

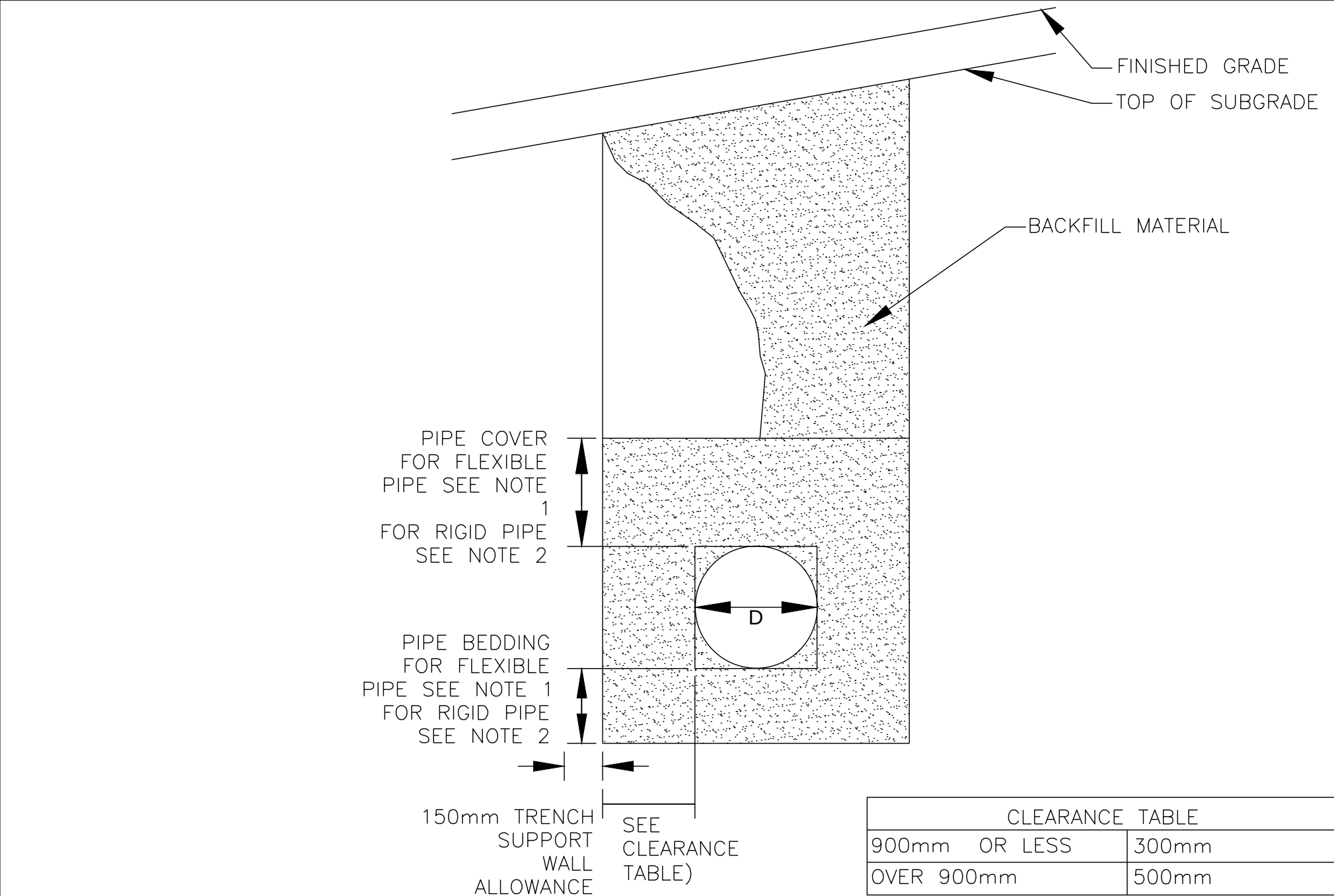
D	ISSUED FOR TENDER	2020/11/13	L.W.
C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
NO.	REVISION	DATE	INT.

GENERAL NOTES:

1. SURVEY PERFORMED BY RUSSELL TECHNICAL SERVICES. CONTRACTOR TO CONFIRM ALL CRITICAL INVERTS AND ELEVATIONS PRIOR TO CONSTRUCTION.
2. REFER TO GEOTECHNICAL INVESTIGATION "PROPOSED SEWER AND WATERMAIN REPLACEMENT, LAKESIDE ROAD" PREPARED BY SOIL-MAT ENGINEERS & CONSULTANTS LTD. FOR GEOTECHNICAL INFORMATION.
3. THE LOCATION OF THE EXISTING WATER SYSTEM, SANITARY, AND STORM SYSTEM, AS SHOWN ON THE DRAWINGS, ARE NOT NECESSARILY ACCURATE OR COMPLETE. CONTRACTOR SHALL CONFIRM ALL EXISTING DIMENSIONS, ELEVATIONS, AND LOCATIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER. CONTRACTOR TO ARRANGE FOR ALL ON SITE LOCATES WITH ALL UTILITIES PRIOR TO START OF WORK.
4. ALL WORK TO BE DONE IN ACCORDANCE WITH TOWN OF FORT ERIE, NIAGARA PENINSULA, AND ONTARIO PROVINCIAL SPECIFICATIONS AND STANDARD DRAWINGS LATEST EDITIONS.
5. CONTRACTOR TO ADHERE TO ALL OCCUPATIONAL HEALTH AND SAFETY REGULATIONS.
6. ALL WORKS TO BE PERFORMED IN ACCORDANCE WITH REQUIREMENTS OF THE ONTARIO MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PARKS
7. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM WORK AND TO COMPLY WITH ALL PERMIT REQUIREMENTS AND CONDITIONS.
8. CONTRACTOR SHALL NOTIFY THE TOWN REGARDING CONSTRUCTION SCHEDULE PRIOR TO COMMENCING CONSTRUCTION.
9. CONTRACTOR IS RESPONSIBLE FOR SETTING GRADES AND LAYOUT CONTROL TO THE SATISFACTION OF THE ENGINEER.
10. OVERHEAD UTILITY LINES EXIST ON THE SITE. CONTRACTOR TO COORDINATE WITH APPROPRIATE UTILITY TO DETERMINE BUFFER DISTANCE AND ARRANGE FOR SHIELDING OF LINES, IF REQUIRED.
11. CONTRACTOR TO PROVIDE ALL TRAFFIC CONTROL REQUIRED DURING THIS PROJECT IN ACCORDANCE WITH THE ONTARIO TRAFFIC MANUAL BOOK 7 - TEMPORARY CONDITIONS. TRAFFIC CONTROL IS REQUIRED CONTINUOUSLY WHILE WORK IS BEING CARRIED OUT. A MINIMUM OF ONE LANE OF TRAFFIC IS TO REMAIN OPEN DURING CONSTRUCTION. STREET CLOSURES WILL ONLY BE ENTERTAINED IF IN THE OPINION OF THE TOWN THEY ARE DEEMED NECESSARY.
12. STOP SIGNS, IF REMOVED TO FACILITATE CONSTRUCTION, ARE TO BE SALVAGED AND REINSTATED UPON COMPLETION. TEMPORARY STOP SIGNS WILL BE REQUIRED DURING CONSTRUCTION WHERE EXISTING STOP SIGNS ARE REMOVED.
13. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF TREES WITHIN THE CONSTRUCTION AREA. TREES ARE NOT TO BE REMOVED WITHOUT PERMISSION OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ANY TREE PRUNING THAT MAY BE NECESSARY.
14. UNLESS REQUIRED BY CONTRACT DOCUMENTS, DO NOT ENCROACH ON ADJACENT PRIVATE PROPERTY. CONTRACTOR SHALL ASSUME ALL COSTS FOR REINSTATEMENT.
15. ANY SIDEWALK PANELS PARTIALLY REMOVED OR UNDERMINED MUST BE COMPLETELY REMOVED AND REPLACED. DO NOT CUT EXISTING PANELS IN HALF AND REPLACE HALF PANELS.
16. ANY PORTIONS OF THE DECOMMISSIONED WATERMAINS, SANITARY SEWER, OR STORM SEWER THAT ARE NOT REMOVED SHALL BE CAPPED AND ABANDONED AND FILLED WITH NON-SHRINK GROUT TO THE SATISFACTION OF THE ENGINEER.
17. ALL HORIZONTAL / VERTICAL NON PVC FITTINGS USED WITH PVC PIPE, SHALL BE WRAPPED WITH AN APPROVED ANTI-CORROSION TAPE SUCH AS "DENSO" OR APPROVED EQUAL.
18. ALL WATERMAIN FITTINGS (INCLUDING TEES, BENDS, AND CAPS) ARE TO BE INSTALLED WITH MECHANICAL JOINT RESTRAINTS. MECHANICAL RESTRAINTS (INCLUDING BOLTS) ARE TO BE COMPLETELY WRAPPED IN AN APPROVED ANTI-CORROSION TAPE ("DENSO" OR APPROVED EQUAL). REFER TO RESTRAINT LENGTH TABLE ON D-03 FOR REQUIRED FITTING RESTRAINT LENGTHS.
19. WATERMAIN AND SERVICE CONNECTIONS SHALL BE EQUIPPED WITH A TOWN APPROVED TRACE WIRE SYSTEM, REFERS TO NPSCD D14 TRACER WIRE.
20. TRENCH WIDTH, BEDDING, AND COVER SHALL BE AS PER DETAILS ON G-01 FOR ALL PIPE INSTALLATION. BACKFILL SHALL BE GRANULAR 'A' OR APPROVED NATIVE BACKFILL.
21. WHERE SANITARY INSPECTION TEES ARE NOT PRESENT OR WHEN SANITARY LATERALS ARE REPLACED, NEW INSPECTION TEES SHALL BE PROVIDED (SEE G-01).
22. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING WATER SERVICES AND SANITARY CLEANOUTS WHERE SERVICES ARE NOT SHOWN ON THE DRAWINGS
23. CONTRACTOR TO CONFIRM LATERAL CONNECTIVITY IN THE FIELD PRIOR TO CONNECTING NEW LATERALS WHERE MULTIPLE LATERALS ARE FOUND

EROSION & SEDIMENT CONTROL NOTES:

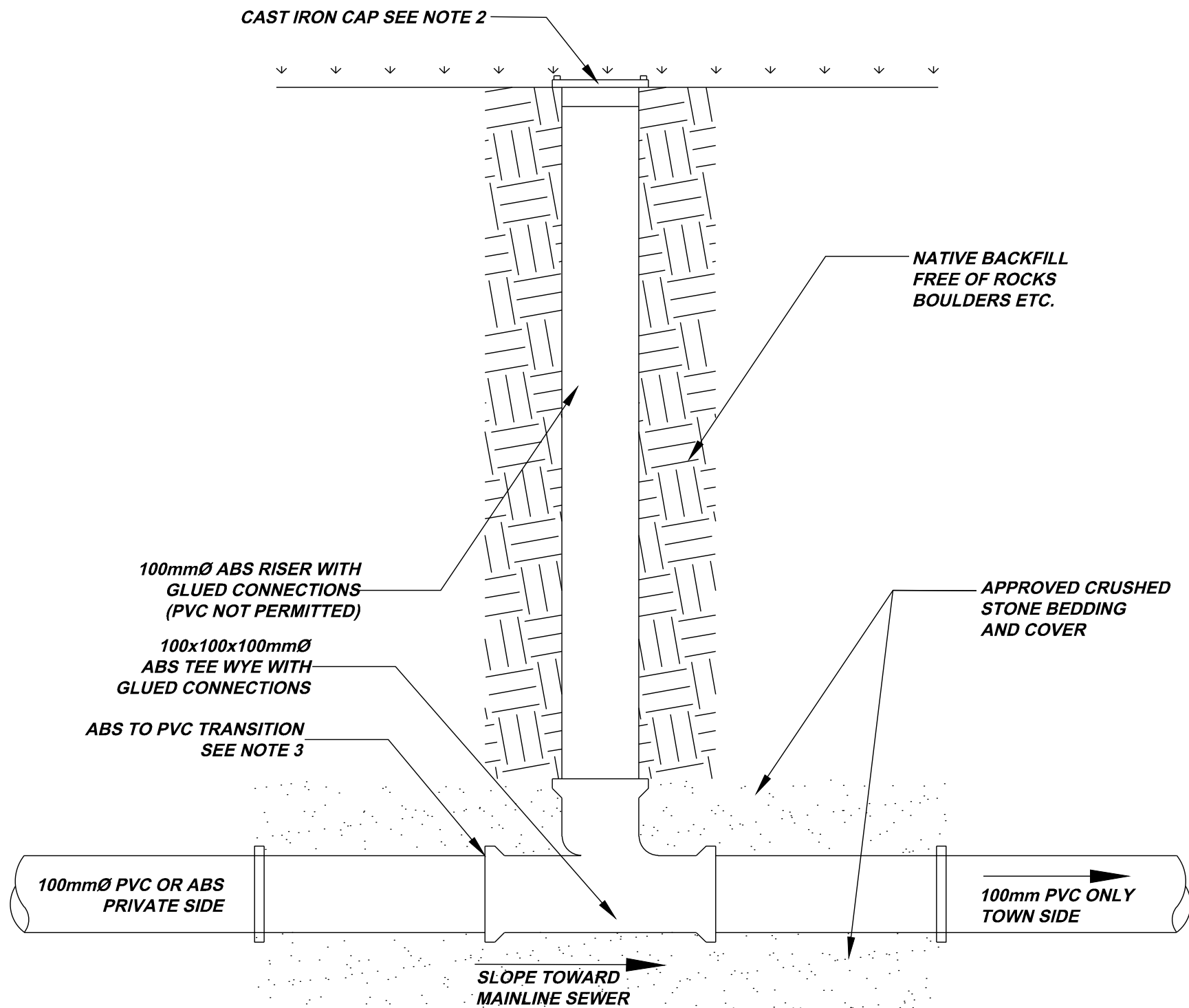
1. EROSION AND SEDIMENT CONTROLS SHALL BE IMPLEMENTED PRIOR TO COMMENCEMENT OF WORK AND MUST BE MAINTAINED BY THE CONTRACTOR DURING ALL CONSTRUCTION PHASES. CONSTRUCTION SHALL COMMENCE ONLY AFTER ALL EROSION AND SEDIMENT CONTROL MEASURES ARE FULLY IN PLACE ON SITE TO THE SATISFACTION OF THE ENGINEER.
2. ALL CONSTRUCTION DEBRIS AND EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE AND TRANSPORTED TO AN ACCEPTABLE DISPOSAL SITE ARRANGED BY THE CONTRACTOR IN ACCORDANCE WITH APPROVAL AUTHORITIES.
3. ALL STORAGE ACTIVITIES AND MAINTENANCE PROCEDURES SHALL BE CONDUCTED AWAY FROM DRAINAGE FEATURES, INCLUDING DITCHES, AS TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE AND CONCRETE OR OTHER DELETERIOUS SUBSTANCE INTO THESE DRAINAGE FEATURES.
4. STORAGE OF HEAVY MACHINERY, FUELS, PORTABLE WASHROOMS AND OTHER SUCH HAZARDOUS MATERIAL SHALL BE CONSTRAINED OUTSIDE DRAINAGE FEATURES.
5. VEHICLES/EQUIPMENT SHALL BE INSPECTED FOR FLUID LEAKS PRIOR TO ARRIVING ONSITE.
6. THE CONTRACTOR IS TO PROVIDE AN EMERGENCY SPILL KIT ON SITE IN THE EVENT OF FLUID LEAKS OR SPILLS.



EXCAVATION TRENCH WIDTH CALCULATION FOR PAYMENT =
 $2 \times (\text{TRENCH WALL SUPPORT ALLOWANCE} + \text{CLEARANCE}) + \text{PIPE } \phi D$

- NOTES:
1. FLEXIBLE PIPE EMBEDMENT OR BEDDING, COVER, AND BACKFILL SHALL BE ACCORDING TO OPSD 802.010, 802.013, 802.020, AND 802.023
 2. RIGID PIPE EMBEDMENT OR BEDDING, COVER, AND BACKFILL SHALL BE ACCORDING TO OPSD 802.030, 802.031, 802.032, AND 802.033

D = OUTSIDE DIAMETER OF PIPE OR
OUTSIDE DIMENSION OF STRUCTURE



- NOTES:
1. MINIMUM SLOPE FOR LATERAL IS 2%
 2. CROWLE CAST IRON CAP NO. 271 OR APPROVED EQUIVALENT
 3. ABS TO PVC TRANSITION CAN BE ON THE TEE-WYE OR AS A REGULAR COUPLING OFFSET FROM THE TEE-WYE

SANITARY SERVICE INSPECTION TEE
N.T.S

D	ISSUED FOR TENDER	2020/11/13	LW
C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	LW
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	LW
A	ISSUED FOR PRELIMINARY REVIEW	2019/04/08	SJO
NO.	REVISION	DATE	INIT.

NOTES/LEGEND:

1. THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWER AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
2. PROPERTY LINES WERE PLOTTED USING REGISTERED PLANS AND BARS LOCATED IN THE FIELD. TO VERIFY THE ACCURACY OF THESE PROPERTY LINES, A LEGAL SURVEY SHOULD BE PERFORMED PRIOR TO CONSTRUCTION.
3. CURB STOPS AND LATERALS ARE APPROXIMATE LOCATIONS ONLY. ACTUAL LOCATION TO BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION.

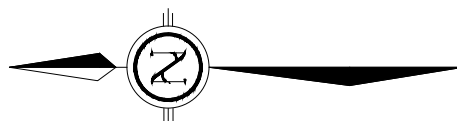
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DESIGN
LW
CHECKED BY
RW
APPROVED BY
AYB



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St Catharines Ontario L2W 1A1 Canada
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LAKESIDE ROAD
ROAD RECONSTRUCTION
FROM PHILLIPS STREET TO DOMINION ROAD
TOWN OF FORT ERIE
GENERAL NOTES AND DETAILS

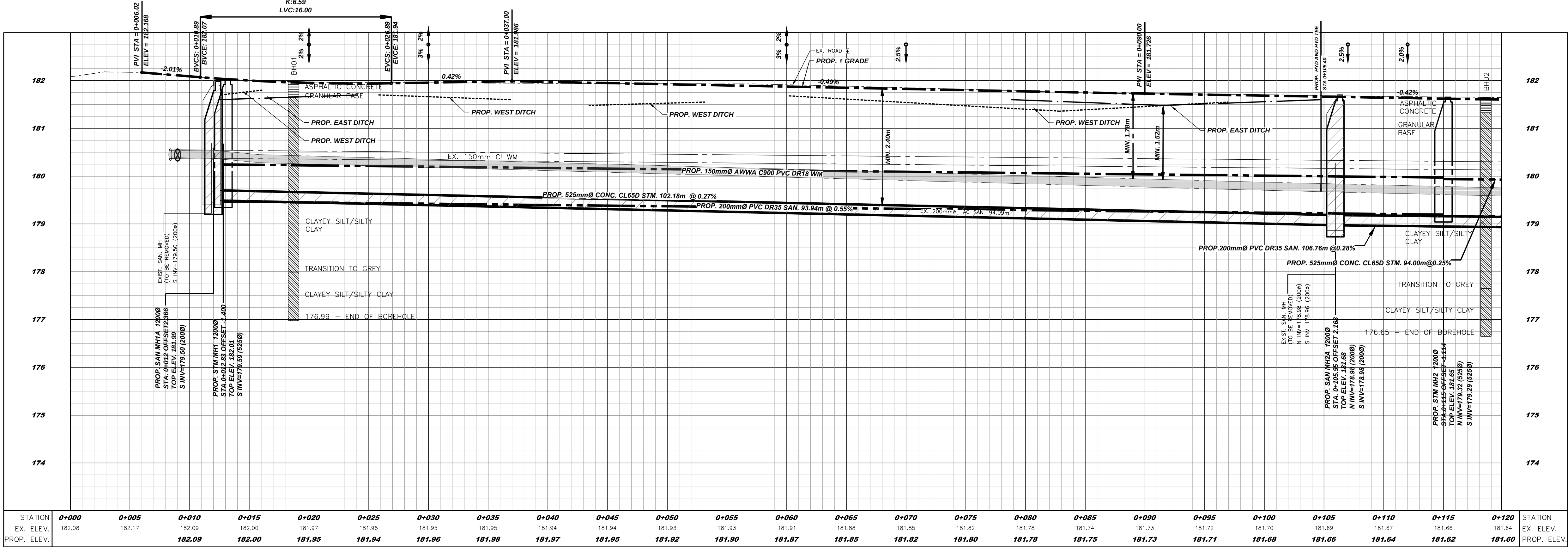
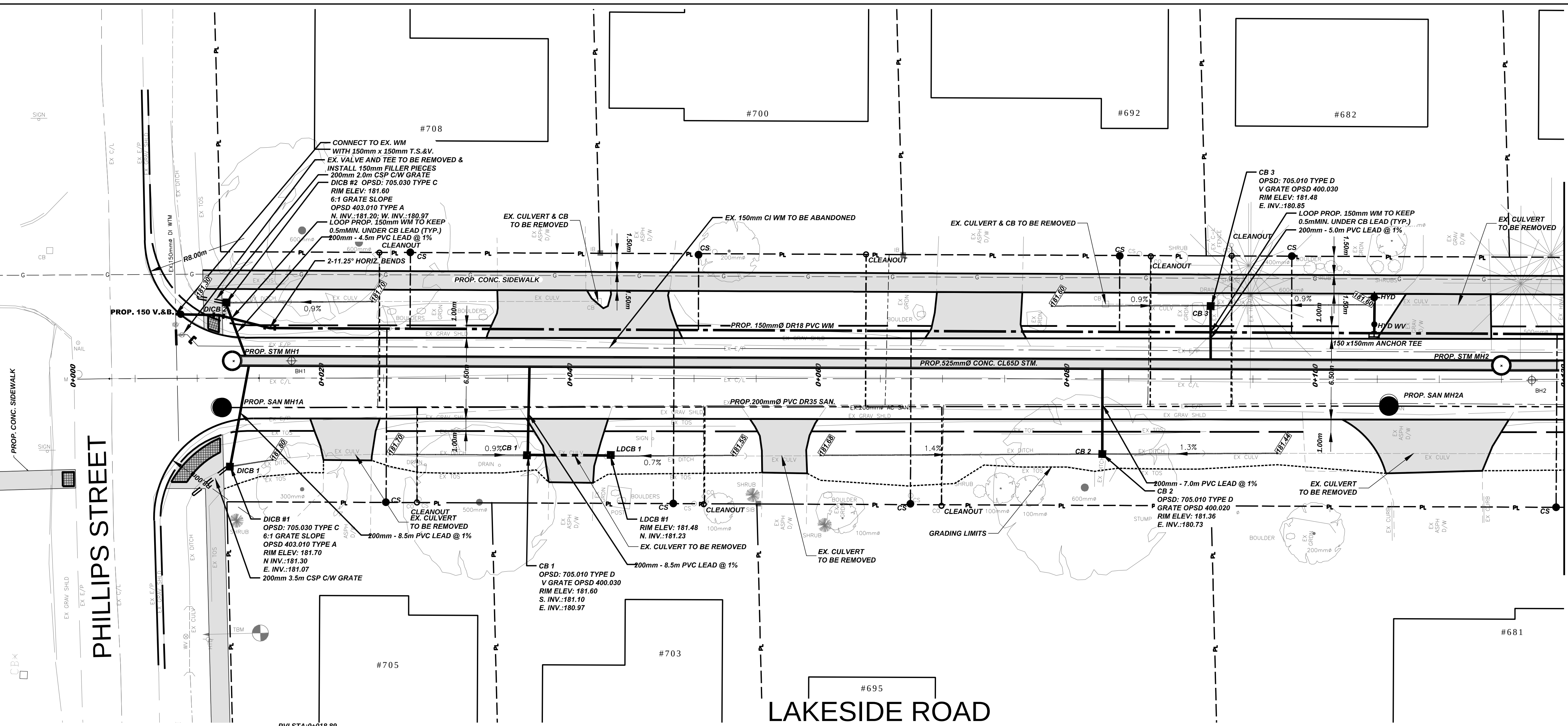
CONSULTANT FILE No. 11156962	
DATE 2020/02/07	
SCALE HOR: AS SHOWN VER: = m	
REF. No.	
DWG No.	REV.
G-01	D



NOTE: EXISTING WATERMAINS
TO BE GROUTED AND
ABANDONED IN PLACE (TYP.)

NOTE: EXISTING
STORM/SANITARY TO BE
REMOVED (TYP.)

MATCHLINE STATION 0+120
SEE DWG PP-02



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D	ISSUED FOR TENDER	2020/11/13	L.W.
C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
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A	ISSUED FOR PRELIMINARY REVIEW	2019/04/08	SJO

NOTES/LEGEND:		
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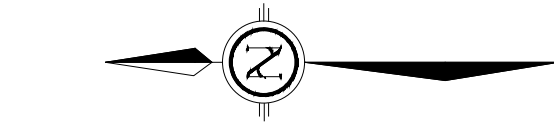
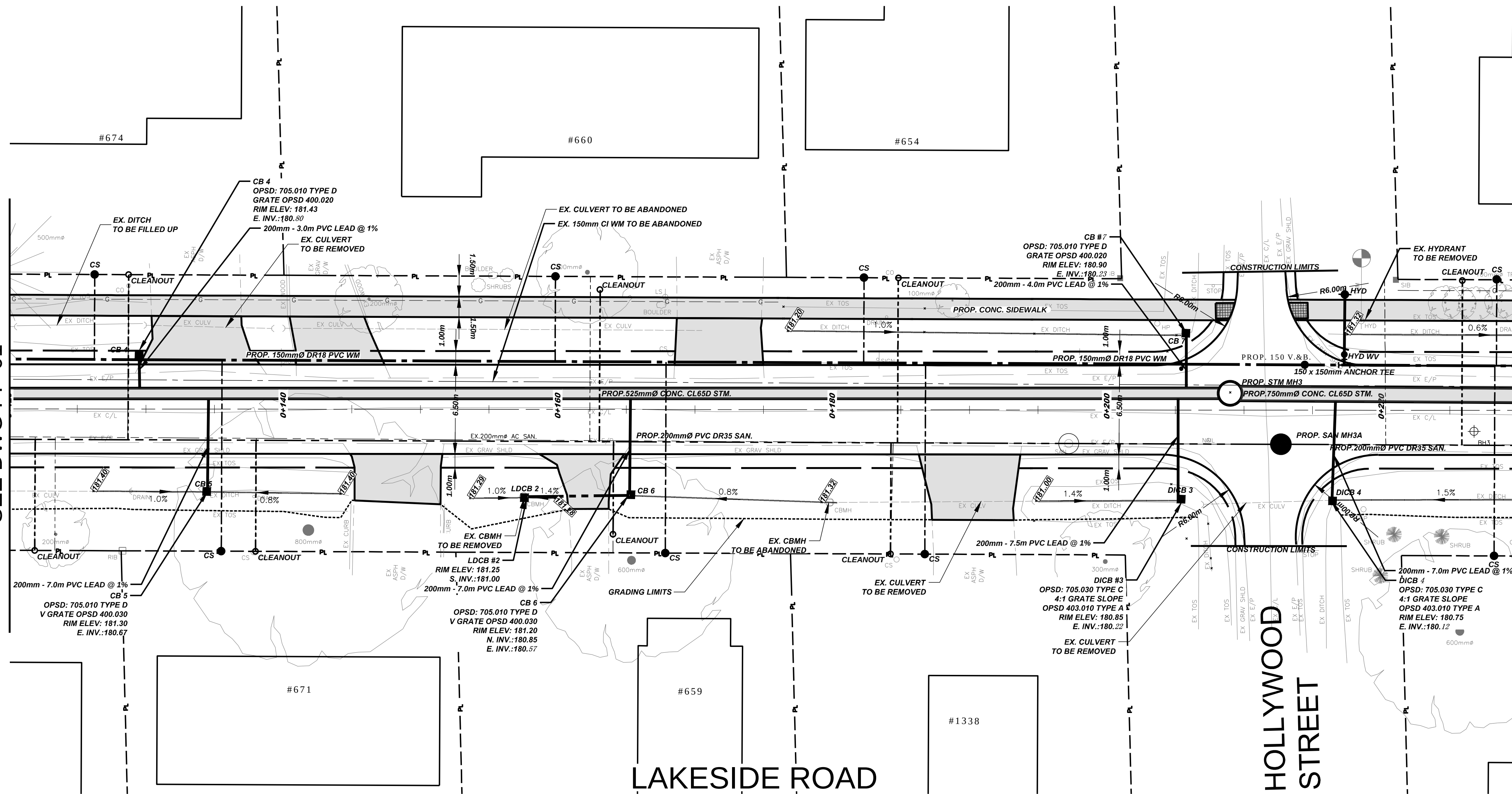
DRAFTING JNP	
DESIGN L.W.	
CHECKED BY R.W.	
APPROVED BY A.Y.B.	



LAKESIDE ROAD
ROAD RECONSTRUCTION
FROM PHILLIPS STREET TO DOMINION ROAD
TOWN OF FORT ERIE
PLAN & PROFILE STA. 0+000 - STA. 0+120

CONSULTANT FILE No. 11156962	REV.
DATE 2019/04/08	D
SCALE HOR: 1:200 m VER: 1:50 m	
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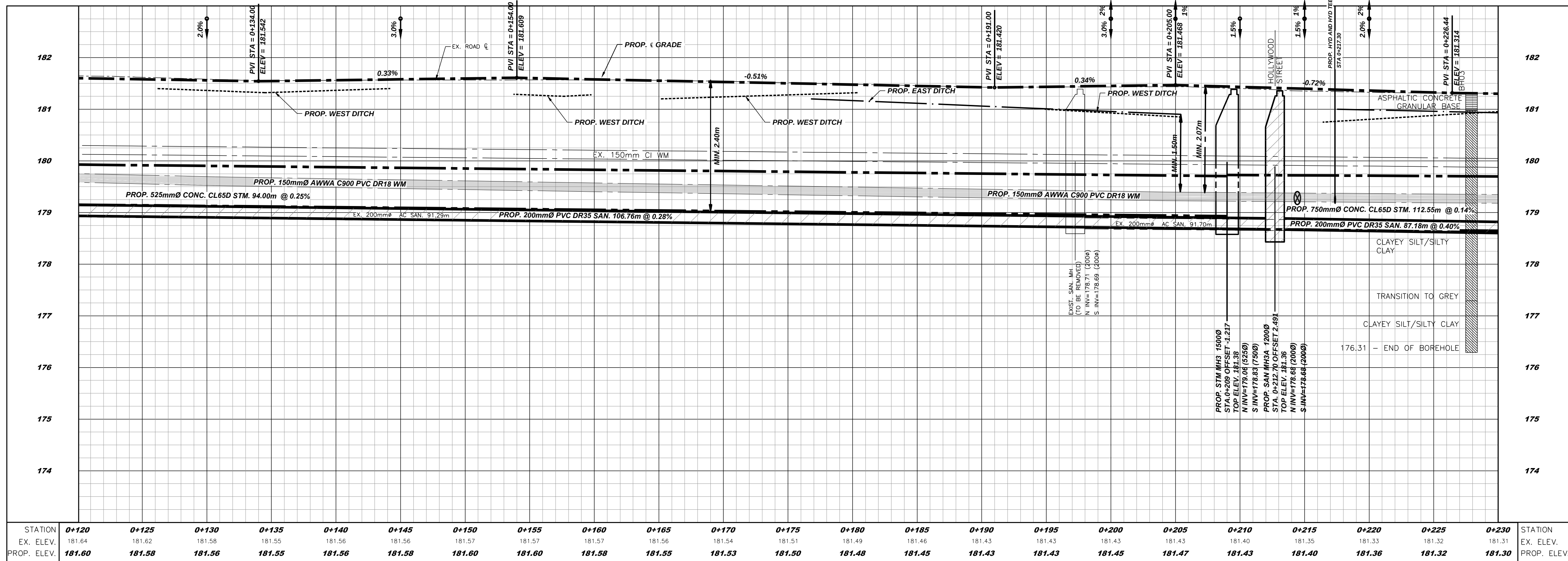
MATCHLINE STATION 1+120
SEE DWG PP-01



NOTE: EXISTING WATERMAINS
TO BE GROUTED AND
ABANDONED IN PLACE (TYP.)

NOTE: EXISTING
STORM/SANITARY TO BE
REMOVED (TYP.)

MATCHLINE STATION 0+230
SEE DWG PP-03

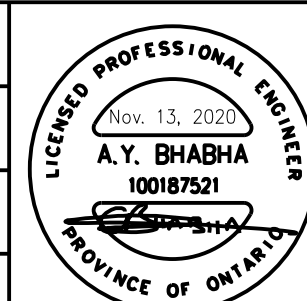


NO.	REVISION	DATE	INIT.
D	ISSUED FOR TENDER	2020/11/13	L.W.
C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
A	ISSUED FOR PRELIMINARY REVIEW	2019/04/08	SJO

NOTES/LEGEND:

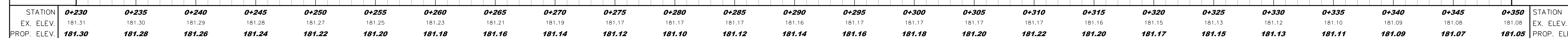
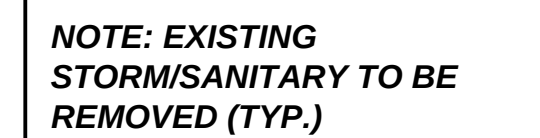
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DRAFTING	MLP
DESIGN	L.W.
CHECKED BY	R.W.
APPROVED BY	A.Y.B.



