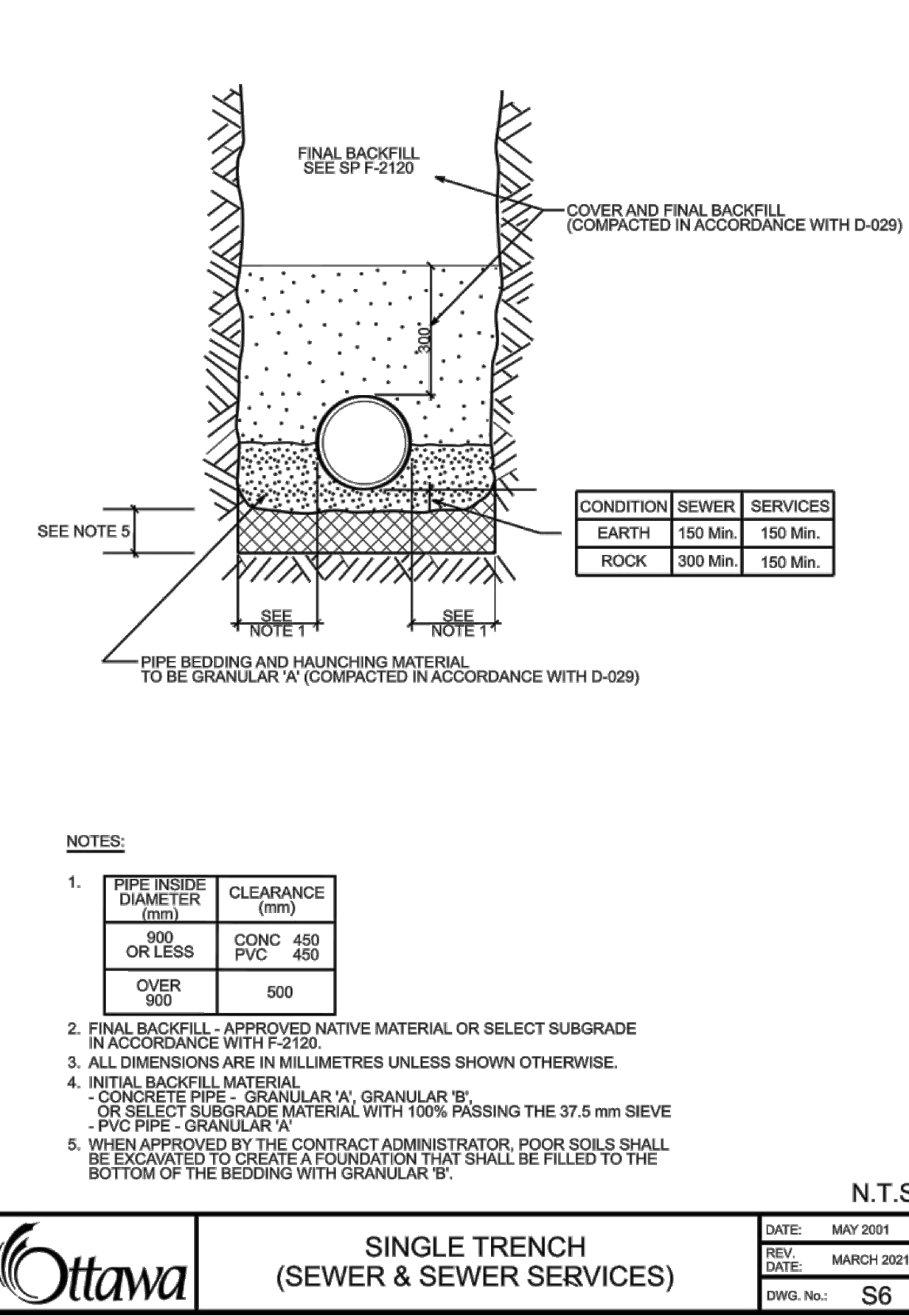
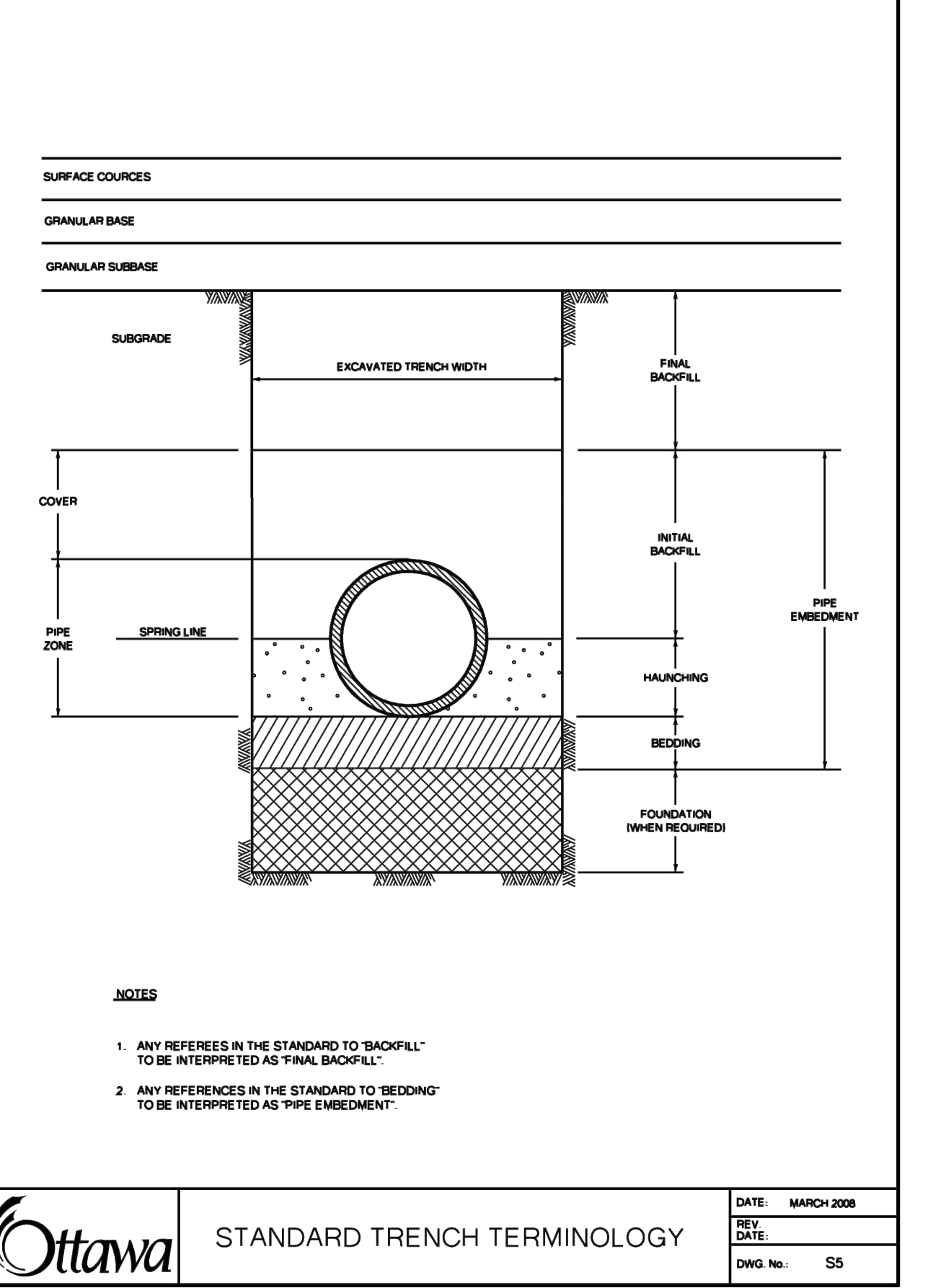
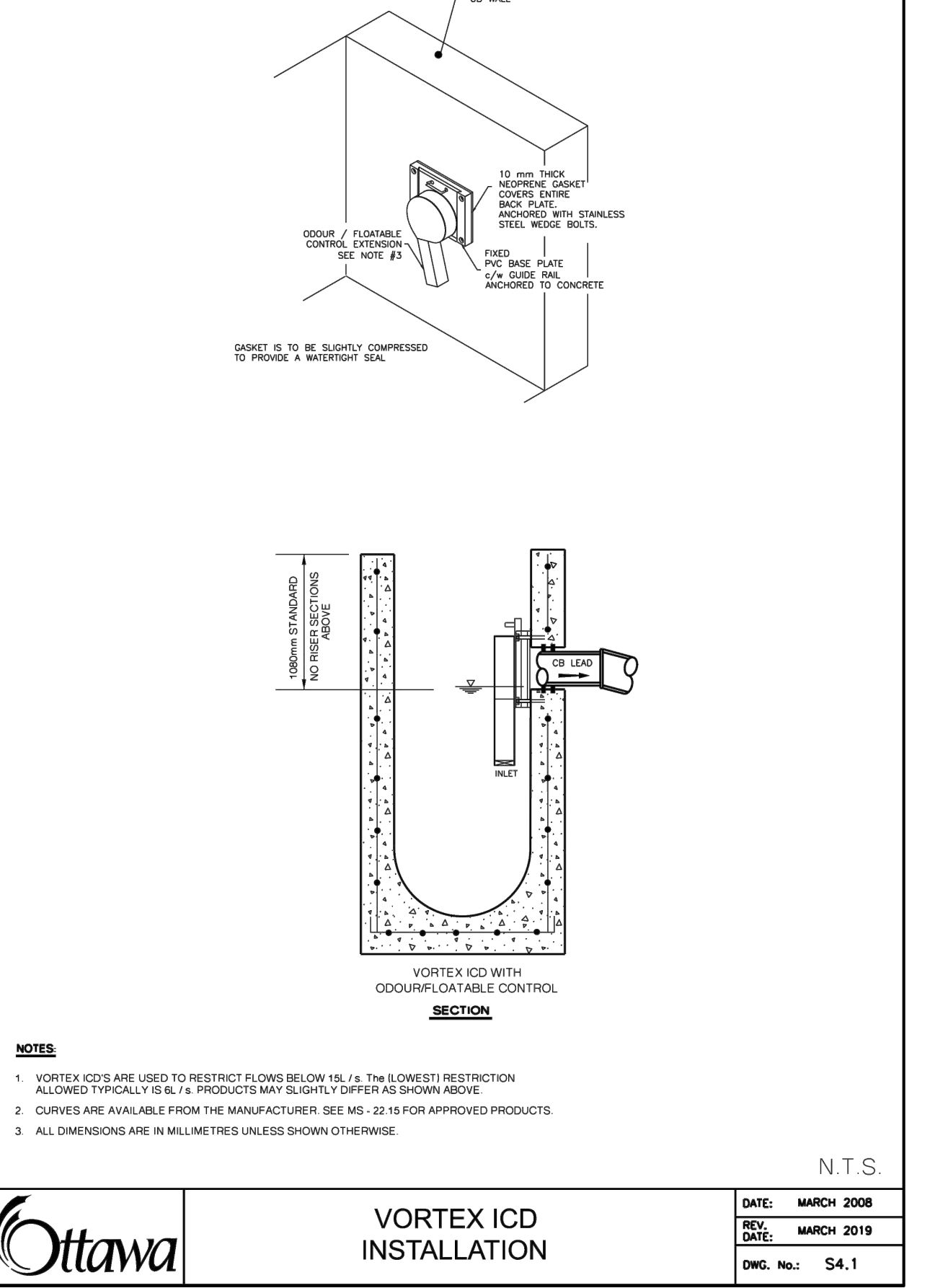
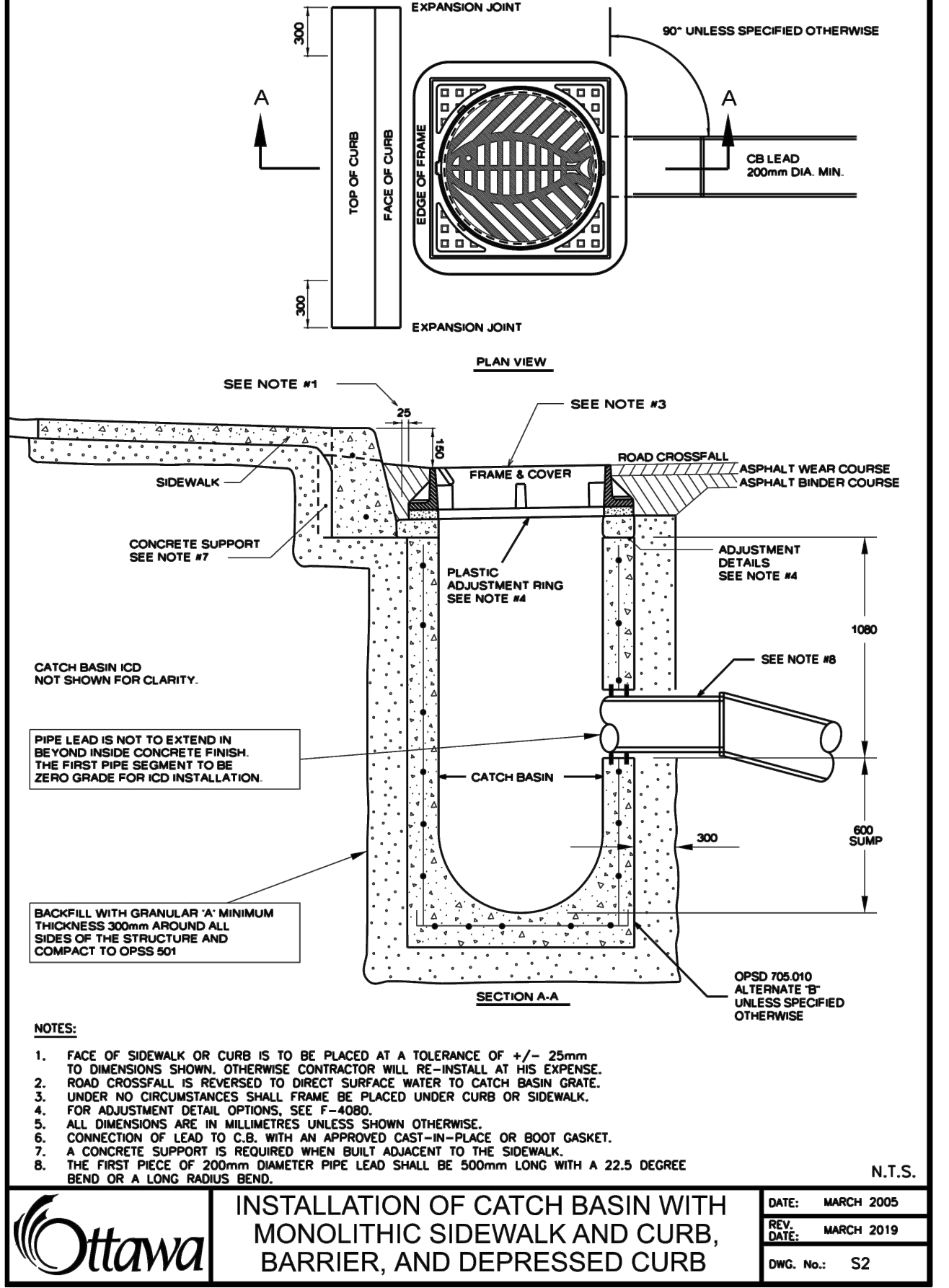
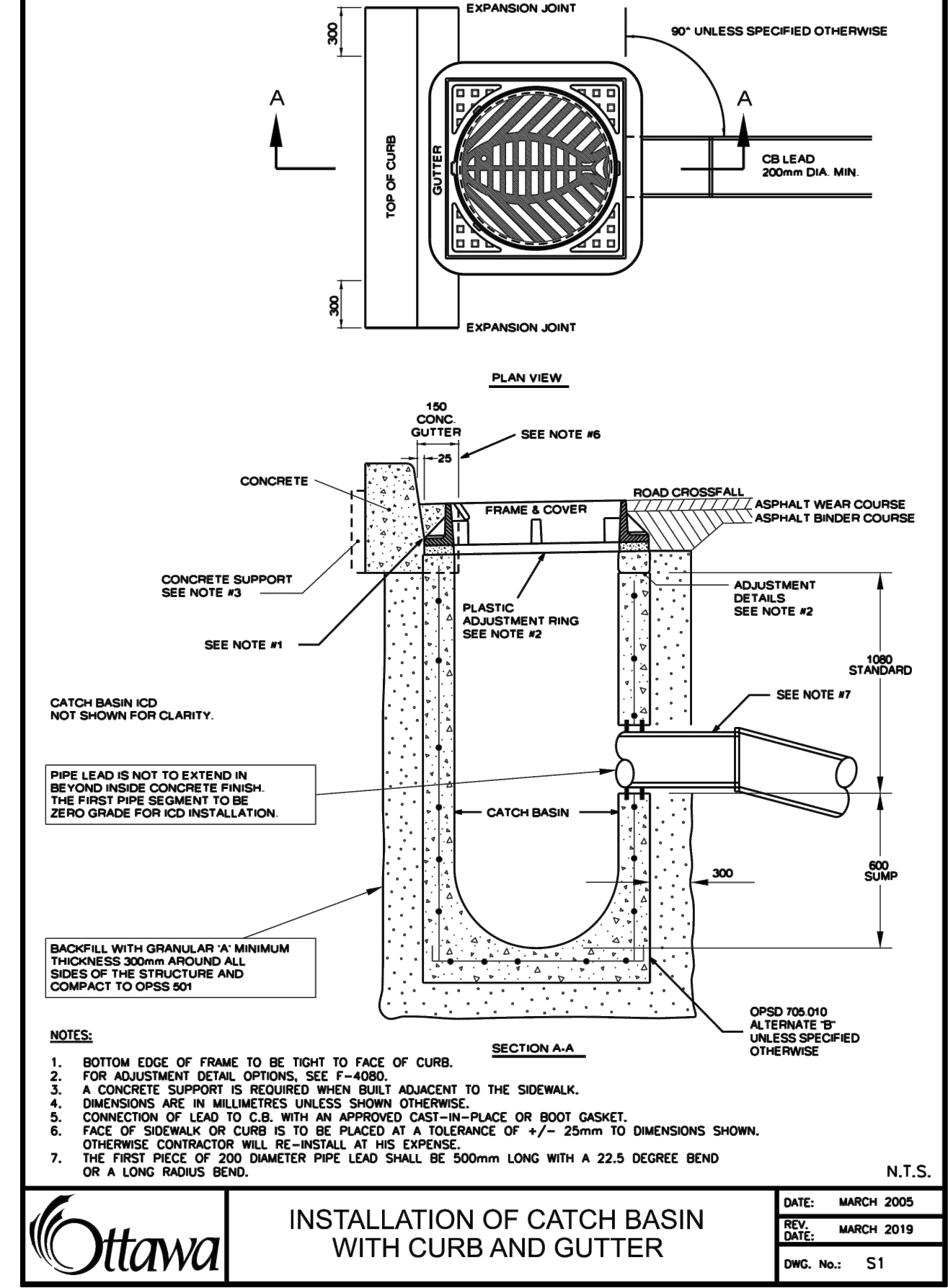
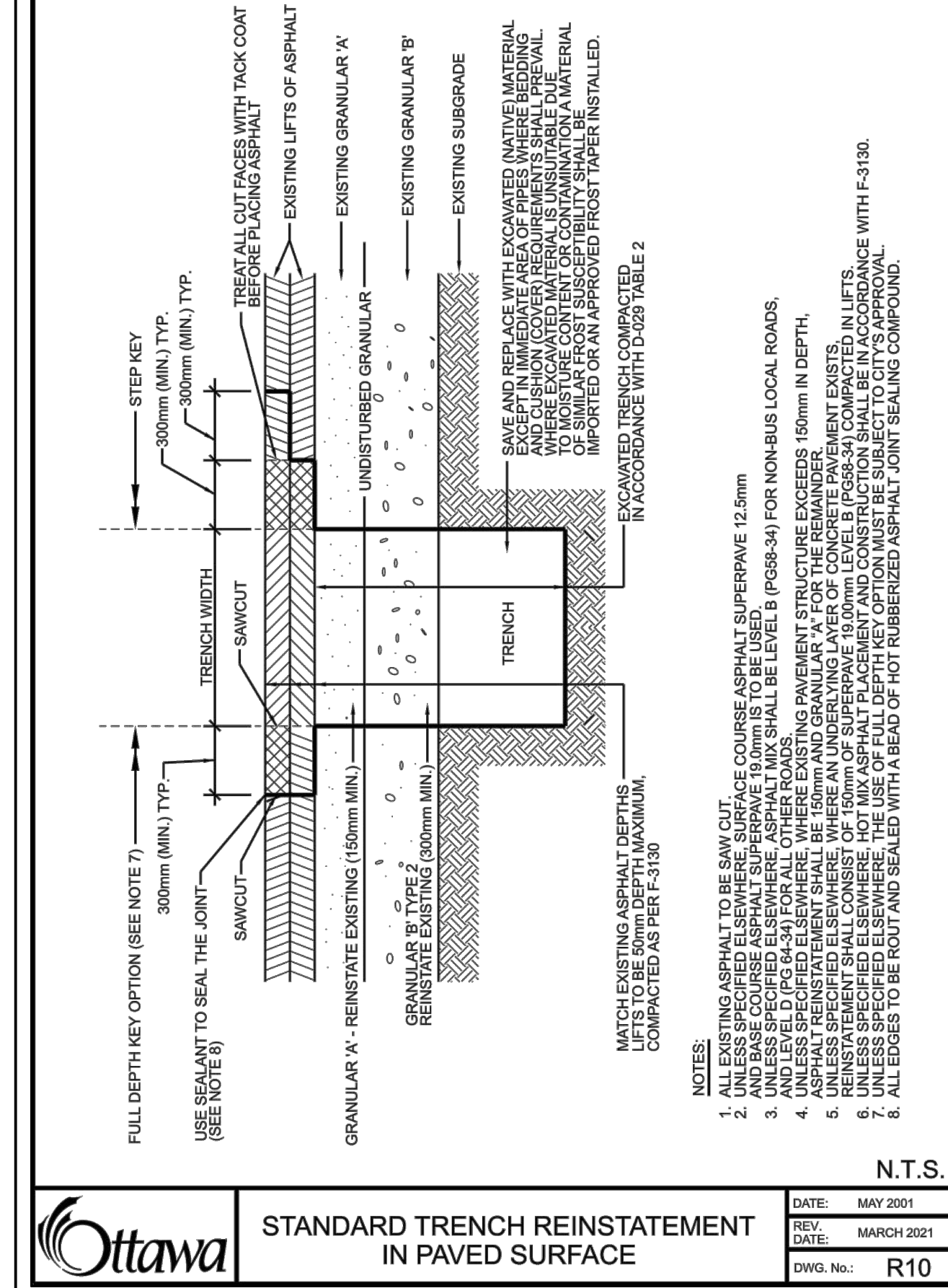
OPSD 219.110



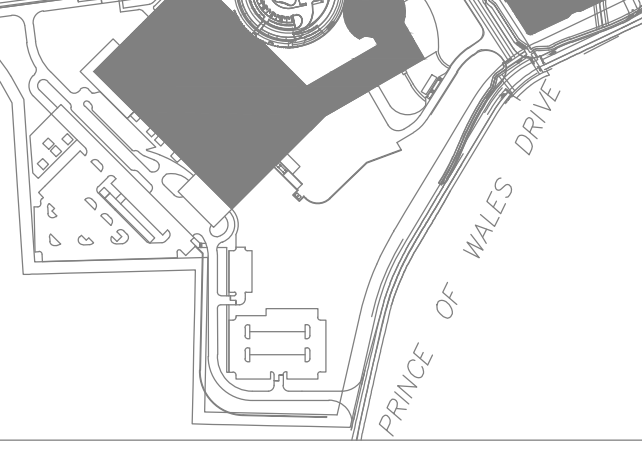
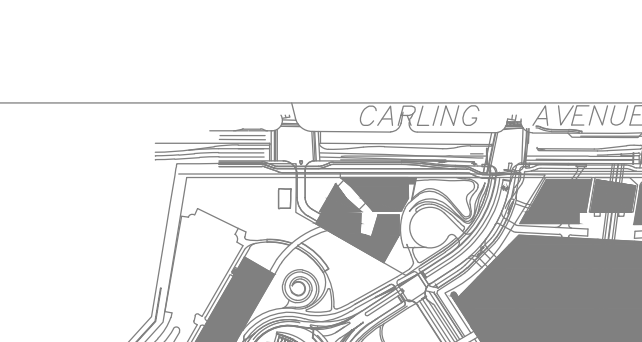
ONTARIO PROVINCIAL STANDARD DRAWING Nov 2015 Rev 1

VORTEX ICD INSTALLATION

OPSD 219.110



HDR Architecture Associates Inc.
300 Richmond Road, Suite 200
Ottawa, Ontario K1Z 0K6



THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT



THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT

Project Manager: M. J. G. J.E.G.
Project Designer: J.E.G.
Project Architect: J.E.G.
Landscape Architect: J.E.G.
Civil Engineer: PARSONS
Structural Engineer: EDP
Mechanical Engineer: Smith & Anderson
Electrical Engineer: Smith & Anderson
Planning Engineer: Smith & Anderson
Interior Designer: Collins
Equipment Planner: Collins
Wildfires: Collins

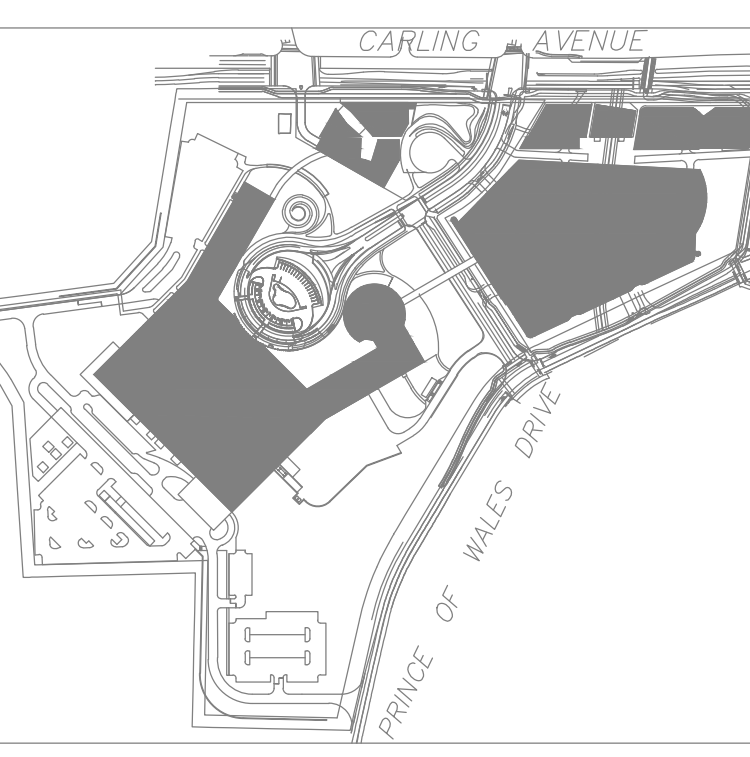
Sheet Reviewer: PARSONS

MARK	DATE	DESCRIPTION
01	2022-08-23	ISSUED FOR PRE-CONSULTATION
02	2022-10-26	DRAFT FOR RFP
03	2022-11-30	ISSUED FOR SPC & FLUIDA - 1ST SUBMISSION
04	2023-12-02	ISSUED FOR 3A1.2
05	2023-02-24	ISSUED FOR RFP VERSION 1.0
06	2023-04-12	RE-ISSUED FOR SPC & FLUIDA