LAKESIDE ROAD
ROAD RECONSTRUCTION
FROM PHILLIPS STREET TO DOMINION ROAD
TOWN OF FORT ERIE
PLAN & PROFILE STA. 0+120 - STA. 0+230

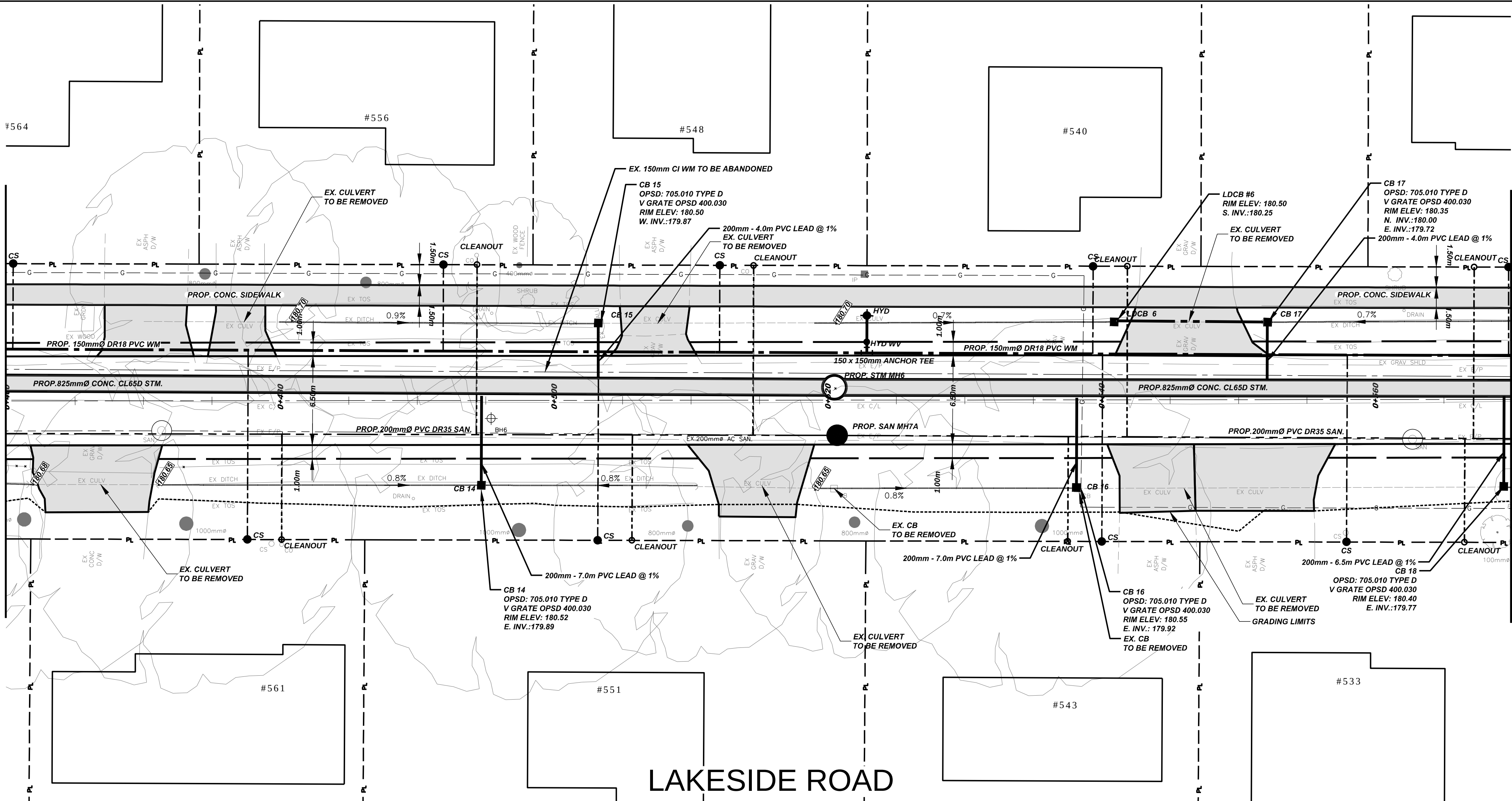
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SHEET No.	
DWG No. PP-02	REV. D



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CONSULTANT FILE No. 11156962	
DATE 2019/04/08	
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SHEET No.	
DWG No. PP-03	REV D

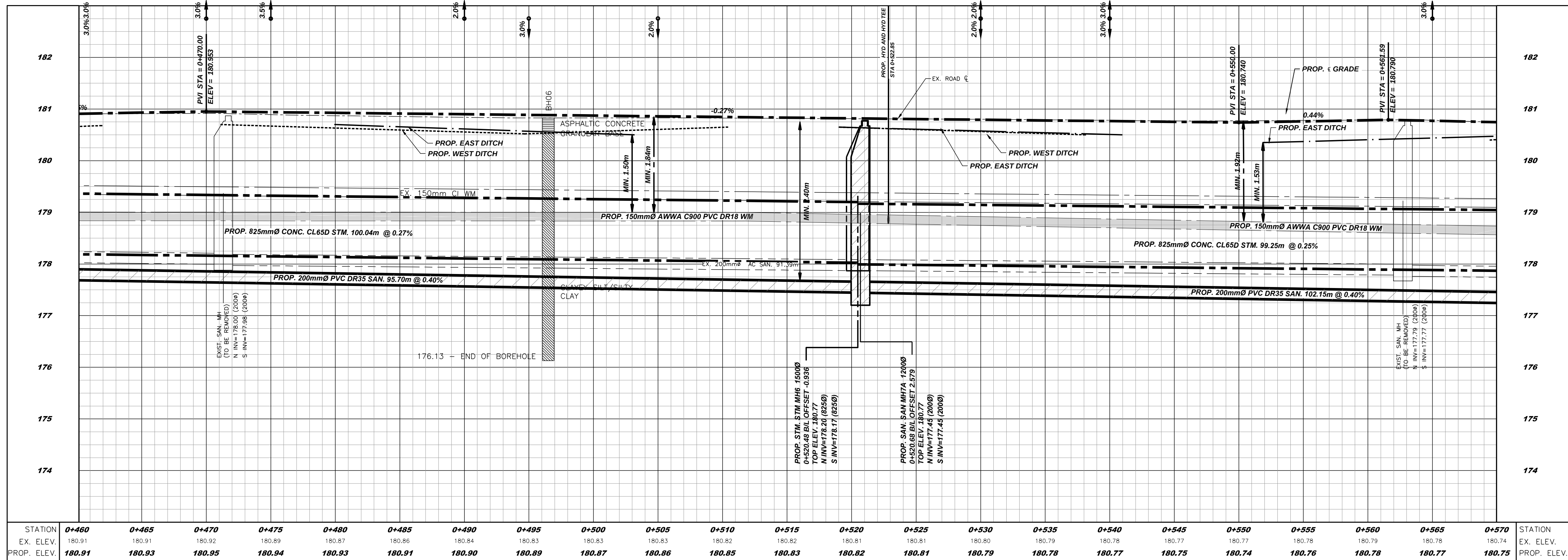
MATCHLINE STATION 0+460
SEE DWG PP-04



NOTE: EXISTING WATERMAINS
TO BE GROUTED AND
ABANDONED IN PLACE (TYP.)

NOTE: EXISTING
STORM/SANITARY TO BE
REMOVED (TYP.)

MATCHLINE STATION 0+570
SEE DWG PP-06

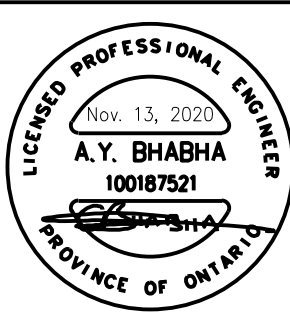


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C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
A	ISSUED FOR PRELIMINARY REVIEW	2019/04/08	SJD
NO.	REVISION	DATE	INIT.

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DRAFTING
MLP
DESIGN
L.W.
CHECKED BY
R.W.
APPROVED BY
A.Y.B.



LAKESIDE ROAD
ROAD RECONSTRUCTION
FROM PHILLIPS STREET TO DOMINION ROAD
TOWN OF FORT ERIE
PLAN & PROFILE STA. 0+460 - STA. 0+570

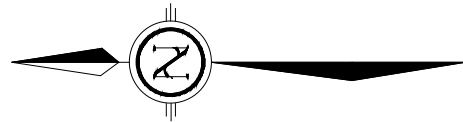
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DATE 2019/04/08
SCALE HOR: 1:200 m VER: 1:50 m
SHEET No.
DWG No. PP-05
REV. D

MATCHLINE STATION 0+570
SEE DWG PP-05

MATCHLINE STATION 0+695
SEE DWG PP-07

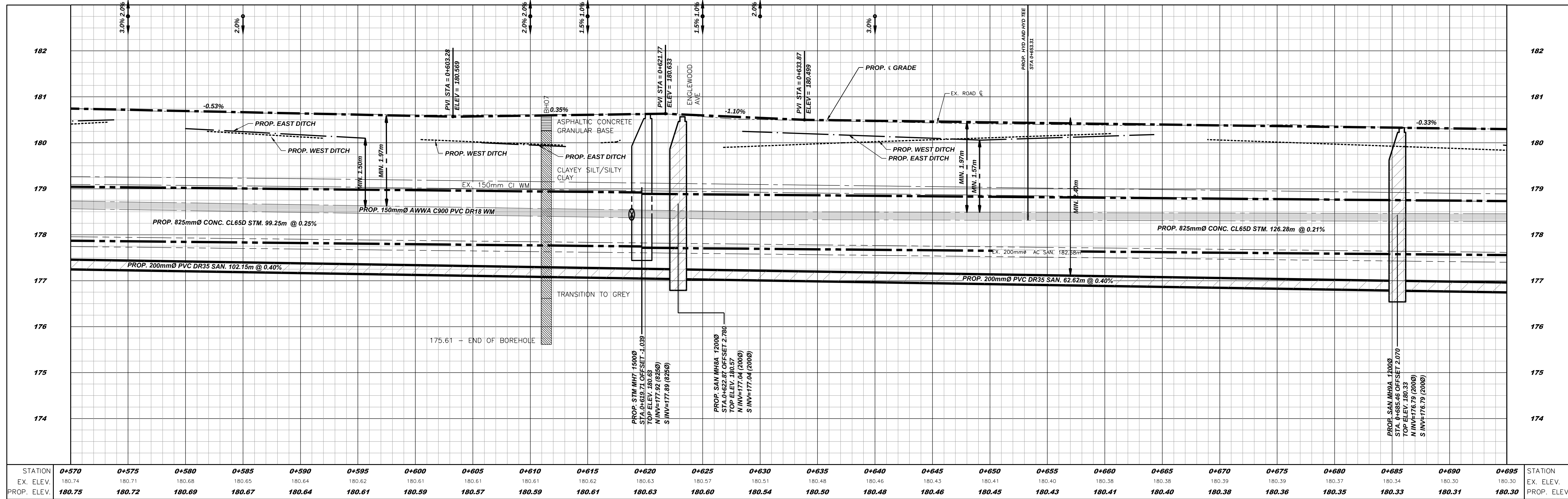
NOTE: EXISTING WATERMAINS
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NOTE: EXISTING
STORM/SANITARY TO BE
REMOVED (TYP.)



ENGLEWOOD
AVENUE

LAKESTIDE ROAD

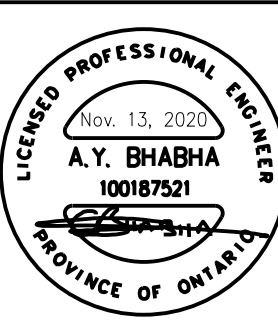


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NOTES/LEGEND:

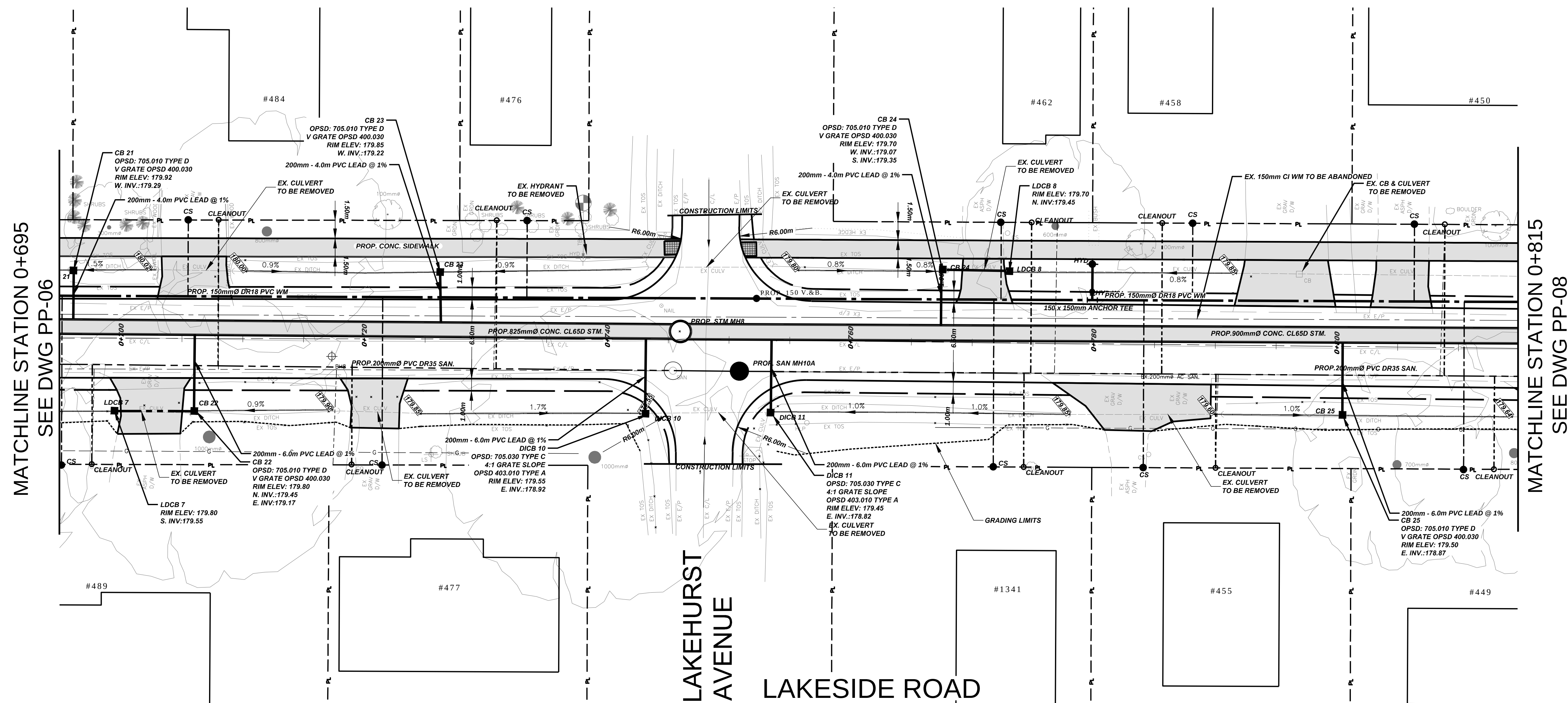
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MLP
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A.Y.B.

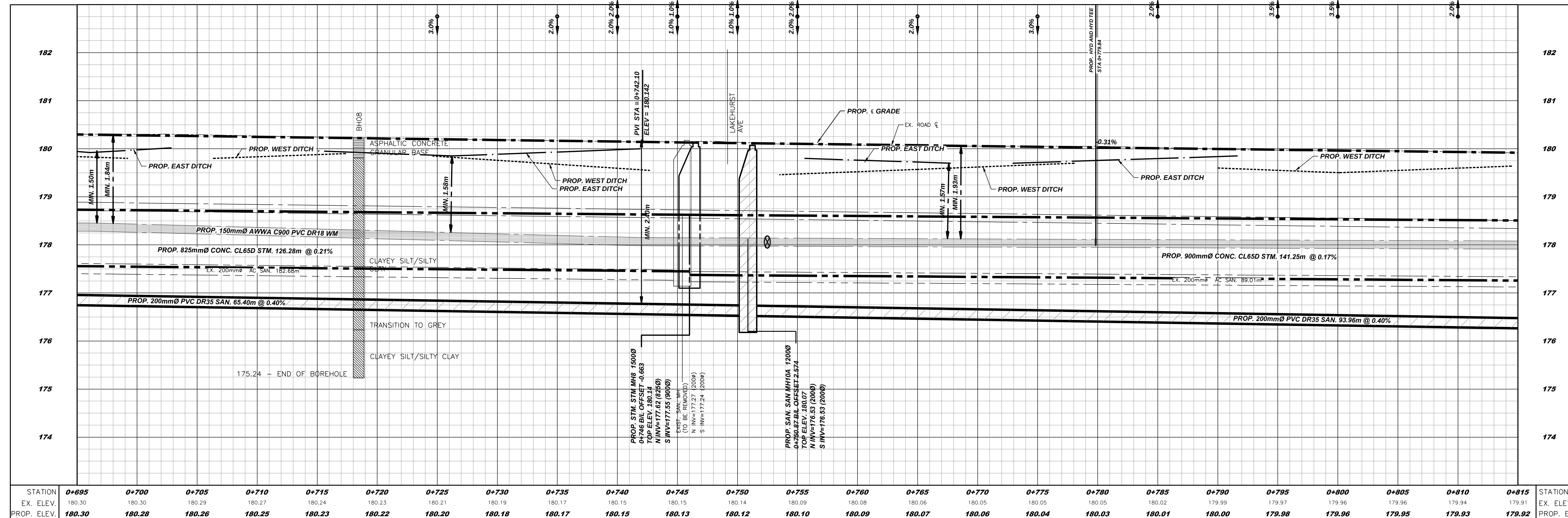


LAKESTIDE ROAD
ROAD RECONSTRUCTION
FROM PHILLIPS STREET TO DOMINION ROAD
TOWN OF FORT ERIE
PLAN & PROFILE STA. 0+570 - STA. 0+695

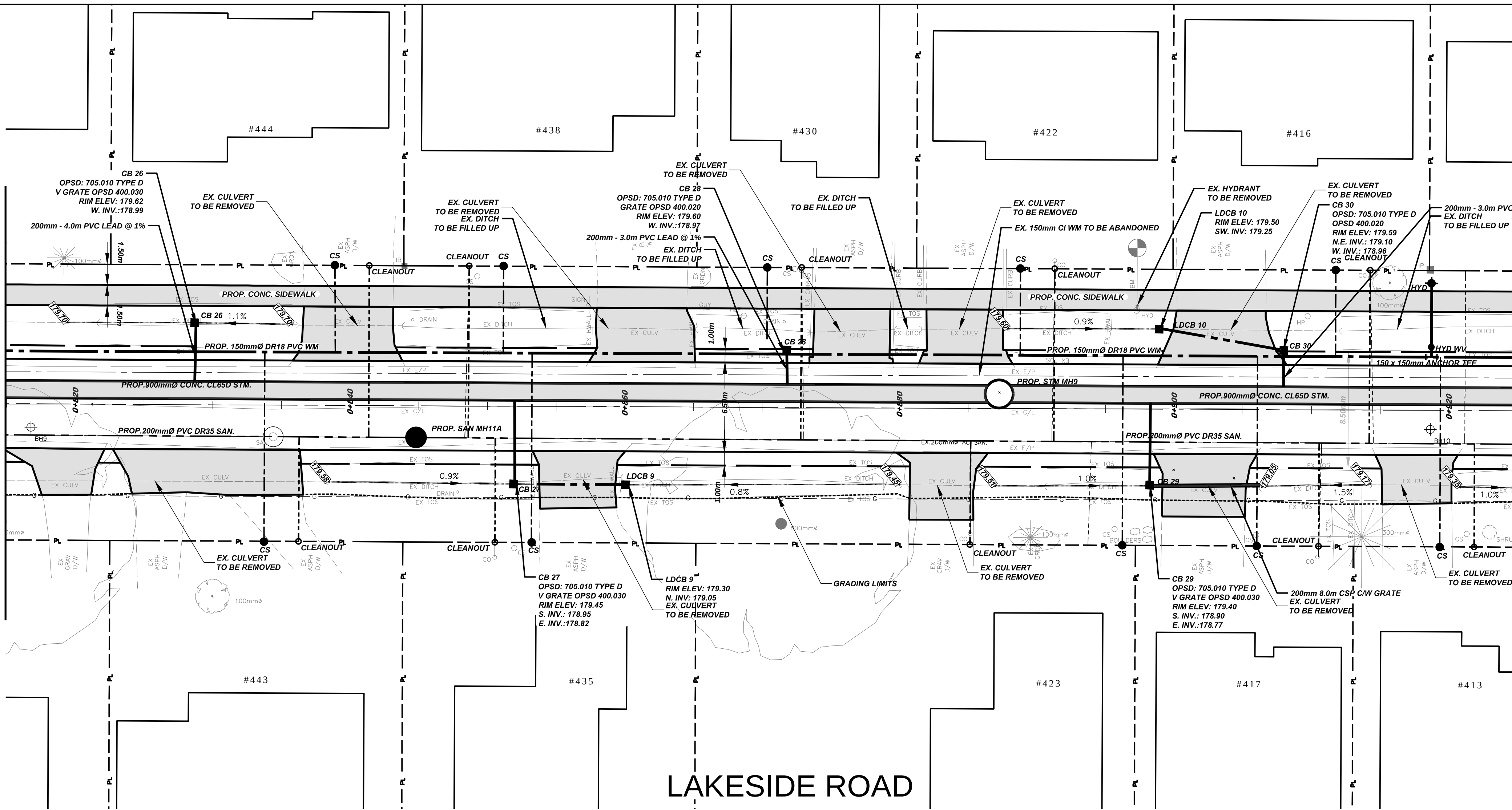
CONSULTANT FILE No. 11156962	REV.
DATE 2019/04/08	D
SCALE HOR: 1:200 m VER: 1:50 m	
SHEET No.	
DWG No. PP-06	



**NOTE: EXISTING
STORM/SANITARY TO BE
REMOVED (TYP.)**

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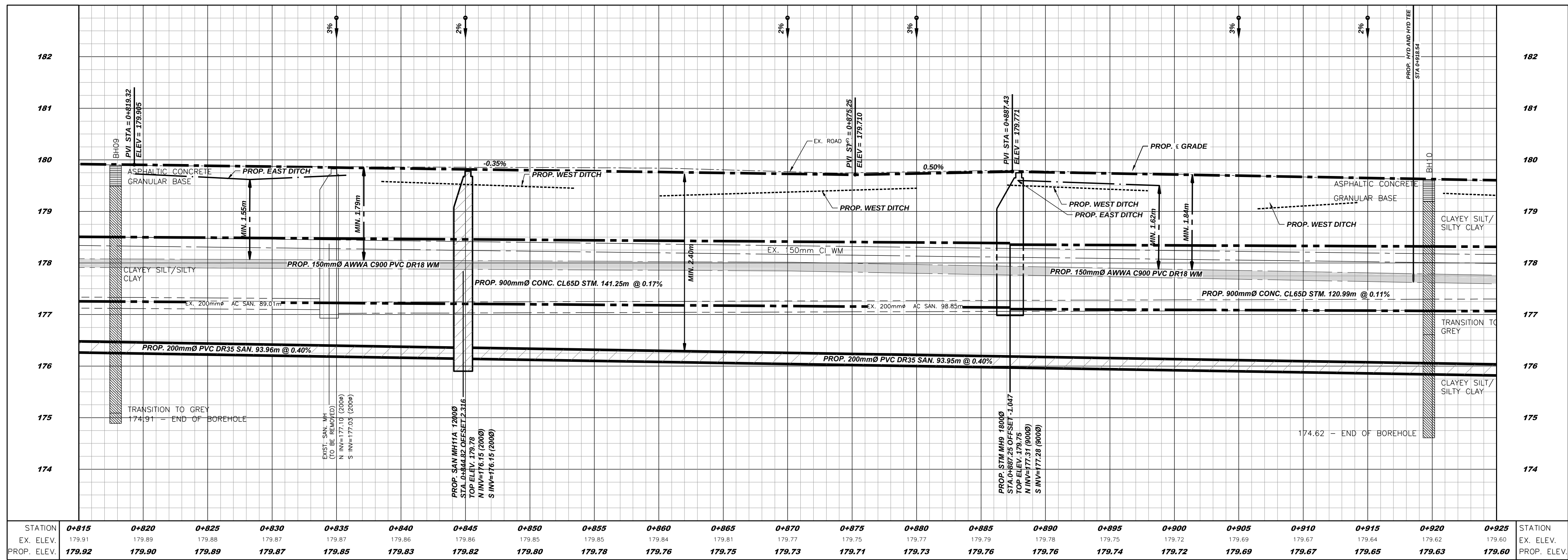
MATCHLINE STATION 0+815
SEE DWG PP-07



NOTE: EXISTING WATERMAINS
TO BE GROUTED AND
ABANDONED IN PLACE (TYP.)

NOTE: EXISTING
STORM/SANITARY TO BE
REMOVED (TYP.)

MATCHLINE STATION 0+925
SEE DWG PP-09

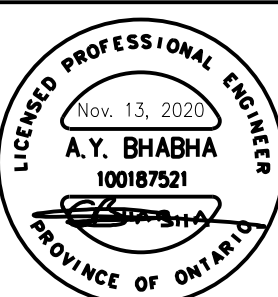


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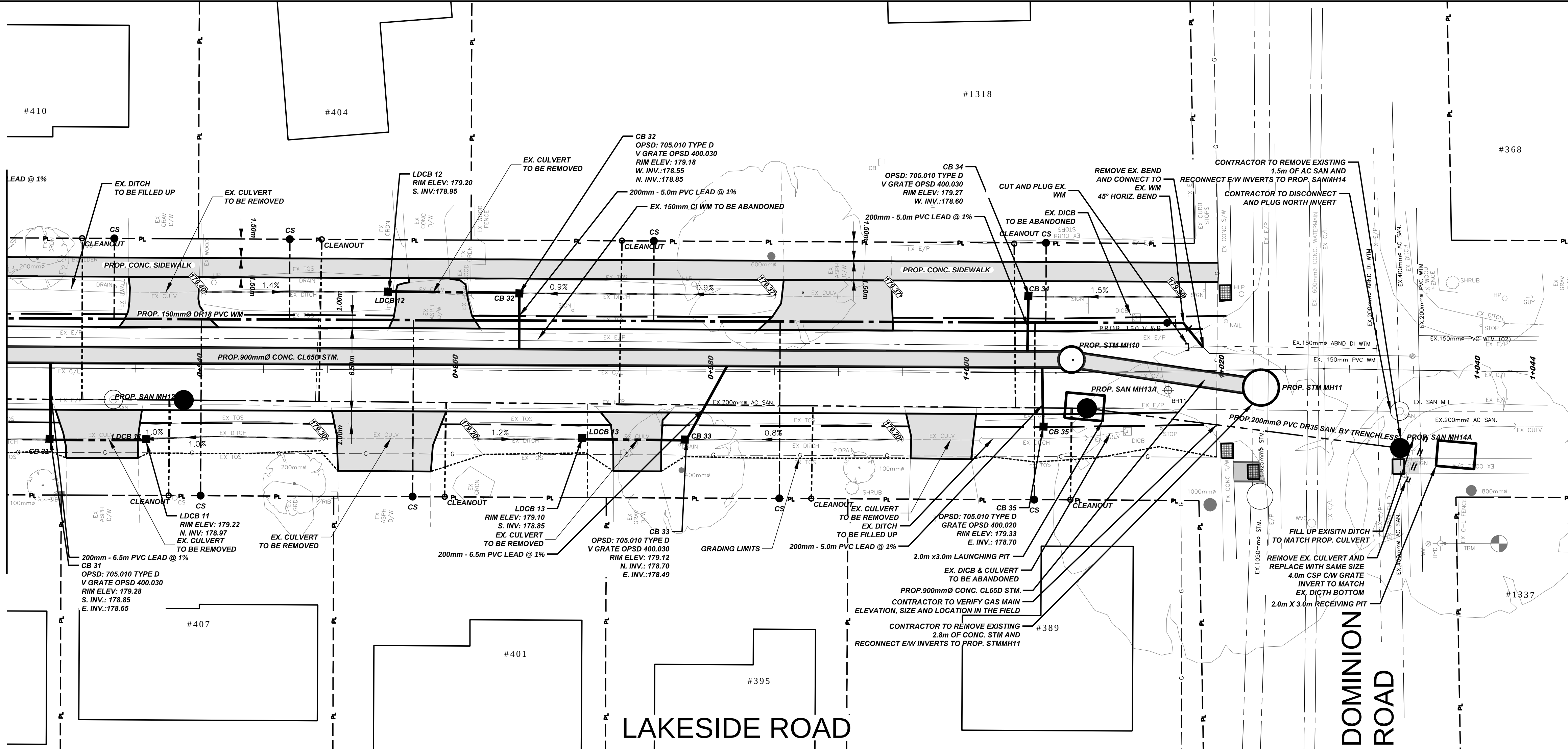
DRAFTING
MLP
DESIGN
L.W.
CHECKED BY
R.W.
APPROVED BY
A.Y.B.



LAKESIDE ROAD
ROAD RECONSTRUCTION
FROM PHILLIPS STREET TO DOMINION ROAD
TOWN OF FORT ERIE
PLAN & PROFILE STA. 0+815 - STA. 0+925

CONSULTANT FILE No. 11156962	REV.
DATE 2019/04/08	D
SCALE HOR: 1:200 m VER: 1:50 m	
SHEET No.	
DWG No. PP-08	

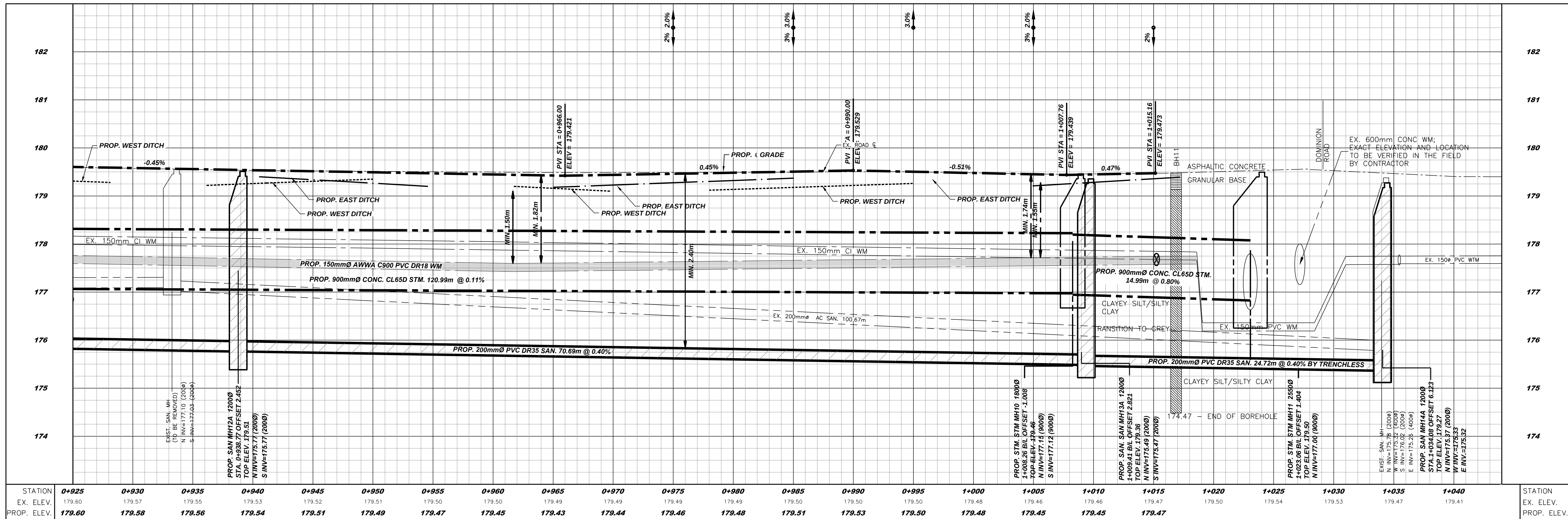
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SEE DWG PP-08



NOTE: EXISTING WATERMAINS
TO BE GROUTED AND
ABANDONED IN PLACE (TYP.)

NOTE: EXISTING
STORM/SANITARY TO BE
REMOVED (TYP.)

NOTE: 600mm CONCRETE
WATERMAIN AT DOMINION TO
BE PROTECTED AND
COORDINATE ALL WORKS
WITH THE REGION TO
DETERMINE THEIR
NEEDS(TYP.)



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A	ISSUED FOR PRELIMINARY REVIEW	2019/04/08	SJO

NOTES/LEGEND:

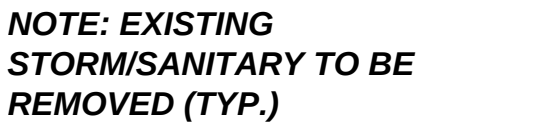
- THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWER AND OTHER UNDERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
- PROPERTY LINES WERE PLOTTED USING REGISTERED PLANS AND BARS LOCATED IN THE FIELD, TO VERIFY THE ACCURACY OF THESE. PROPERTY LINES, A LEGAL SURVEY SHOULD BE PERFORMED PRIOR TO CONSTRUCTION.
- CURB STOPS AND LATERALS ARE APPROXIMATE LOCATIONS ONLY. ACTUAL LOCATION TO BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION.

DRAFTING MLP	
DESIGN L.W.	
CHECKED BY R.W.	
APPROVED BY A.Y.B.	

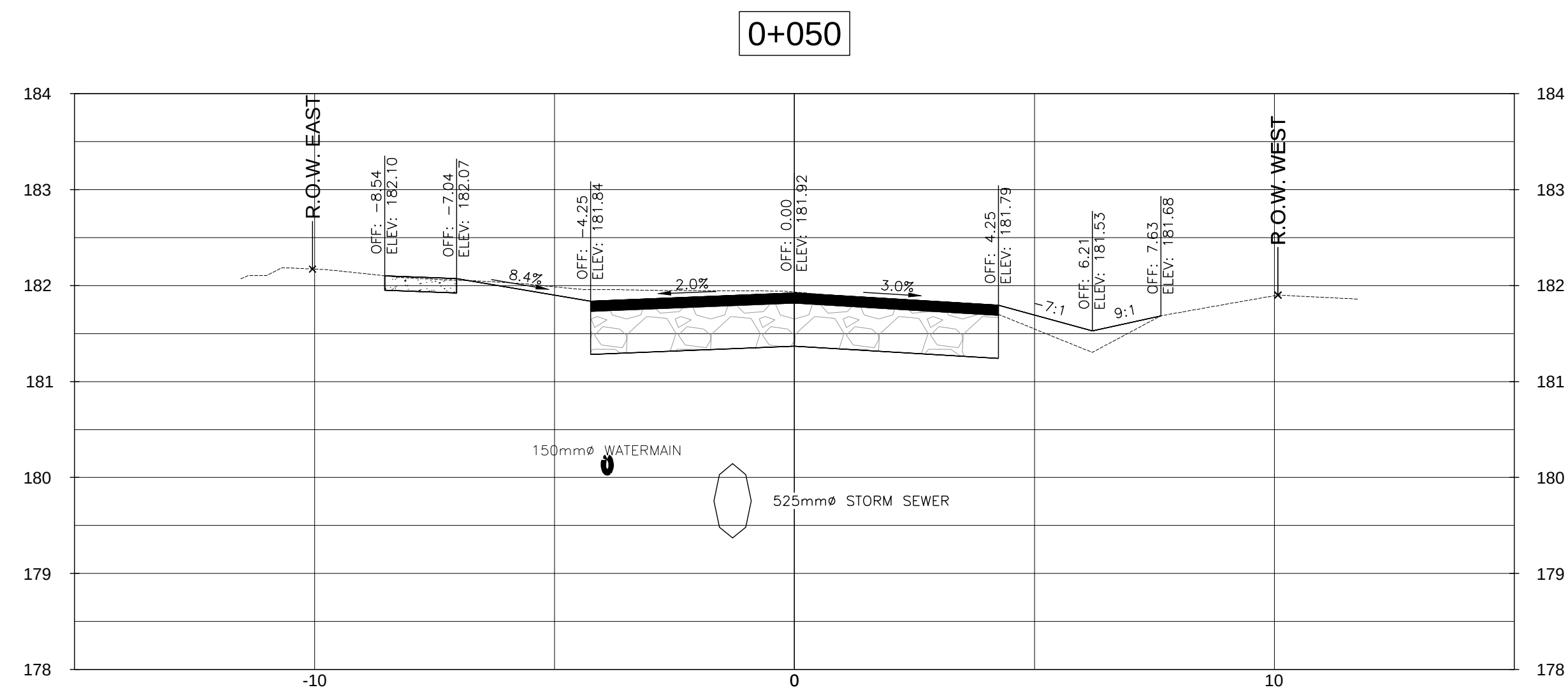
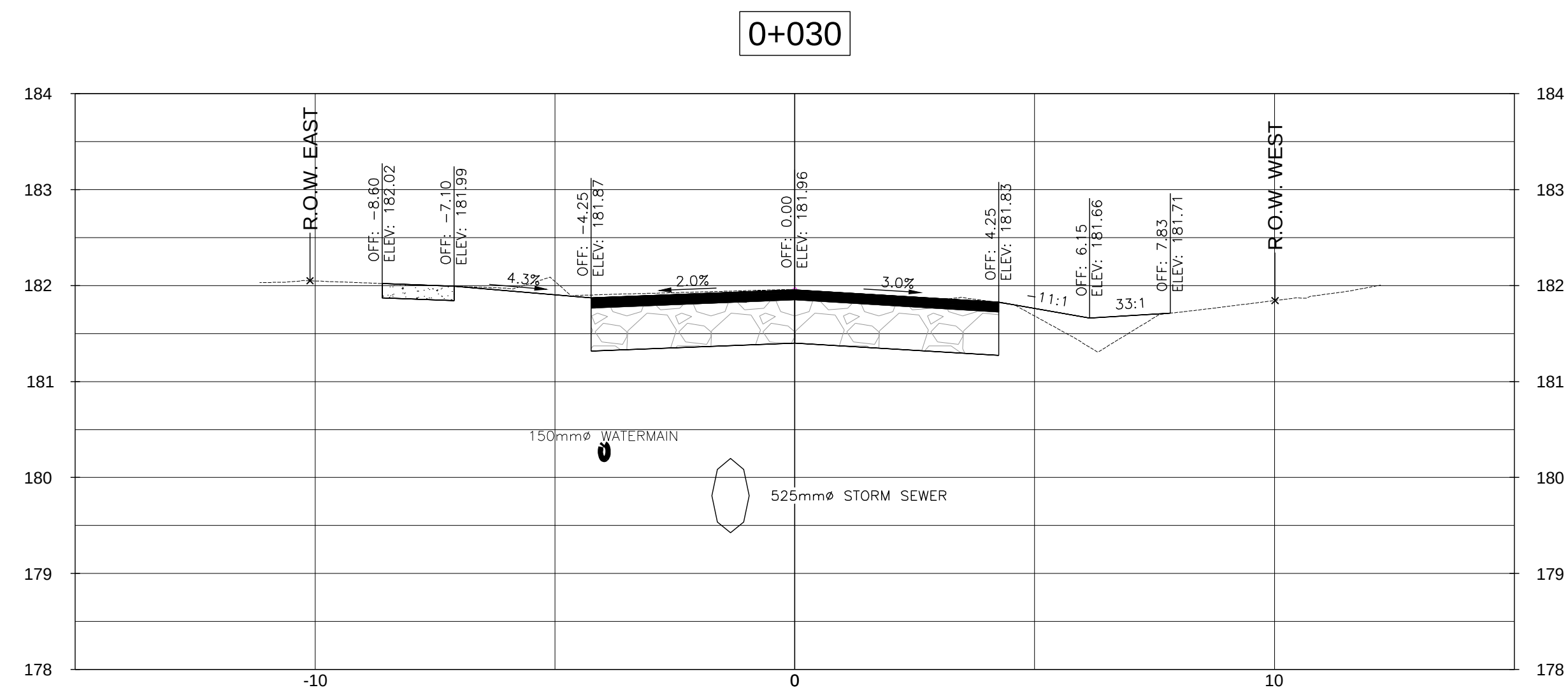
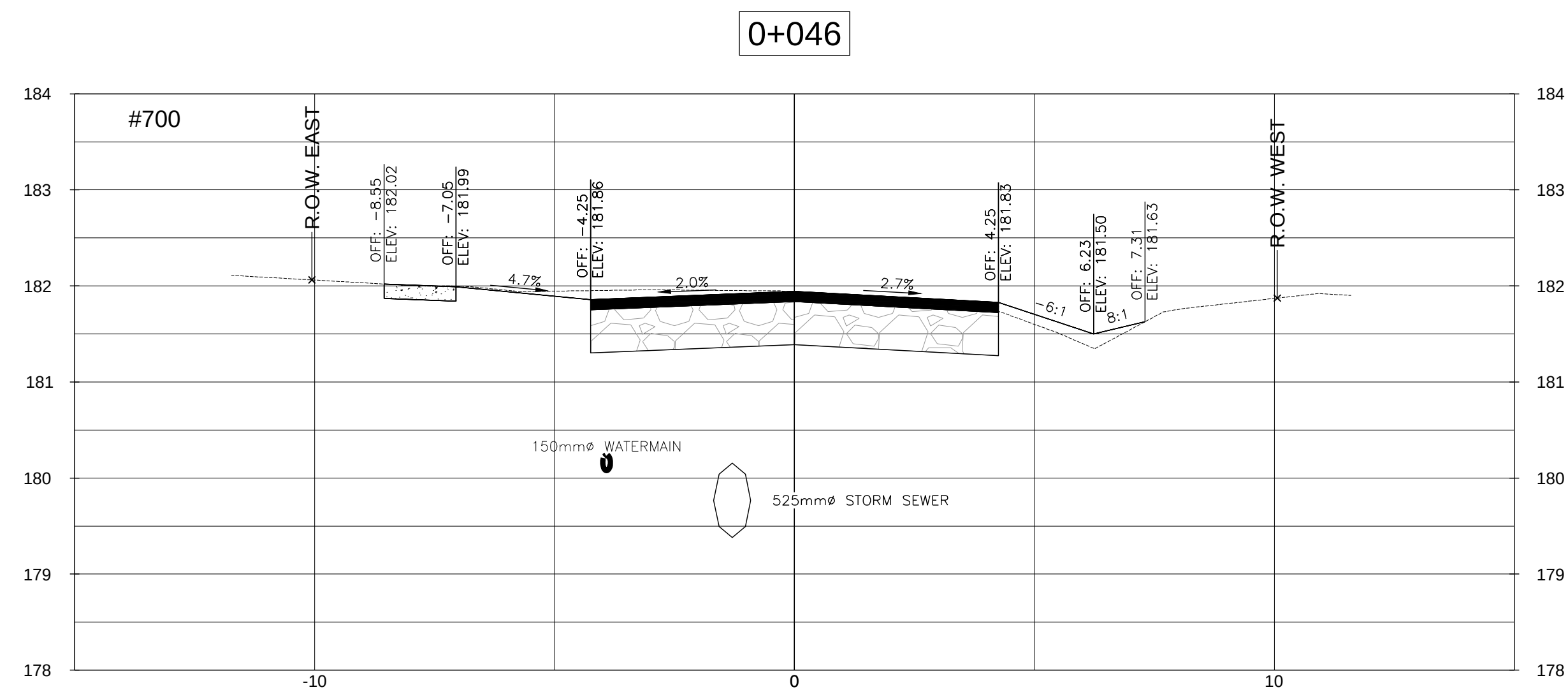
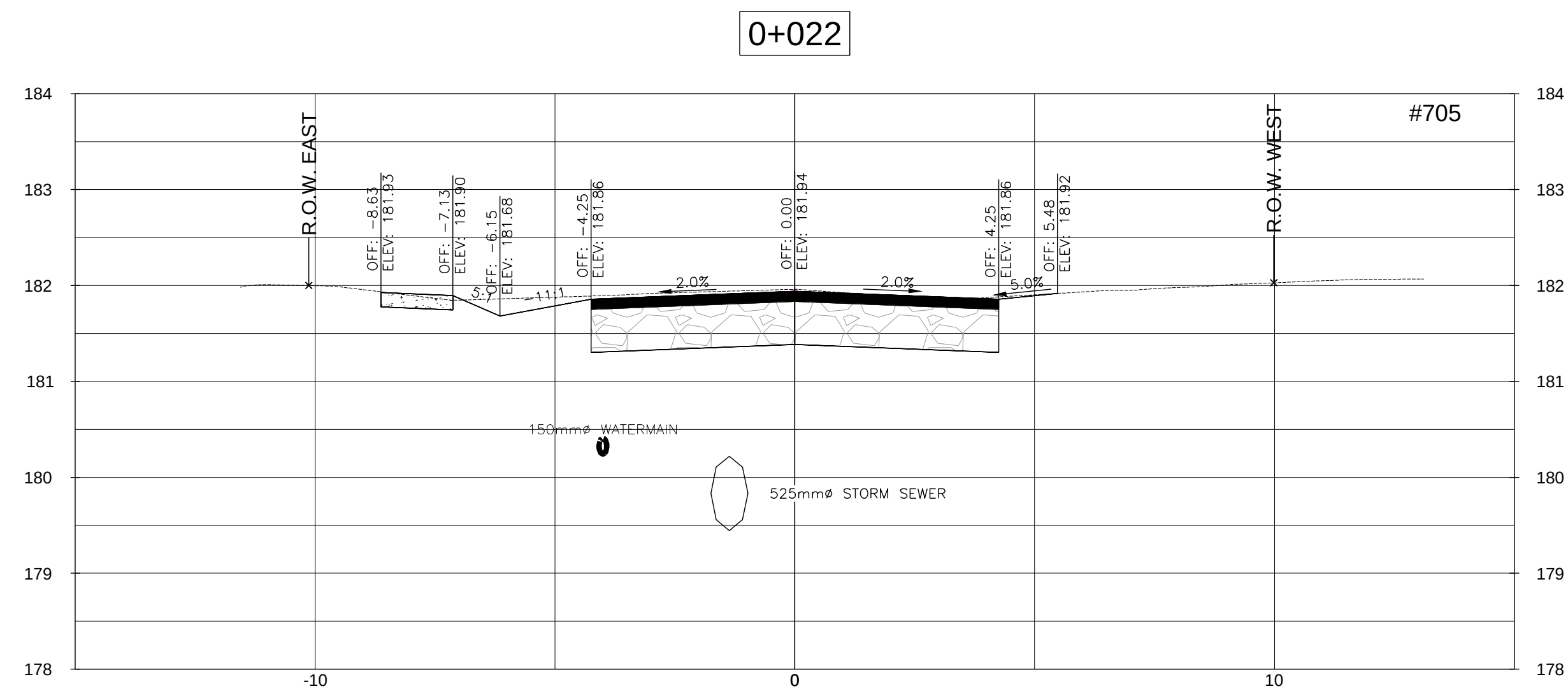
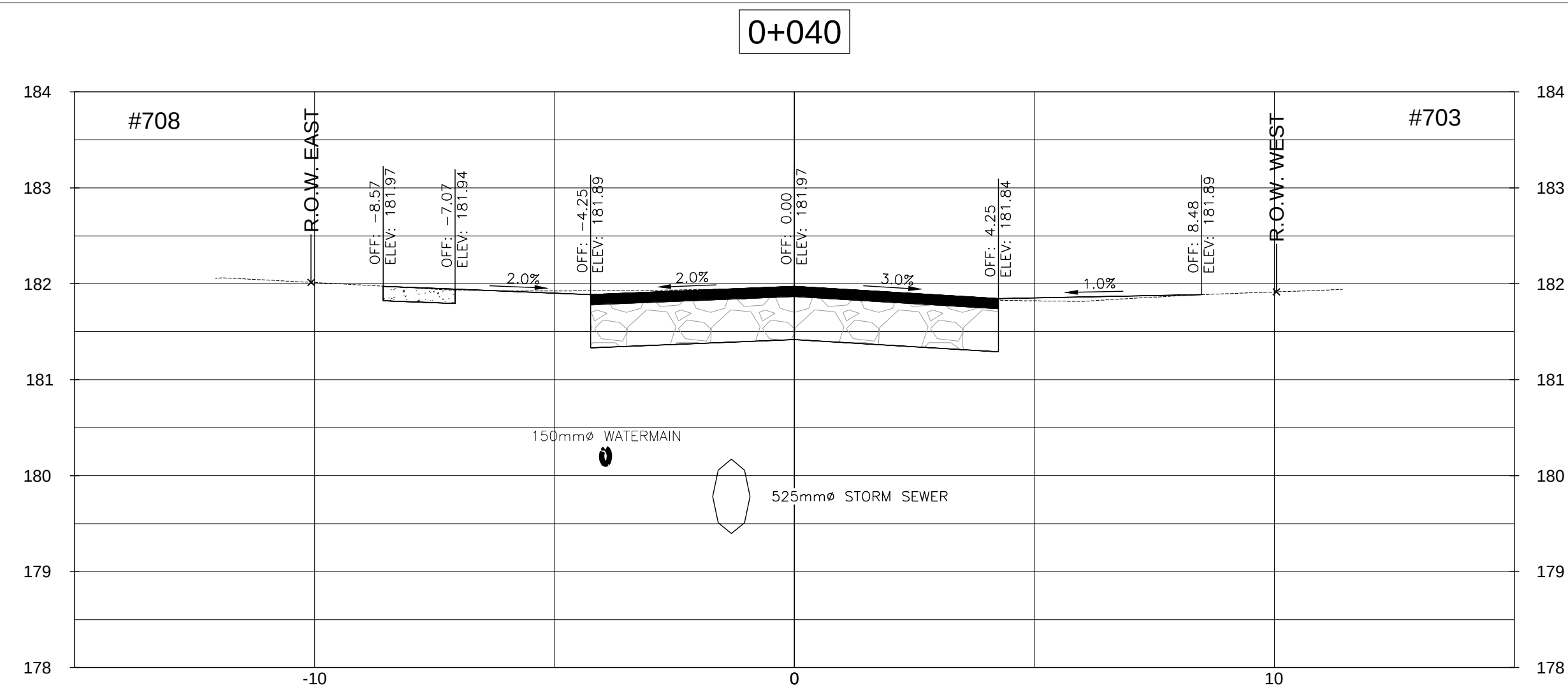
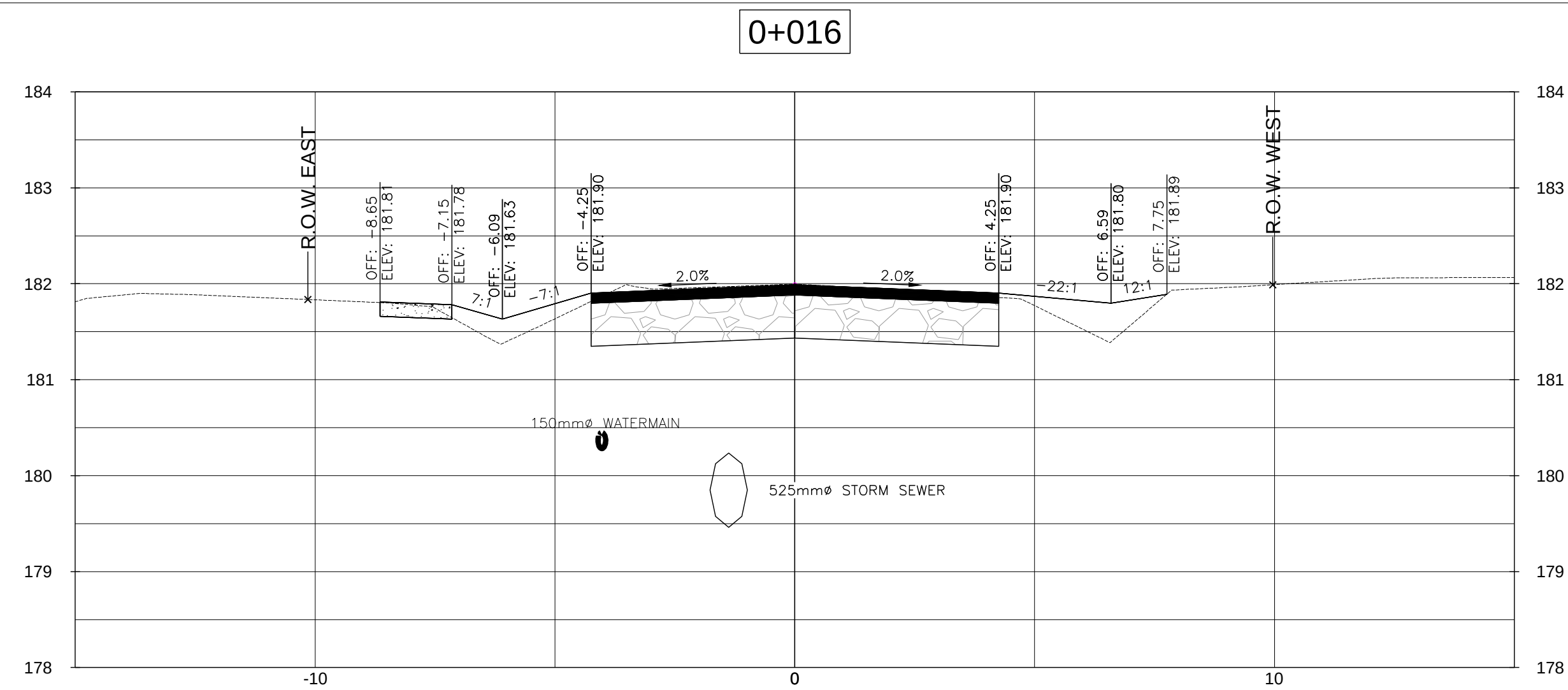


LAKESIDE ROAD
ROAD RECONSTRUCTION
FROM PHILLIPS STREET TO DOMINION ROAD
TOWN OF FORT ERIE
PLAN & PROFILE STA. 0+925 - STA. 1+044

CONSULTANT FILE No. 11156962	REV.
DATE 2019/04/08	D
SCALE HOR: 1:200 m VER: 1:50 m	
SHEET No.	
DWG No. PP-09	

[illegible]

L.W.



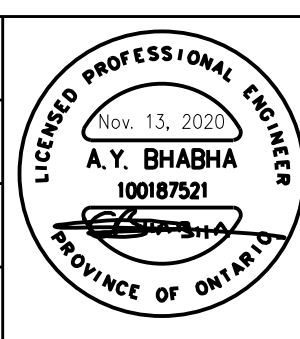
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C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
A	ISSUED FOR PRELIMINARY REVIEW	2018/08/01	SJO
NO.	REVISION	DATE	INIT.

DRAFTING
JNP

DESIGN
L.W.

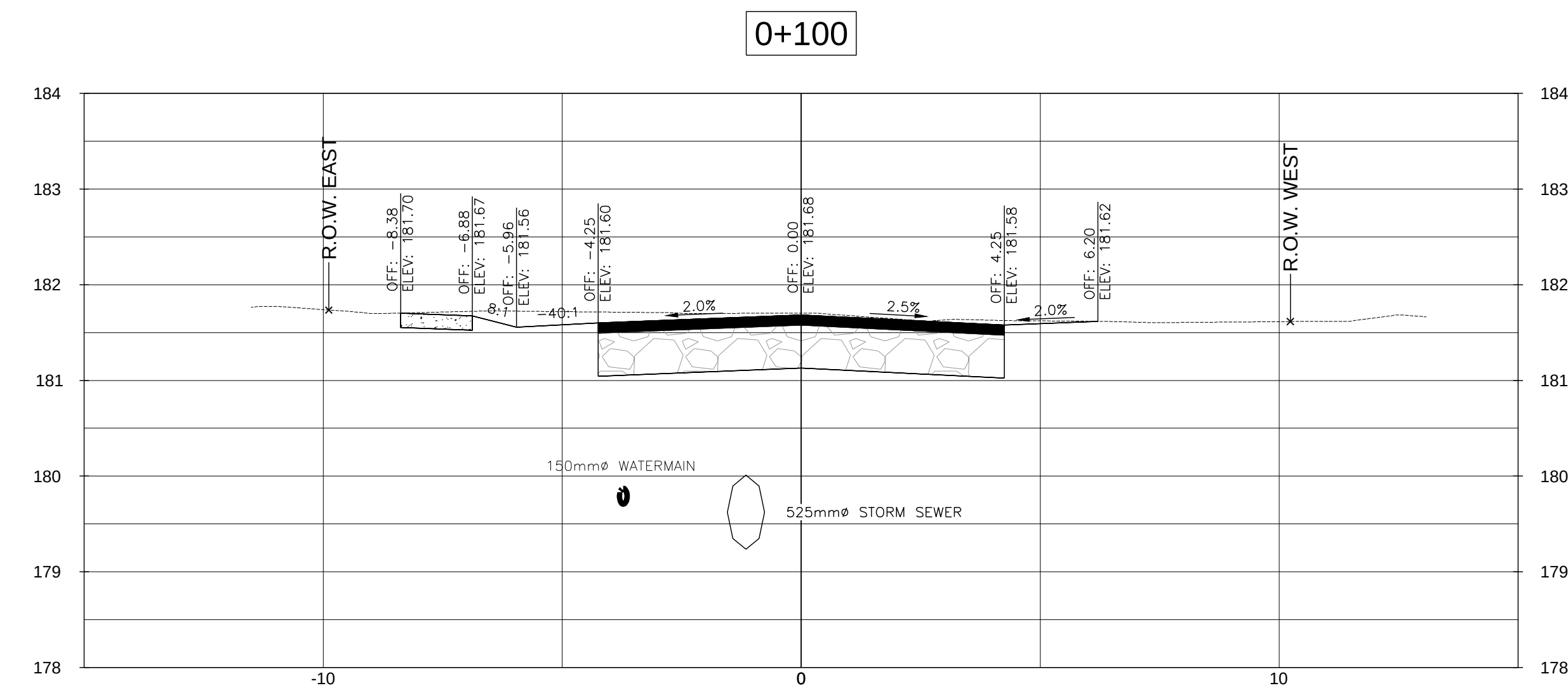
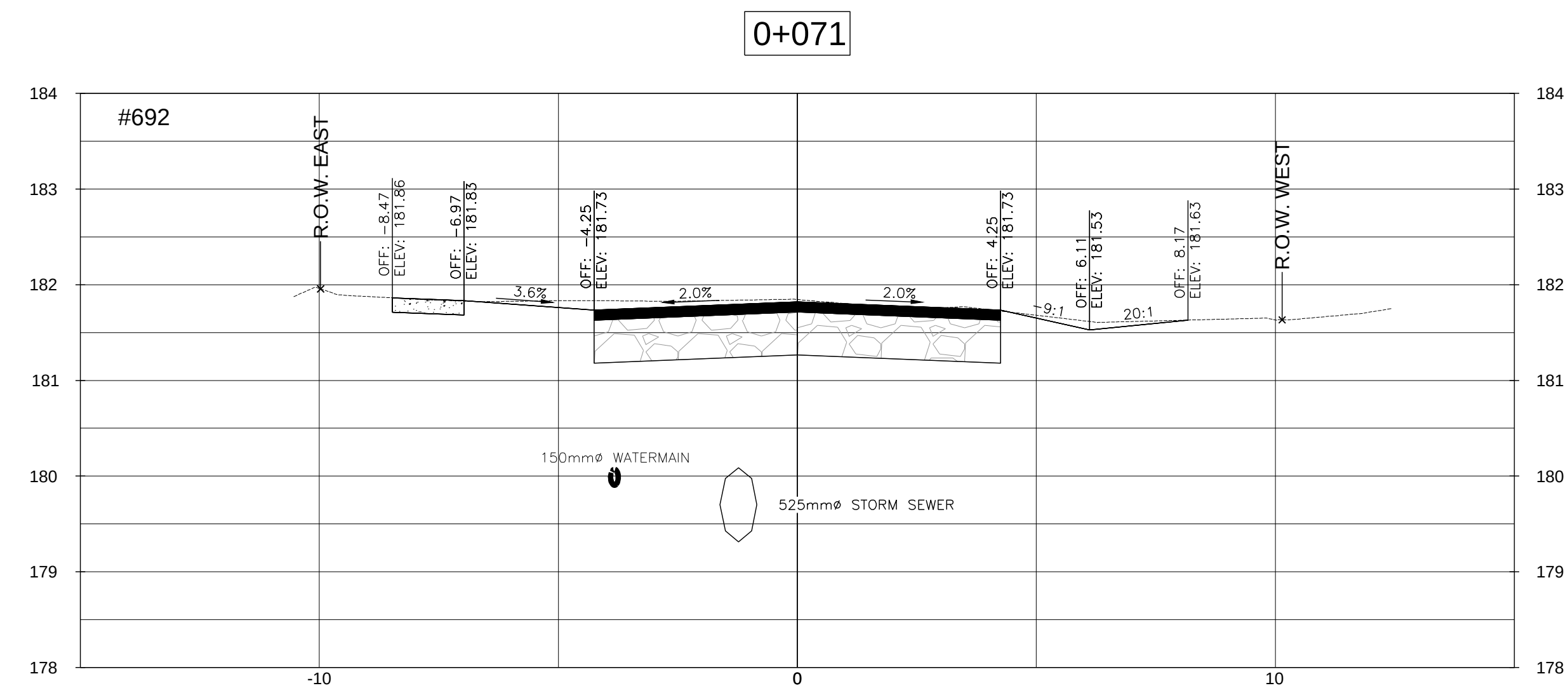
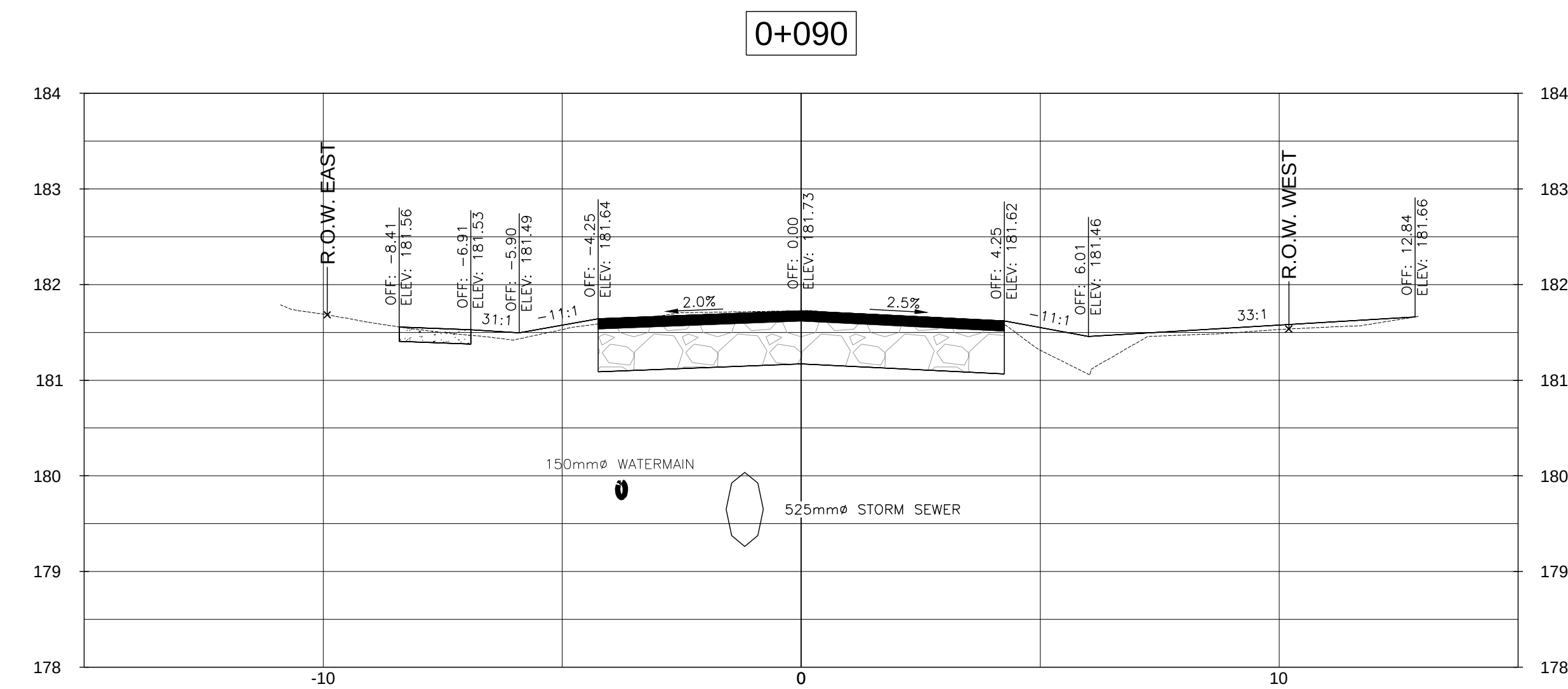
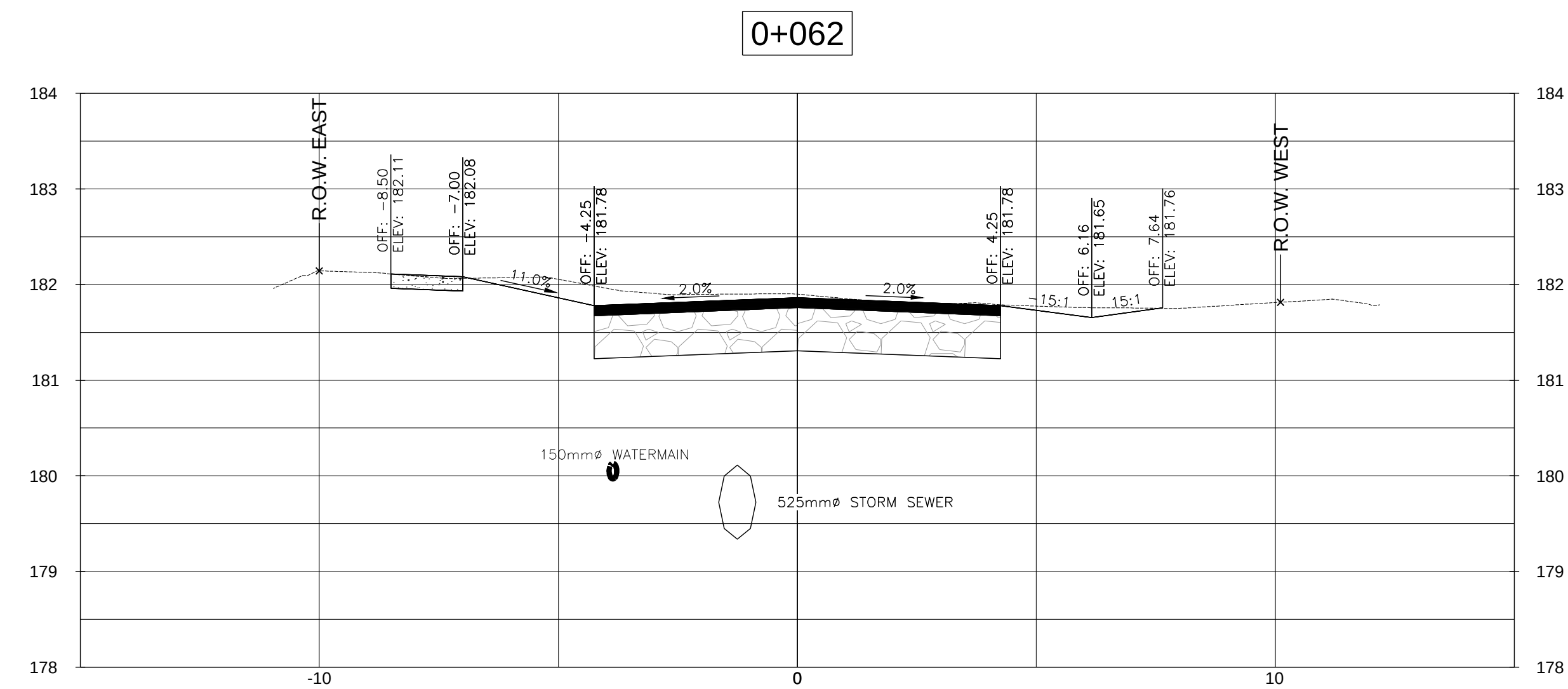
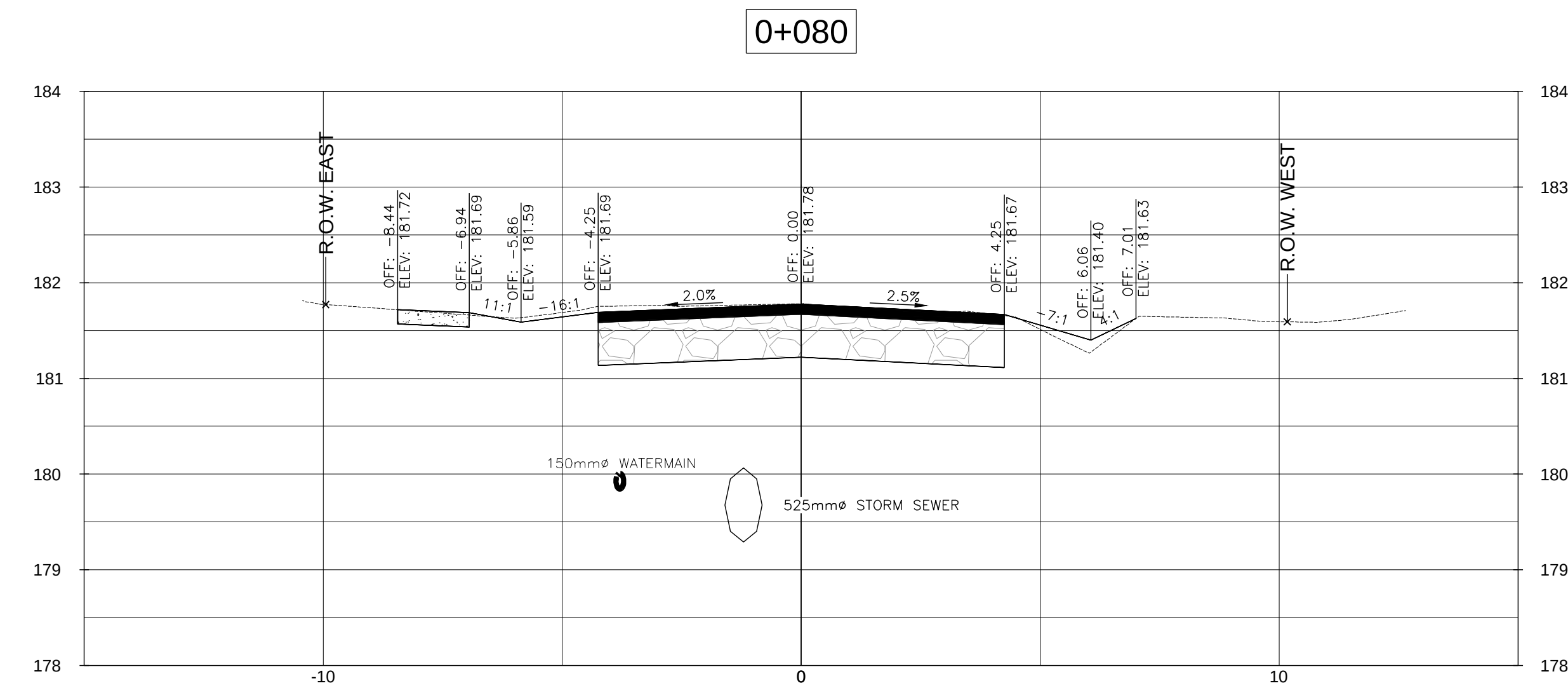
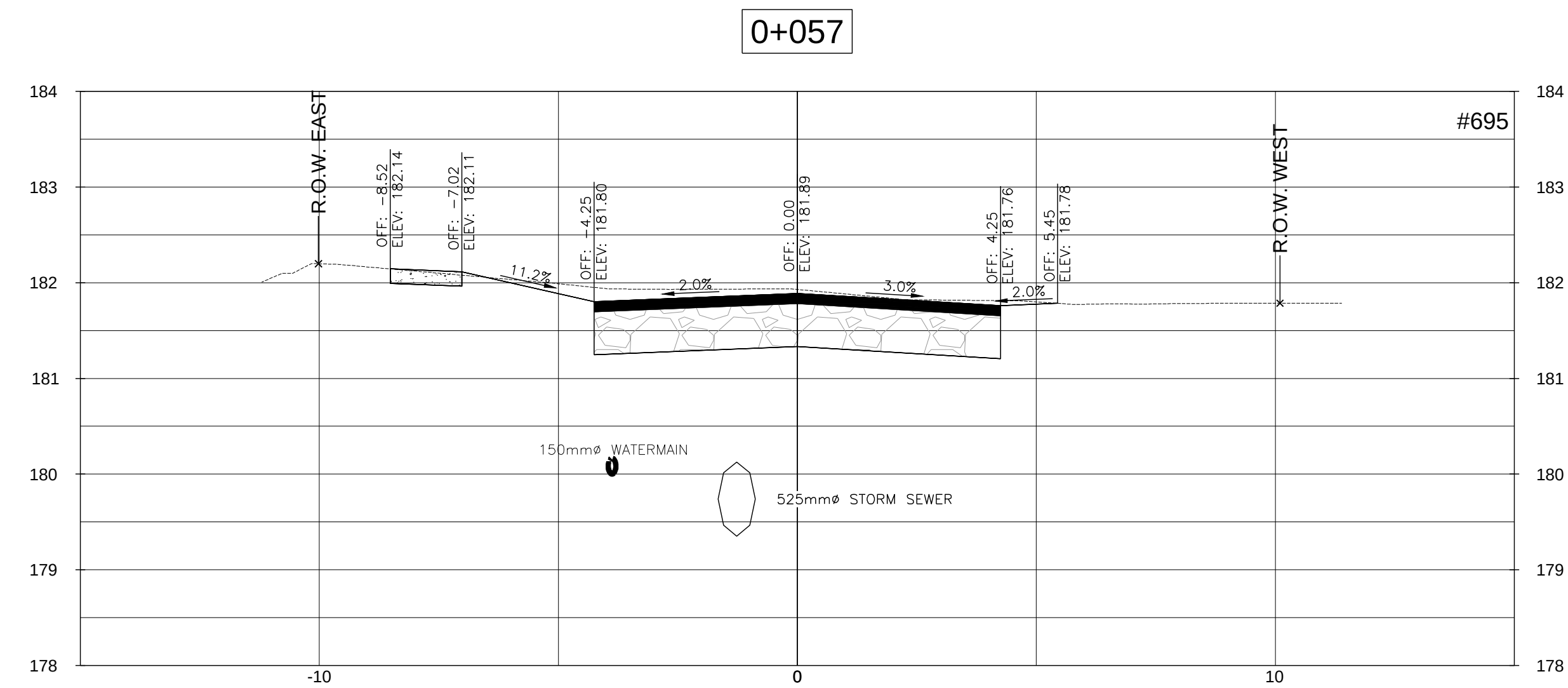
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R.W.