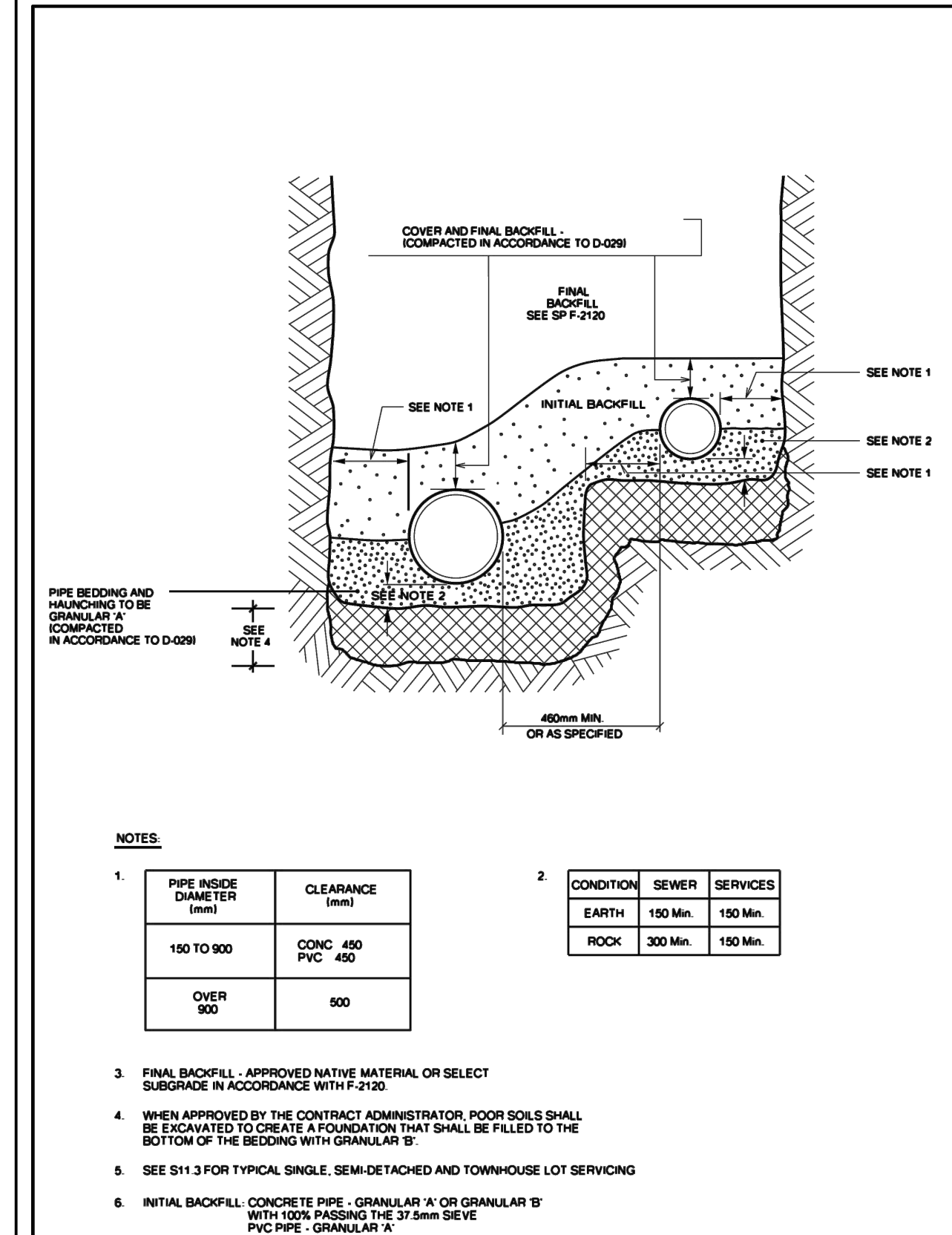
Project Number: 1033982
Original Issue: 04/12/22
Date: 2023-02-26/168
File Number: 18991

Sheet Name: DETAILS 1
Sheet Number: C016
Project Status: STAGE 3

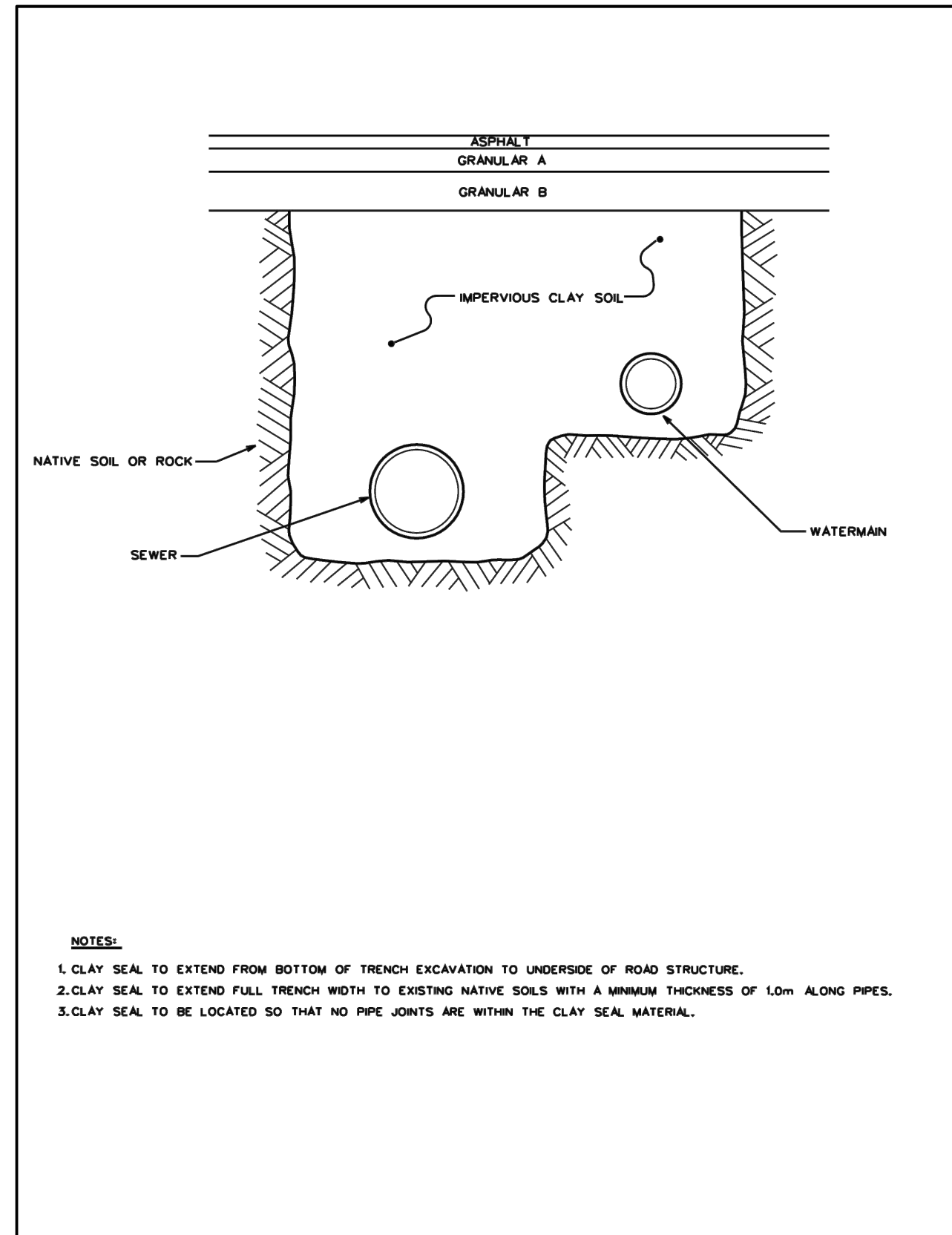
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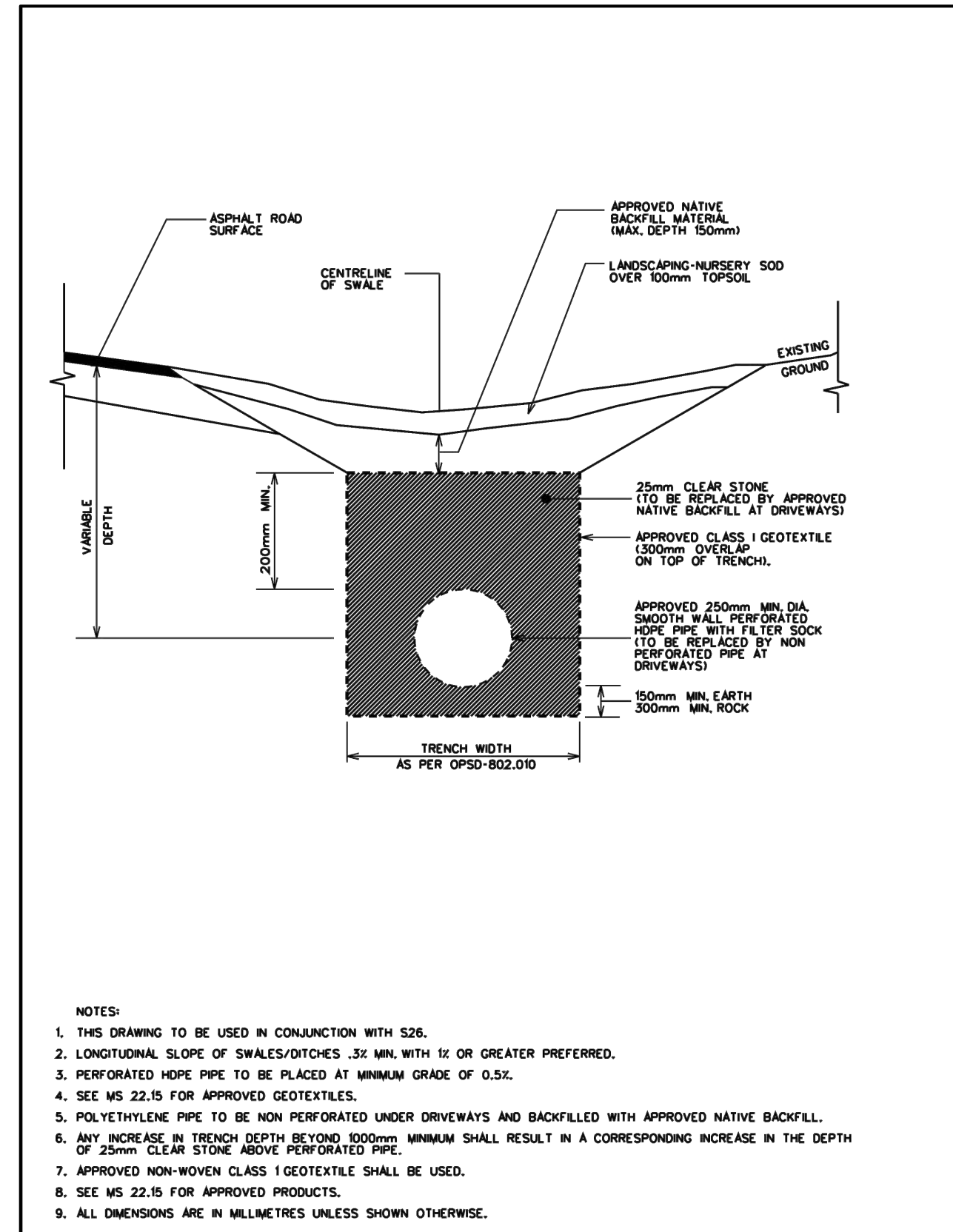
THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT



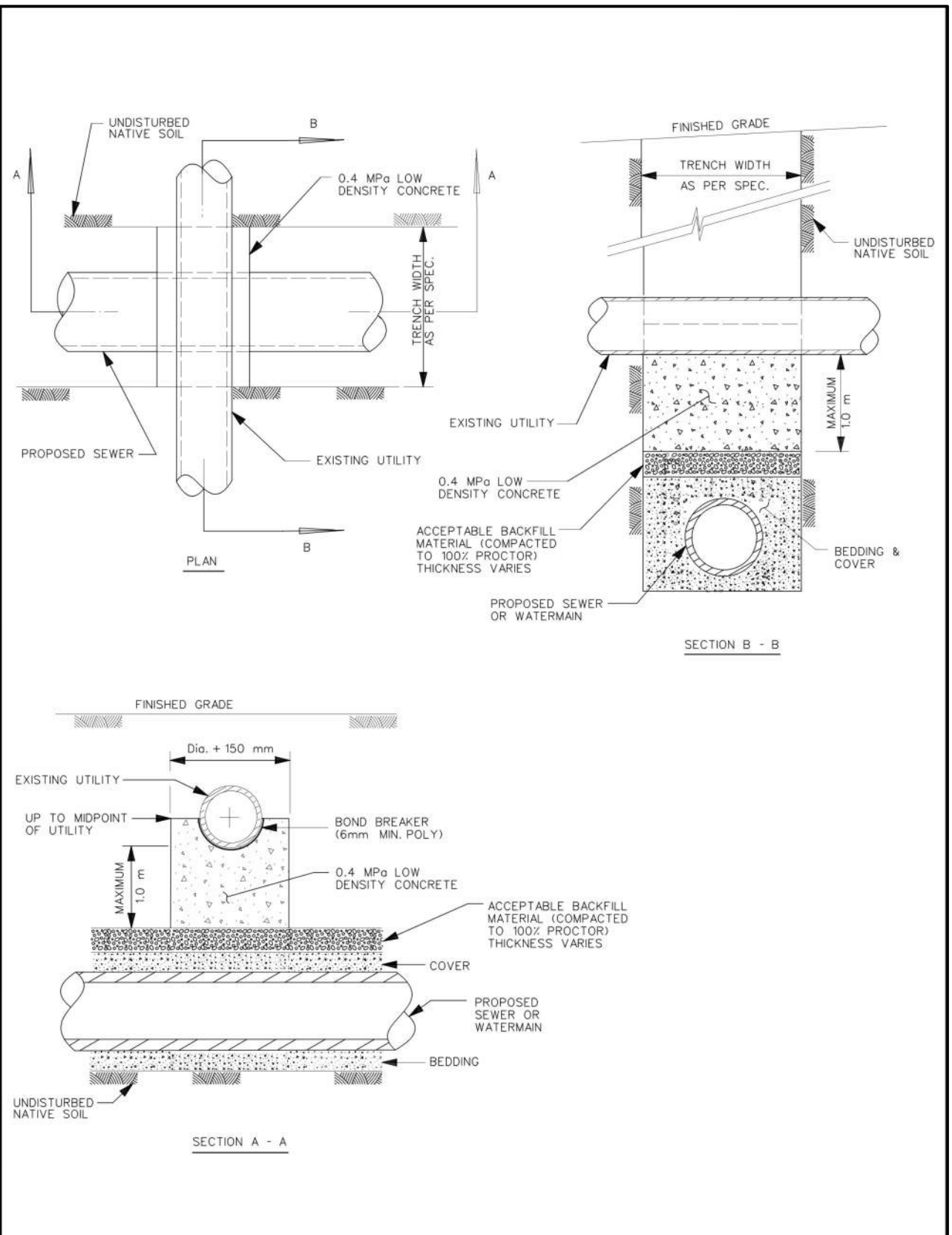
COMBINED TRENCH (SEWERS & SEWER SERVICES)
DATE: MAY 2001
REV: MARCH 2007
DWG. NO.: S7



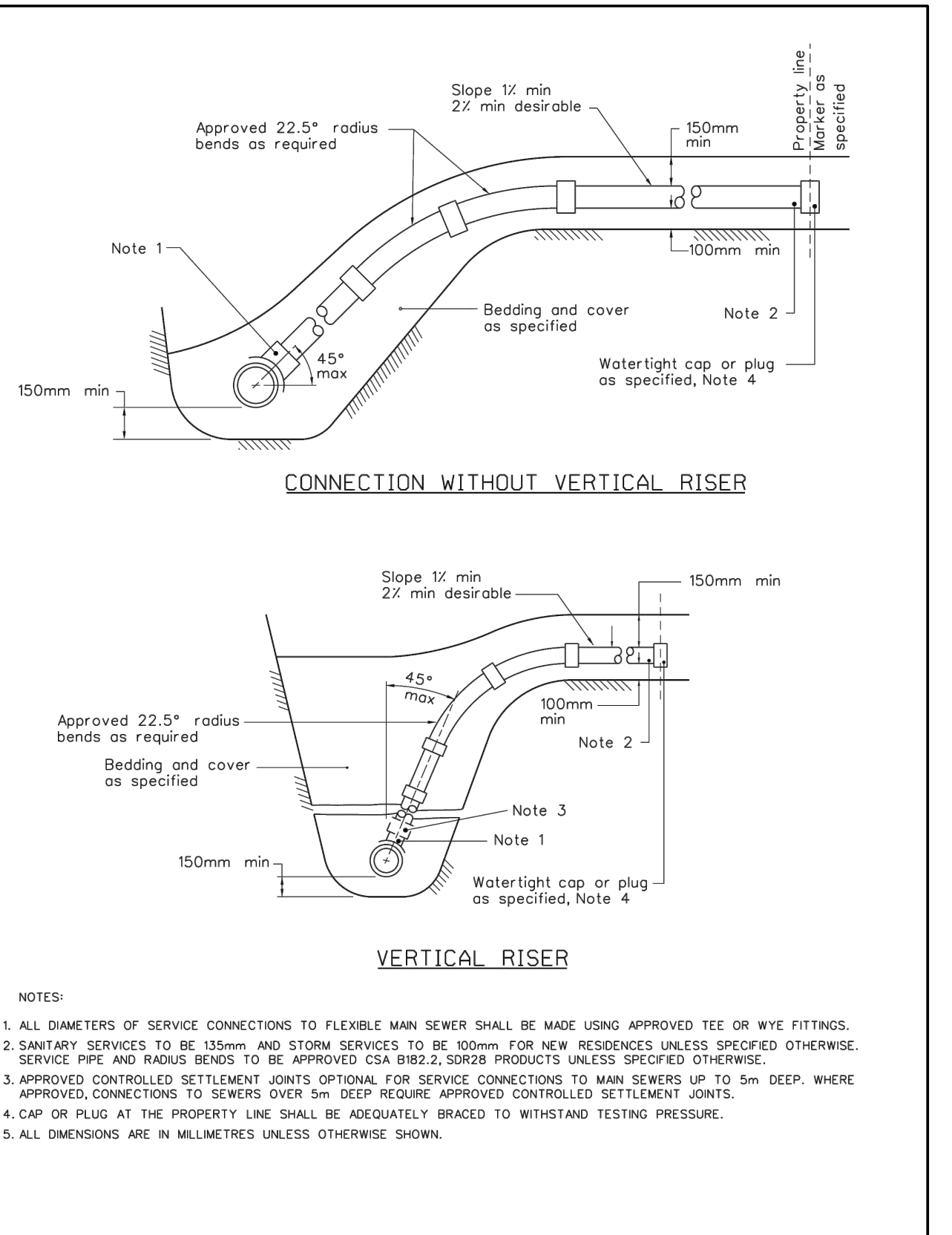
CLAY SEAL FOR PIPE TRENCHES
DATE: MAY 2001
REV: MARCH 2006
DWG. NO.: S8



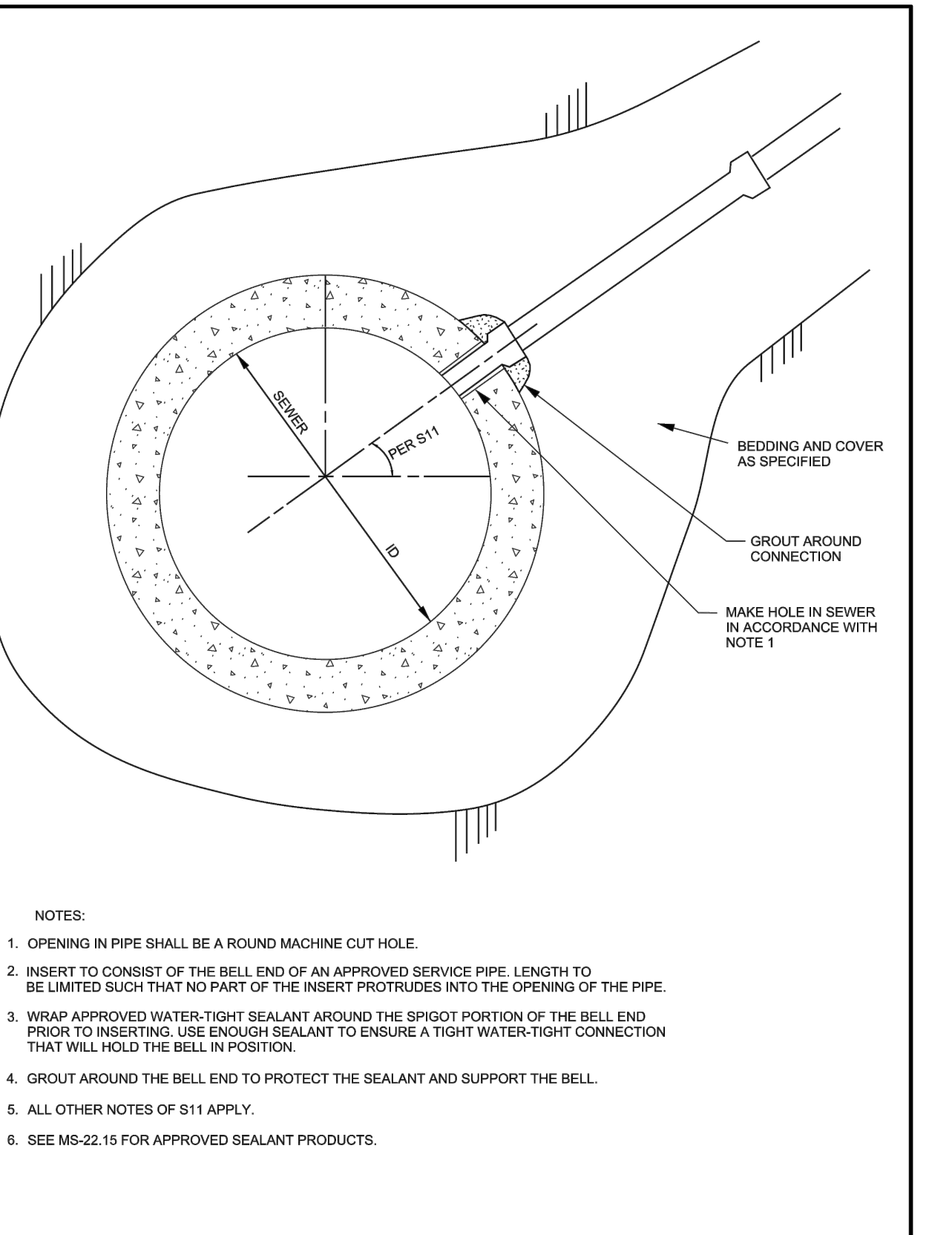
DITCHED PIPE STORM SEWER INSTALLATION
DATE: MAY 2001
REV: MARCH 2007
DWG. NO.: S9



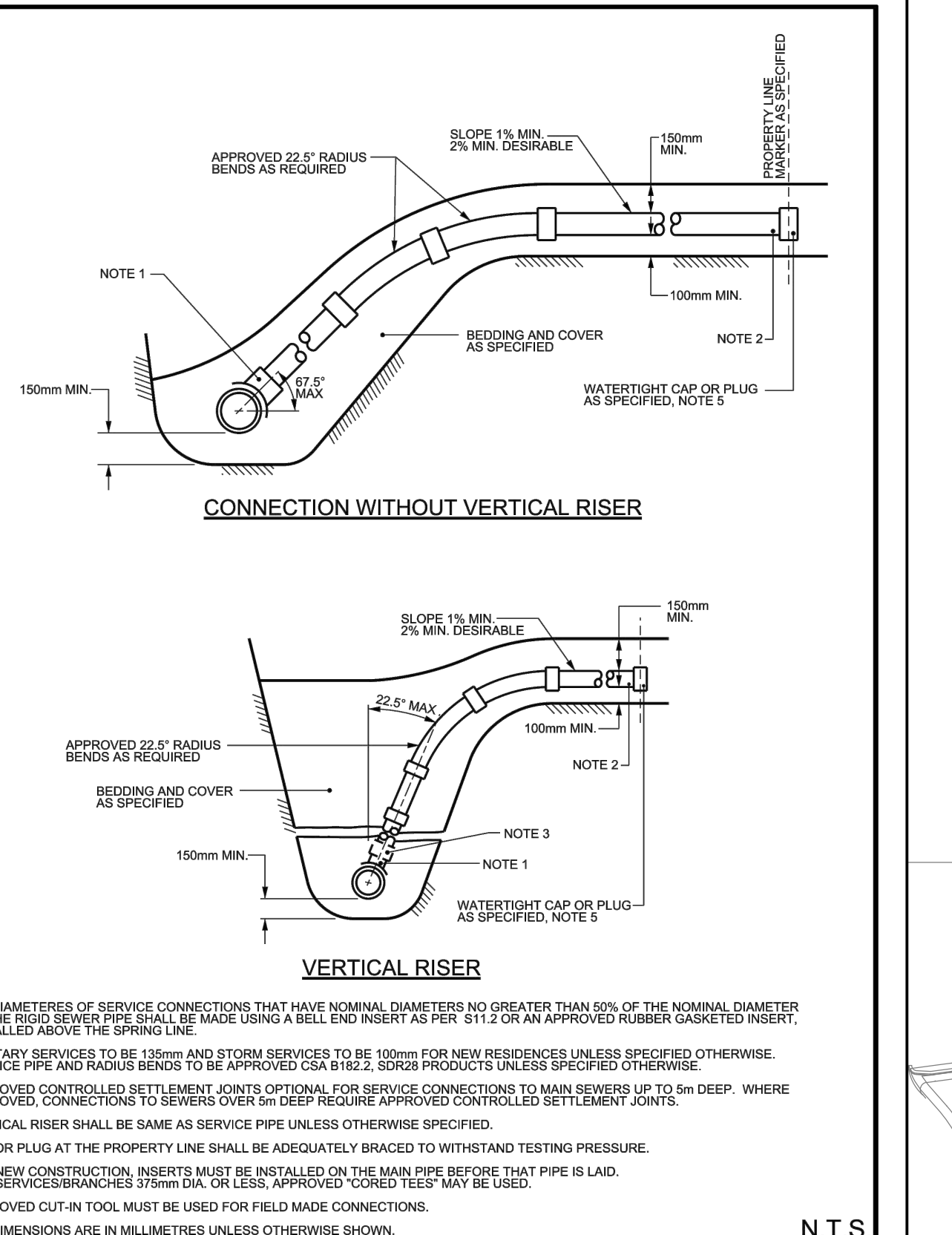
SUPPORT DETAIL FOR EXISTING UTILITY CROSSING SEWER OR WATERMAIN TRENCH
DATE: MAY 2001
REV: MARCH 2007
DWG. NO.: S10



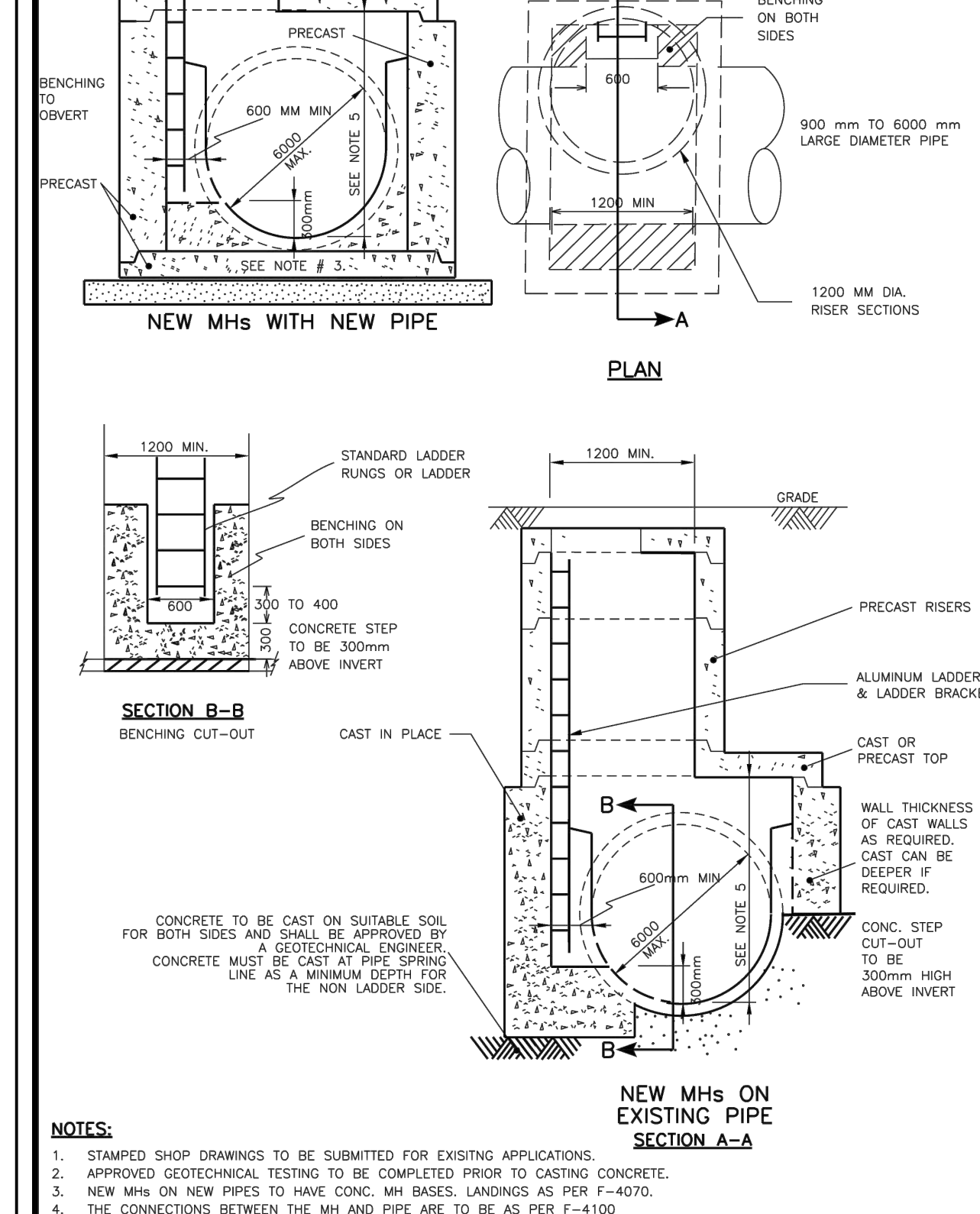
SEWER SERVICE CONNECTIONS FOR FLEXIBLE MAIN SEWER PIPE (MODIFIED OPSD-1006.020)
DATE: MARCH 2008
REV: MARCH 2010
DWG. NO.: S11



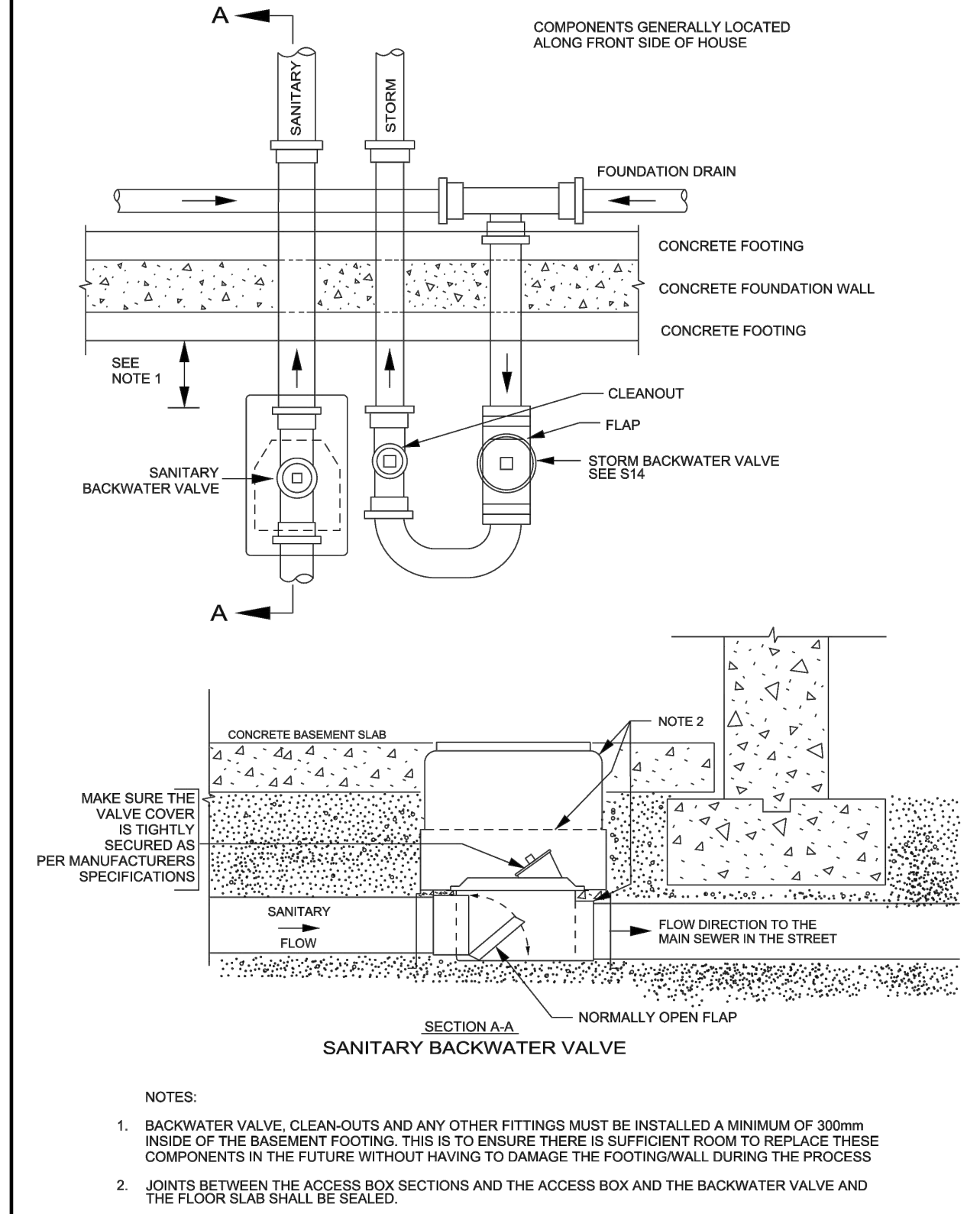
SEWER SERVICE CONNECTIONS FOR RIGID MAIN SEWER PIPE USING BELL END INSERT METHOD
DATE: MARCH 2008
REV: MARCH 2010
DWG. NO.: S12



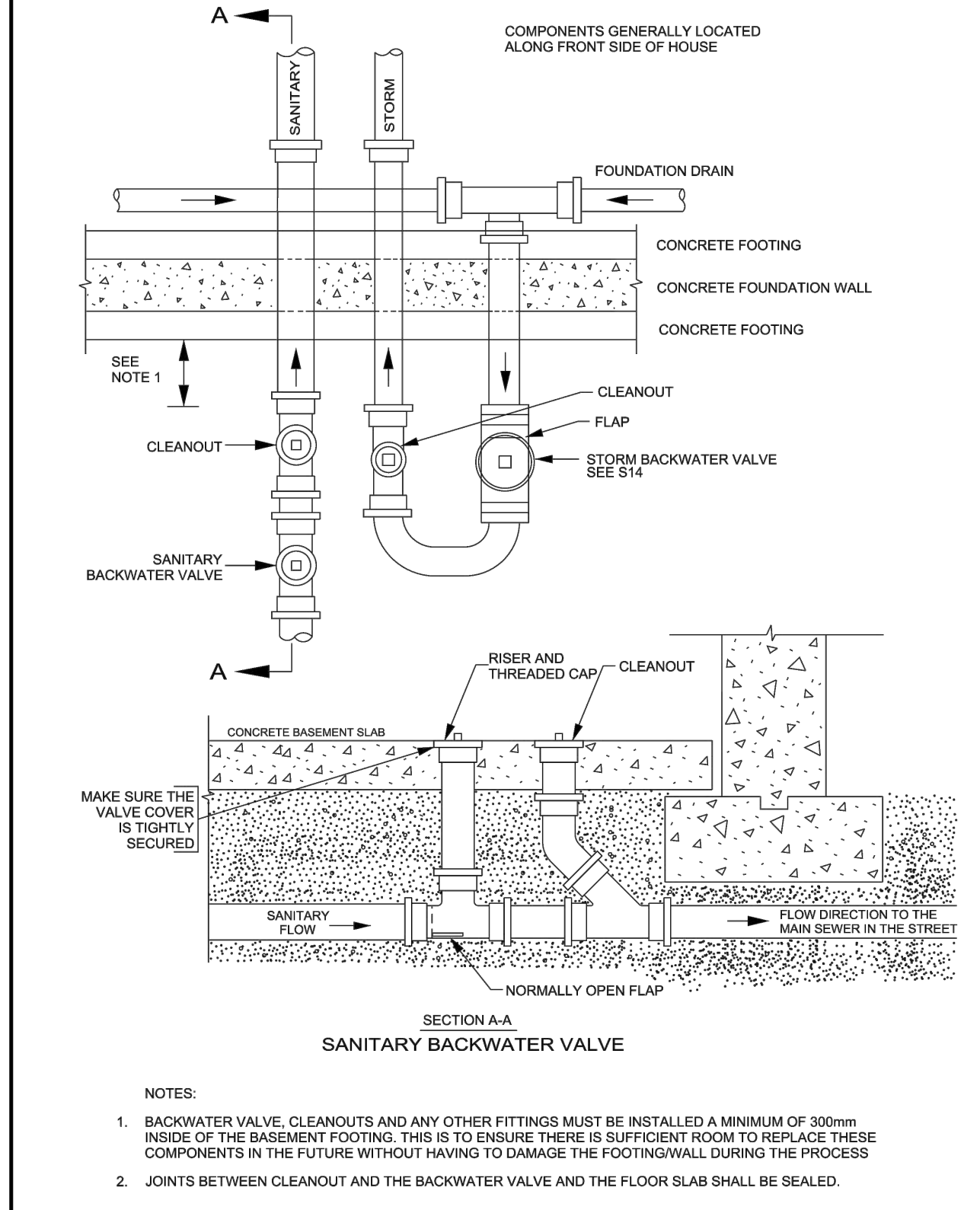
SEWER SERVICE CONNECTIONS FOR RIGID MAIN SEWER PIPE (MODIFIED OPSD-1006.010)
DATE: MARCH 2008
REV: MARCH 2010
DWG. NO.: S11



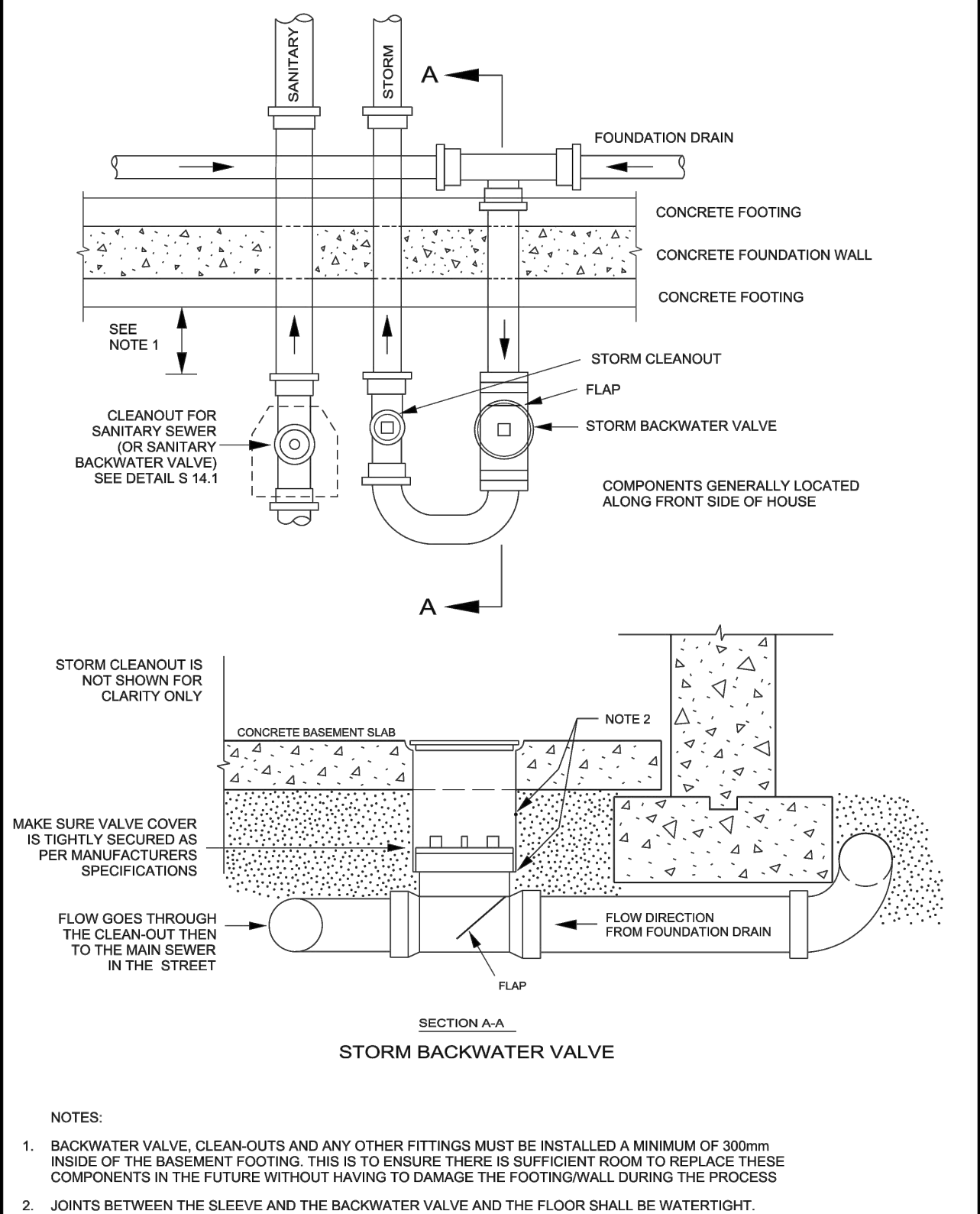
NEW MHS WITH NEW PIPE
DATE: JAN 2009
REV: MARCH 2013
DWG. NO.: S12



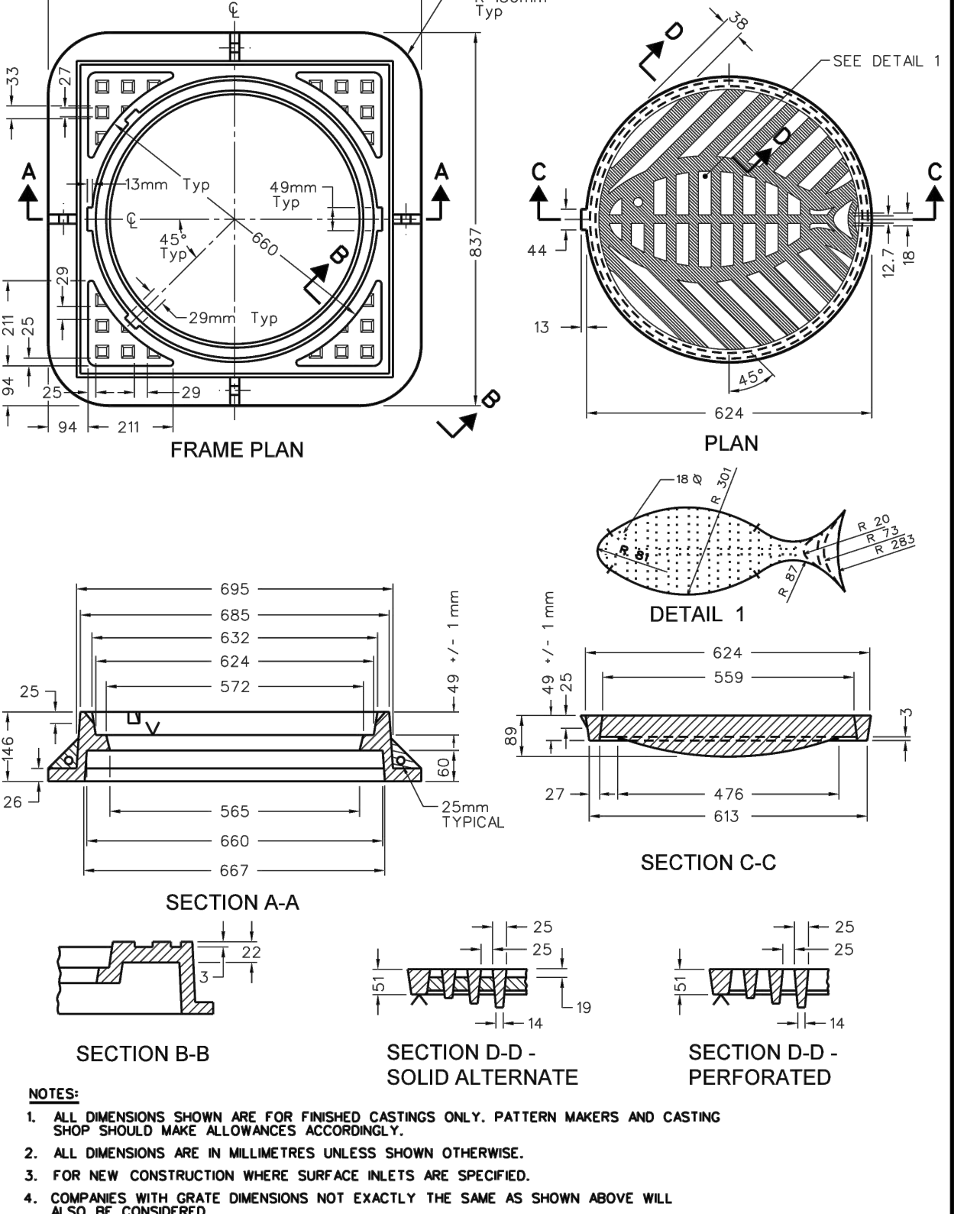
SANITARY BACKWATER VALVE INSTALLATION TYPE 1
DATE: MARCH 2010
REV: MARCH 2011
DWG. NO.: S13



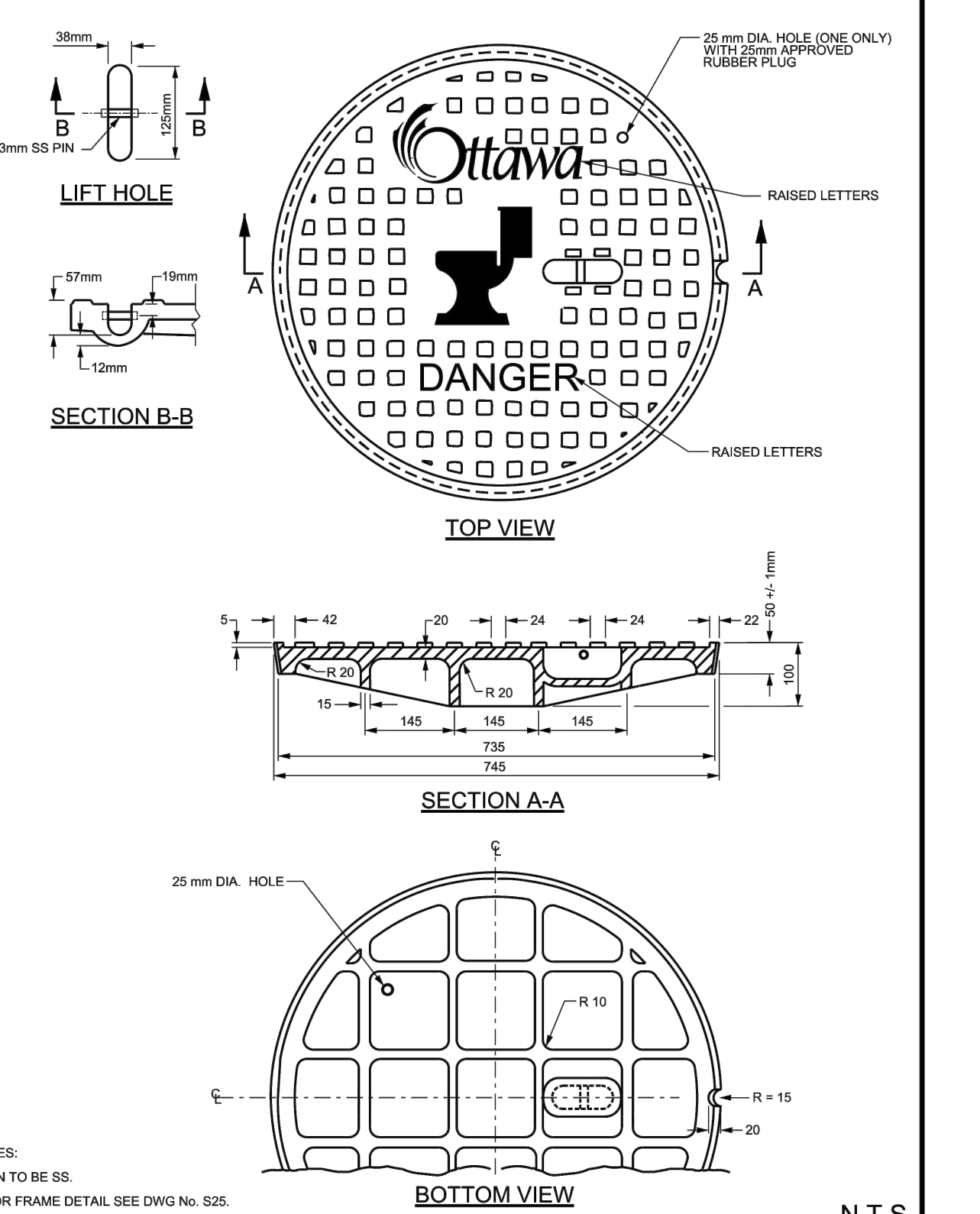
SANITARY BACKWATER VALVE INSTALLATION TYPE 2
DATE: MARCH 2010
REV: MARCH 2011
DWG. NO.: S14



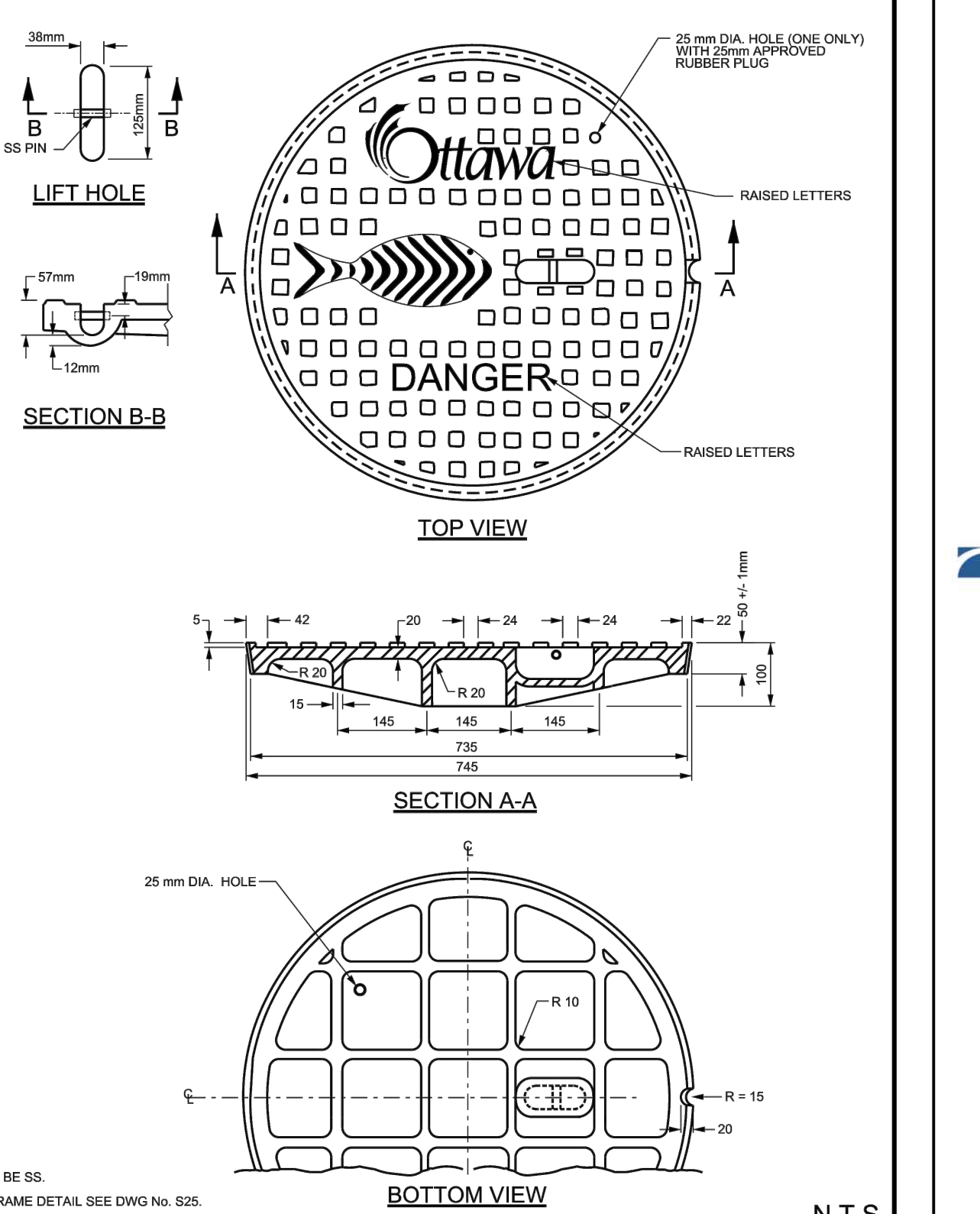
FOUNDATION DRAIN BACKWATER VALVE INSTALLATION
DATE: MARCH 2010
REV: MARCH 2011
DWG. NO.: S14