APPROVED BY
A.Y.B.



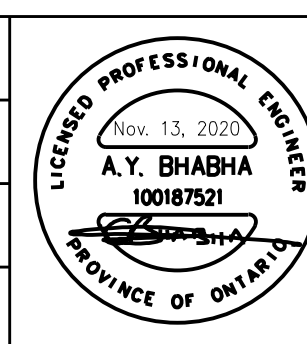
REPLACEMENT OF EXISTING STORM
SANITARY SEWERS, WATERMAINS
AND ROAD RECONSTRUCTION
LAKESIDE ROAD FROM PHILIP STREET TO
DOMINION ROAD, FORT EIRE
CROSS SECTIONS STA. 0+015 - STA. 0+050

CONSULTANT FILE No. 11156962	REV.
DATE 2018/08/01	D
SCALE HOR: 1:100 m VER: 1:50 m	
SHEET No.	
DWG No.	
XSC - 1	



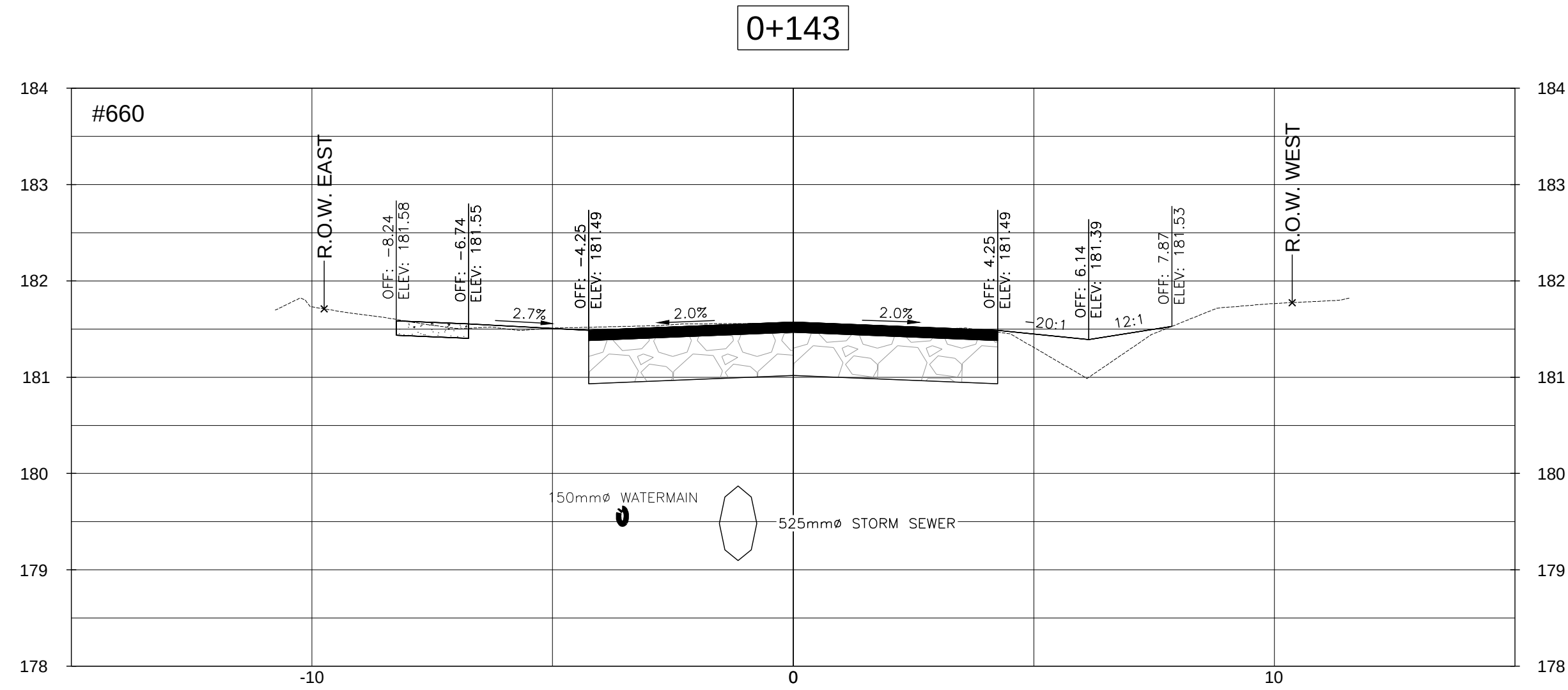
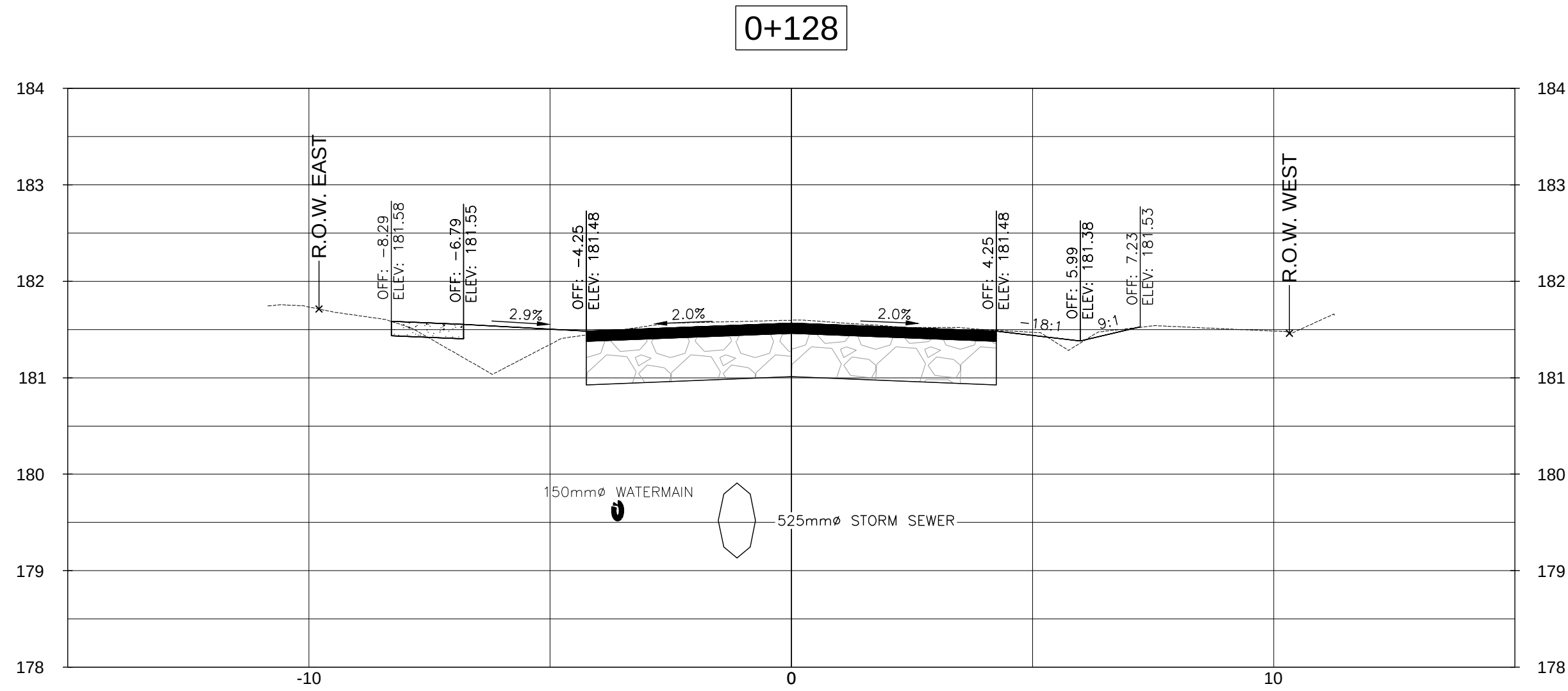
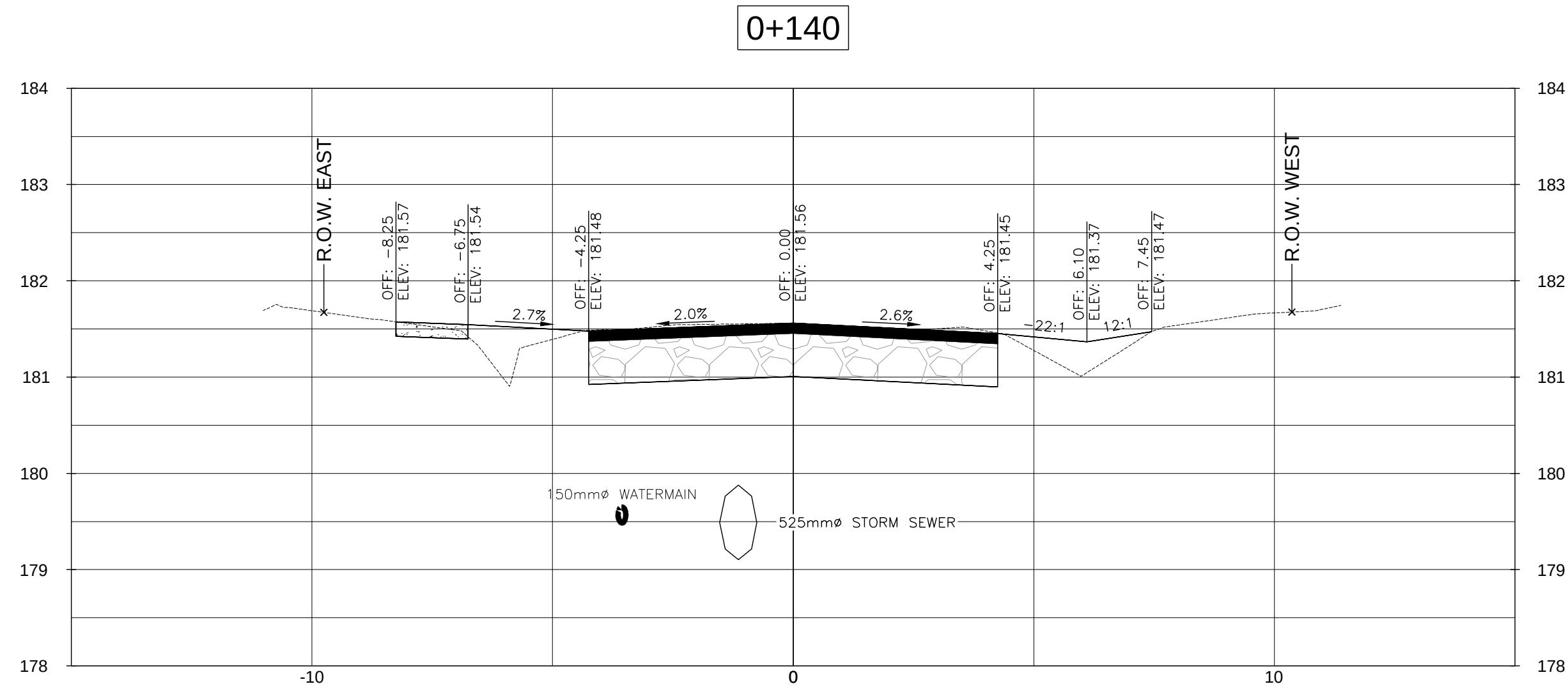
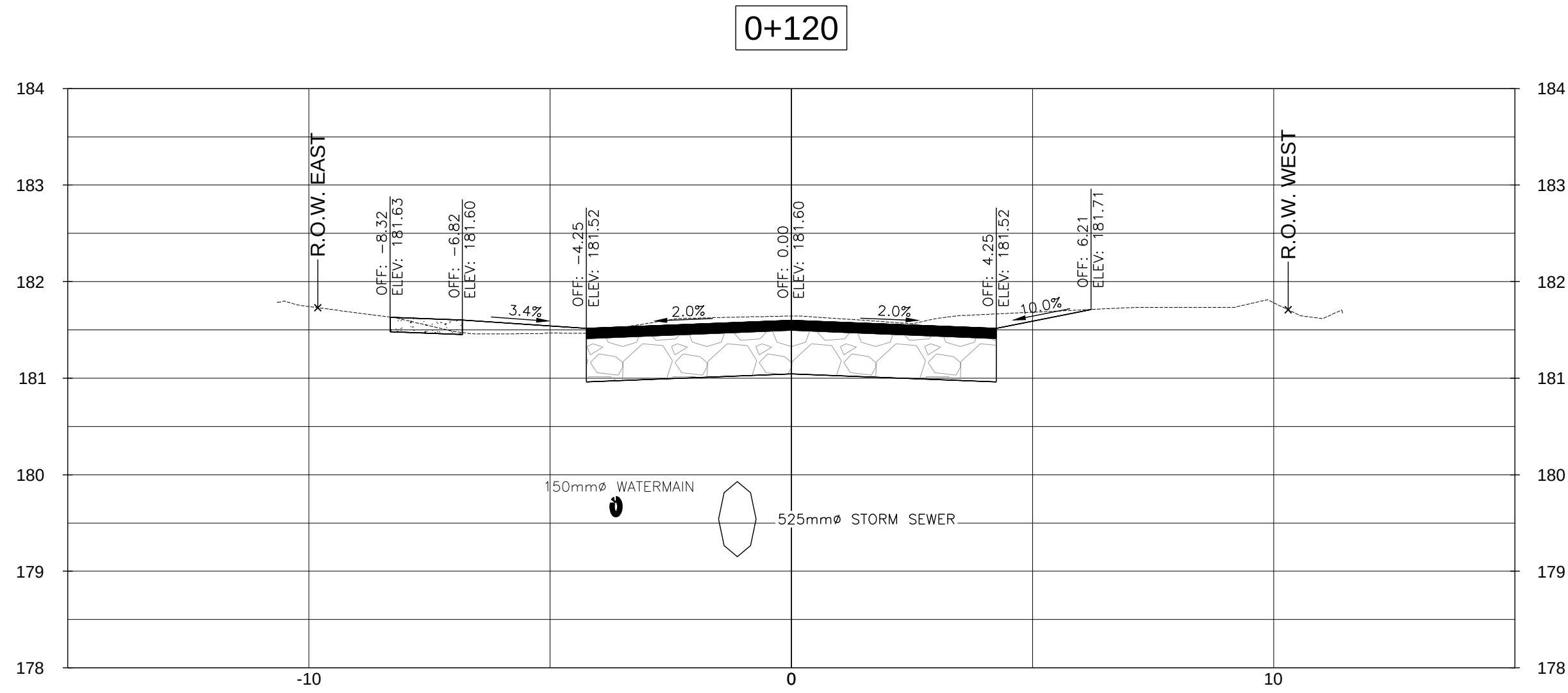
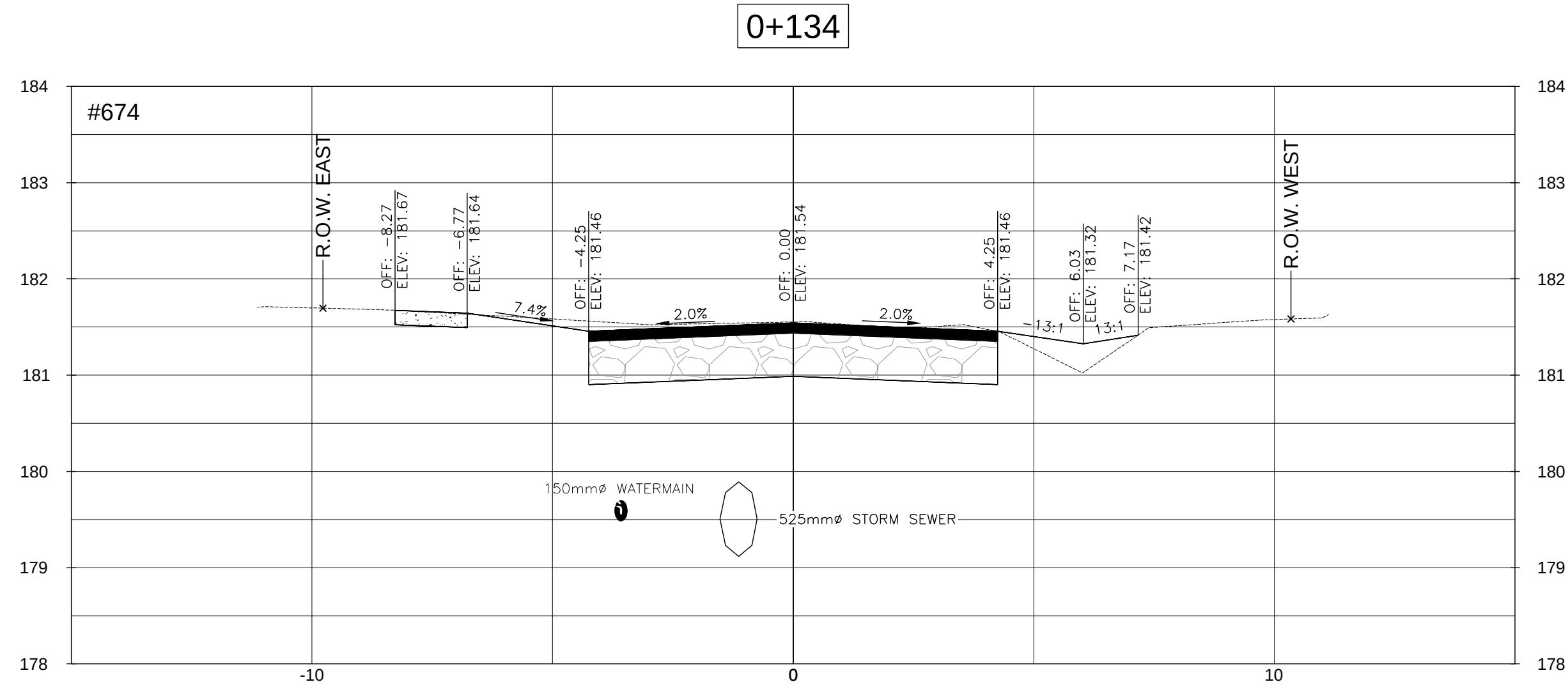
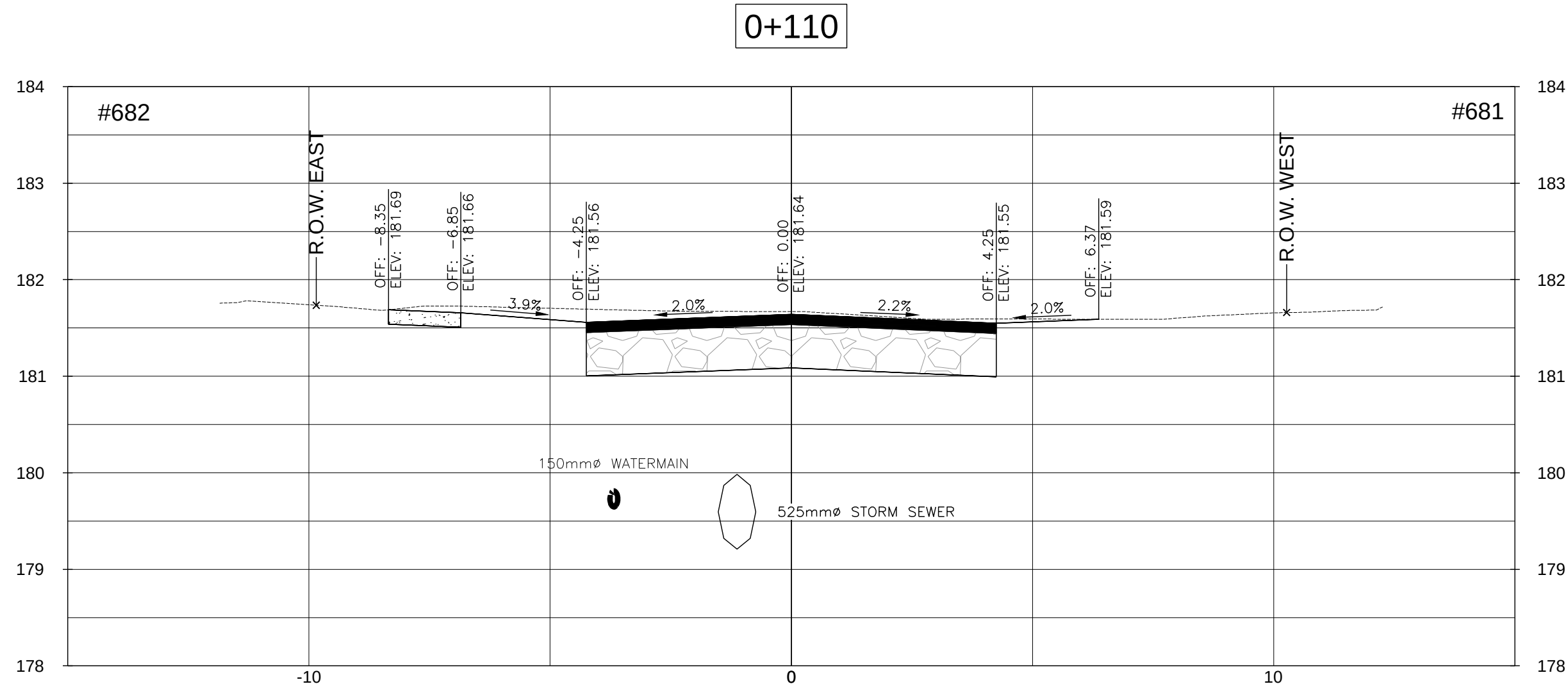
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C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
A	ISSUED FOR PRELIMINARY REVIEW	2018/08/01	SJO
NO.	REVISION	DATE	INIT.

DRAFTING	JNP
DESIGN	L.W.
CHECKED BY	R.W.
APPROVED BY	A.Y.B.