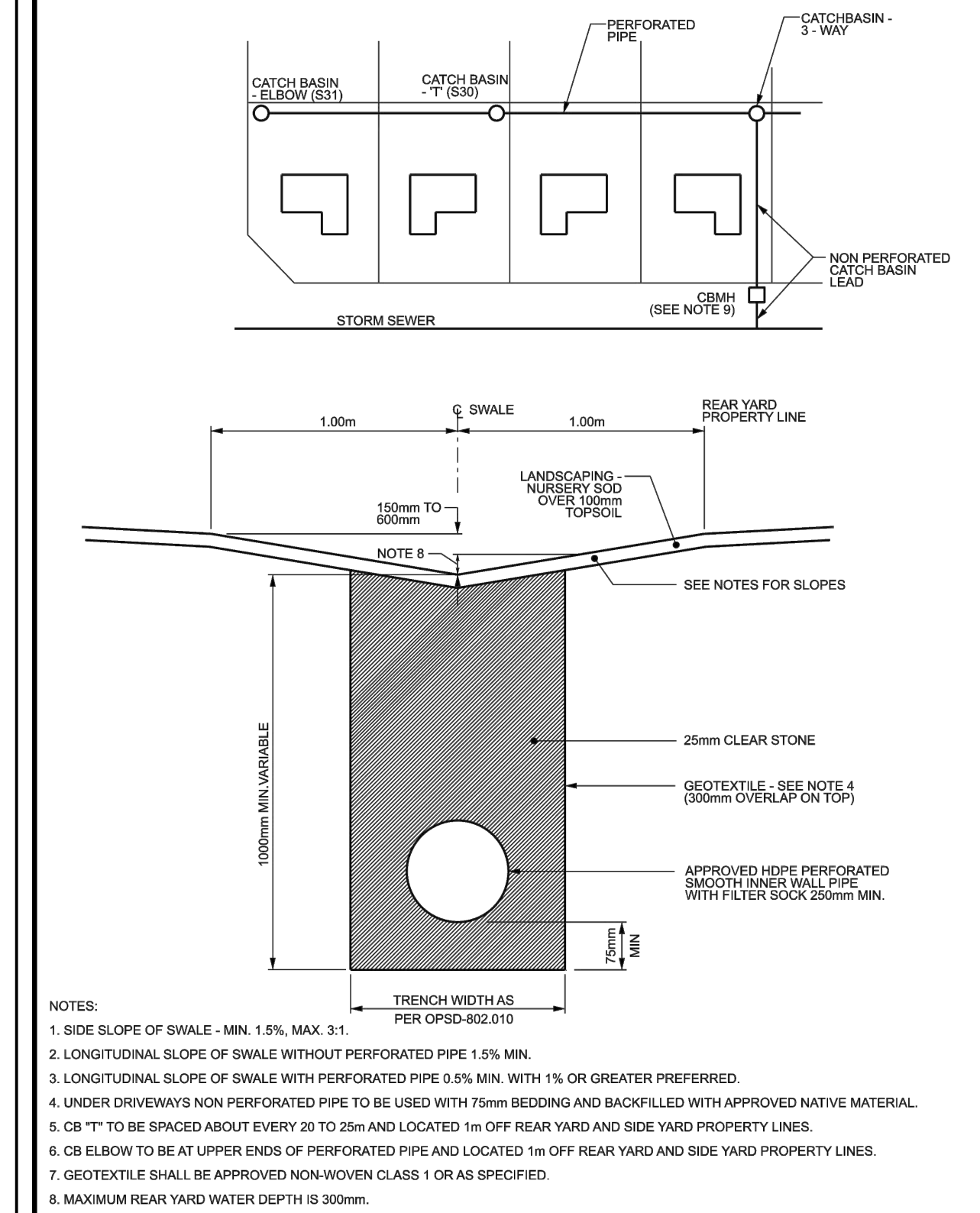
HEAVY DUTY 'FISH' TYPE ROUND CATCH BASIN COVER (MODIFIED OPSD-400.07)
DATE: MAY 2009
REV: MARCH 2017
DWG. NO.: S19



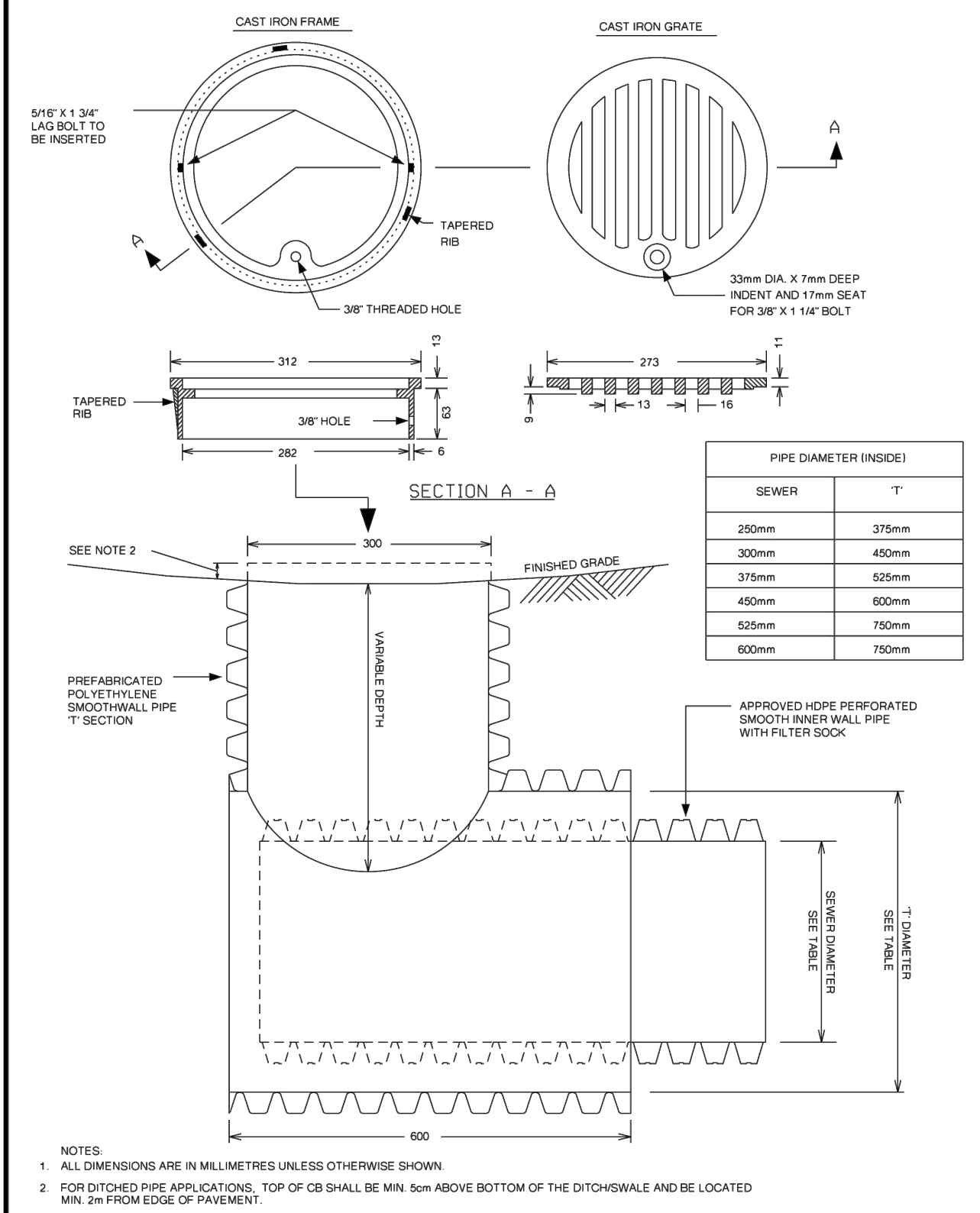
STANDARD CIRCULAR SANITARY & COMBINED MAINTENANCE HOLE COVER
DATE: MARCH 2008
REV: MARCH 2017
DWG. NO.: S24



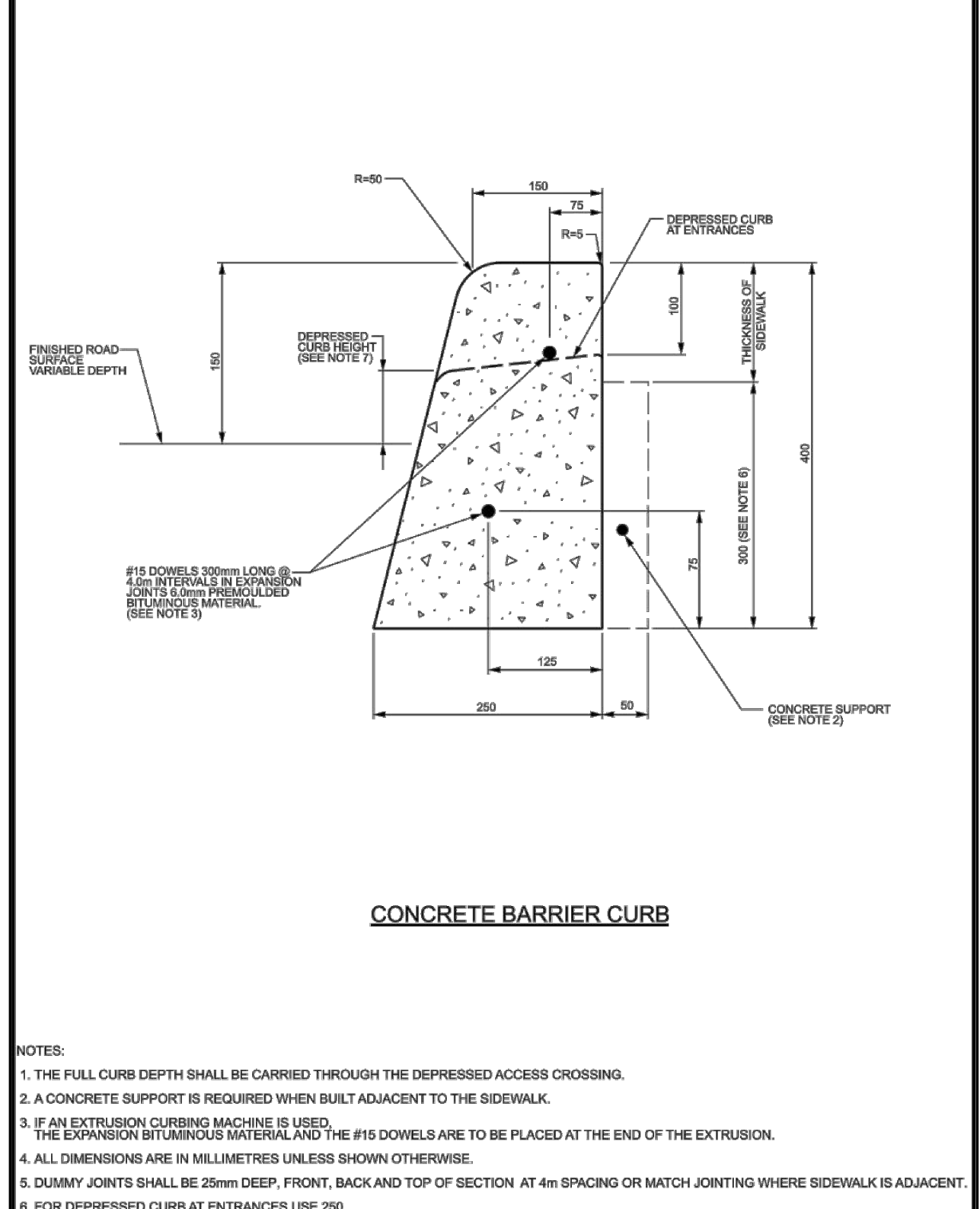
STANDARD CIRCULAR STORM MAINTENANCE HOLE COVER
DATE: MARCH 2008
REV: MARCH 2017
DWG. NO.: S24.1



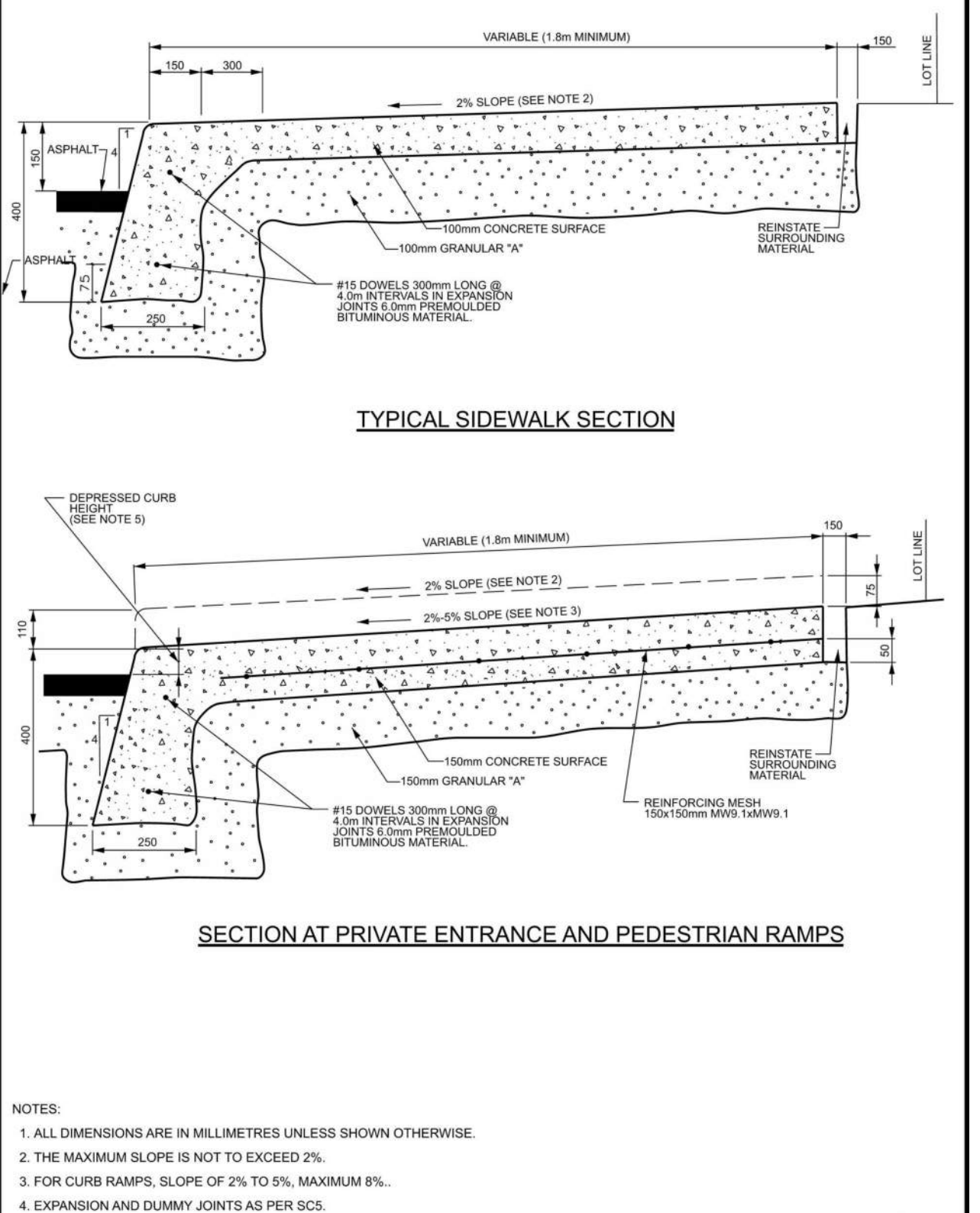
PERFORATED PIPE INSTALLATION FOR REAR YARD AND LANDSCAPING APPLICATIONS
DATE: MARCH 2007
REV: MARCH 2011
DWG. NO.: S29



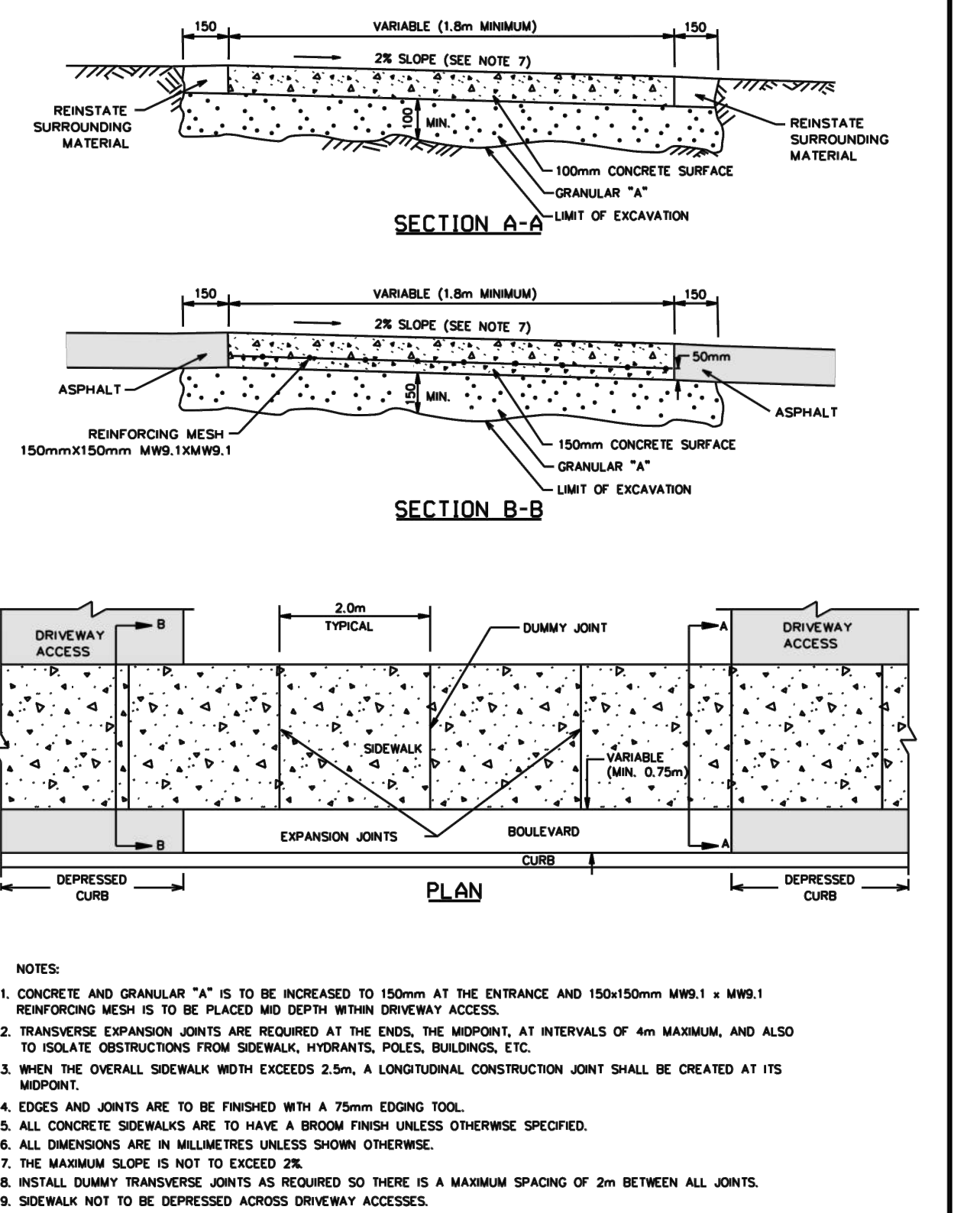
CATCH BASIN - ELBOW FOR REAR YARD, DITCHED PIPE AND LANDSCAPING APPLICATIONS
DATE: MARCH 2007
REV: MARCH 2011
DWG. NO.: S31



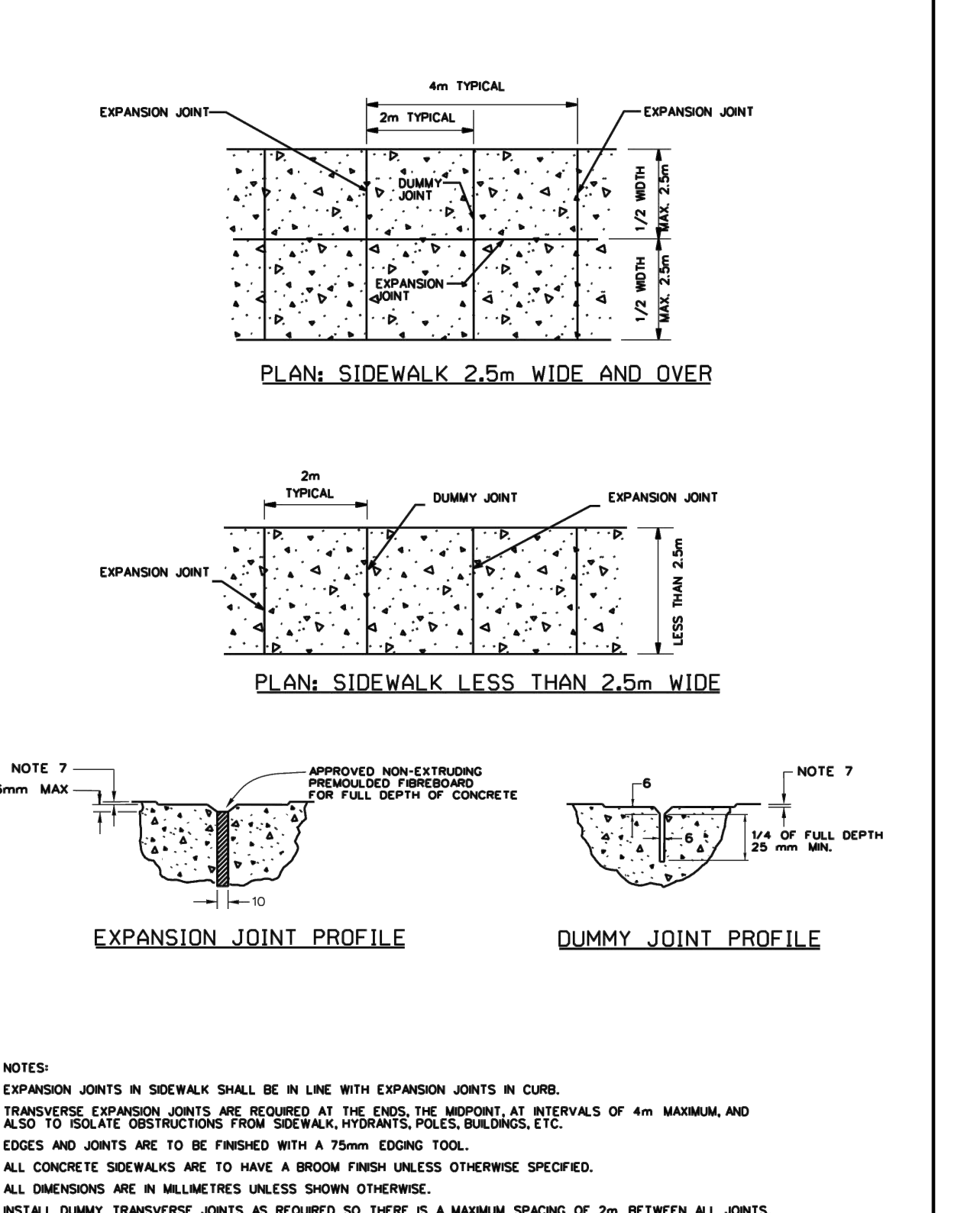
CONCRETE BARRIER CURB FOR GRANULAR BASE PAVEMENT (MODIFIED OPSD-600.110)
DATE: JANUARY 2013
REV: MARCH 2011
DWG. NO.: SC1



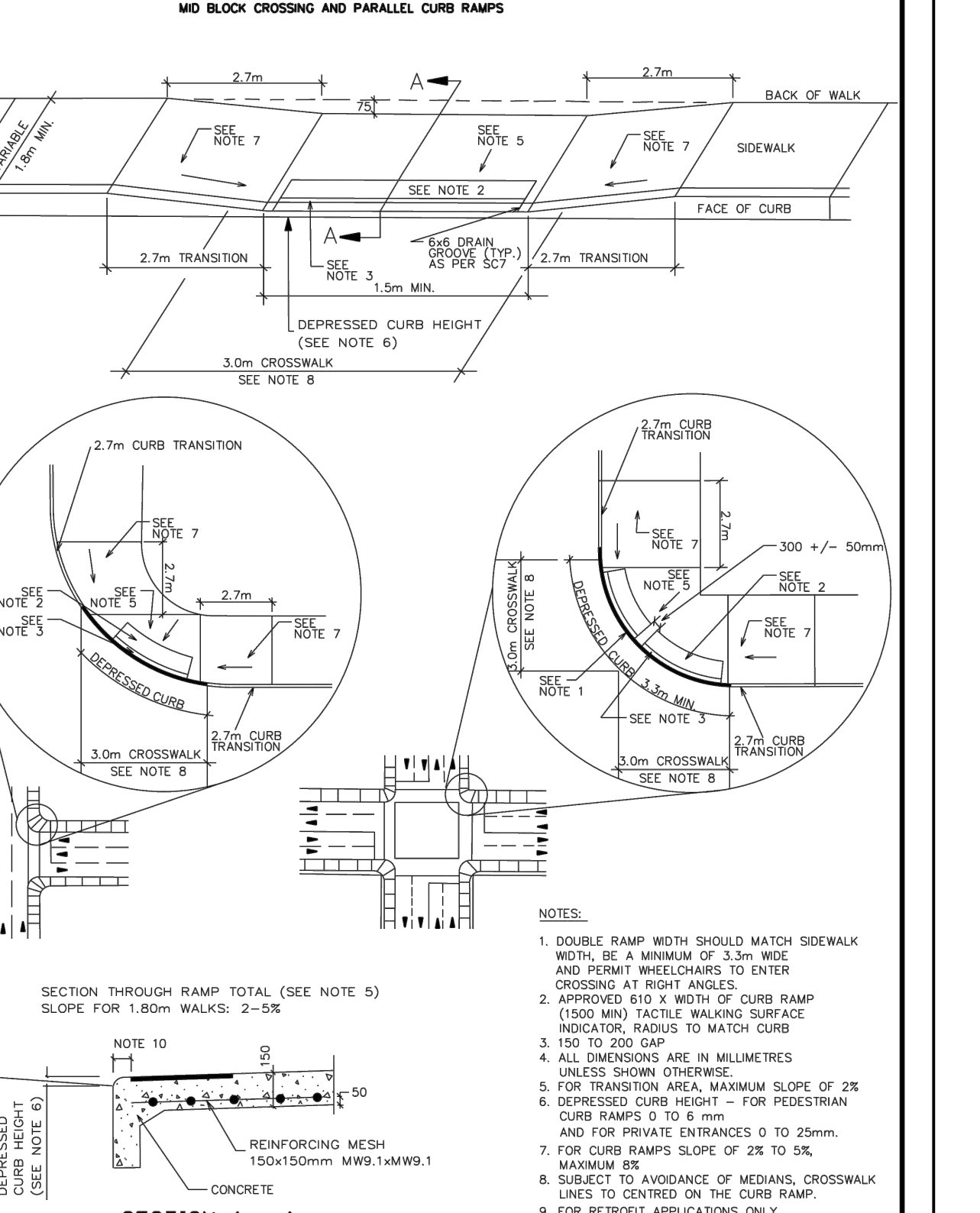
MONOLITHIC CONCRETE CURB AND SIDEWALK
DATE: MAY 2001
REV: MAY 2017
DWG. NO.: SC2