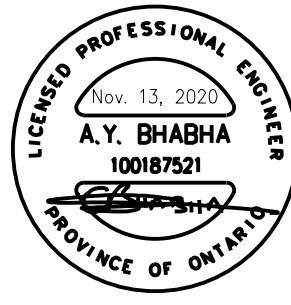
**REPLACEMENT OF EXISTING STORM
SANITARY SEWERS, WATERMAINS
AND ROAD RECONSTRUCTION**
LAKESIDE ROAD FROM PHILIP STREET TO
DOMINION ROAD, FORT EIRE
CROSS SECTIONS STA. 0+057 - STA. 0+100

CONSULTANT FILE No.	11156962
DATE	2018/08/01
SCALE	HOR: 1:100 m VER: 1:50 m
SHEET No.	
DWG No.	XSC - 2
REV.	D



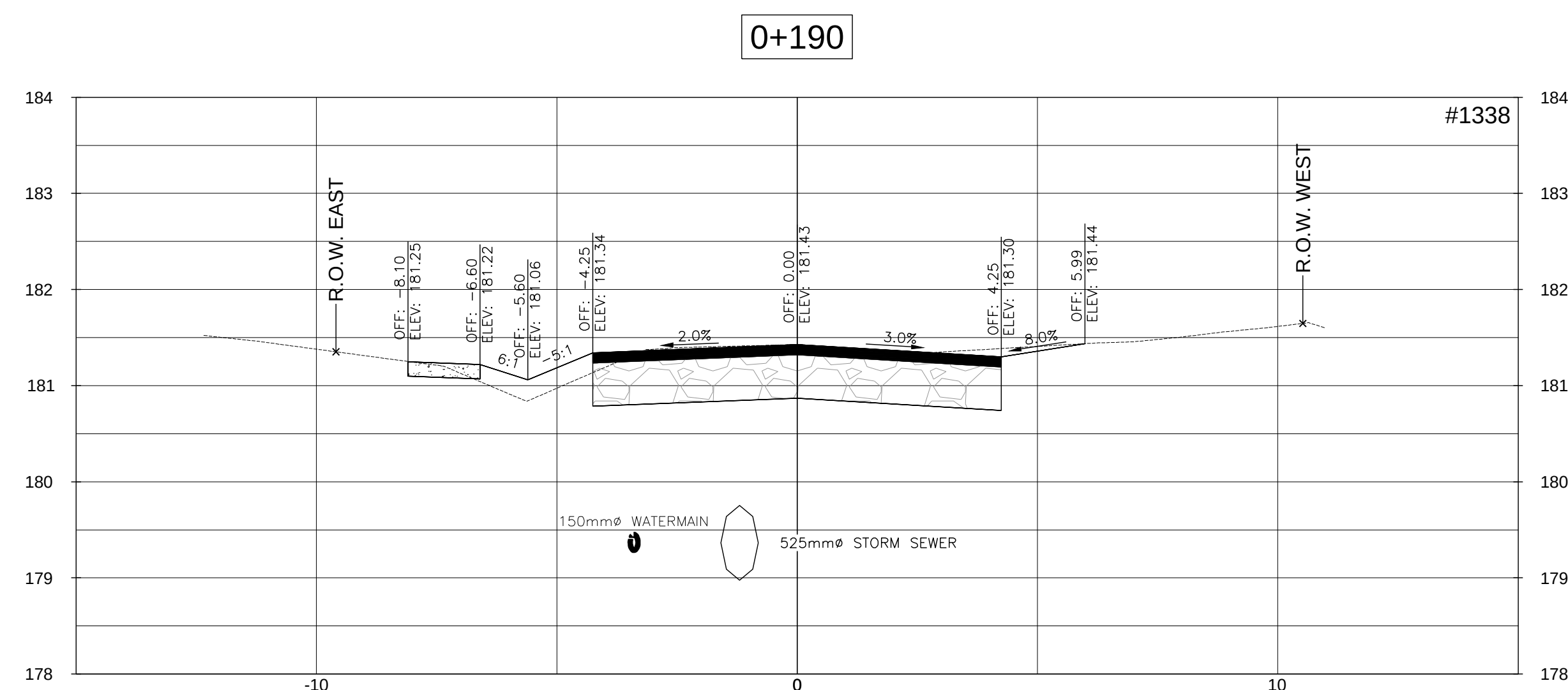
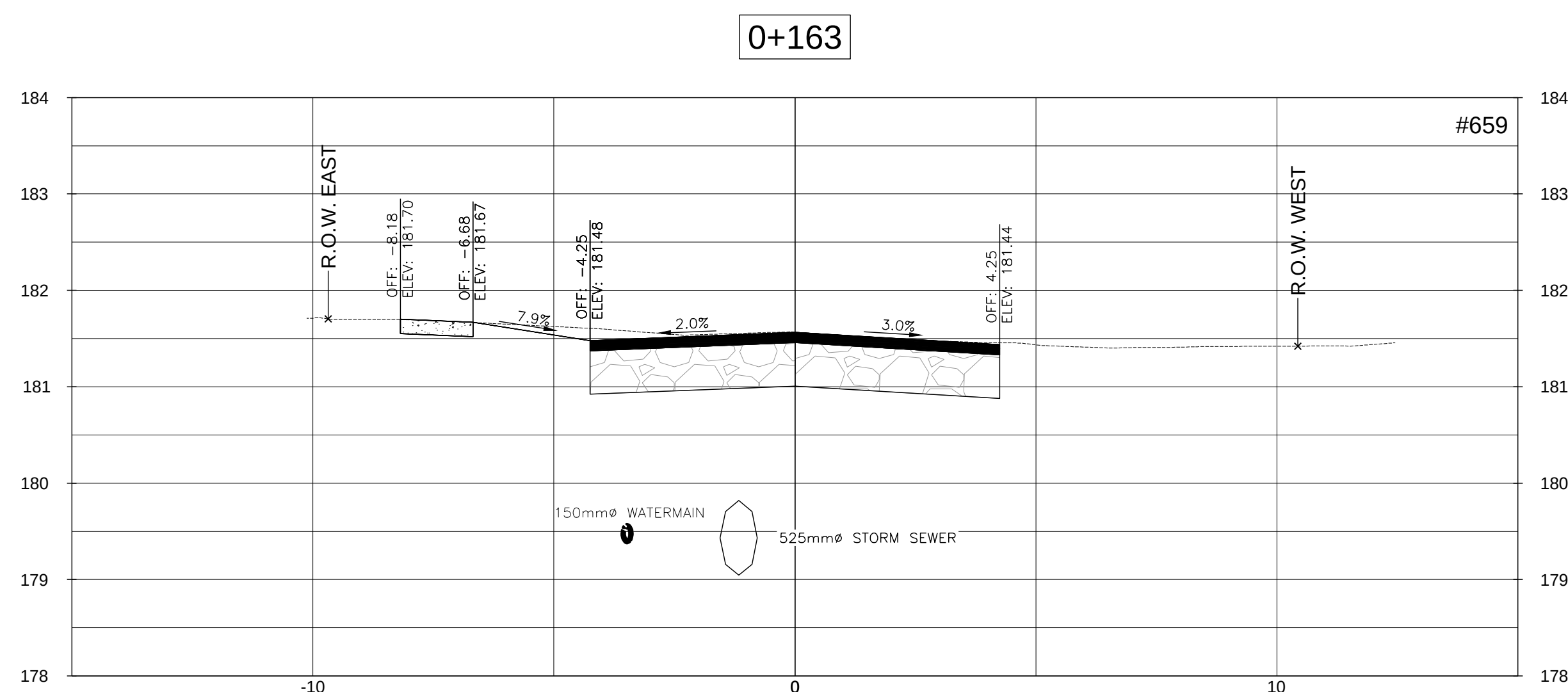
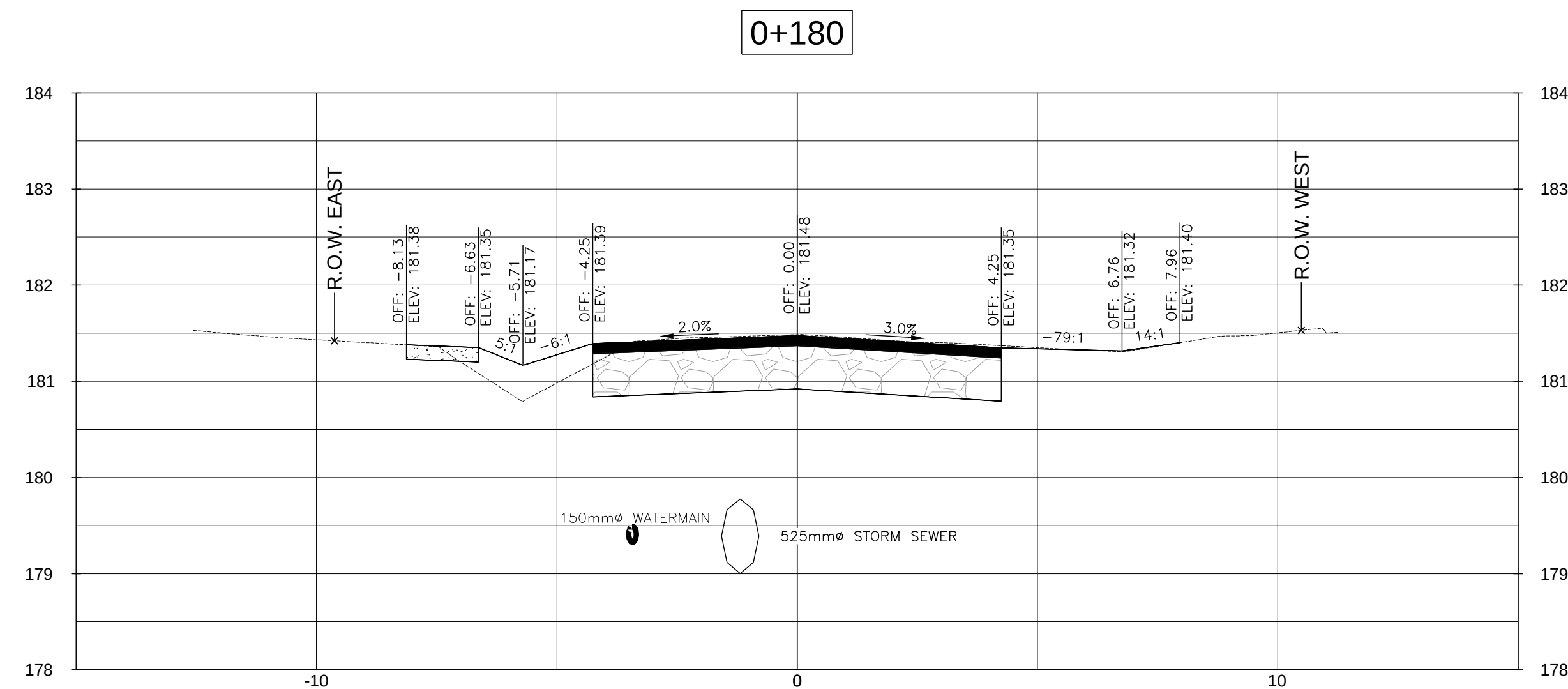
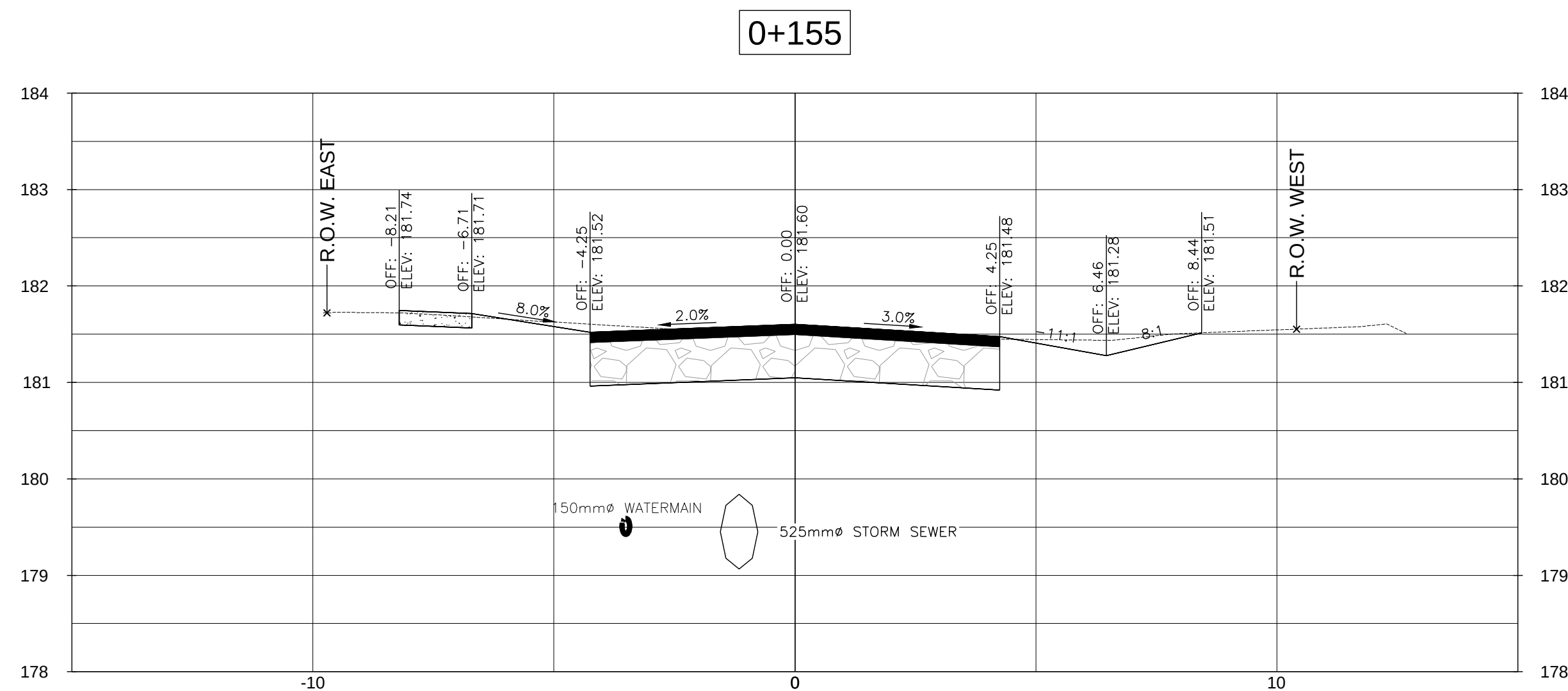
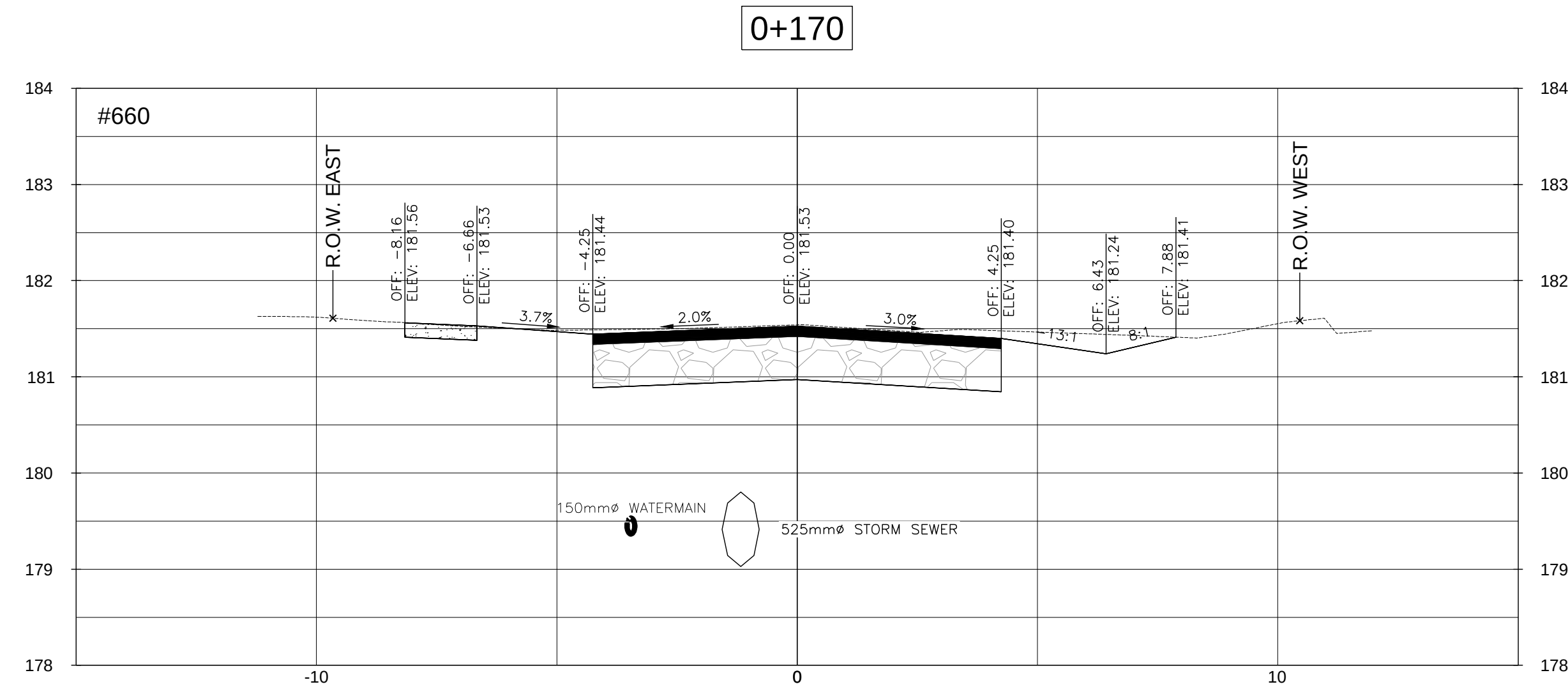
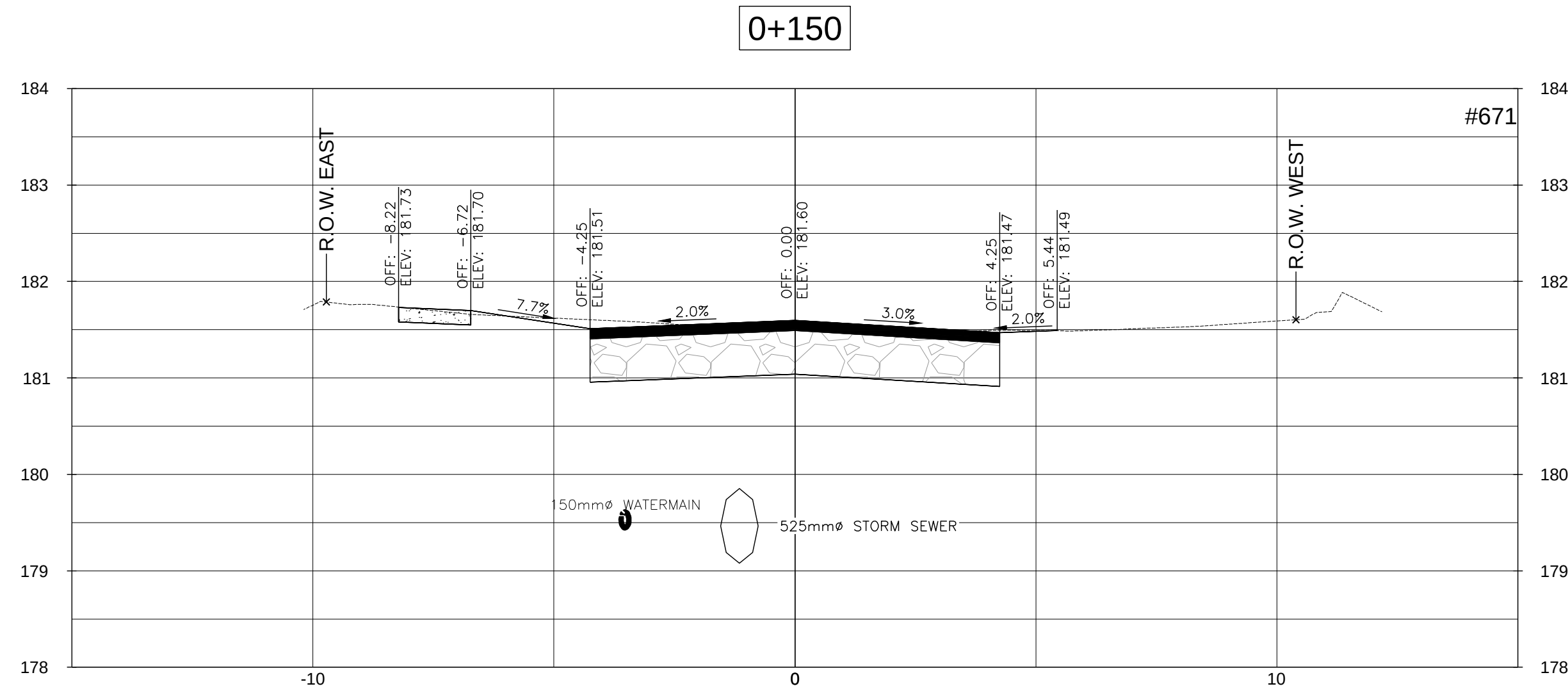
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C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
A	ISSUED FOR PRELIMINARY REVIEW	2018/08/01	SJO
NO.	REVISION	DATE	INIT.

DRAFTING	JNP
DESIGN	L.W.
CHECKED BY	R.W.
APPROVED BY	A.Y.B.



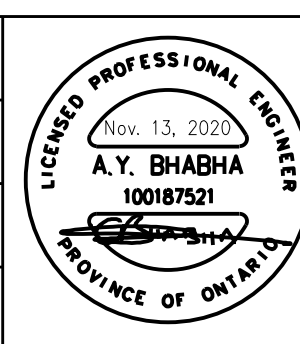
REPLACEMENT OF EXISTING STORM
SANITARY SEWERS, WATERMAINS
AND ROAD RECONSTRUCTION
LAKESIDE ROAD FROM PHILIP STREET TO
DOMINION ROAD, FORT EIRE
CROSS SECTIONS STA. 0+110 - STA. 0+143

CONSULTANT FILE No. 11156962	REV.
DATE 2018/08/01	D
SCALE HOR: 1:100 m VER: 1:50 m	
SHEET No.	
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XSC - 3	



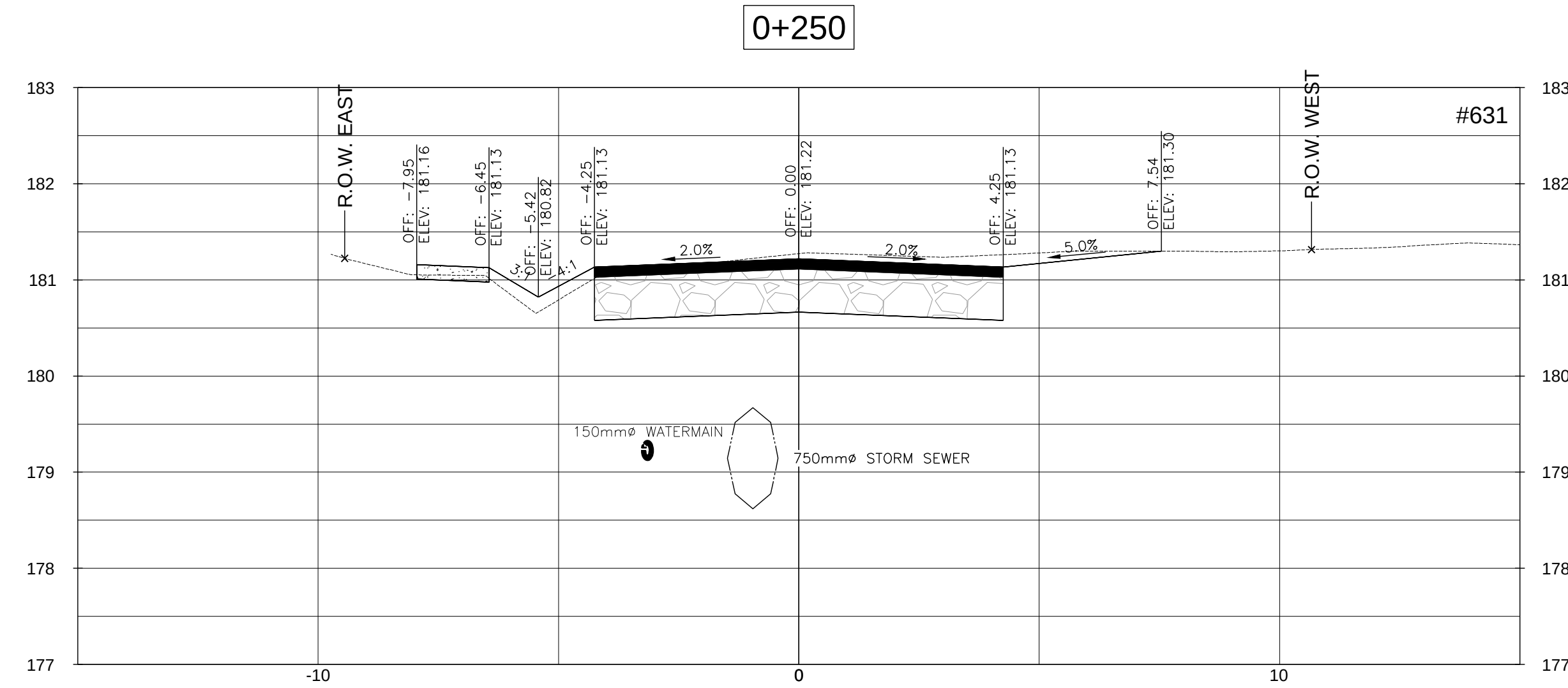
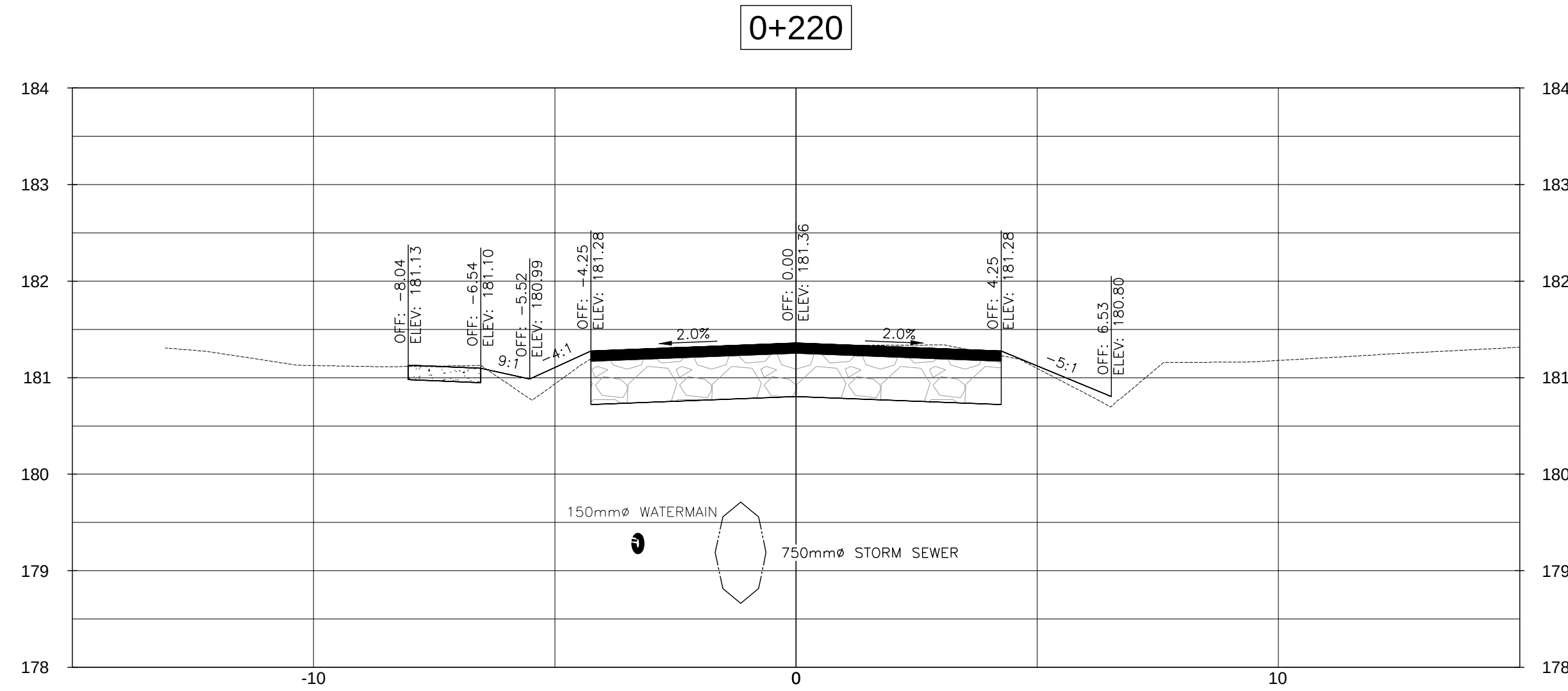
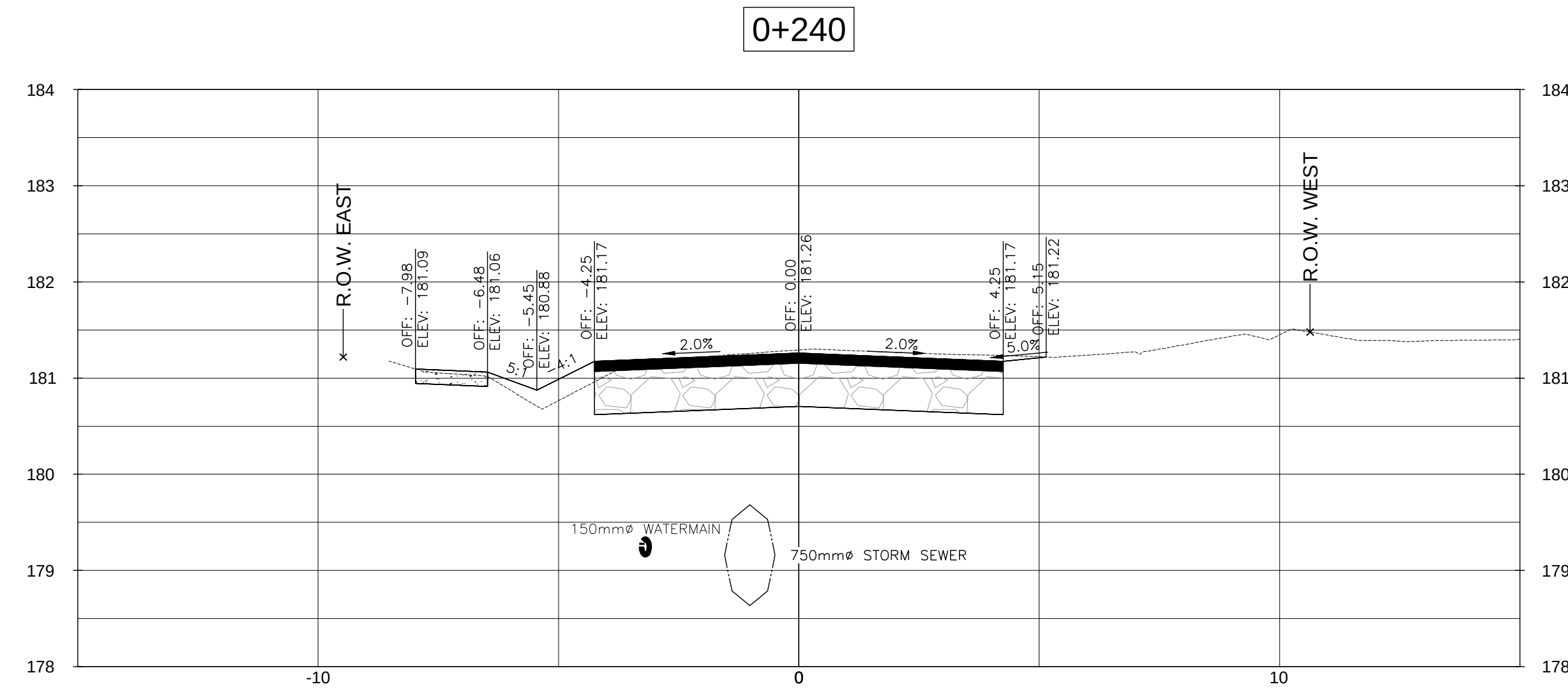
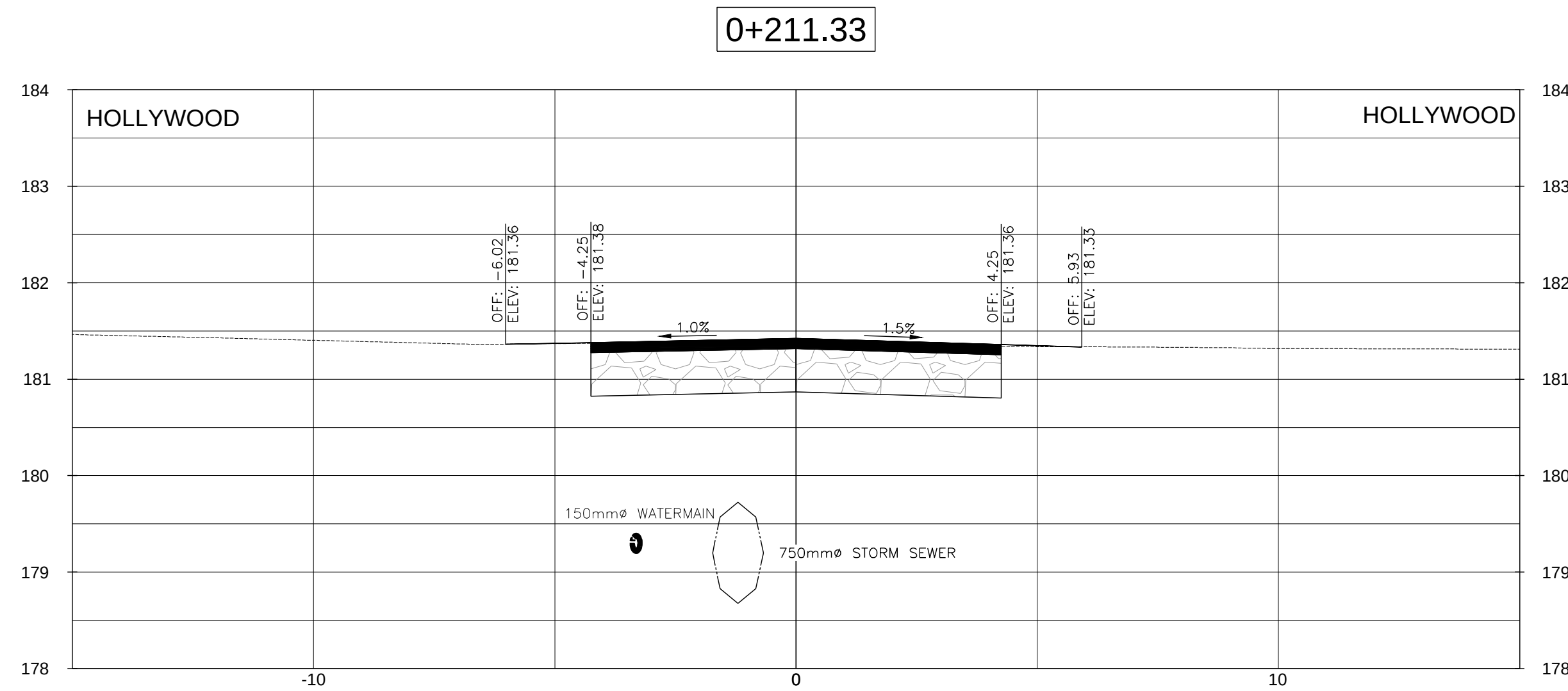
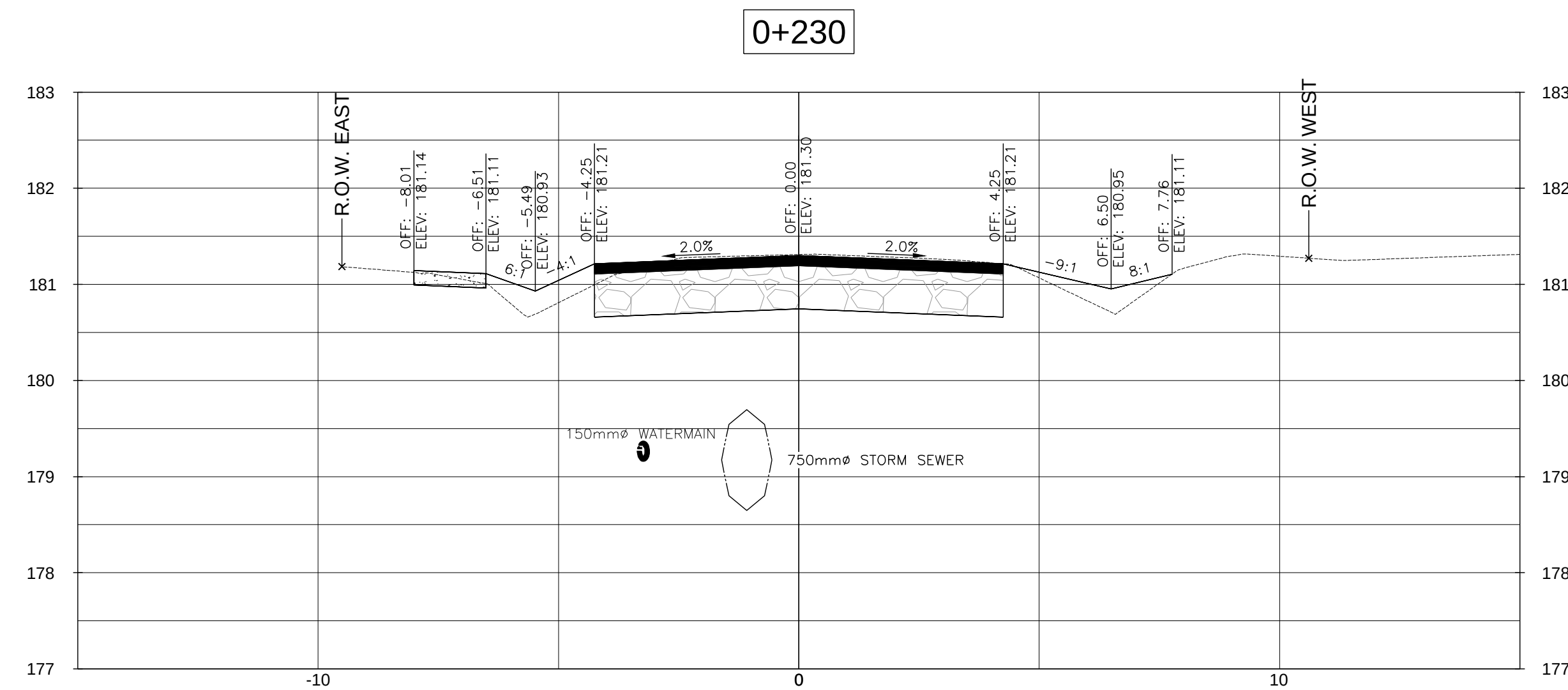
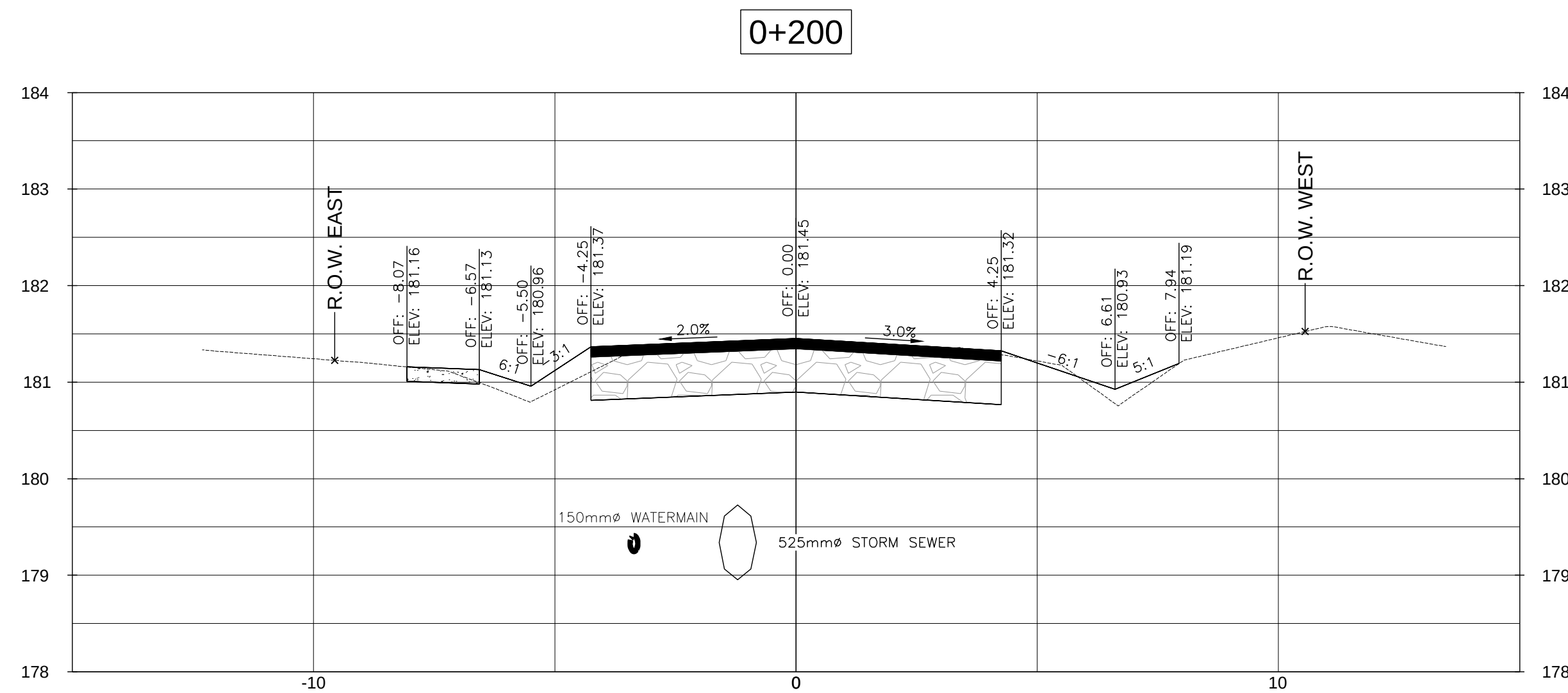
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C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
A	ISSUED FOR PRELIMINARY REVIEW	2018/08/01	SJO
NO.	REVISION	DATE	INIT.