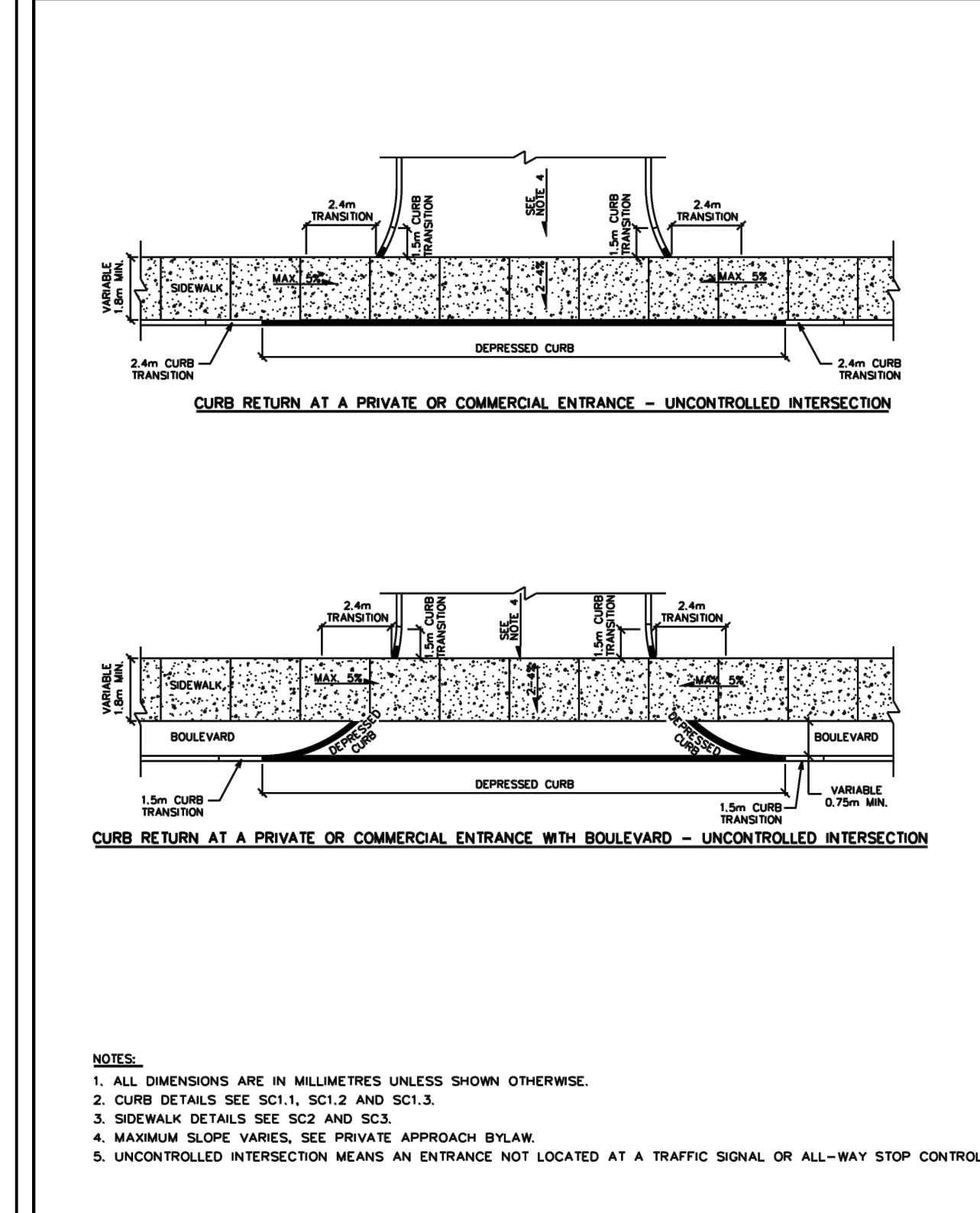
TYPICAL CONCRETE SIDEWALK IN BOULEVARD
DATE: MAY 2001
REV: MARCH 2018
DWG. NO.: SC4



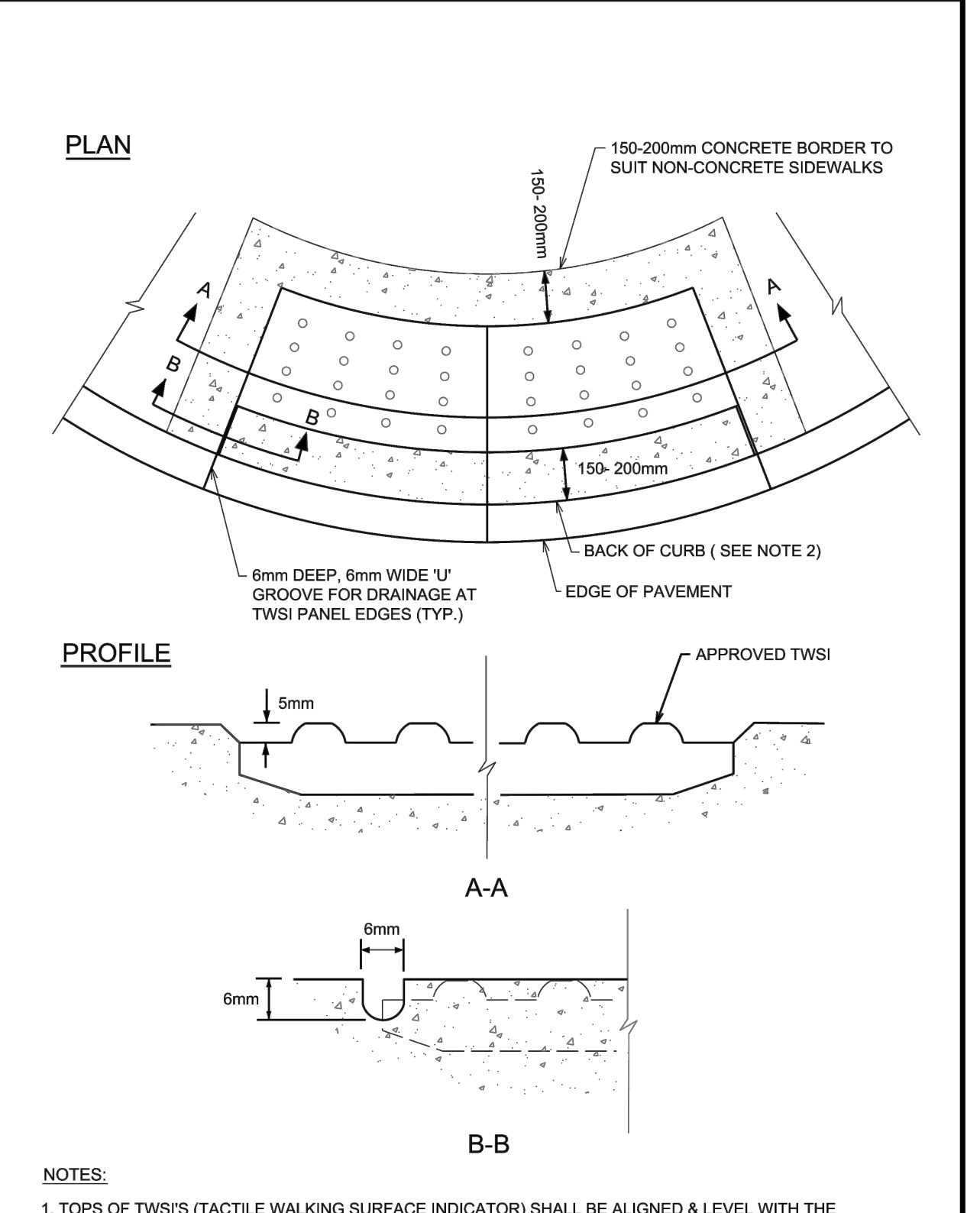
SIDEWALK CONSTRUCTION JOINTS
DATE: MAY 2001
REV: MARCH 2018
DWG. NO.: SC5



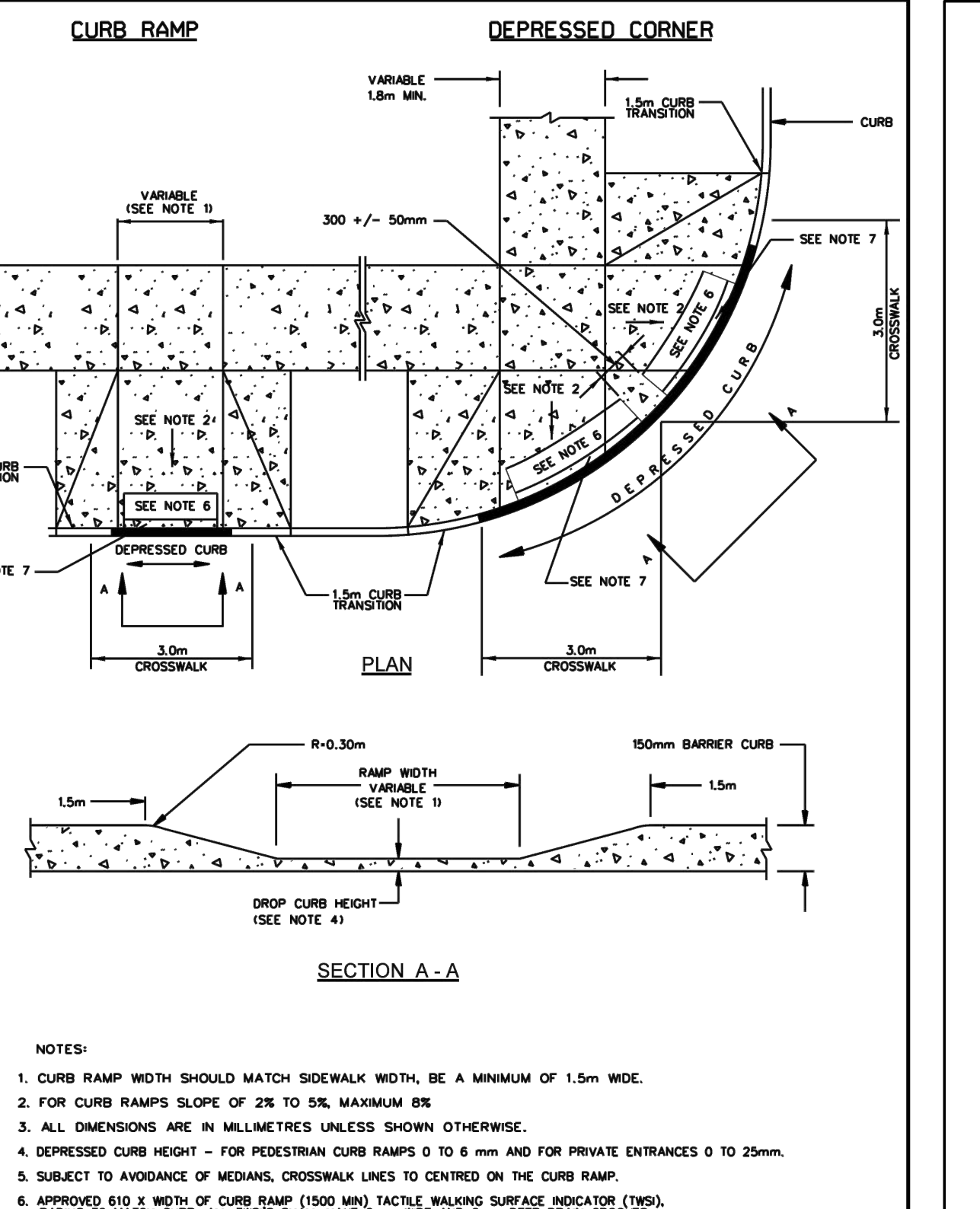
PEDESTRIAN CURB RAMP WITHOUT BOULEVARD
DATE: MAY 2001
REV: MARCH 2018
DWG. NO.: SC6



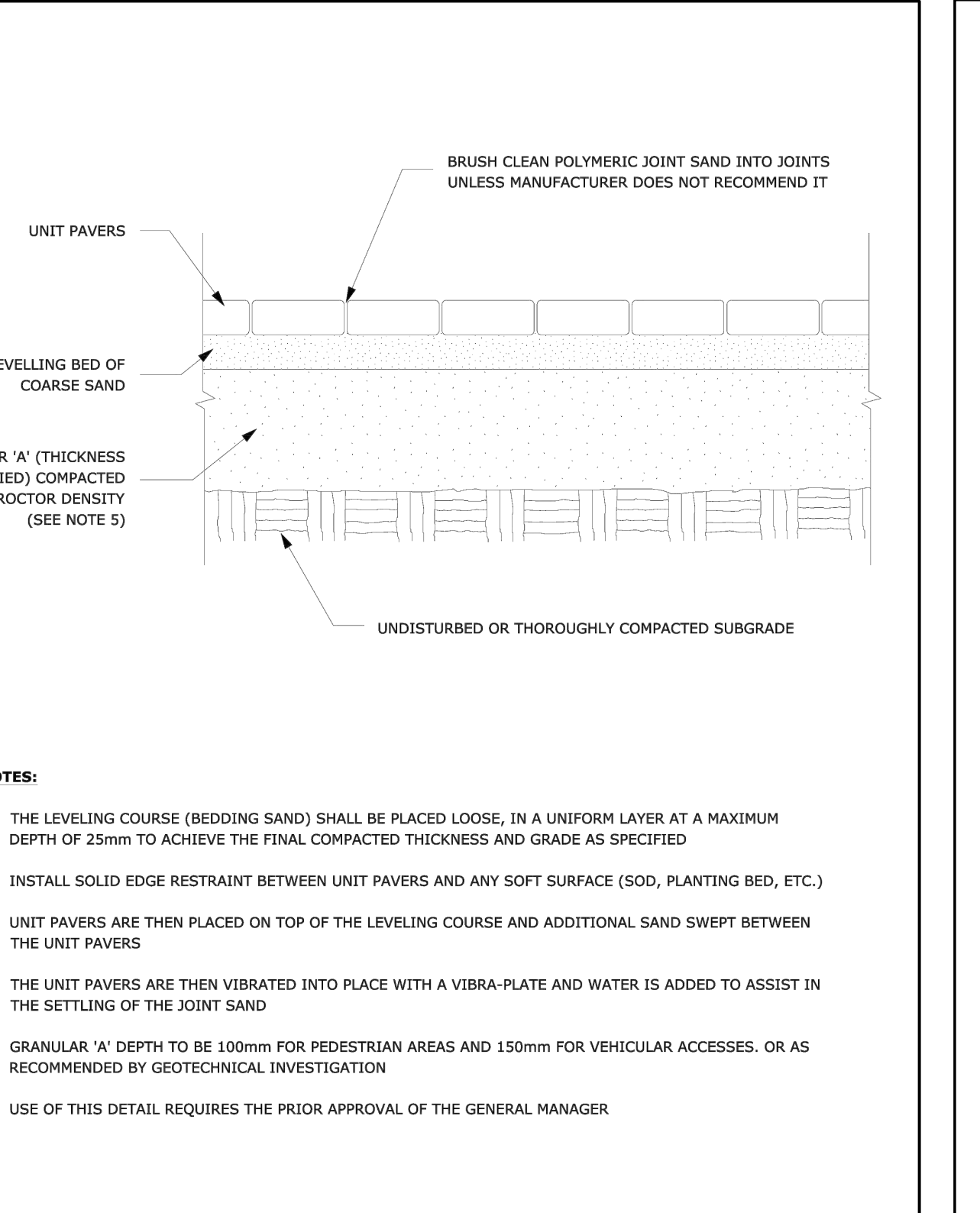
CURB RETURN ENTRANCES
DATE: MARCH 2007
REV: MARCH 2011
DWG. NO.: SC7.1



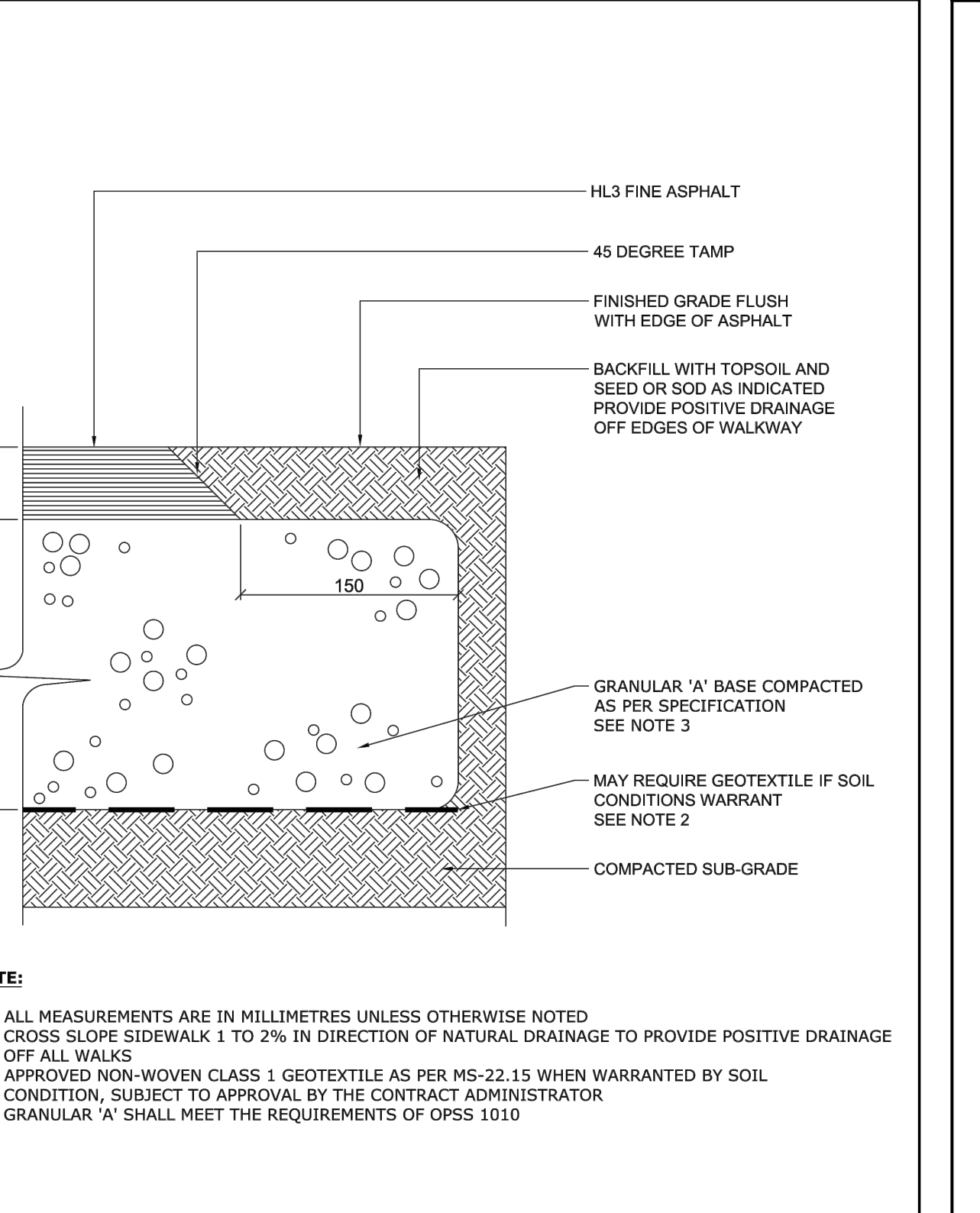
TWSI DETAIL
DATE: MARCH 2007
REV: MARCH 2011
DWG. NO.: SC7.3



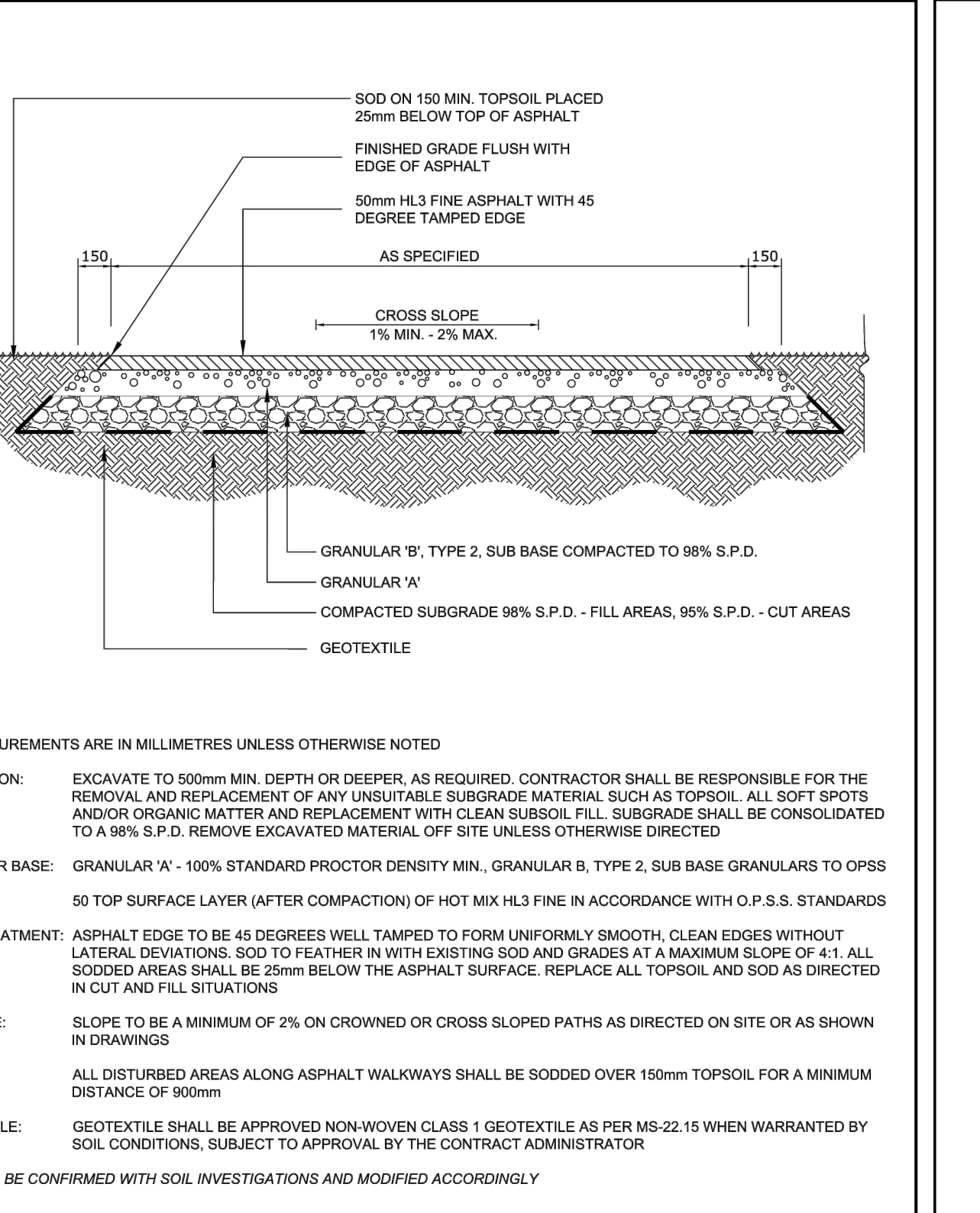
PEDESTRIAN CURB RAMP WITH BOULEVARD
DATE: MAY 2001
REV: FEB 2016
DWG. NO.: SC7



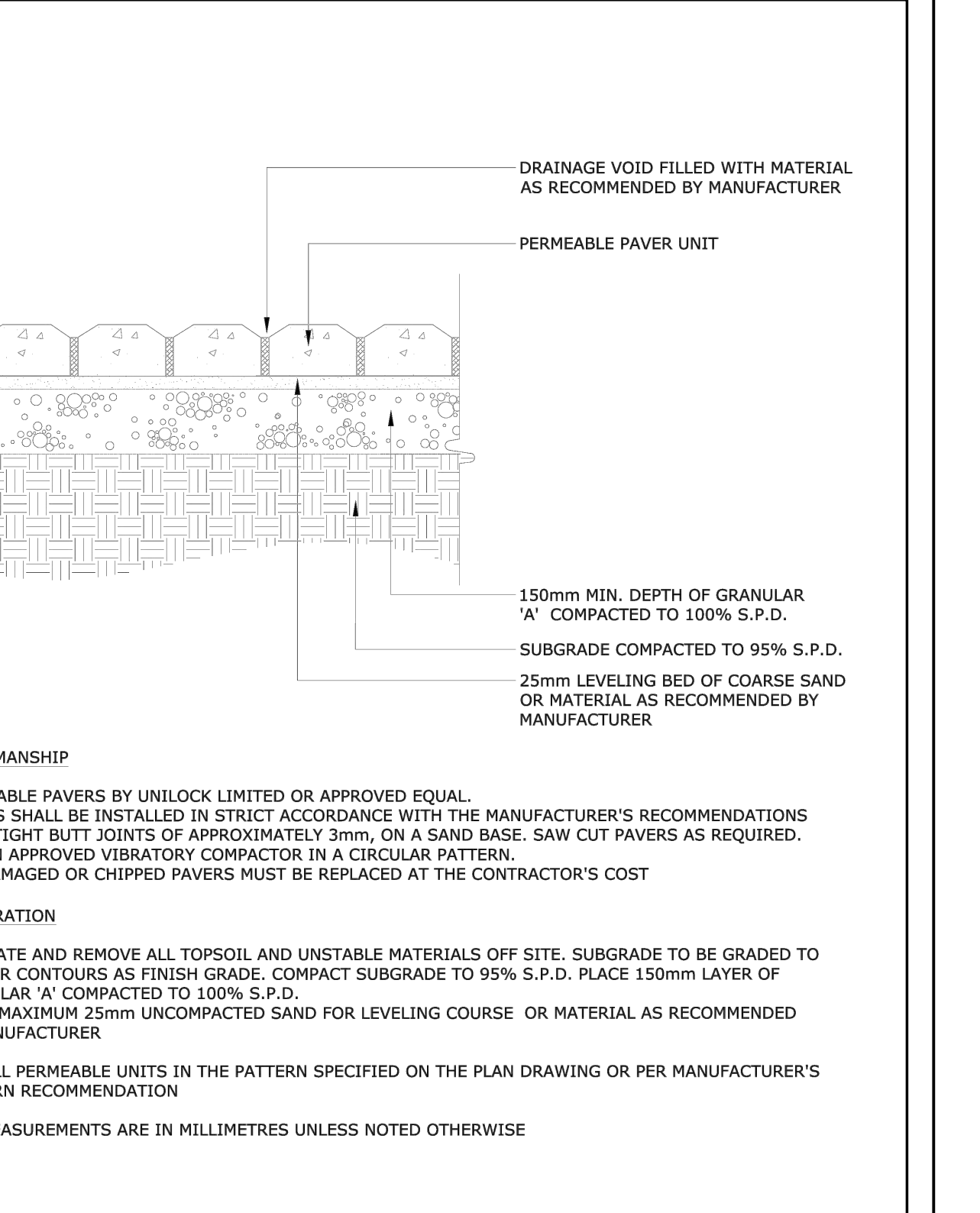
UNIT PAVING - ON GRANULAR BASE
DATE: FEB 2013
REV: FEB 2016
DWG. NO.: SC9



ASPHALT WALKWAY
DATE: FEB 2013
REV: FEB 2016
DWG. NO.: SC20



ASPHALT WALKWAY/SERVICE ACCESS - HEAVY DUTY
DATE: FEB 2013
REV: FEB 2016
DWG. NO.: SC21



PERMEABLE PAVING
DATE: FEB 2013
REV: FEB 2016
DWG. NO.: SC27

Project Manager	MR JEG
Project Designer	JEG
Landscape Architect	JEG
Civil Engineer	JEG
Structural Engineer	PARSONS
Mechanical Engineer	EXP
Electrical Engineer	Smith + Anderson
Interior Designer	Smith + Anderson
Equipment Planner	Smith + Anderson
Workflow	Collins