DRAFTING	JNP
DESIGN	L.W.
CHECKED BY	R.W.
APPROVED BY	A.Y.B.



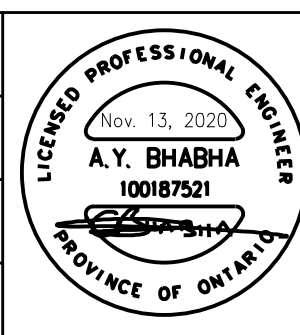
REPLACEMENT OF EXISTING STORM
SANITARY SEWERS, WATERMAINS
AND ROAD RECONSTRUCTION
LAKESIDE ROAD FROM PHILIP STREET TO
DOMINION ROAD, FORT EIRE
CROSS SECTIONS STA. 0+150 - STA. 0+190

CONSULTANT FILE No. 11156962	REV.
DATE 2018/08/01	D
SCALE HOR: 1:100 m VER: 1:50 m	
SHEET No.	
DWG No.	
XSC - 4	



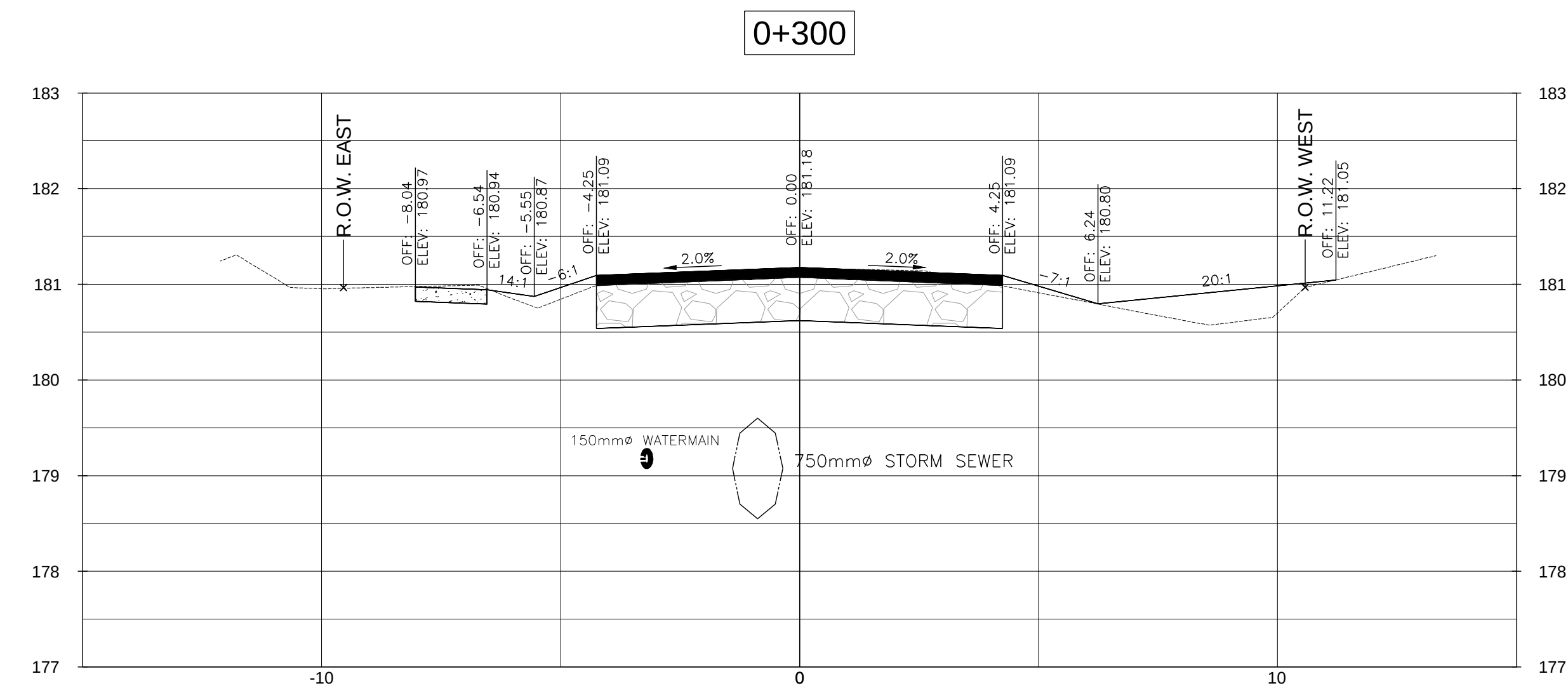
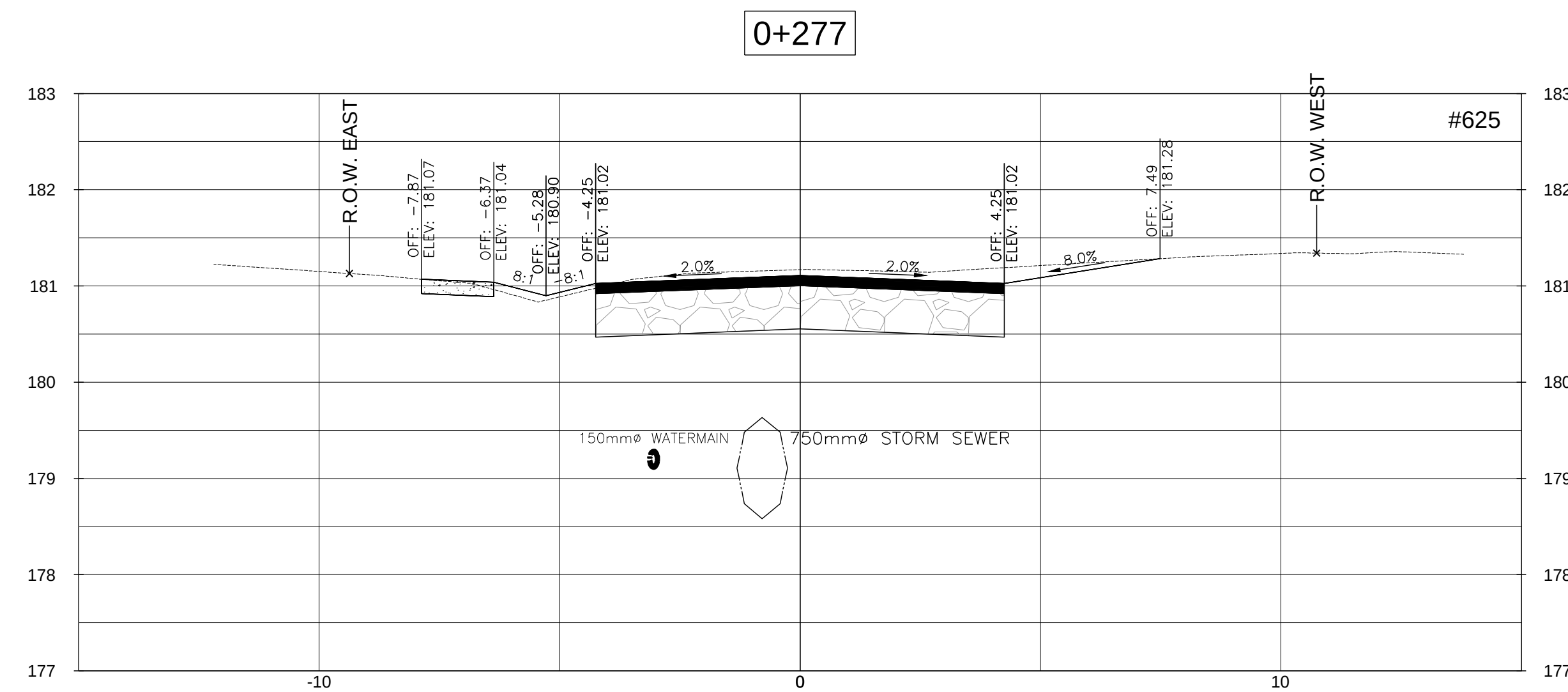
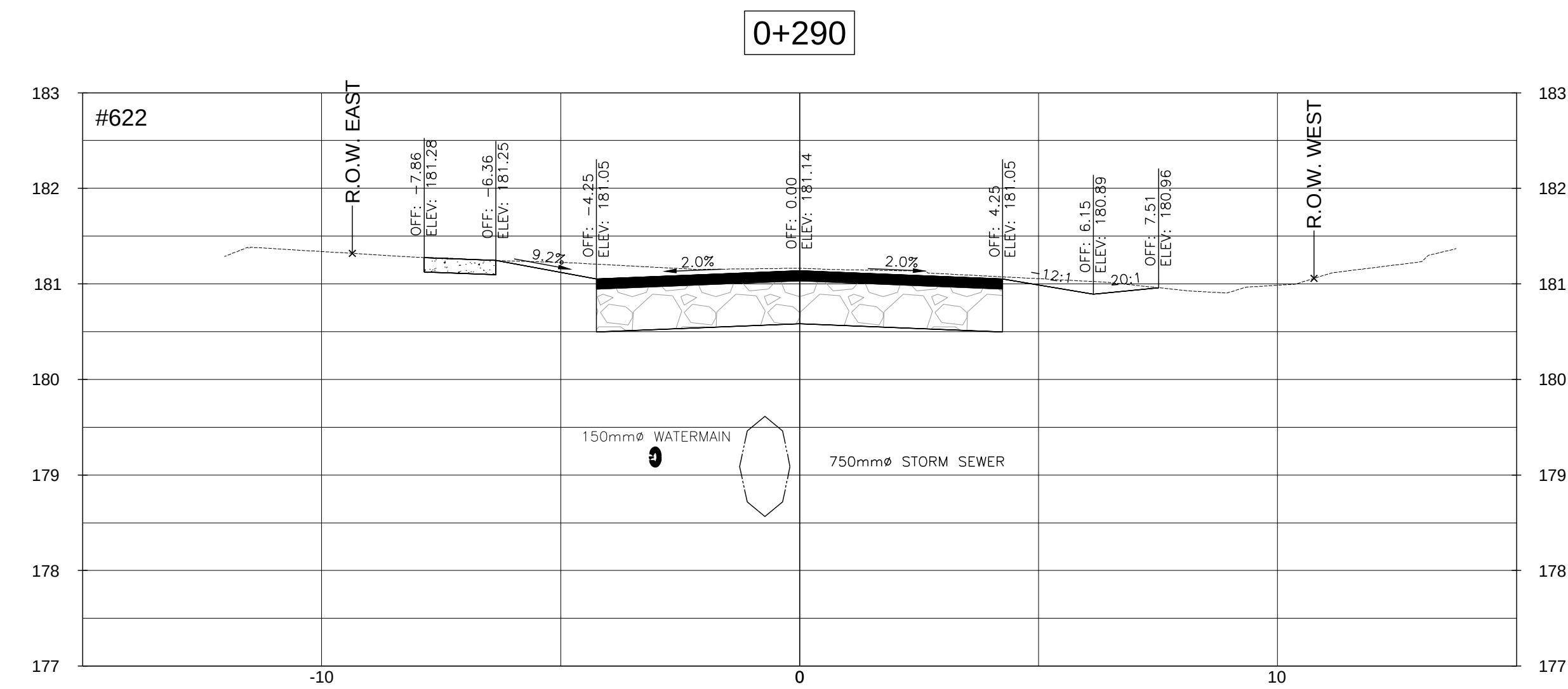
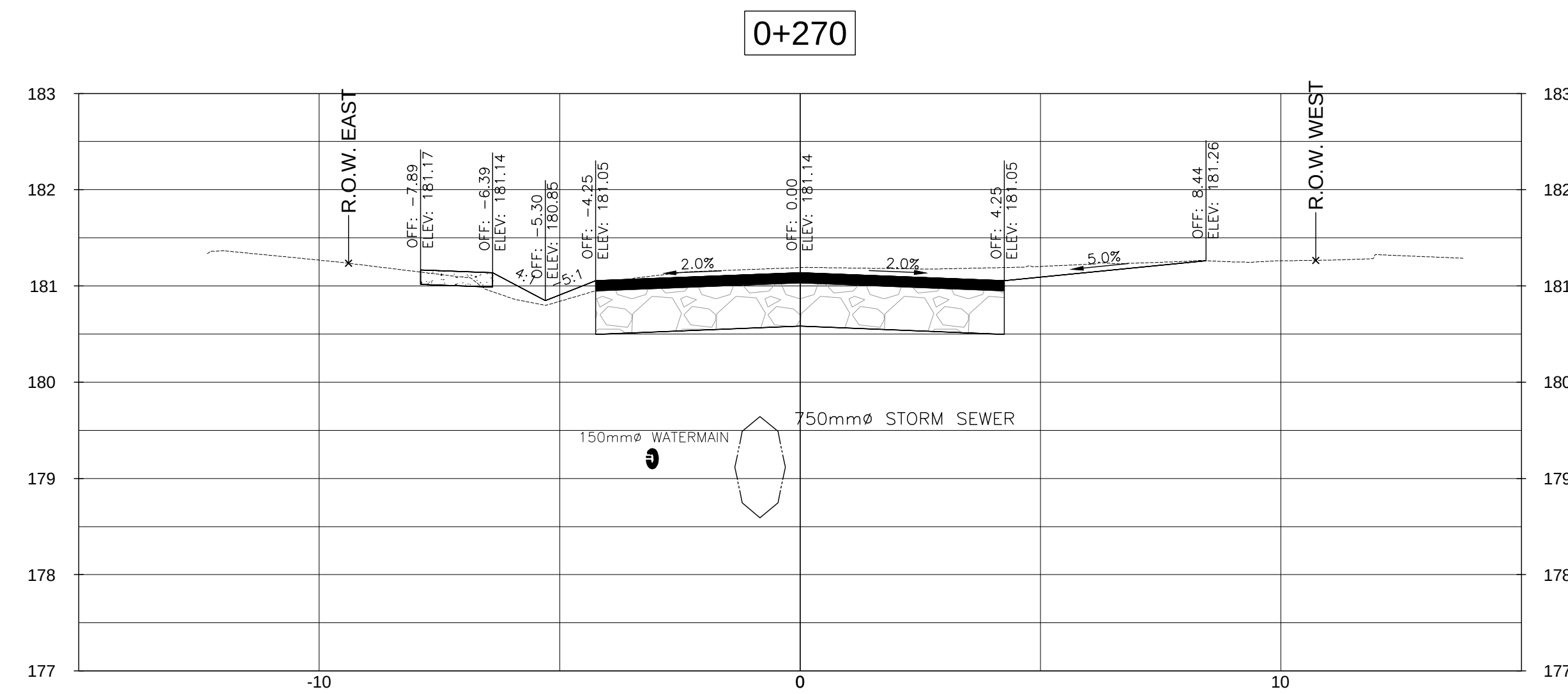
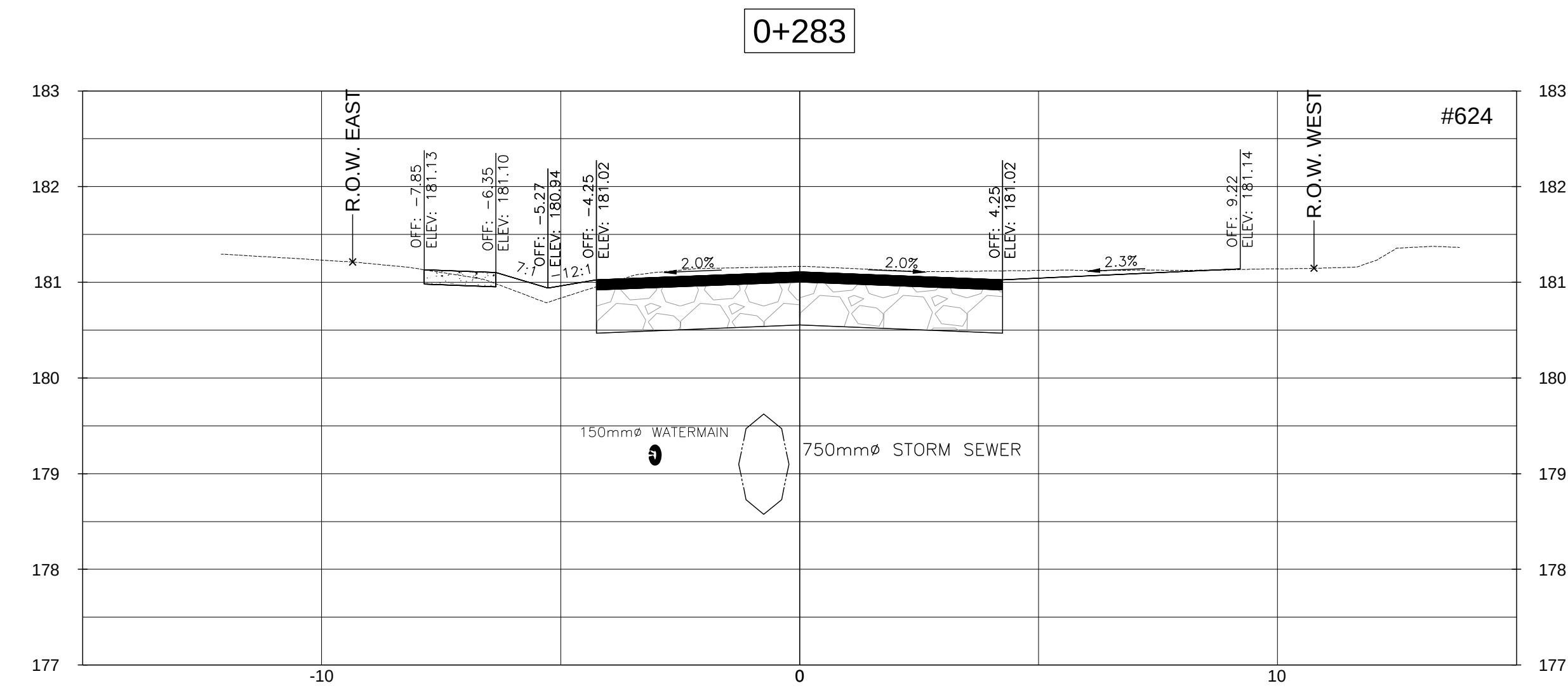
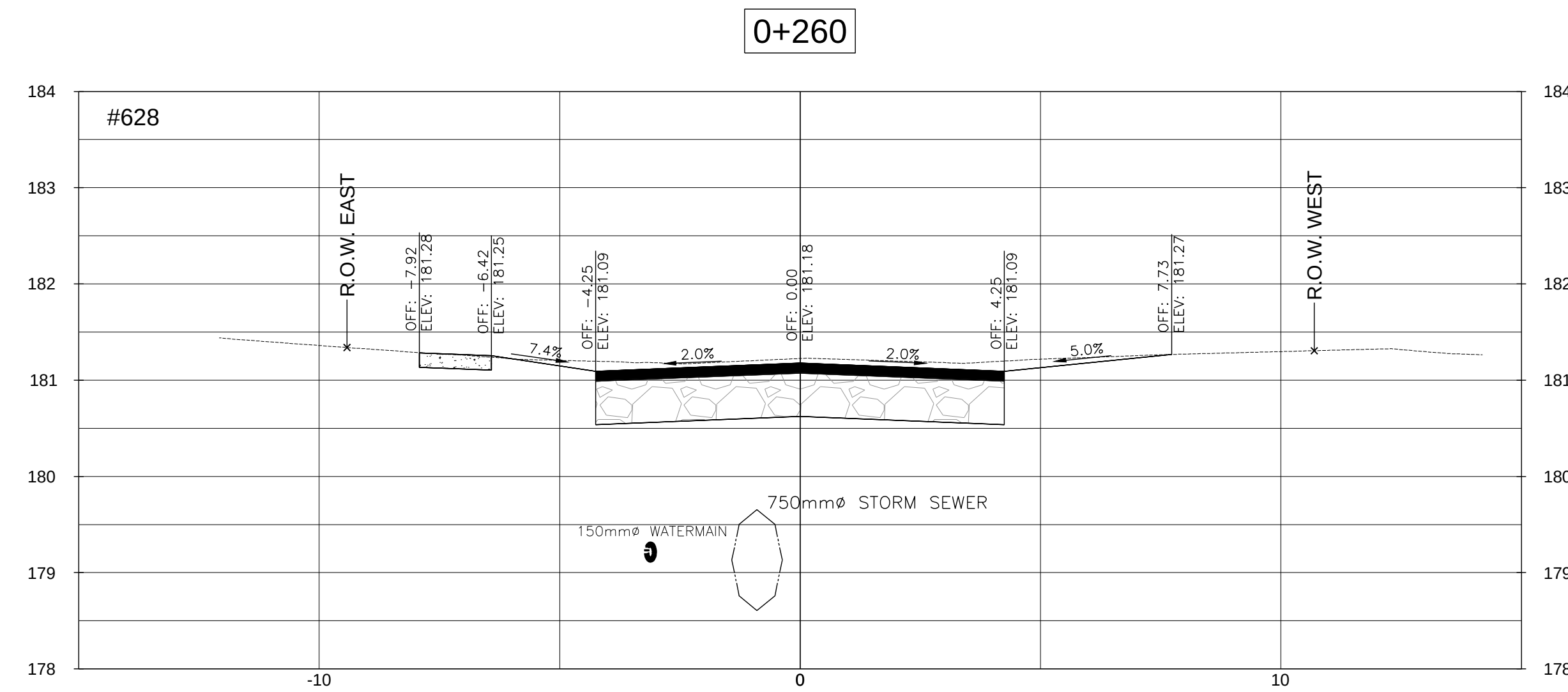
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B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
A	ISSUED FOR PRELIMINARY REVIEW	2018/08/01	SJO
NO.	REVISION	DATE	INIT.

DRAFTING
JNP
DESIGN
L.W.
CHECKED BY
R.W.
APPROVED BY
A.Y.B.



REPLACEMENT OF EXISTING STORM
SANITARY SEWERS, WATERMAINS
AND ROAD RECONSTRUCTION
LAKESIDE ROAD FROM PHILIP STREET TO
DOMINION ROAD, FORT EIRE
CROSS SECTIONS STA. 0+200 - STA. 0+250

CONSULTANT FILE No. 11156962	REV.
DATE 2018/08/01	D
SCALE HOR: 1:100 m VER: 1:50 m	
SHEET No.	
DWG No.	
XSC - 5	



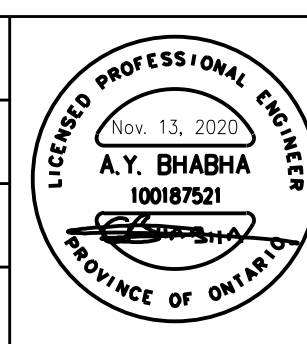
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C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
A	ISSUED FOR PRELIMINARY REVIEW	2018/08/01	S.O.
NO.	REVISION	DATE	INIT.

DRAFTING
JNP

DESIGN
L.W.