MARK	DATE	DESCRIPTION
01	2022-09-23	ISSUED FOR PRE-CONSTRUCTION
02	2022-10-26	DRAFT FOR RFP
03	2022-11-30	ISSUED FOR SPEC & FLUIDA - 1ST SUBMISSION
04	2022-12-02	ISSUED FOR 3d1.2
05	2023-02-24	ISSUED FOR RFP VERSION 1.0
06	2023-04-12	RE-ISSUED FOR SPEC & FLUIDA

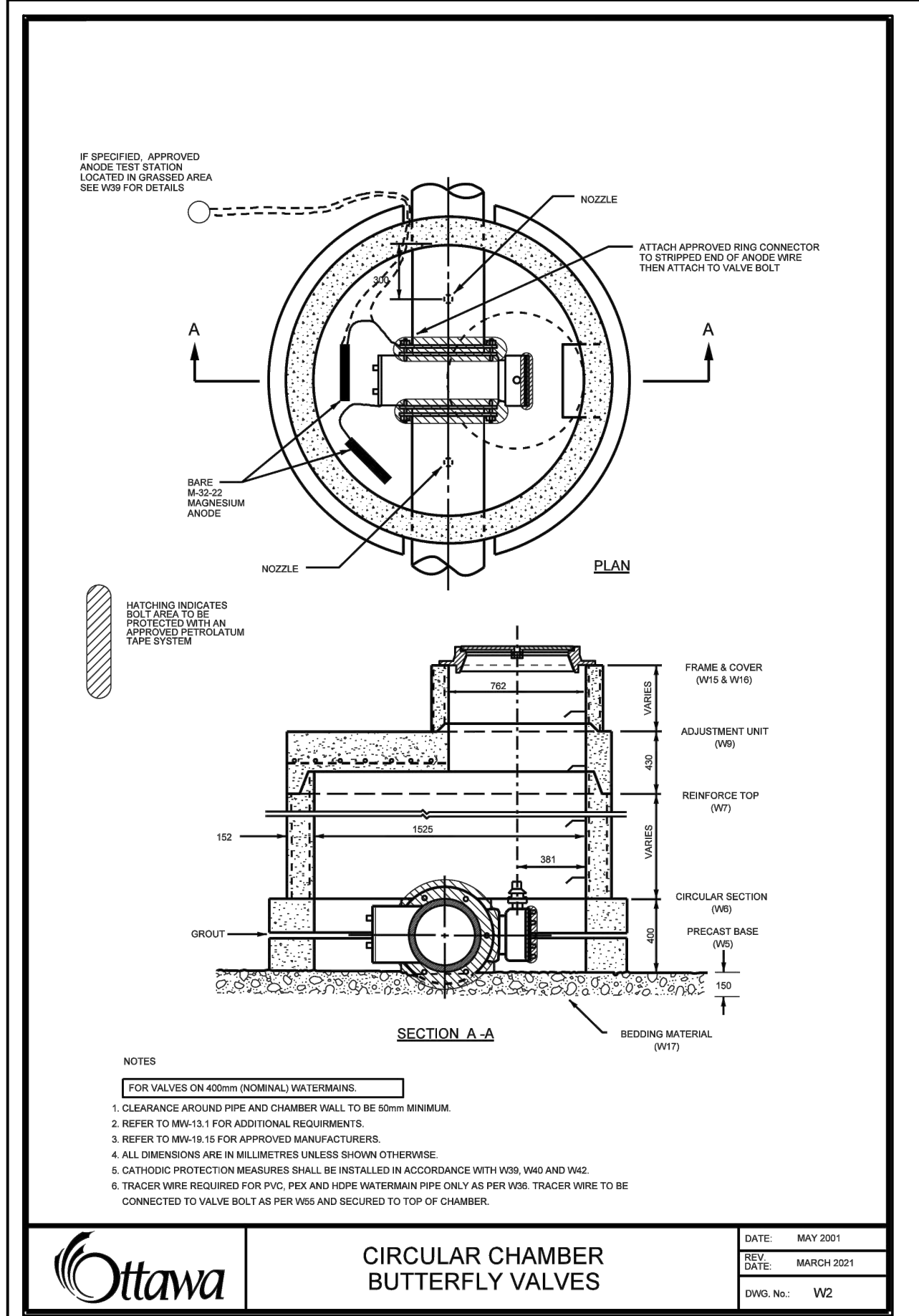
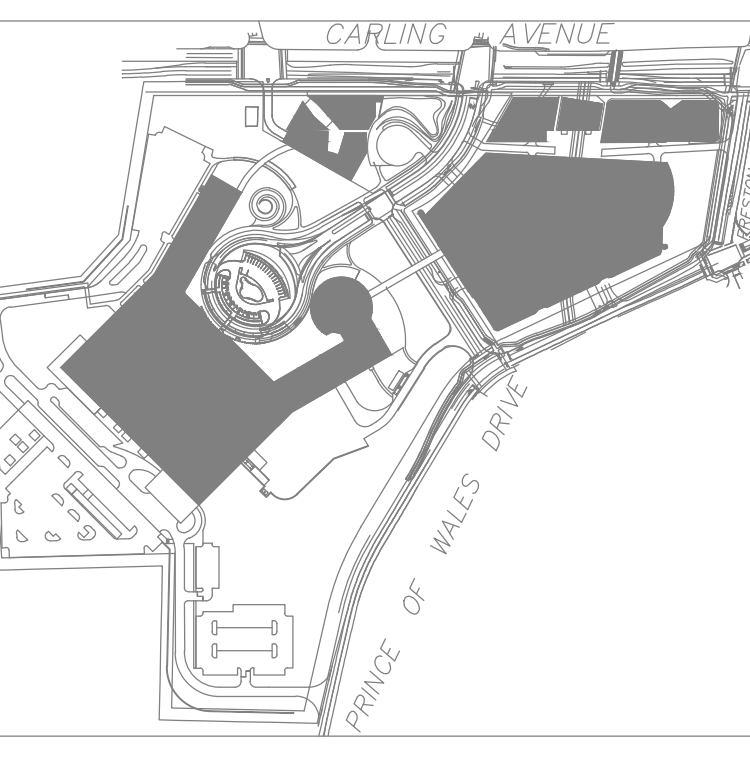
Project Number	1033960
Original Issue	04/12/22
Date	2022-02-22/0168
File Number	18991

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

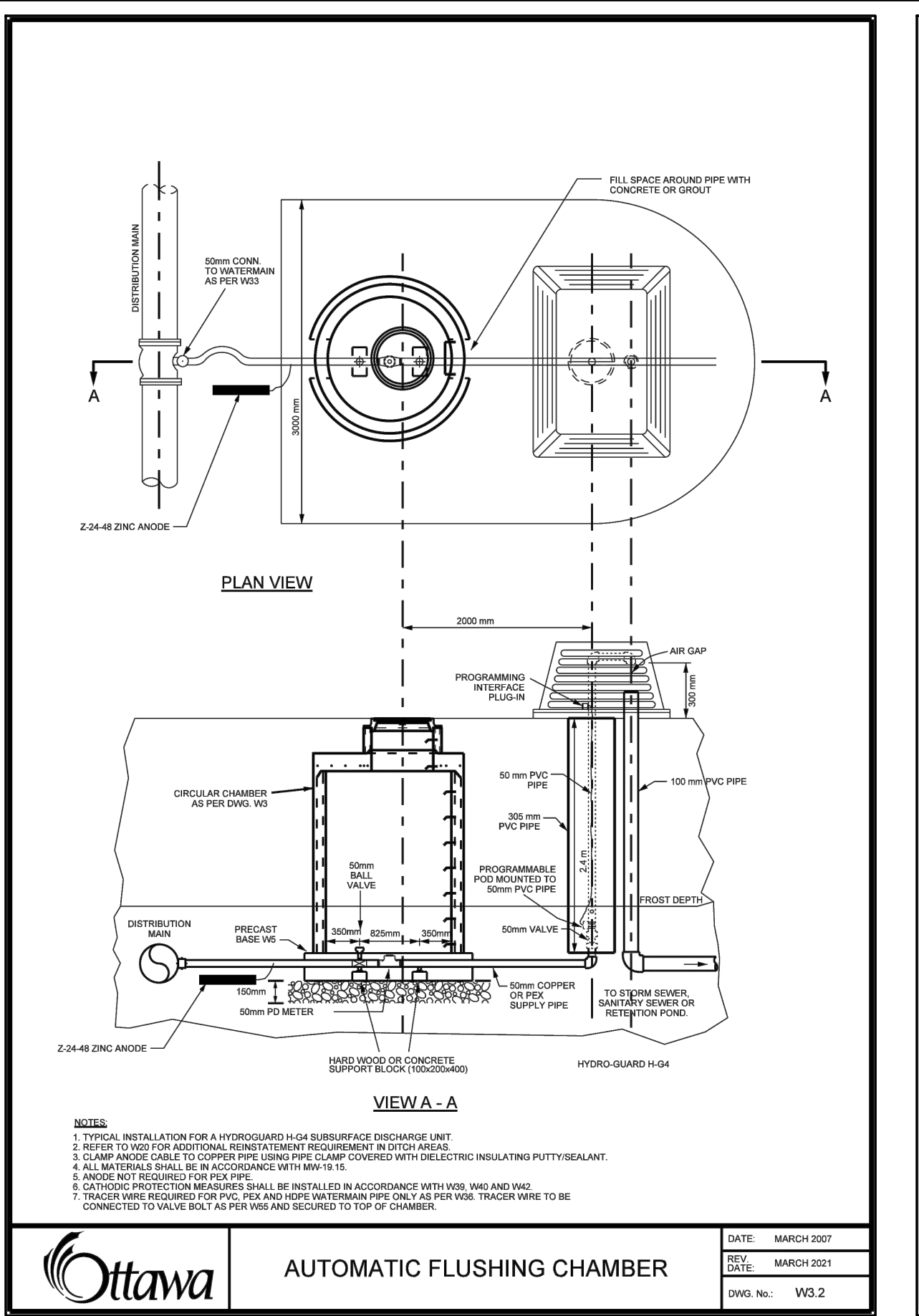
Sheet Name
DETAILS 2

Sheet Number
C017

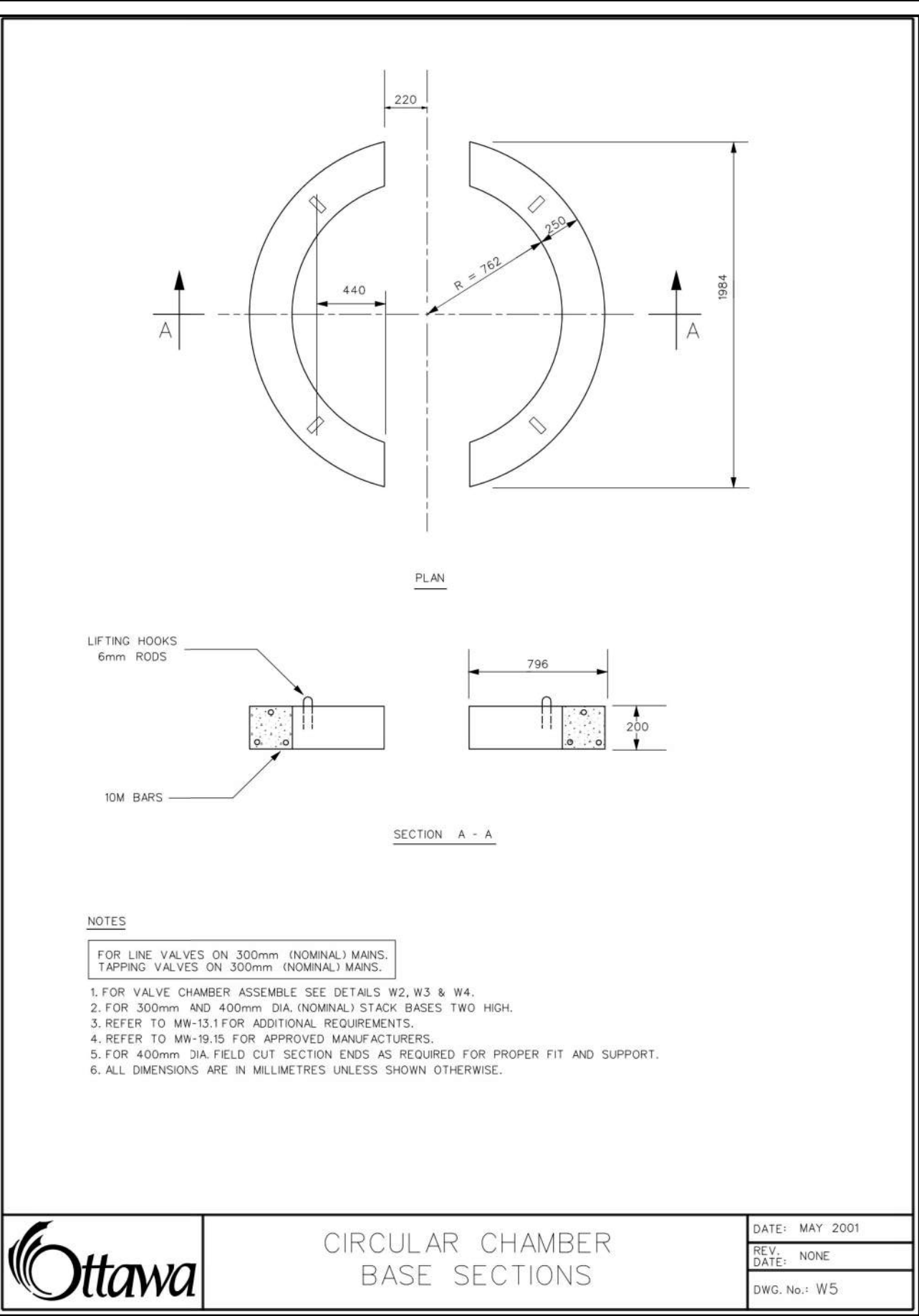
Project Status
STAGE 3



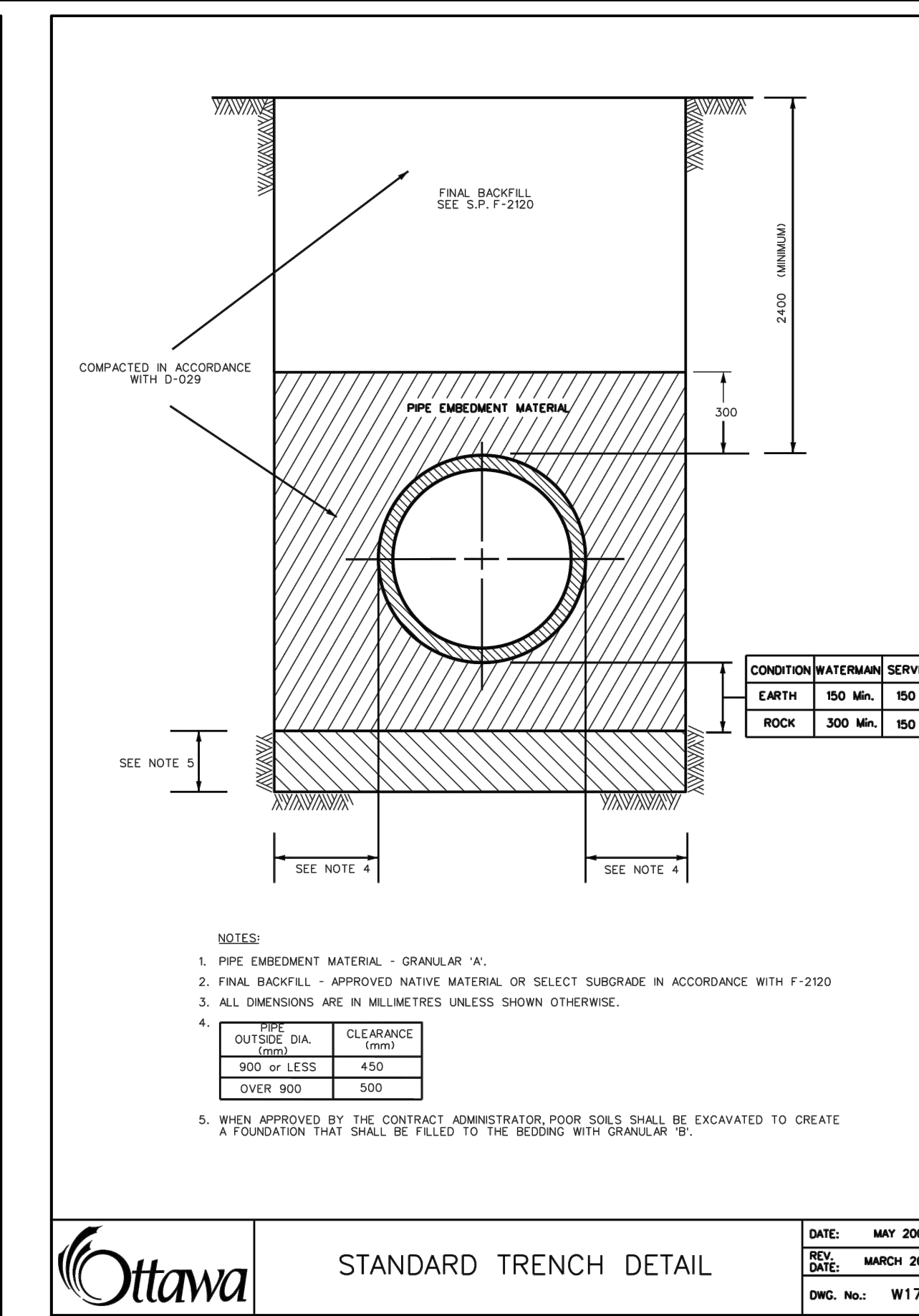
CIRCULAR CHAMBER BUTTERFLY VALVES
DATE: MAY 2007
SCALE: 1/8" = 1'-0"
DRAWN BY: WJG