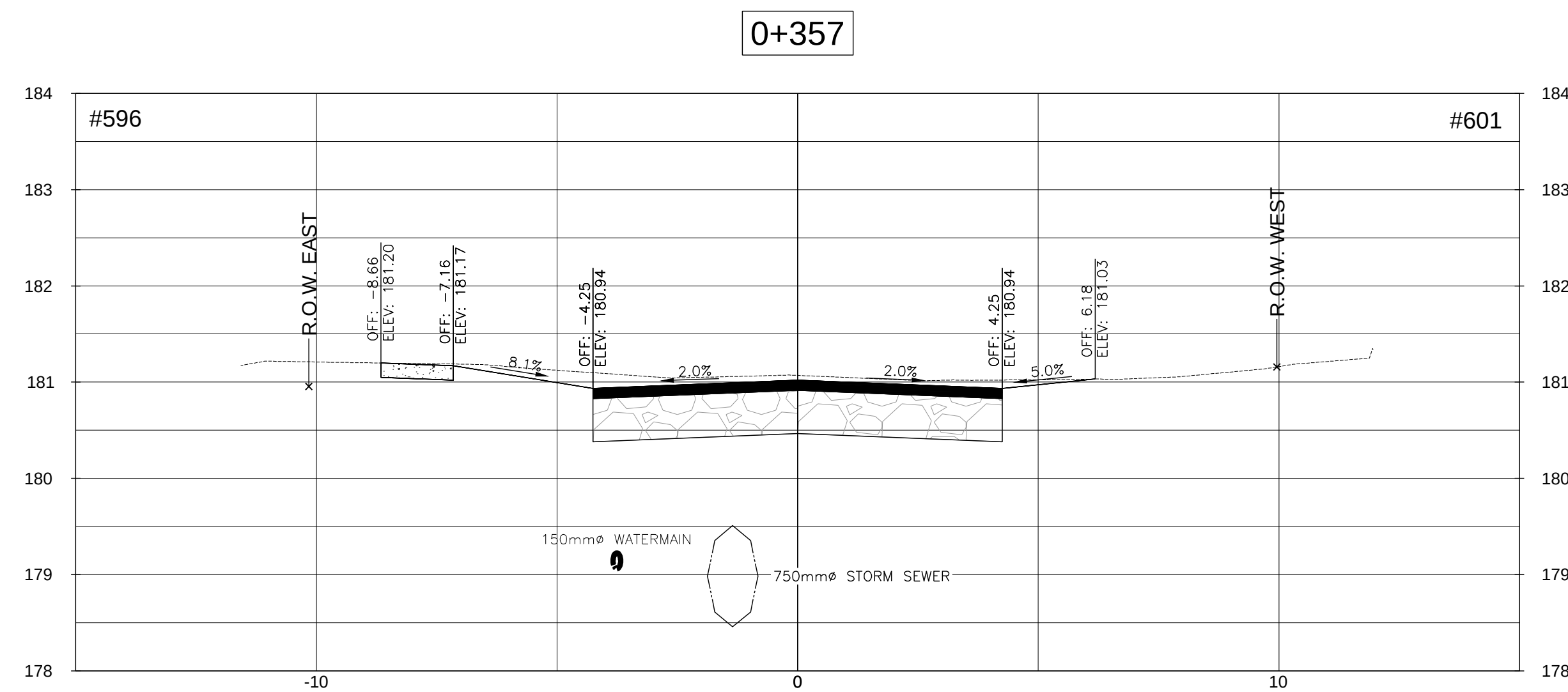
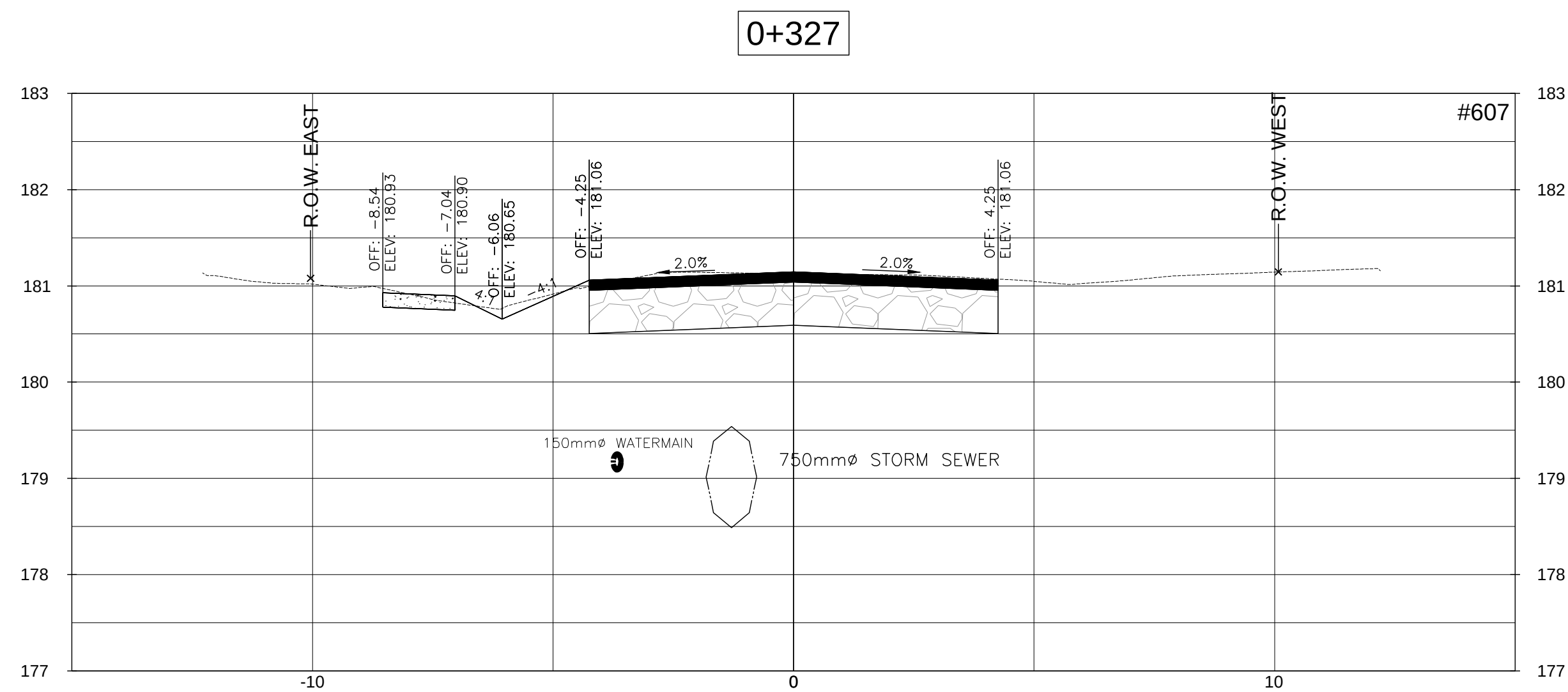
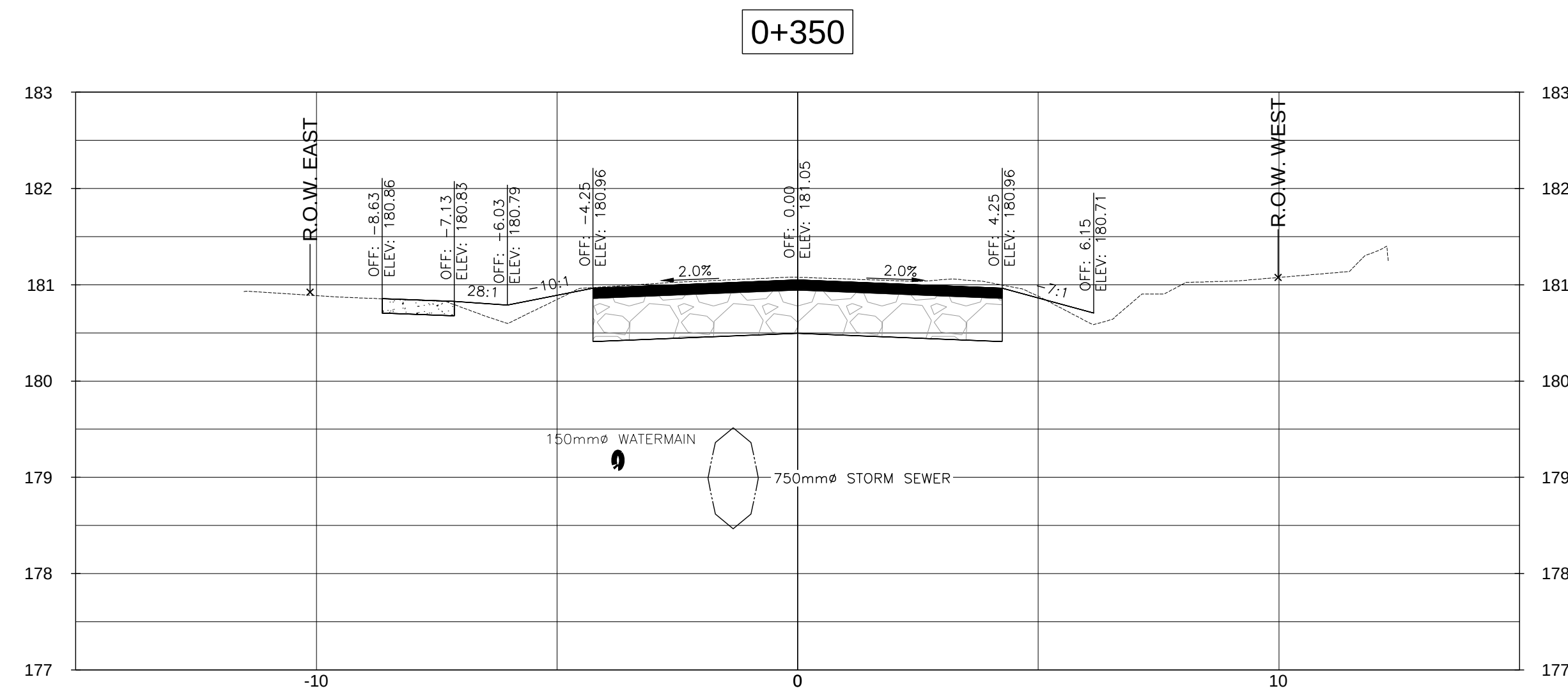
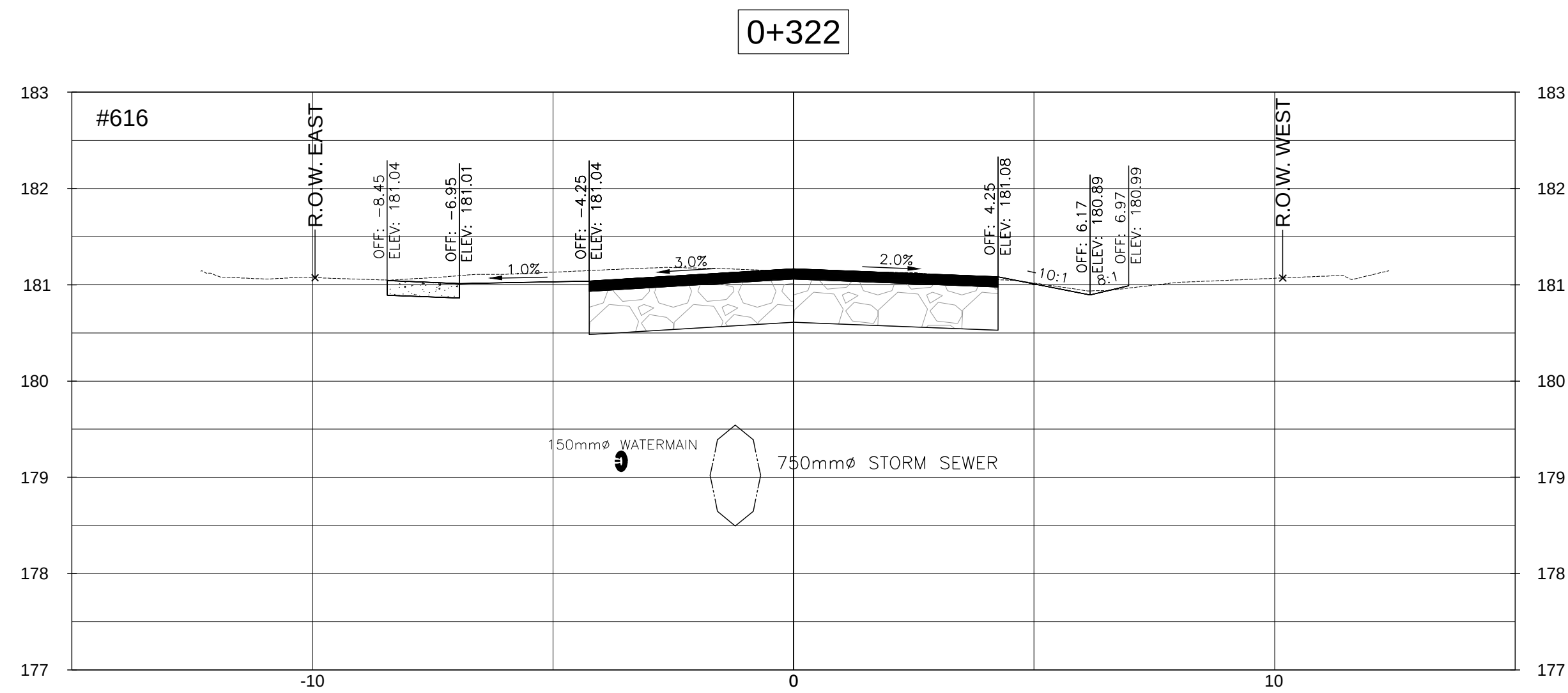
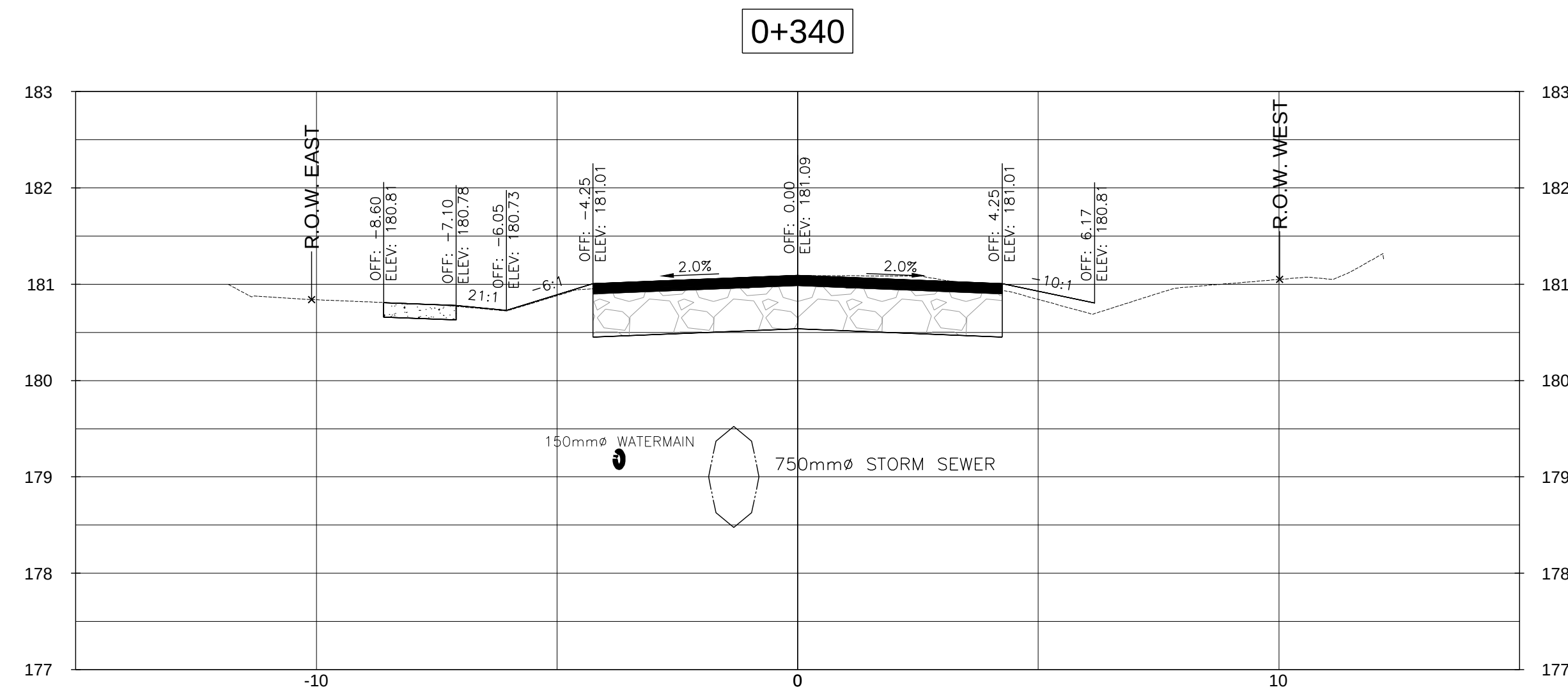
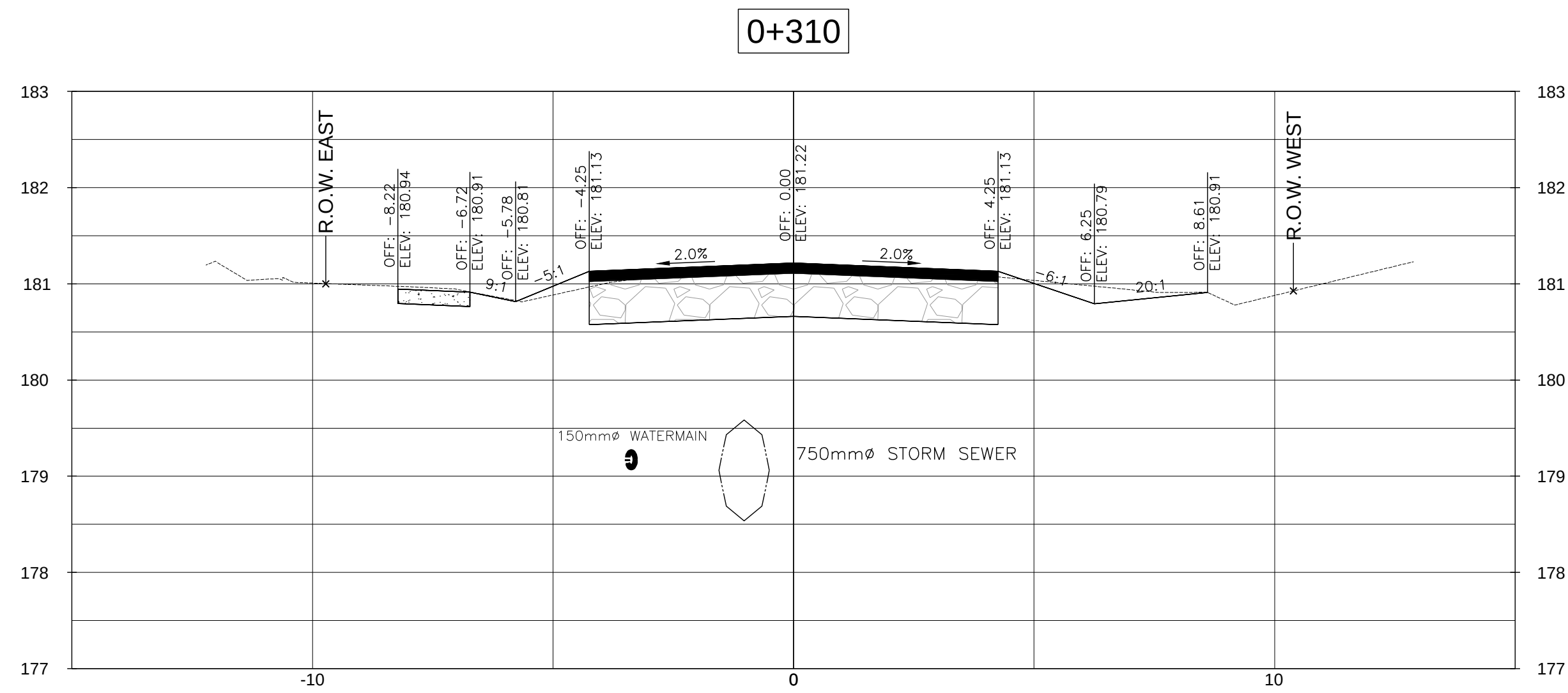
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APPROVED BY
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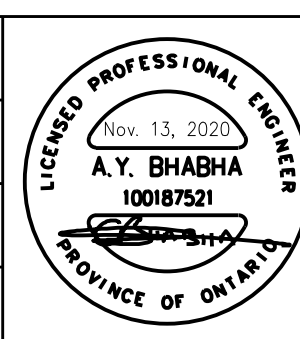
REPLACEMENT OF EXISTING STORM
SANITARY SEWERS, WATERMAINS
AND ROAD RECONSTRUCTION
LAKESIDE ROAD FROM PHILIP STREET TO
DOMINION ROAD, FORT EIRE
CROSS SECTIONS STA. 0+260 - STA. 0+300

CONSULTANT FILE No. 11156962	REV.
DATE 2018/08/01	D
SCALE HOR: 1:100 m VER: 1:50 m	
SHEET No.	
DWG No.	
XSC - 6	



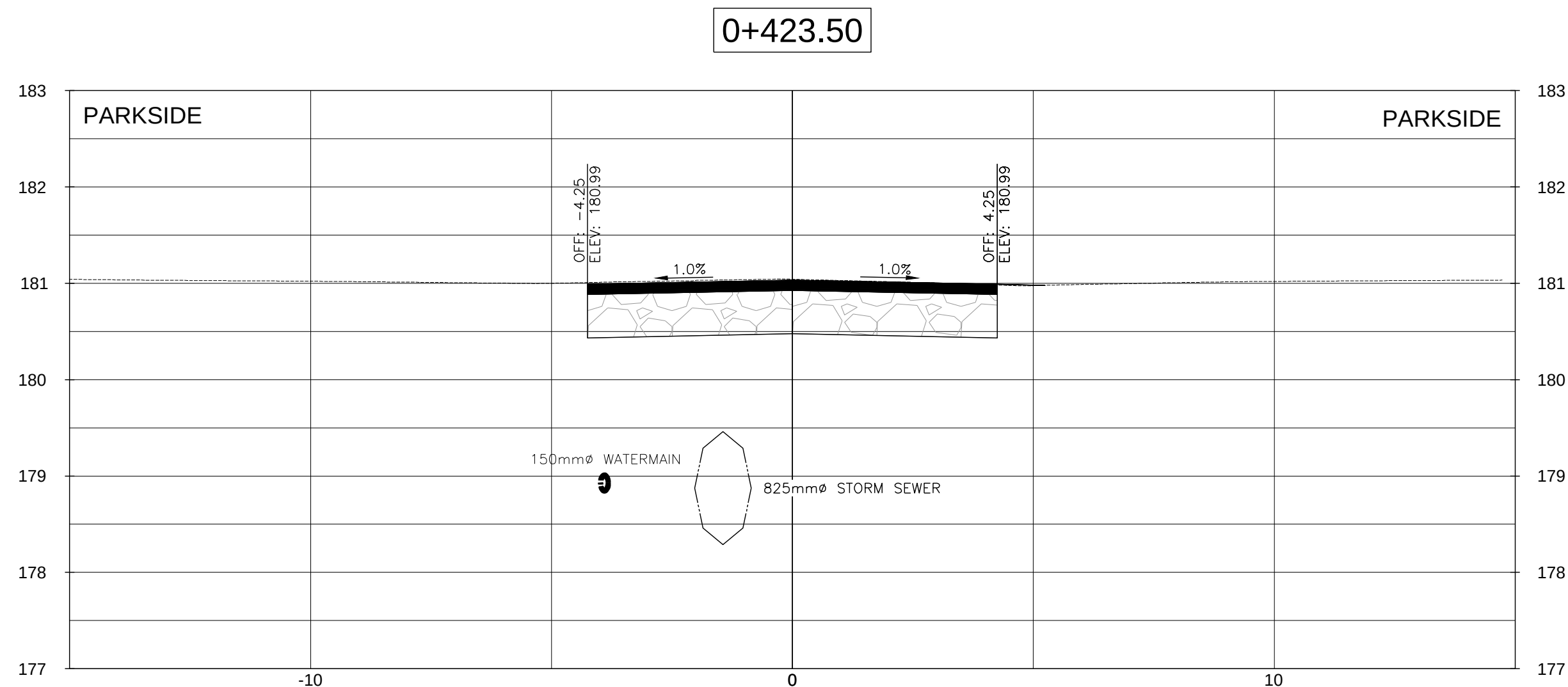
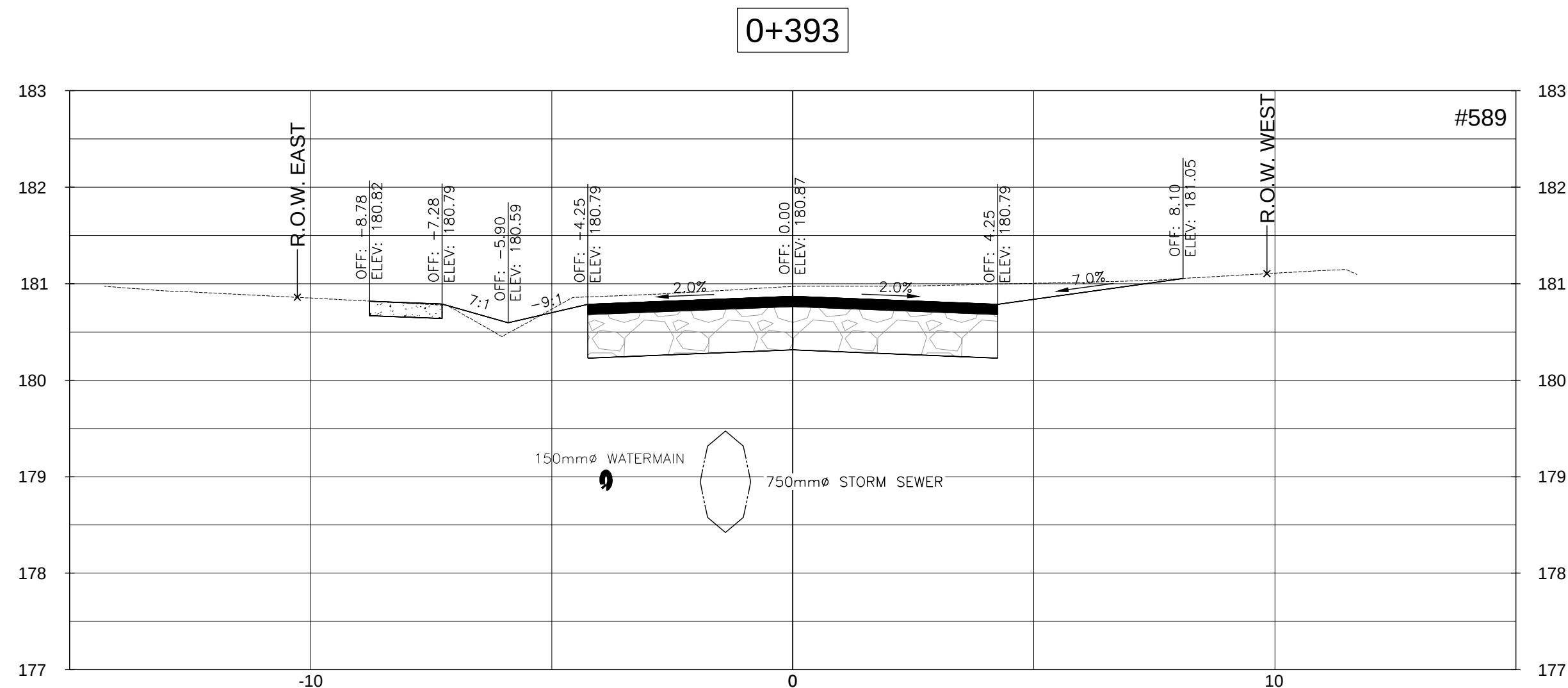
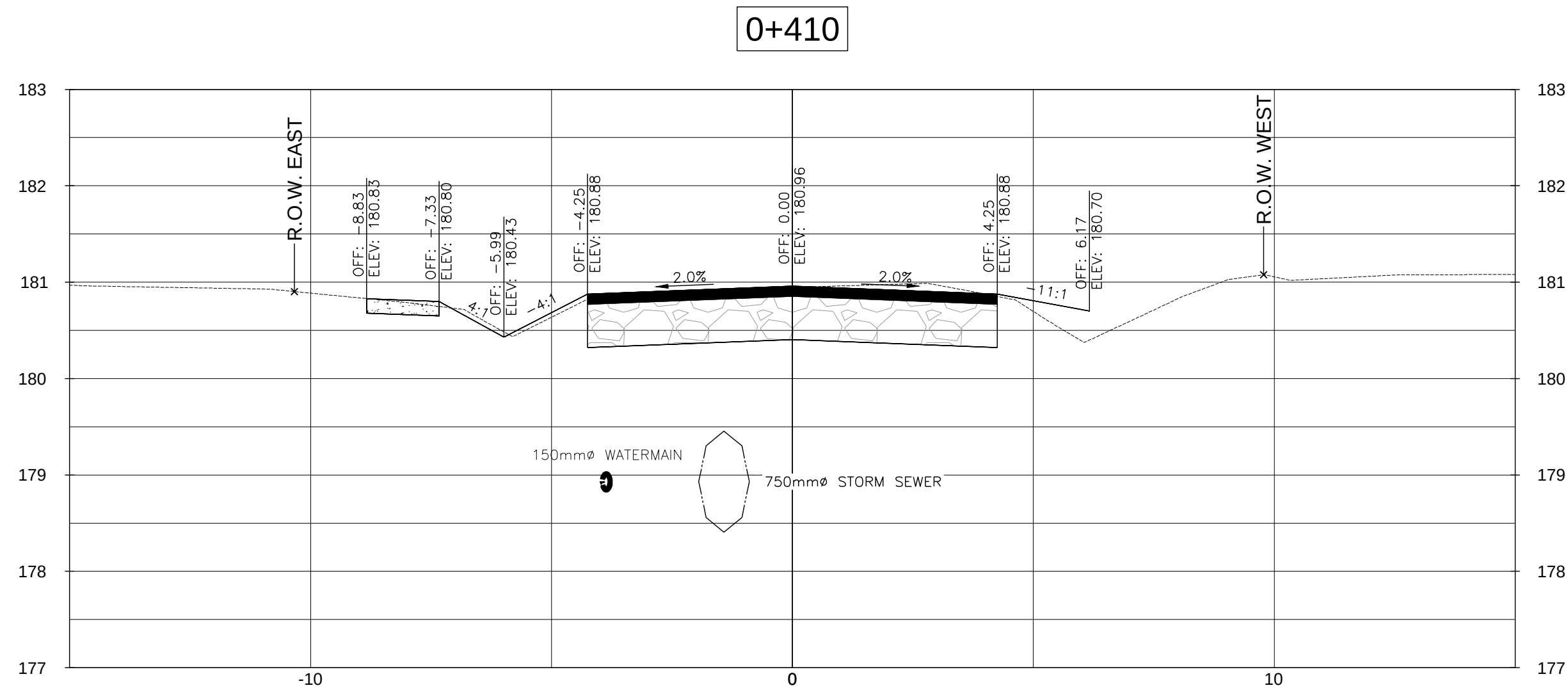
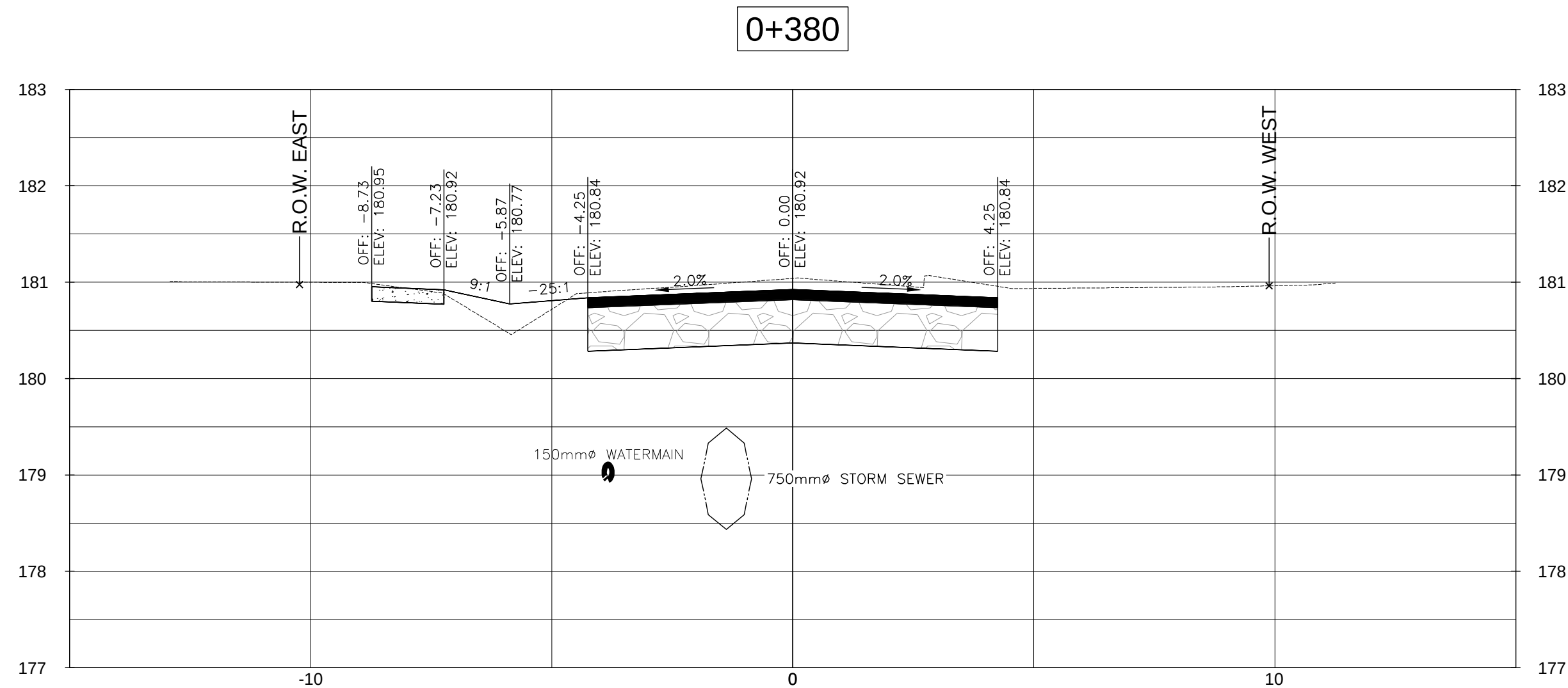
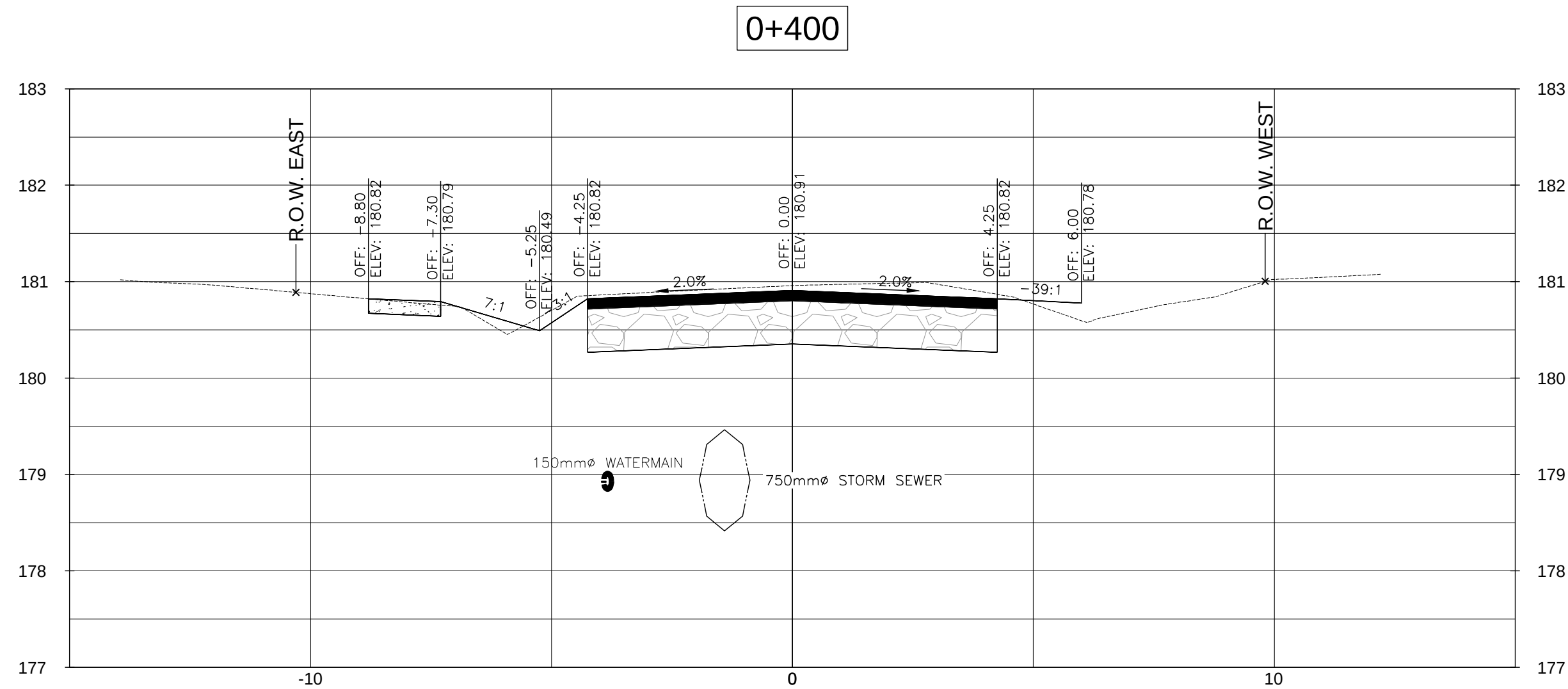
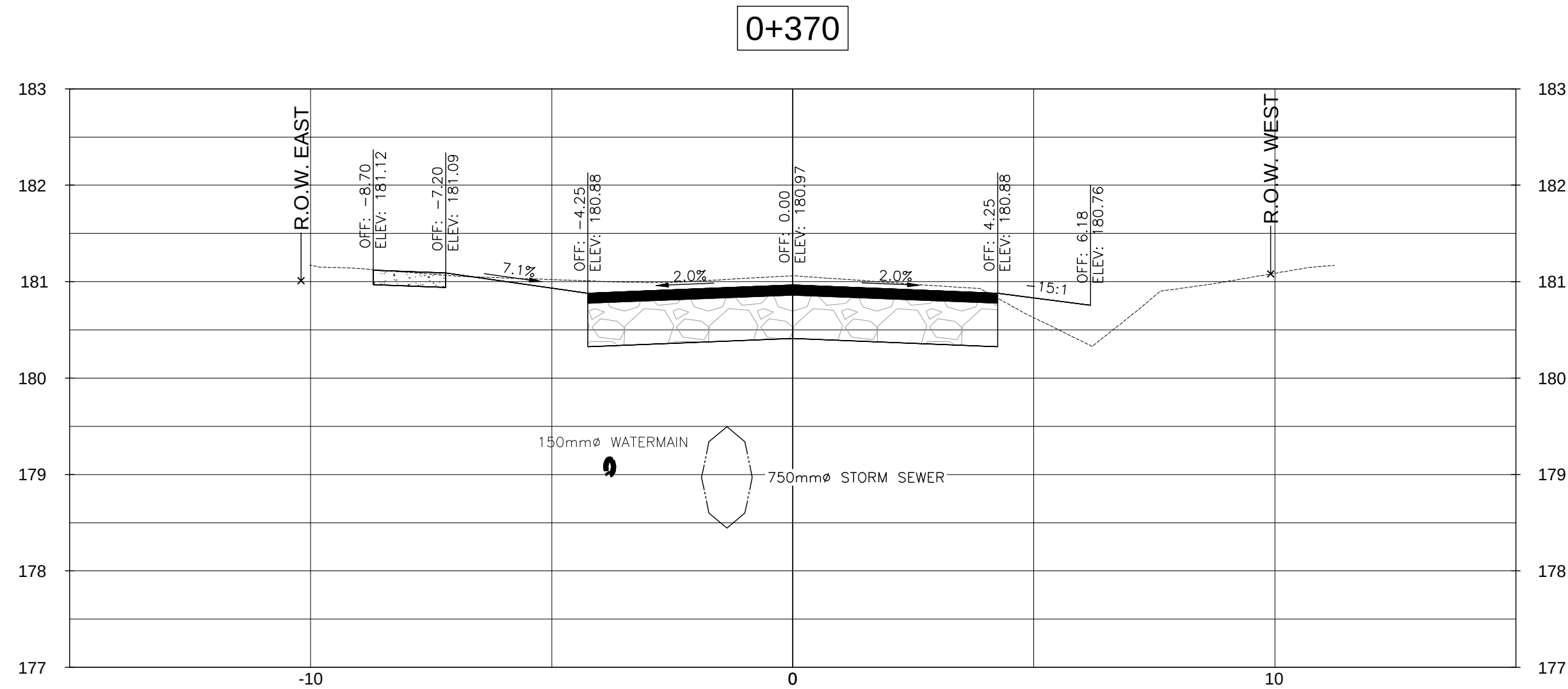
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C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
A	ISSUED FOR PRELIMINARY REVIEW	2018/08/01	SJO
NO.	REVISION	DATE	INIT.