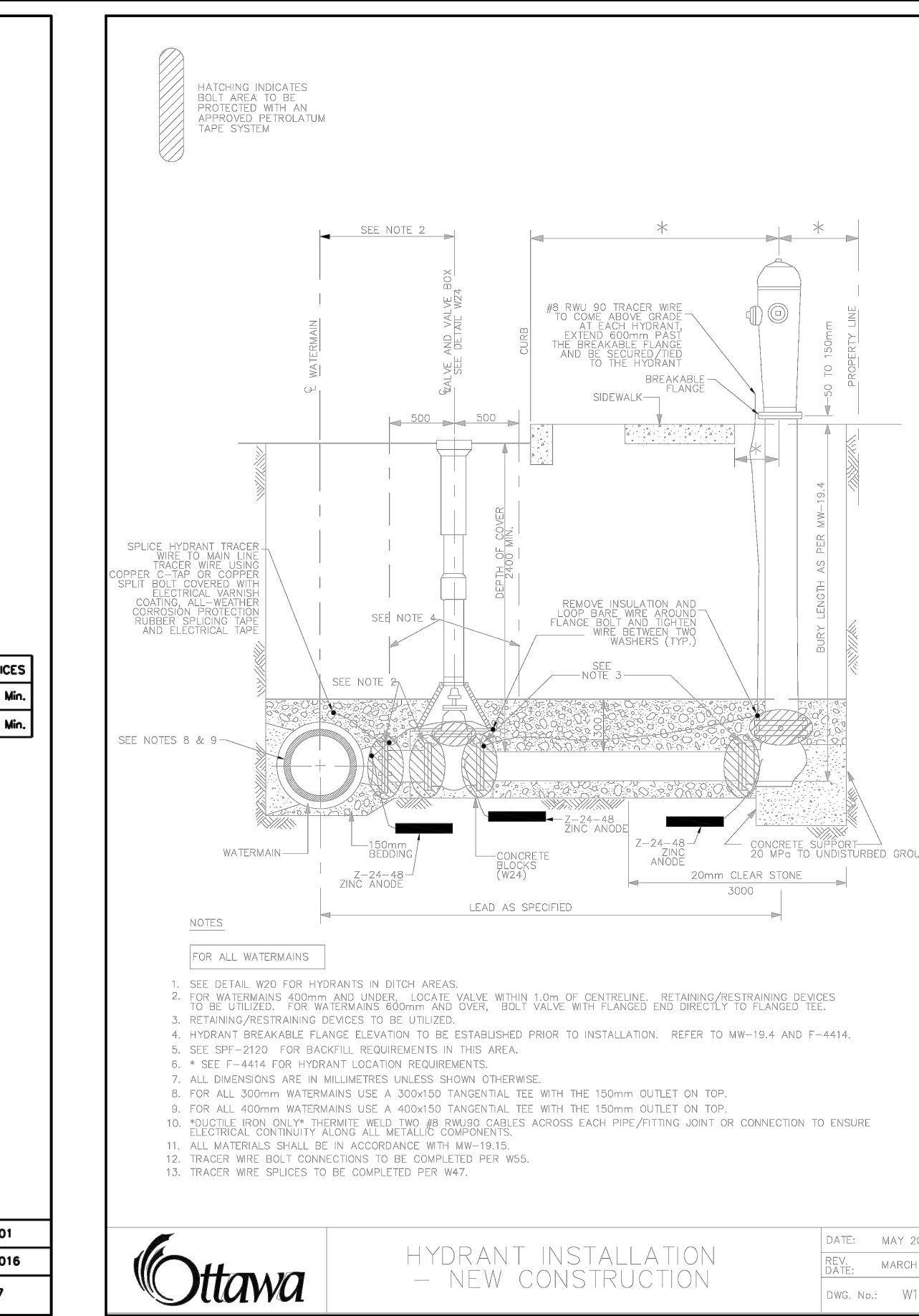
AUTOMATIC FLUSHING CHAMBER
DATE: MAY 2007
SCALE: 1/8" = 1'-0"
DRAWN BY: WJG



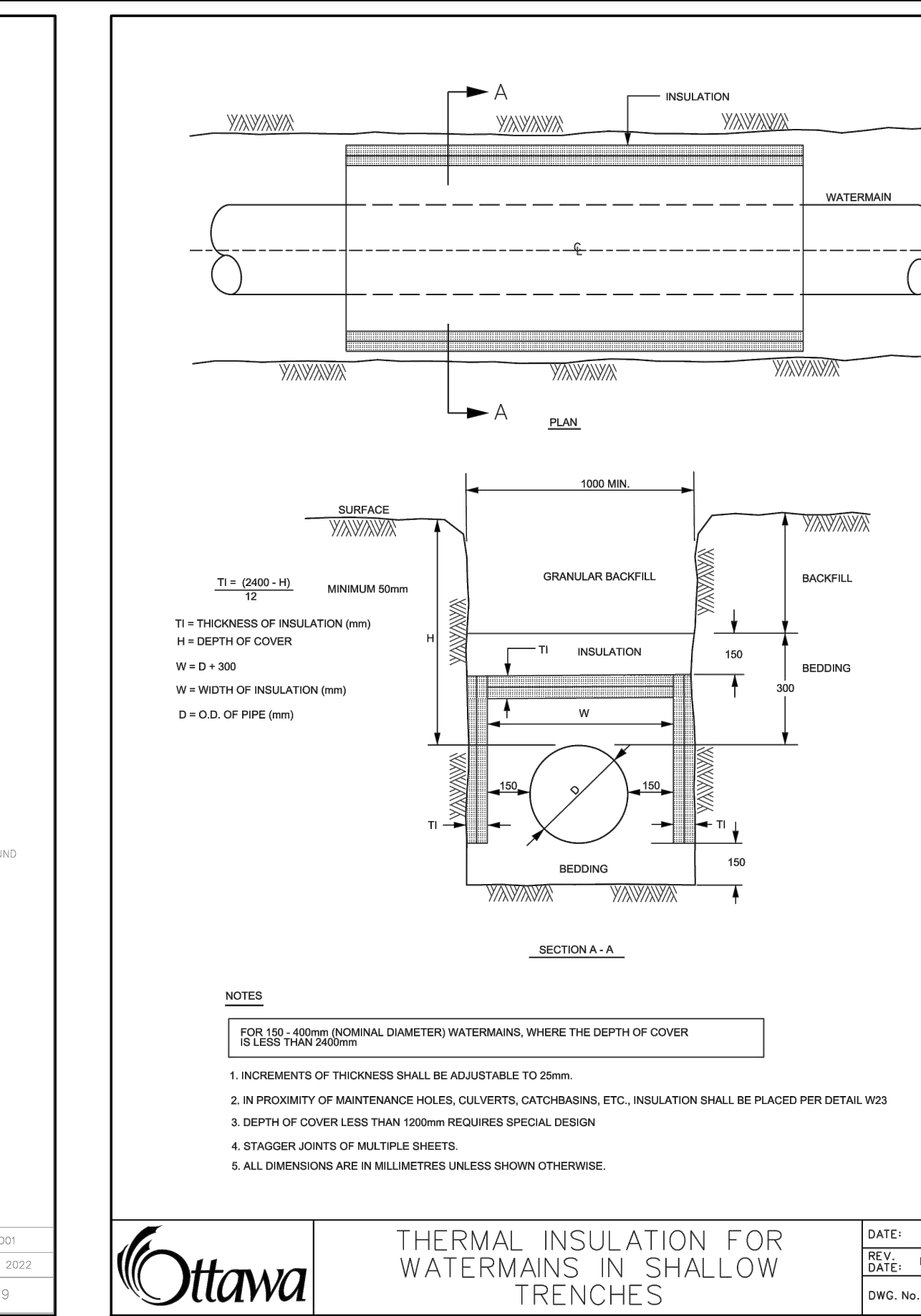
CIRCULAR CHAMBER BASE SECTIONS
DATE: MAY 2007
SCALE: NONE
DRAWN BY: WJG



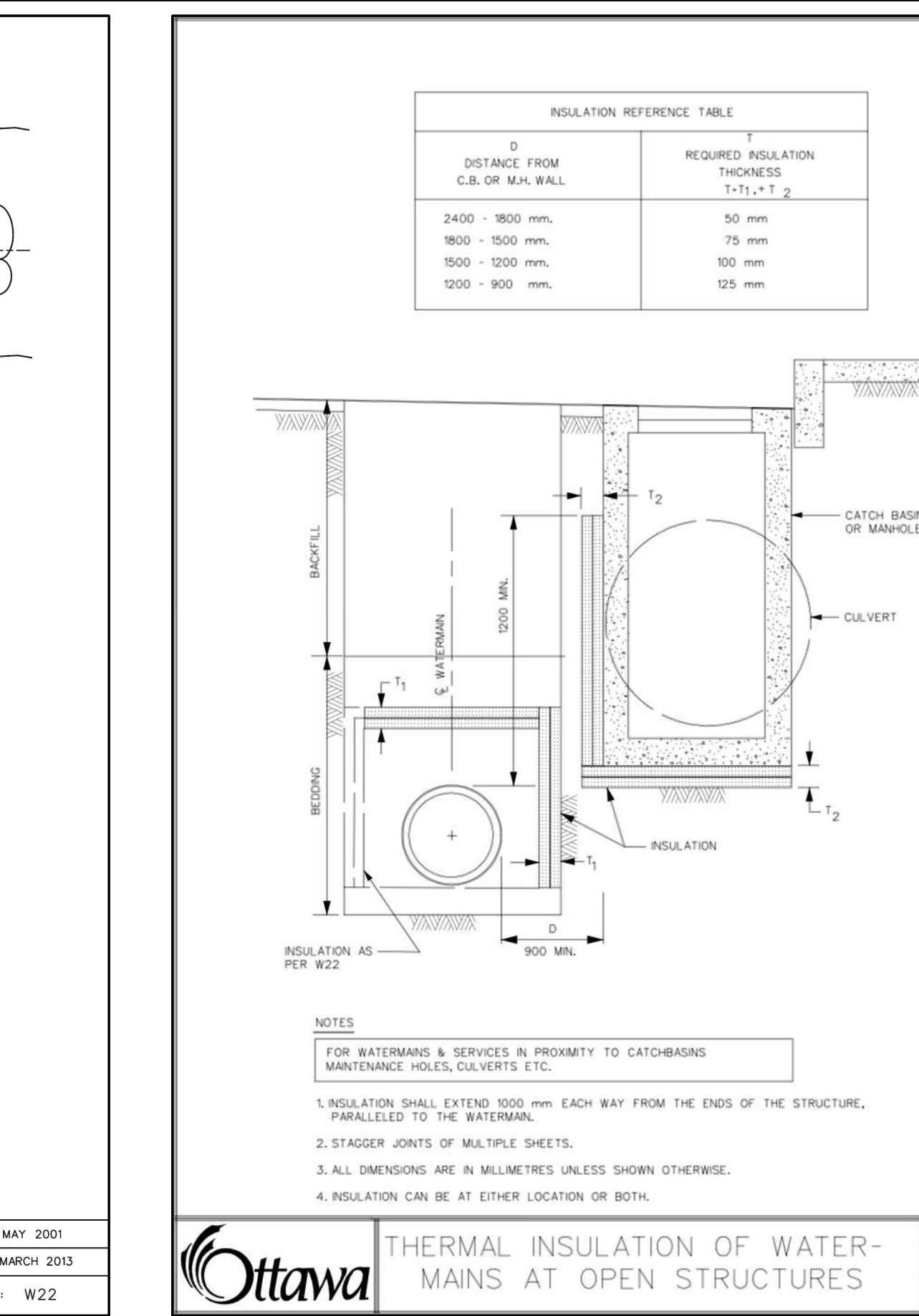
STANDARD TRENCH DETAIL
DATE: MAY 2007
SCALE: 1/8" = 1'-0"
DRAWN BY: WJG



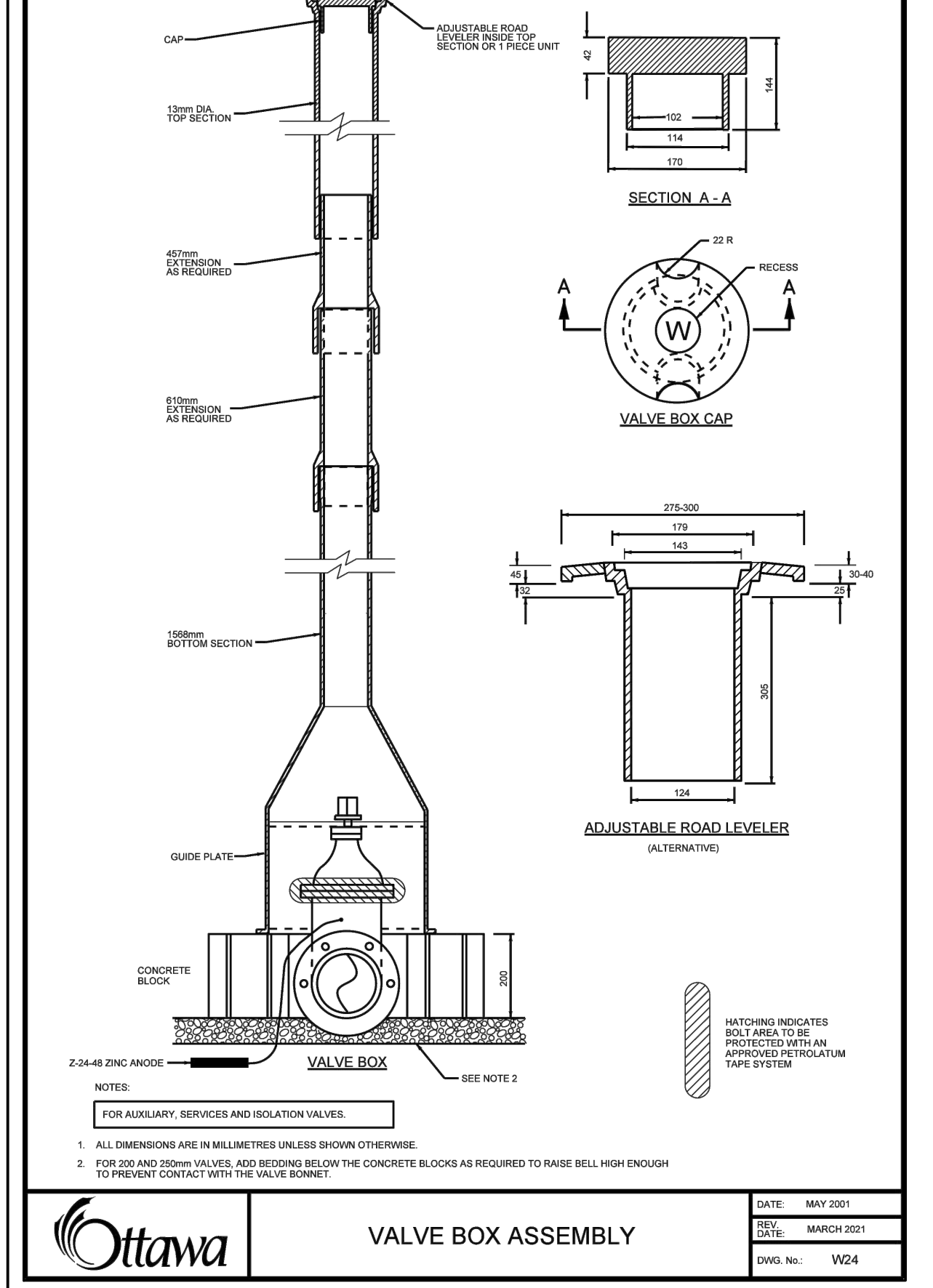
HYDRANT INSTALLATION - NEW CONSTRUCTION
DATE: MAY 2007
SCALE: 1/8" = 1'-0"
DRAWN BY: WJG



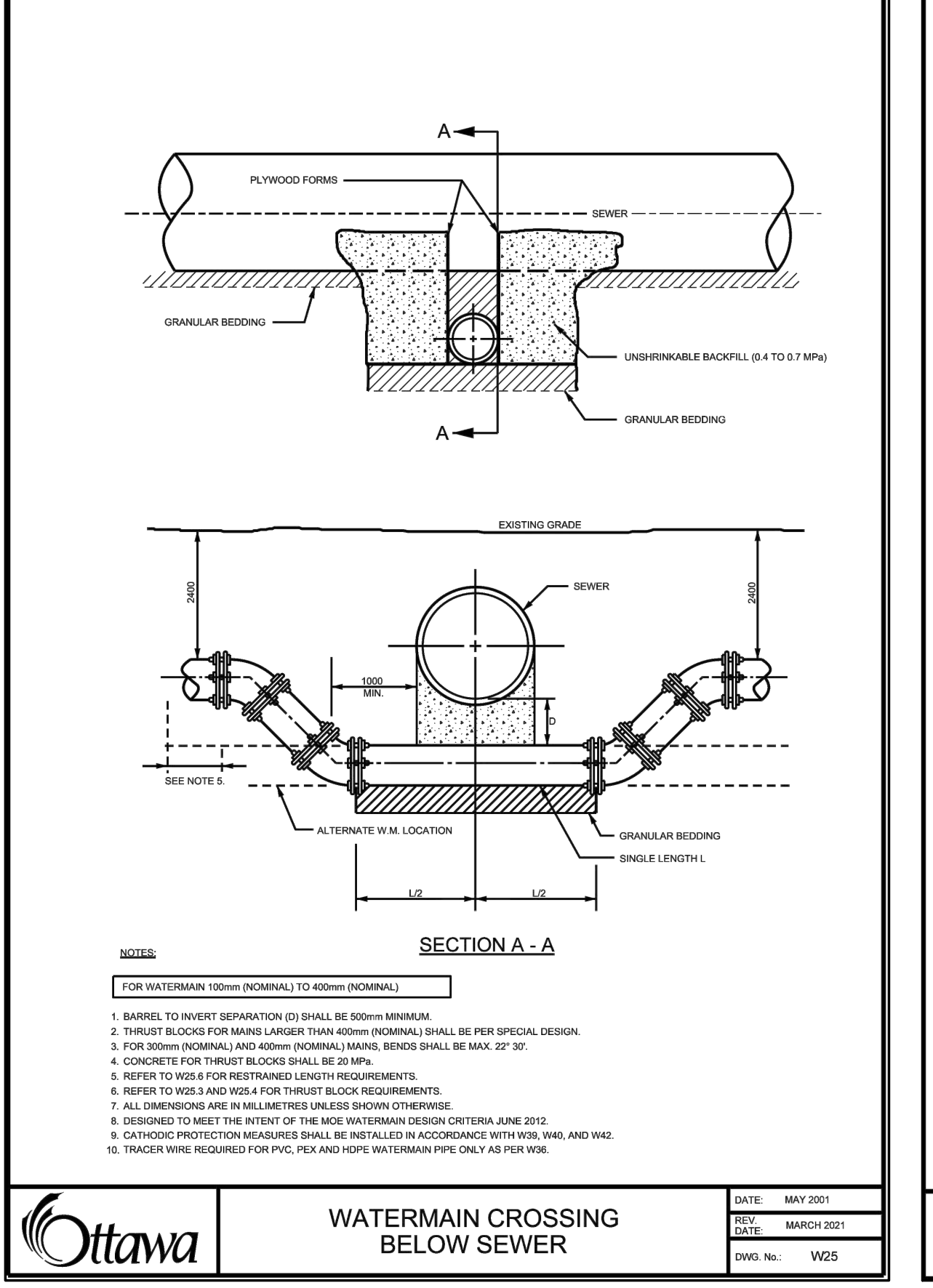
THERMAL INSULATION FOR WATERMAINS IN SHALLOW TRENCHES
DATE: MAY 2007
SCALE: 1/8" = 1'-0"
DRAWN BY: WJG



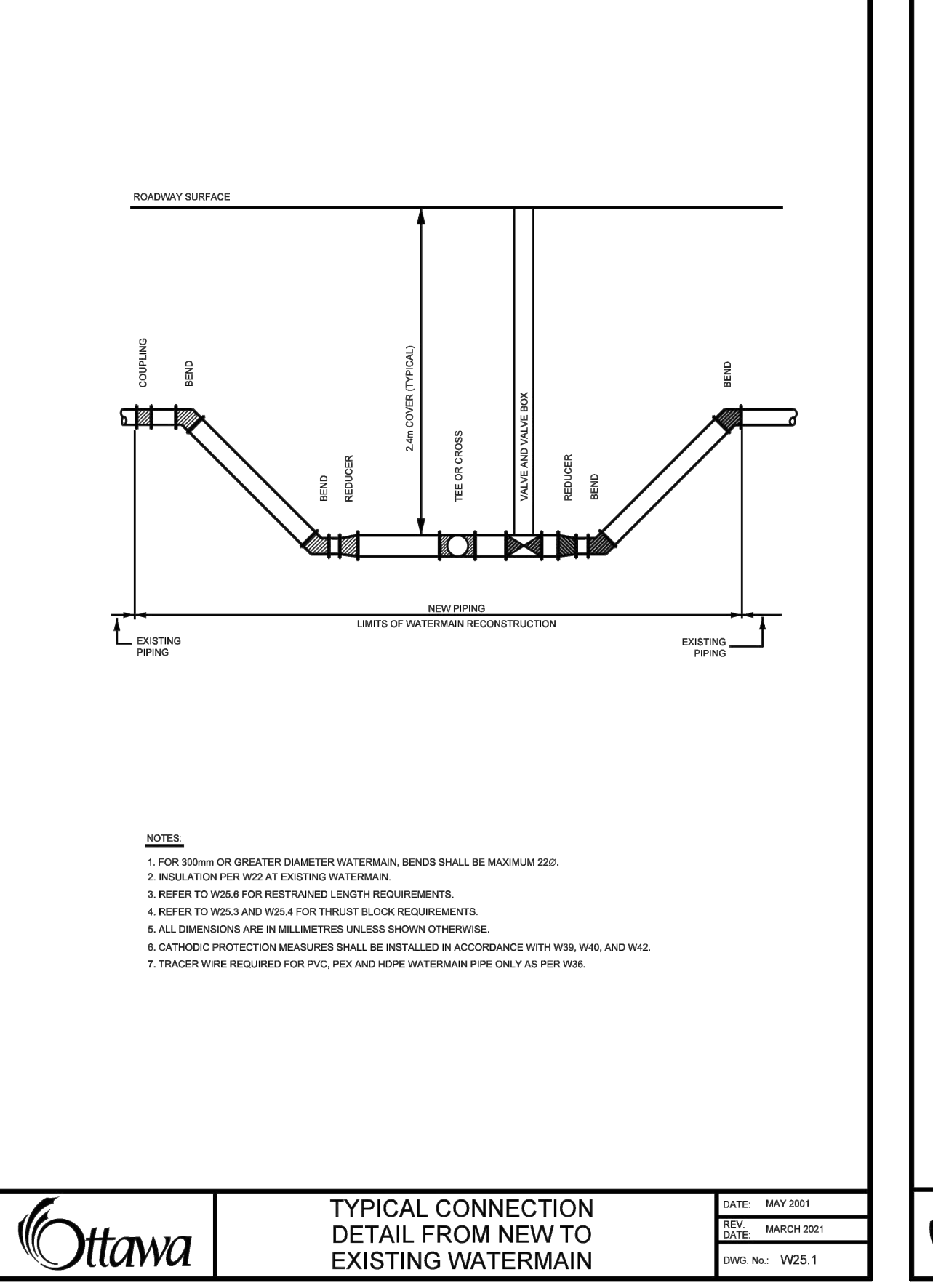
THERMAL INSULATION OF WATERMAINS AT OPEN STRUCTURES
DATE: MAY 2007
SCALE: 1/8" = 1'-0"
DRAWN BY: WJG



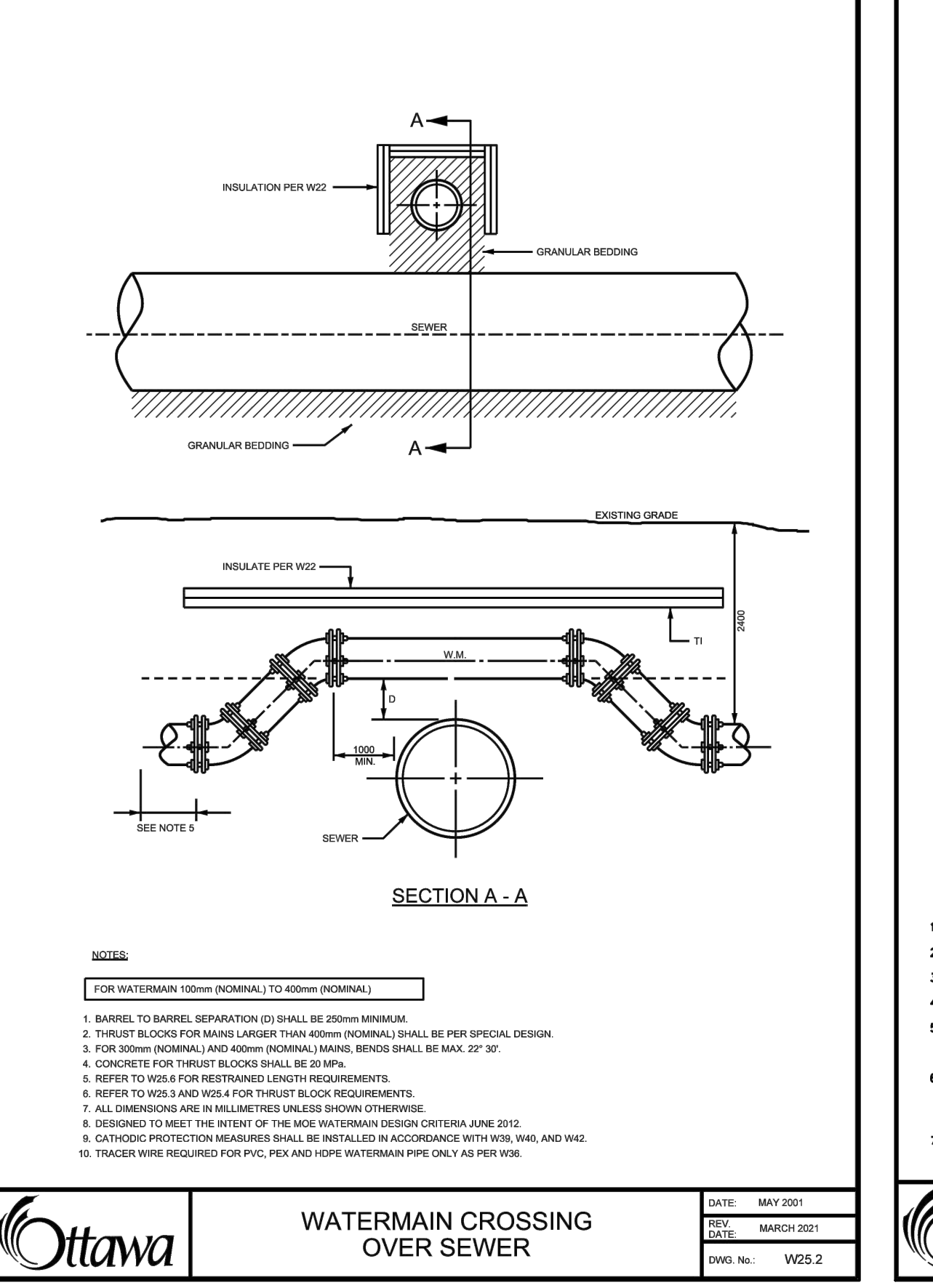
VALVE BOX ASSEMBLY
DATE: MAY 2007
SCALE: 1/8" = 1'-0"
DRAWN BY: WJG



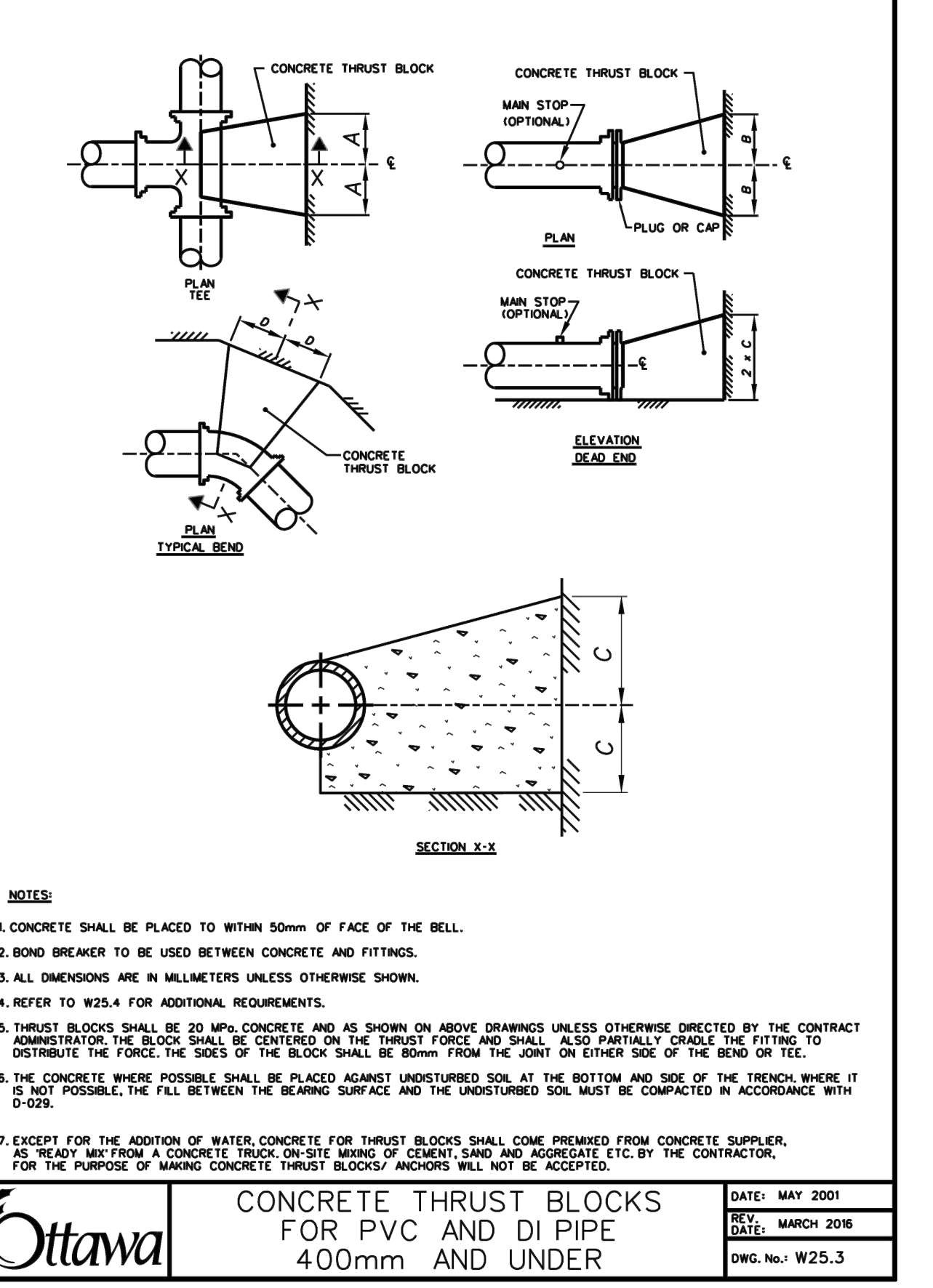
WATERMAIN CROSSING BELOW SEWER
DATE: MAY 2007
SCALE: 1/8" = 1'-0"
DRAWN BY: WJG



TYPICAL CONNECTION DETAIL FROM NEW TO EXISTING WATERMAIN
DATE: MAY 2007
SCALE: 1/8" = 1'-0"
DRAWN BY: WJG



WATERMAIN CROSSING OVER SEWER
DATE: MAY 2007
SCALE: 1/8" = 1'-0"
DRAWN BY: WJG



CONCRETE THRUST BLOCKS FOR PVC AND DI PIPE 400mm AND UNDER
DATE: MAY 2007
SCALE: 1/8" = 1'-0"
DRAWN BY: WJG

THRUST BLOCK DIMENSION TABLES FOR PVC AND DI PIPE 400mm AND UNDER

1. SOIL DESCRIPTION - VERY FINE SANDS, SANDY CLAYS, CLAYS
SOILS WITH TYPICAL BEARING STRENGTH OF 100 TO 150 KPa

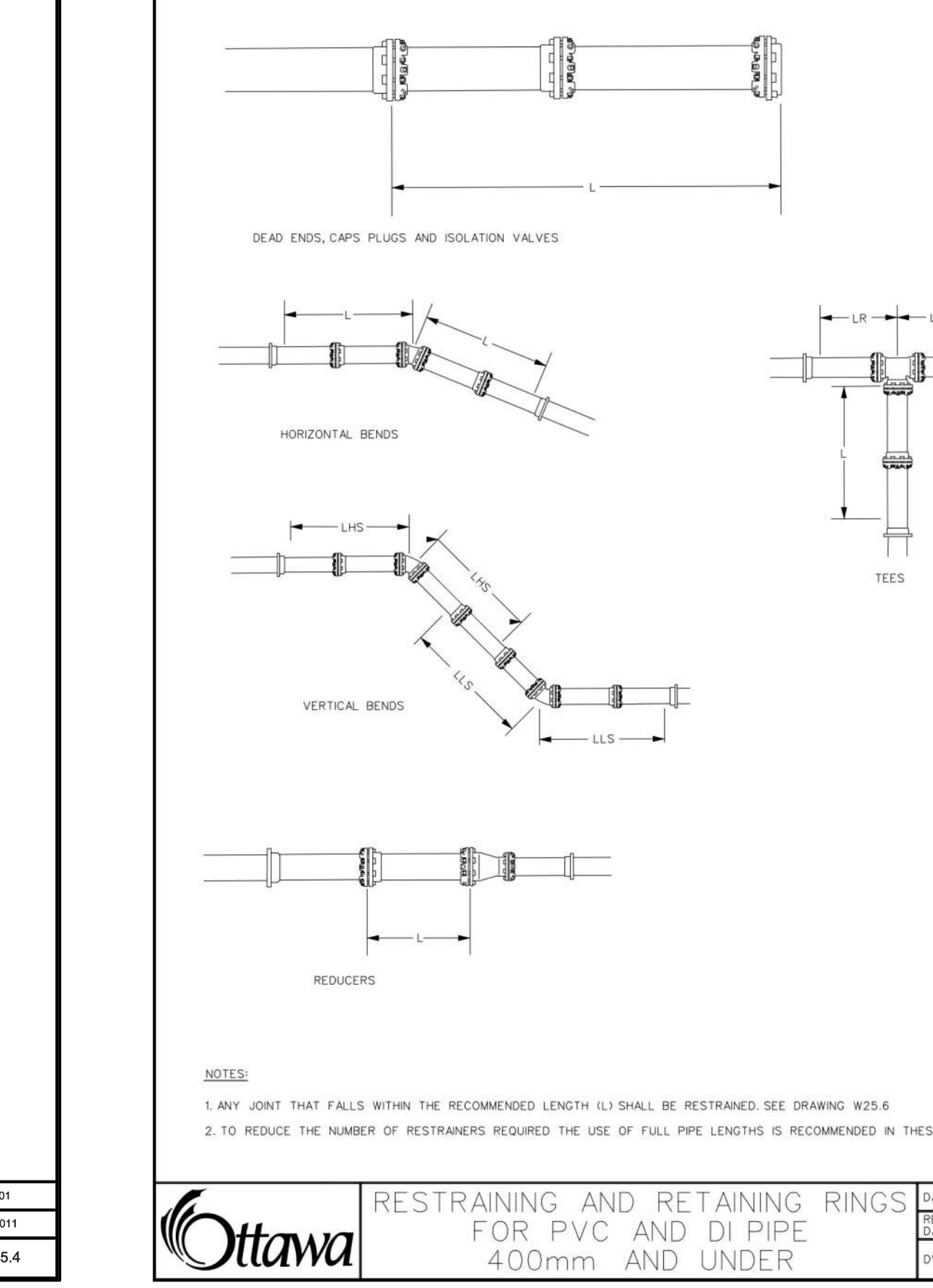
PIPE DIAMETER	DIMENSION NOTED ON W23.3			
	A	B	C	D
102	250	250	200	200
152	400	400	200	200
203	550	550	300	450
254	650	650	400	600
305	800	800	400	600
406	1000	1000	600	800

2. SOIL DESCRIPTION - SILTY SANDS OR SILTY CLAYS OR CLAYEY SAND GRAVEL
SOILS WITH TYPICAL BEARING STRENGTH OF 200 TO 250 KPa

PIPE DIAMETER	DIMENSION NOTED ON W23.3			
	A	B	C	D
102	250	250	150	150
152	250	250	200	200
203	300	300	200	270
254	400	400	300	300
305	500	500	300	400
406	750	750	400	600

3. SOIL DESCRIPTION - SANDS, GRAVELS AND GRAVEL-SAND MIXTURES, SILTY OR NO FINE
SOILS WITH TYPICAL BEARING STRENGTH OF 300 KPa AND OVER

PIPE DIAMETER	DIMENSION NOTED ON W23.3			
	A	B	C	D
102	150	150	150	150
152	200	200	200	200
203	250	250	200	250
254	400	400	250	270
305	450	450	300	300
406	600	600	300	400



RESTRAINING AND RETAINING RINGS FOR PVC AND DI PIPE 400mm AND UNDER
DATE: MAY 2007
SCALE: 1/8" = 1'-0"
DRAWN BY: WJG

TABLE OF RESTRAINED LENGTHS FOR DI AND PVC WATERMAIN PIPE IN STANDARD OPENINGS AND EMBEDMENTS IN SOLE OF EXISTING CONCRETE OF 100 PAV AND OTHER

REDUCERS	LARGER DIAMETER SIDE (TO BE RESTRAINED)				
	100mm	150mm	200mm	250mm	300mm
100mm	N/A	3	6	8	10
150mm	N/A	N/A	4	6	9
200mm	N/A	N/A	N/A	3	6
250mm	N/A	N/A	N/A	N/A	4
300mm	N/A	N/A	N/A	N/A	N/A
400mm	N/A	N/A	N/A	N/A	N/A

PIPE DIAMETER: 100mm, 150mm, 200mm, 250mm, 300mm, 400mm

DEAD ENDS, CAPS, PLUGS, VALVES

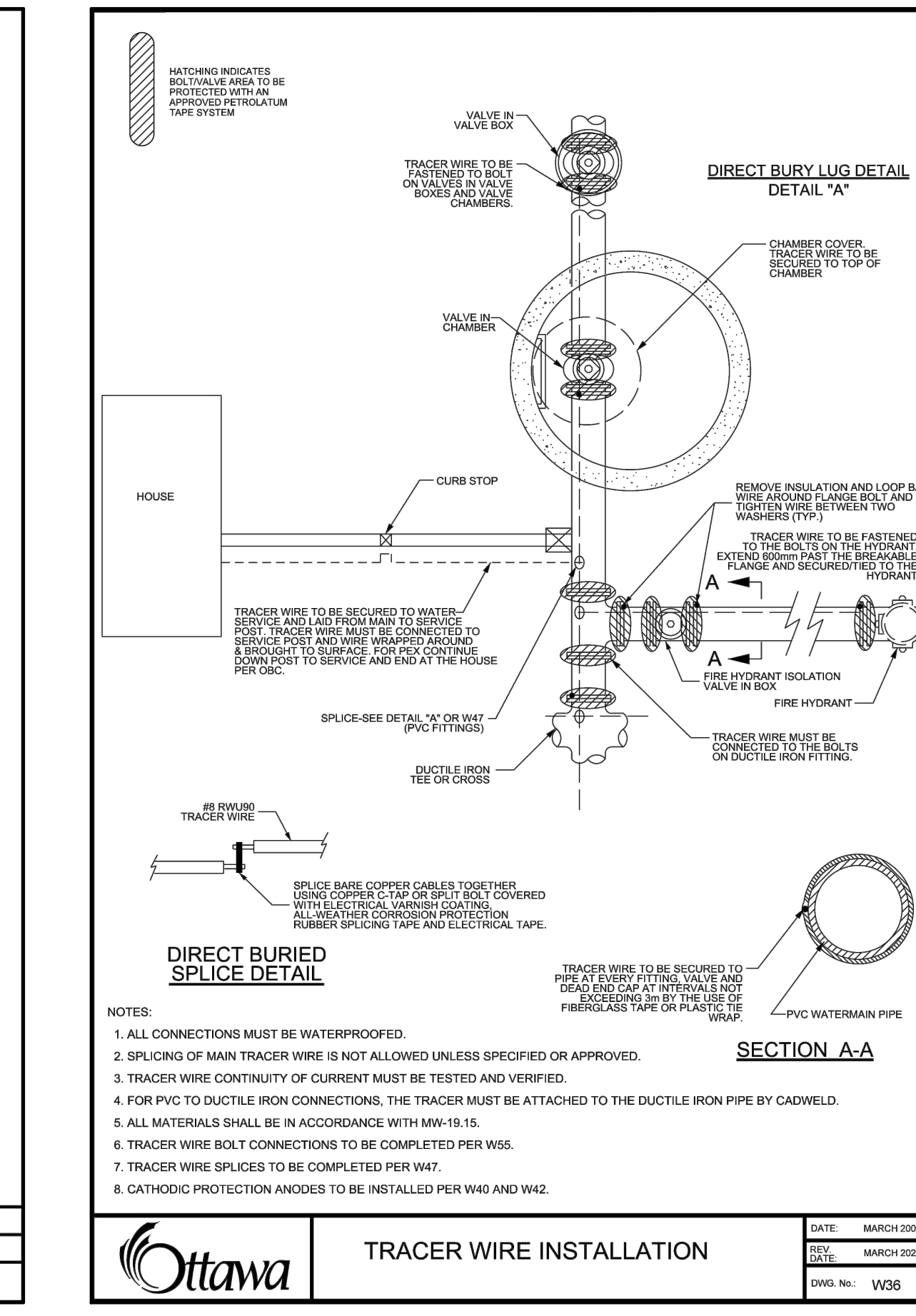
BEFORE CAPS AND OTHER SIDE OF VALVE IS	5	6	9	10	12	16
VERTICAL BENDS	3	4	5	6	7	9
LENGTH ALONG THE RUN - L	1.5	2	2.5	3	3.5	4.5

TRENCHES

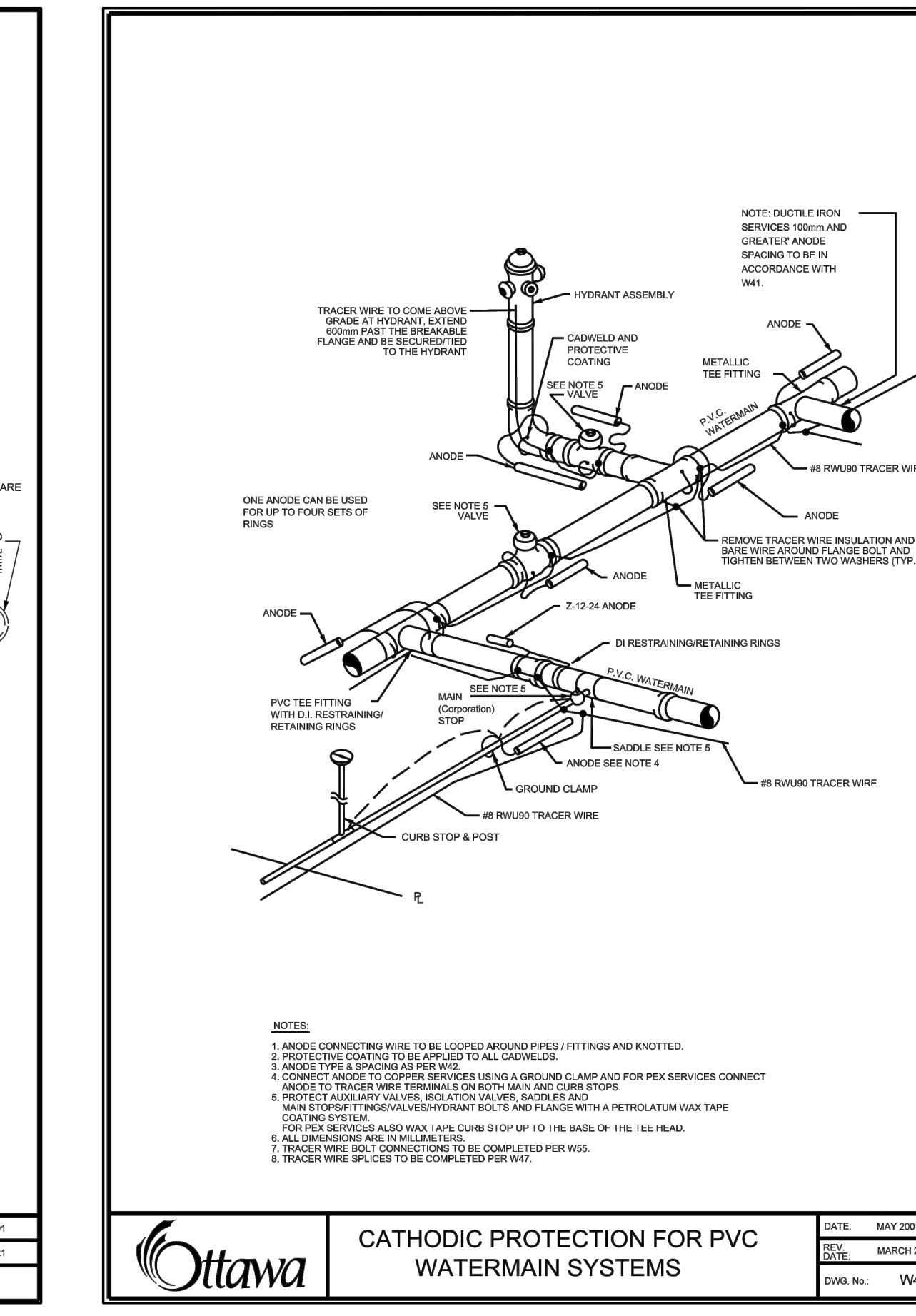
LENGTH ALONG THE BRANCH - L	1	1	1	1	1
LENGTH ALONG THE RUN - L	3	3	3	3	3

HORIZONTAL BENDS

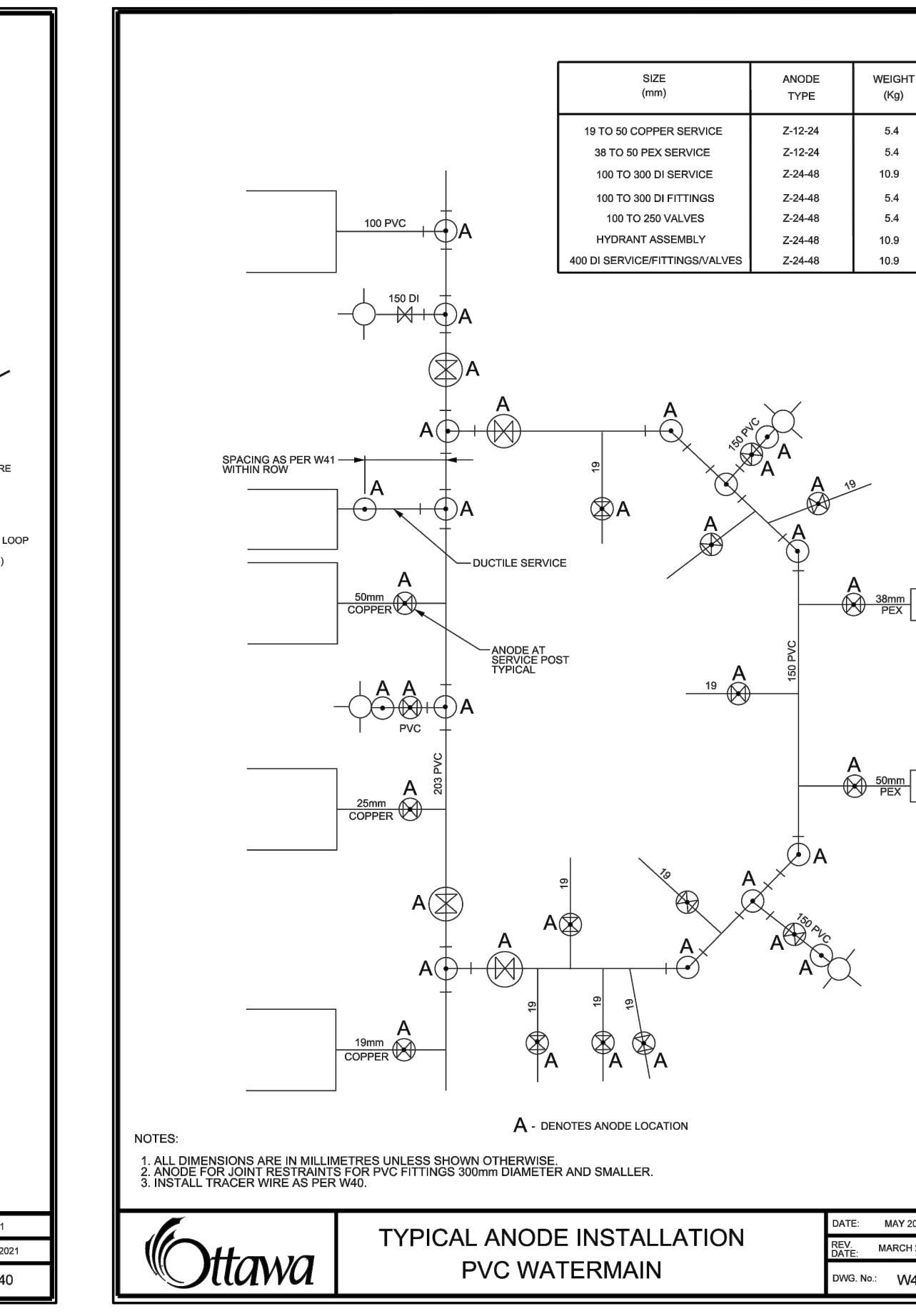
11.25, 22.5 AND 45 DEGREE BENDS	1	1.5	1.5	2	2	2.5
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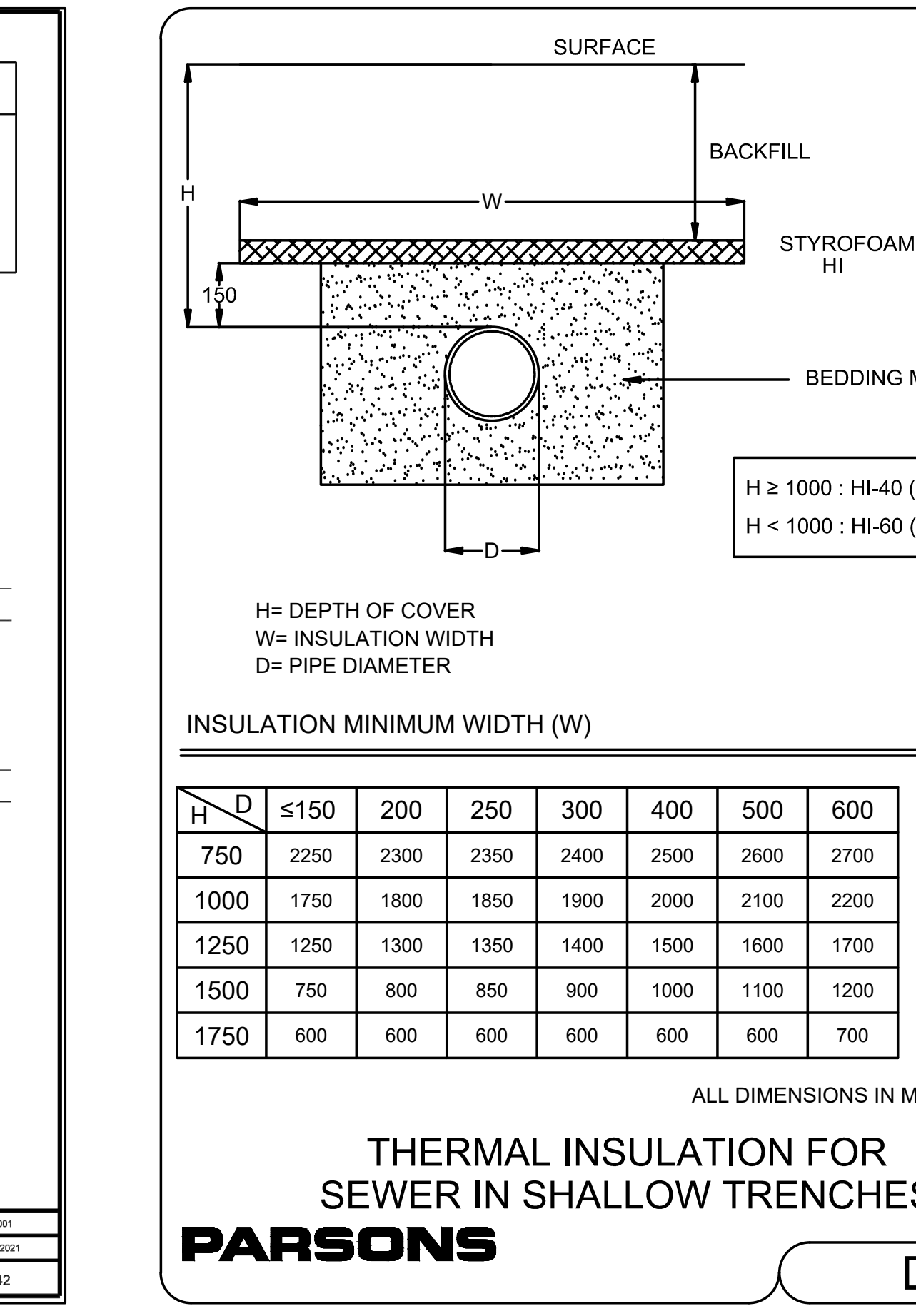
TRACER WIRE INSTALLATION
DATE: MAY 2007
SCALE: 1/8" = 1'-0"
DRAWN BY: WJG



CATHODIC PROTECTION FOR PVC WATERMAIN SYSTEMS
DATE: MAY 2007
SCALE: 1/8" = 1'-0"
DRAWN BY: WJG



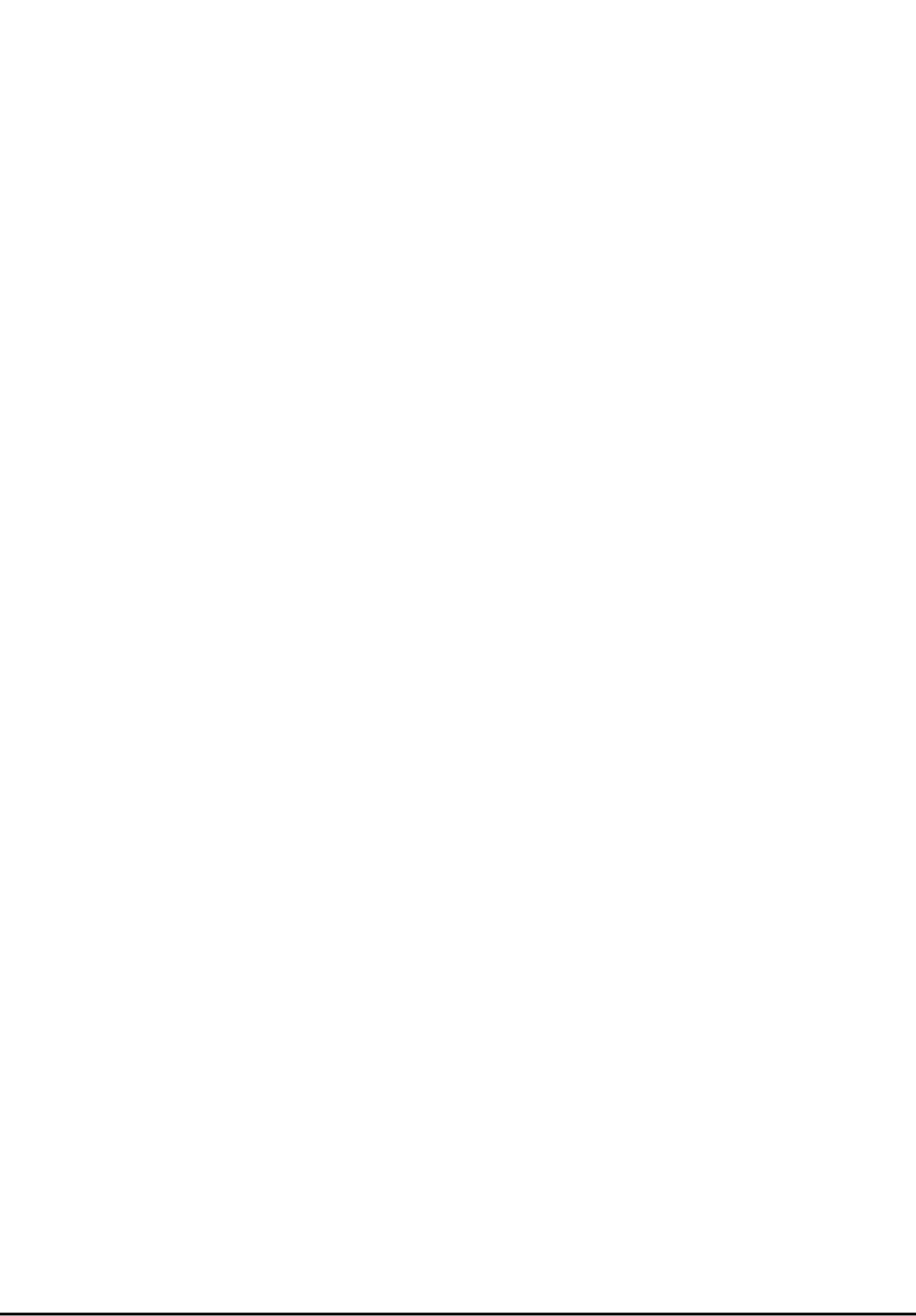
TYPICAL ANODE INSTALLATION PVC WATERMAIN
DATE: MAY 2007
SCALE: 1/8" = 1'-0"
DRAWN BY: WJG



THERMAL INSULATION FOR SEWER IN SHALLOW TRENCHES
DATE: MAY 2007
SCALE: 1/8" = 1'-0"
DRAWN BY: WJG

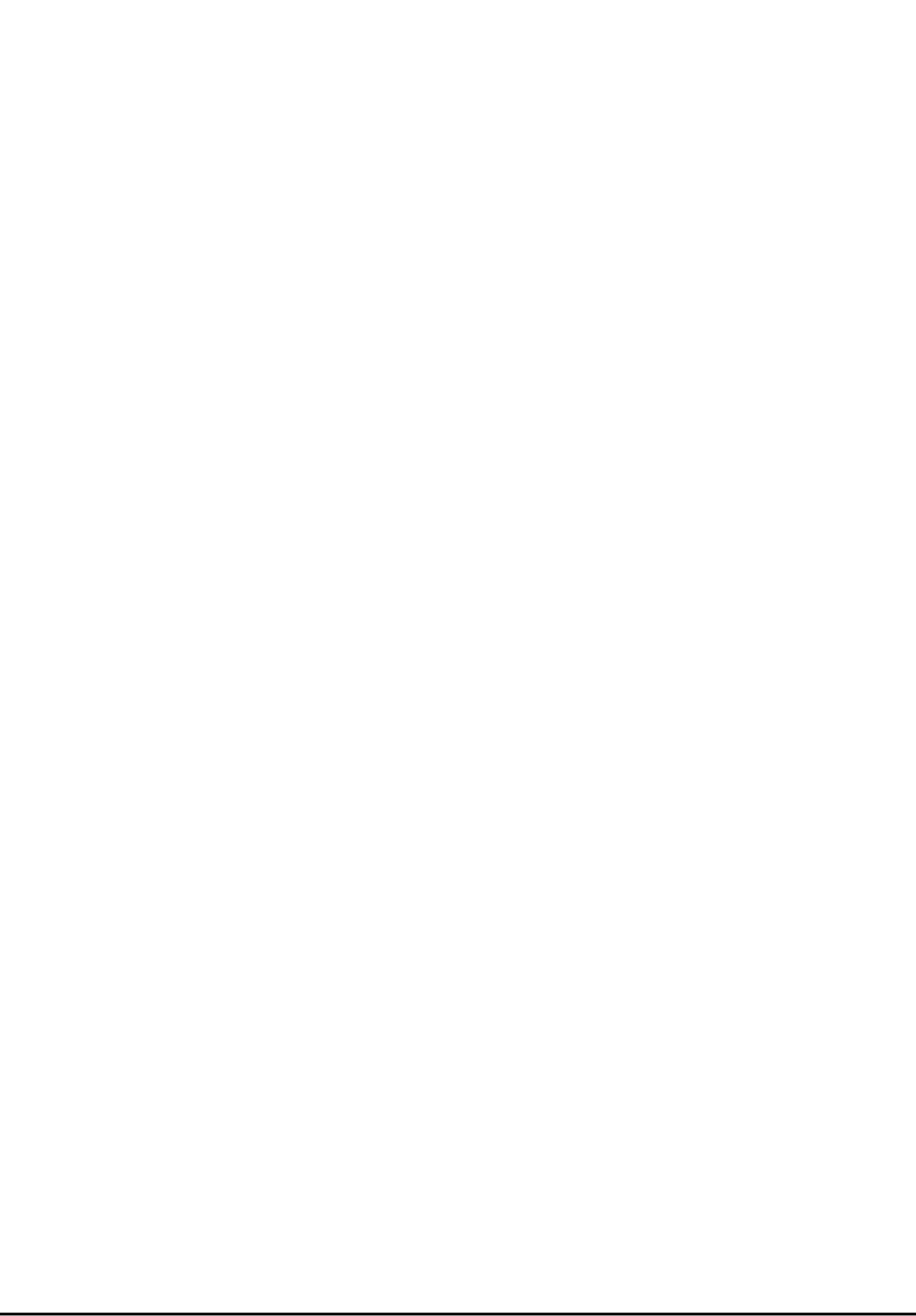
TABLES OF RESTRAINED LENGTHS FOR PVC AND DI PIPE 400mm AND UNDER

DATE: MAY 2007
SCALE: 1/8" = 1'-0"
DRAWN BY: WJG



THRUST BLOCK DIMENSION TABLES FOR PVC AND DI PIPE 400mm AND UNDER

DATE: MAY 2007
SCALE: 1/8" = 1'-0"
DRAWN BY: WJG



MARK DATE DESCRIPTION

01	2022-08-23	ISSUED FOR PRE CONSULTATION
02	2022-10-26	DRAFT FOR RFP 10
03	2022-11-30	ISSUED FOR SPC & FLUIDA - 1ST SUBMISSION
04	2022-12-02	ISSUED FOR 341.2
05	2023-02-24	ISSUED FOR RFP VERSION 1.0
06	2023-04-12	RE-ISSUED FOR SPC & FLUIDA

Project Manager M.F.
Project Designer J.E.G.
Project Architect J.M. Fairs
Landscape Architect E.M.P.
Civil Engineer PARSONS
Structural Engineer E.M.P.
Mechanical Engineer Smith + Anderson
Electrical Engineer Smith + Anderson
Plumbing Engineer Smith + Anderson
Interior Designer Colliers
Equipment Planner Colliers
Wardlines Colliers

Sheet Reviewer: PARSONS

Project Number 1033396
Original Issue 04/11/22
File Number 201-22-0168
Rev 189/1

PRELIMINARY
NOT FOR CONSTRUCTION

Sheet Name: **DETAILS 3**

Sheet Number: **C018**

Project Stage: **STAGE 3**

4/27/2022 1:20:18 PM: BM: 905/1033396_1.DWG: C:\P\2021\1033396\1033396_1.DWG: C:\P\2021\1033396\1033396_1.DWG