DRAFTING
JNP
DESIGN
L.W.
CHECKED BY
R.W.
APPROVED BY
A.Y.B.



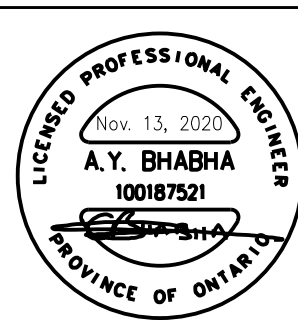
REPLACEMENT OF EXISTING STORM
SANITARY SEWERS, WATERMAINS
AND ROAD RECONSTRUCTION
LAKESIDE ROAD FROM PHILIP STREET TO
DOMINION ROAD, FORT EIRE
CROSS SECTIONS STA. 0+310 - STA. 0+357

CONSULTANT FILE No. 11156962	REV.
DATE 2018/08/01	D
SCALE HOR: 1:100 m VER: 1:50 m	
SHEET No.	
DWG No.	
XSC - 7	



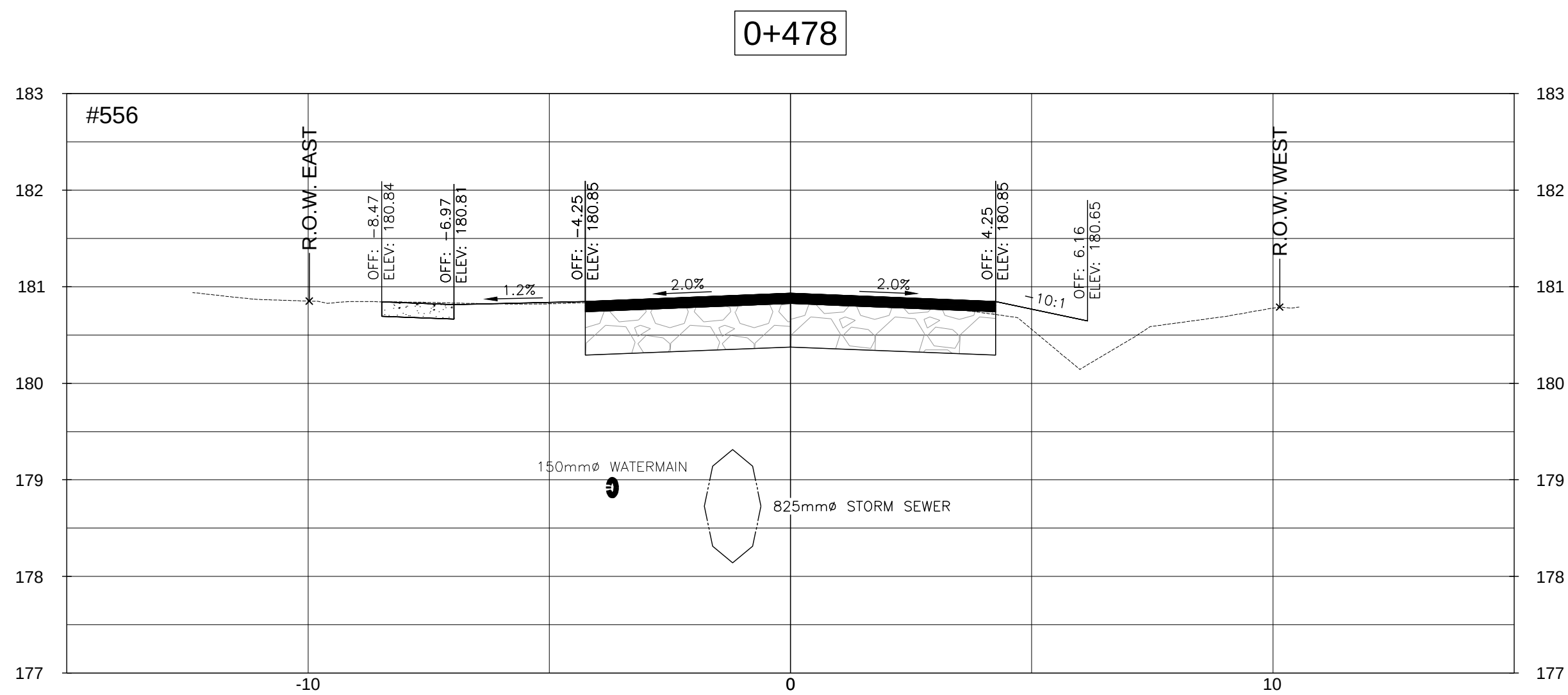
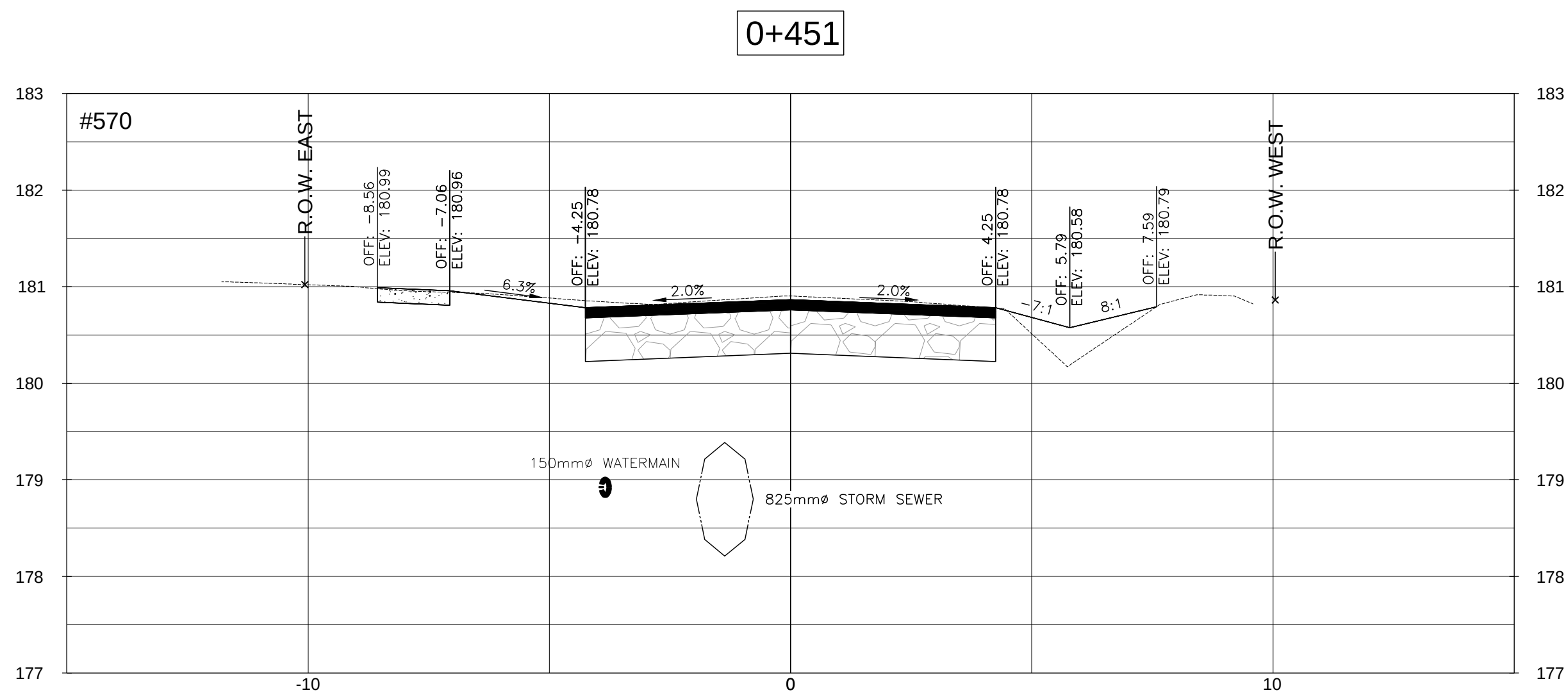
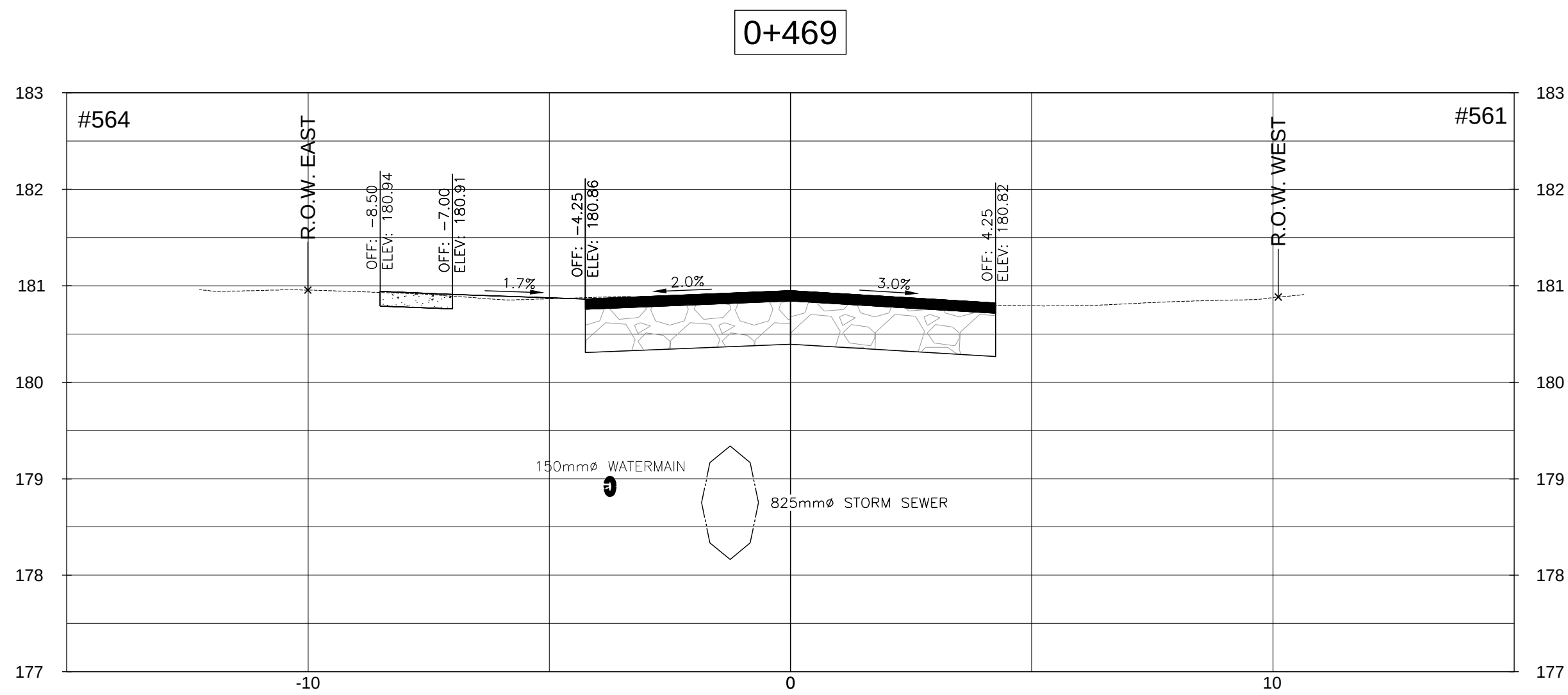
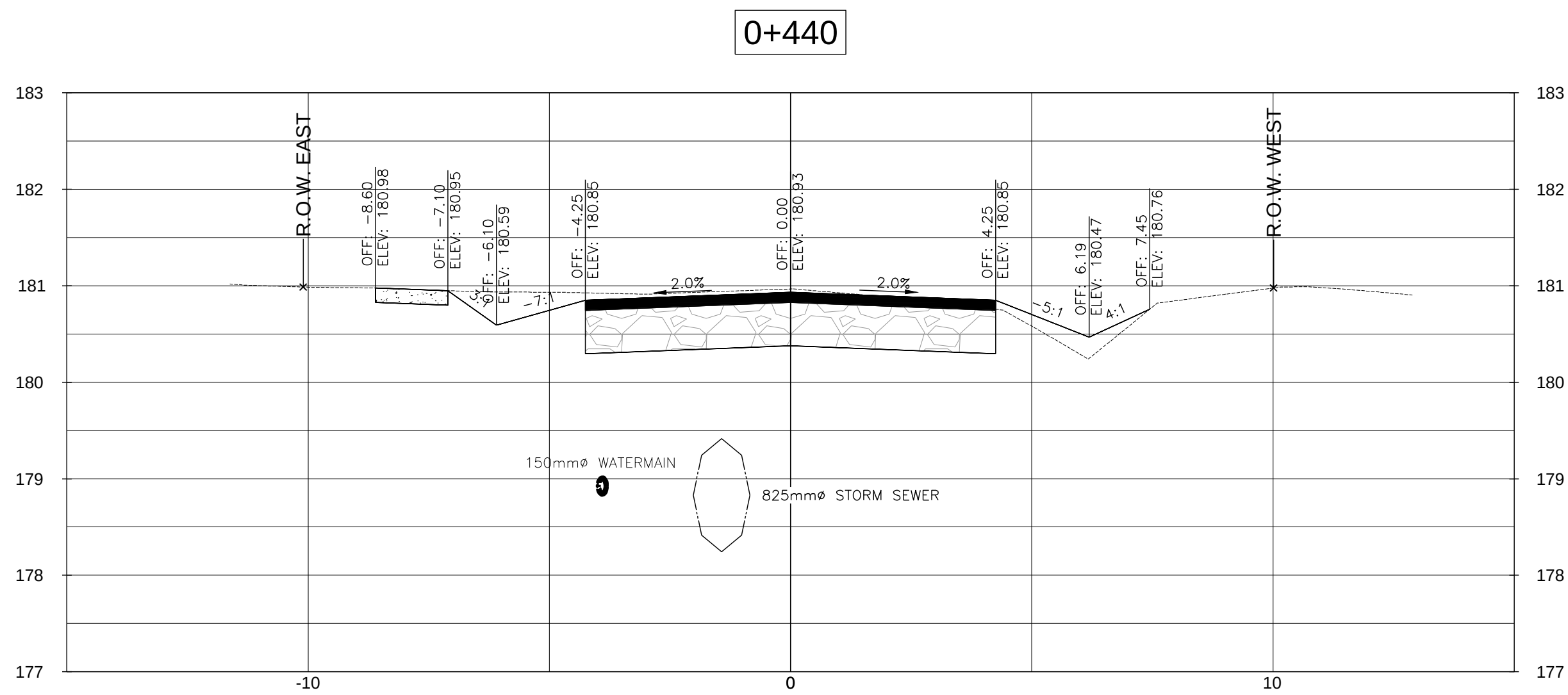
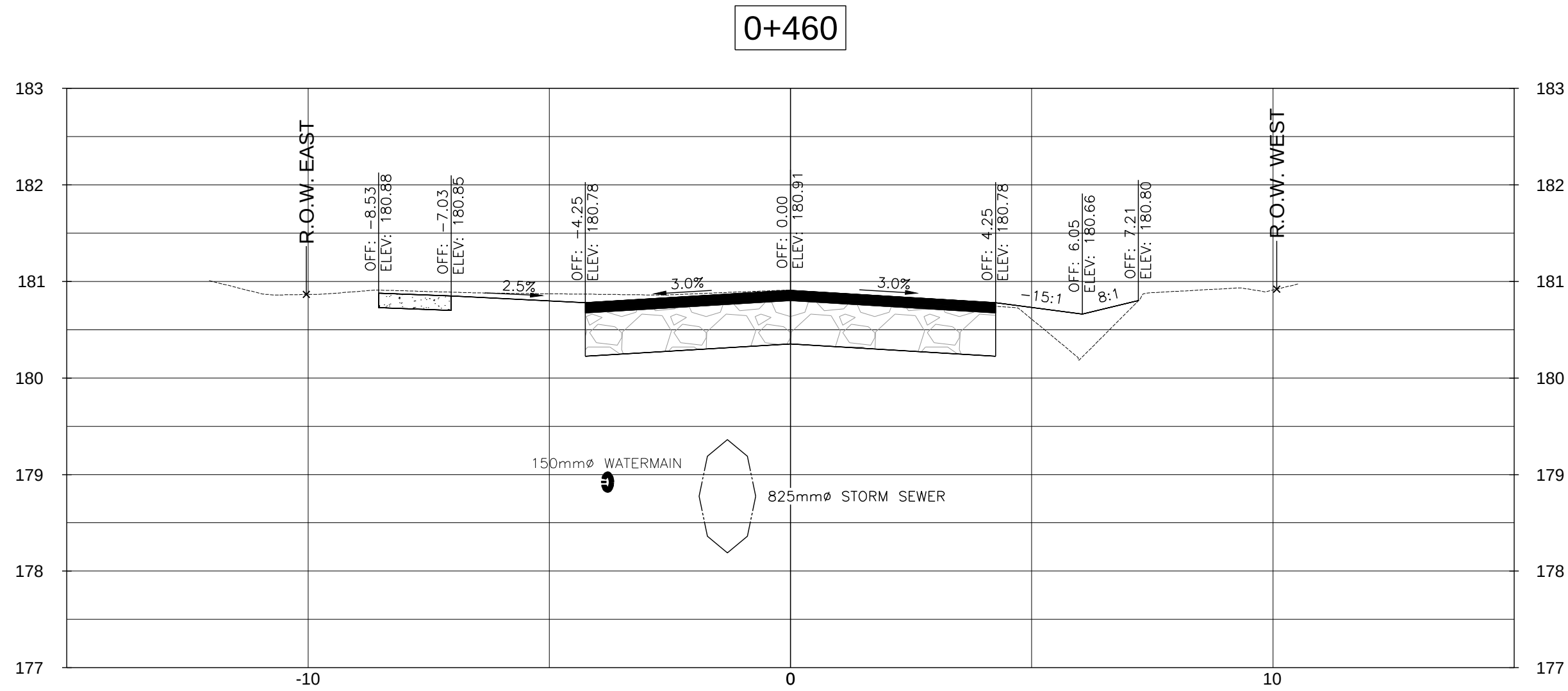
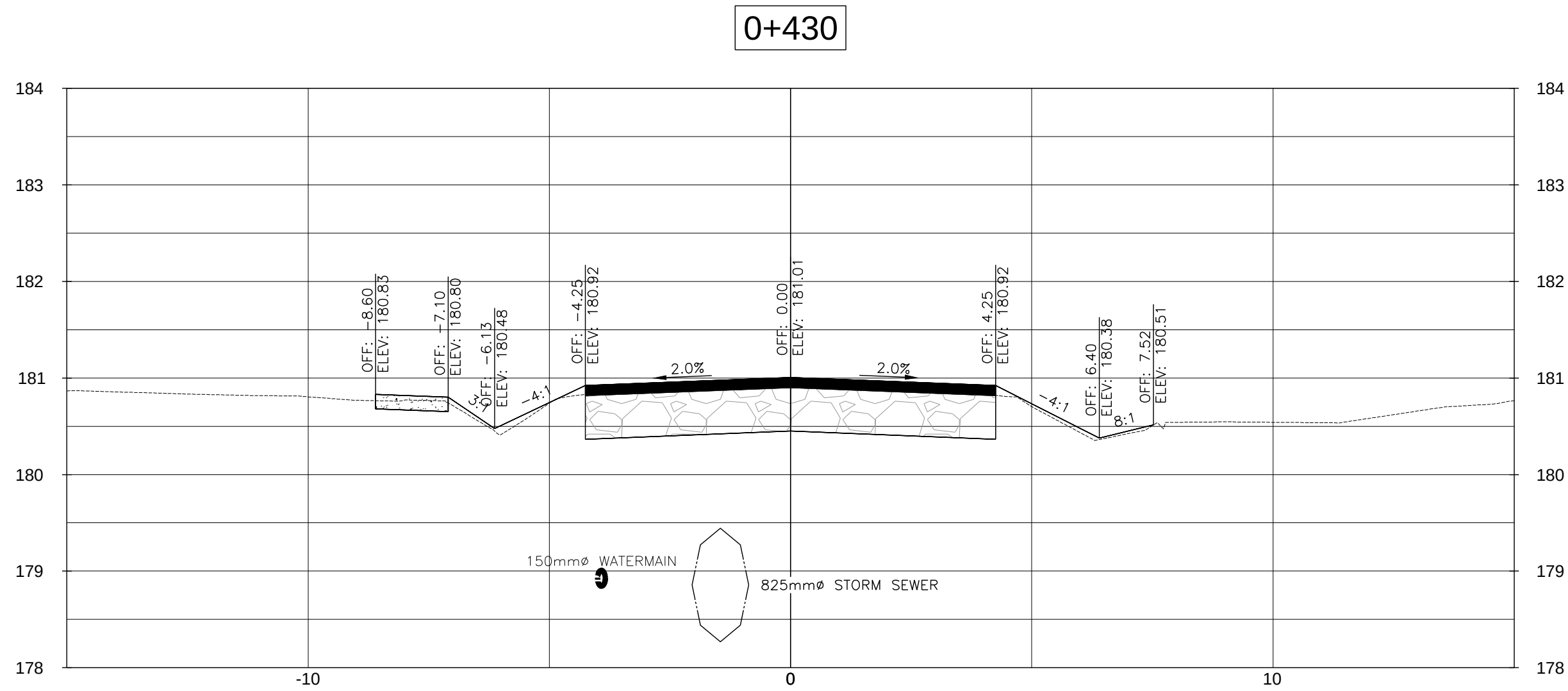
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C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
A	ISSUED FOR PRELIMINARY REVIEW	2018/08/01	SJO
NO.	REVISION	DATE	INIT.

DRAFTING
JNP
DESIGN
L.W.
CHECKED BY
R.W.
APPROVED BY
A.Y.B.



REPLACEMENT OF EXISTING STORM
SANITARY SEWERS, WATERMAINS
AND ROAD RECONSTRUCTION
LAKESIDE ROAD FROM PHILIP STREET TO
DOMINION ROAD, FORT EIRE
CROSS SECTIONS STA. 0+370 - STA. 0+423.50

CONSULTANT FILE No. 11156962	REV.
DATE 2018/08/01	D
SCALE HOR: 1:100 m VER: 1:50 m	
SHEET No.	
DWG No.	
XSC - 8	



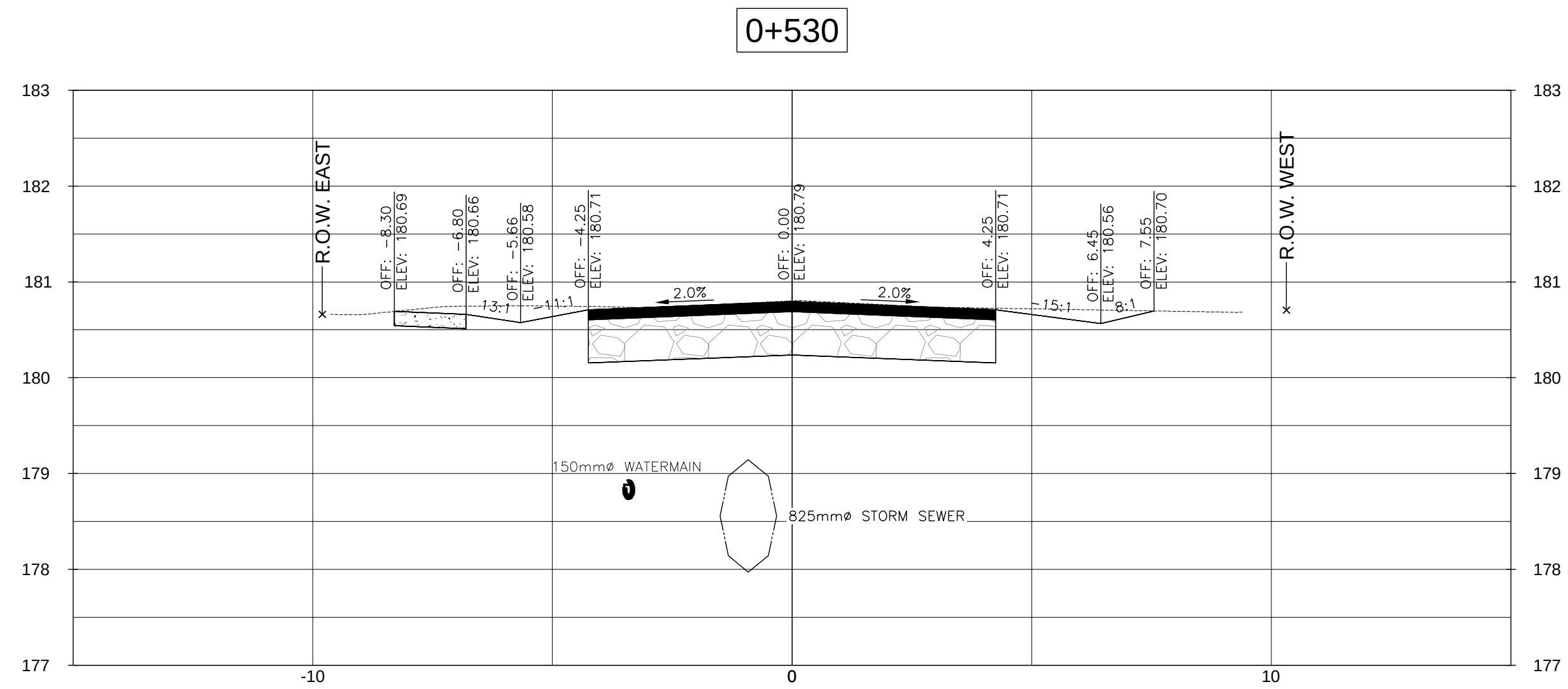
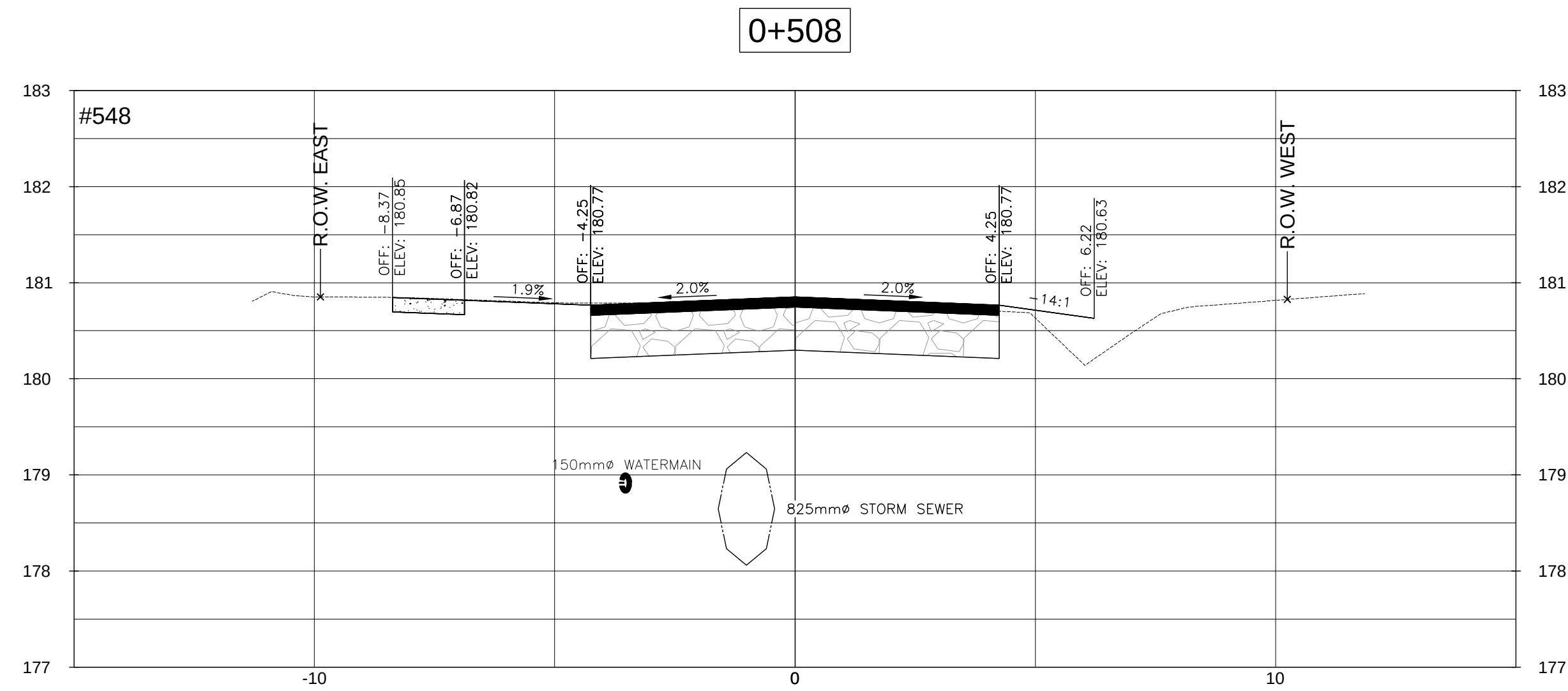
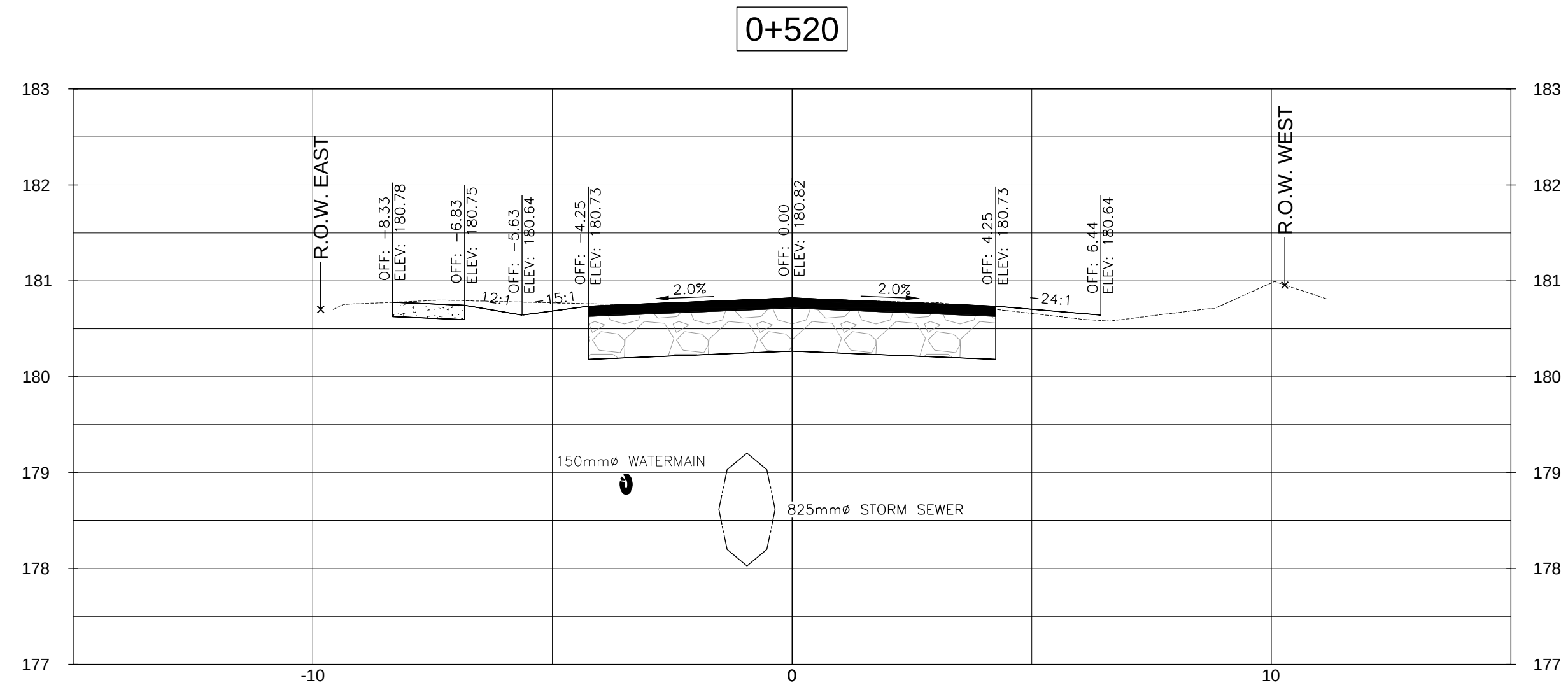
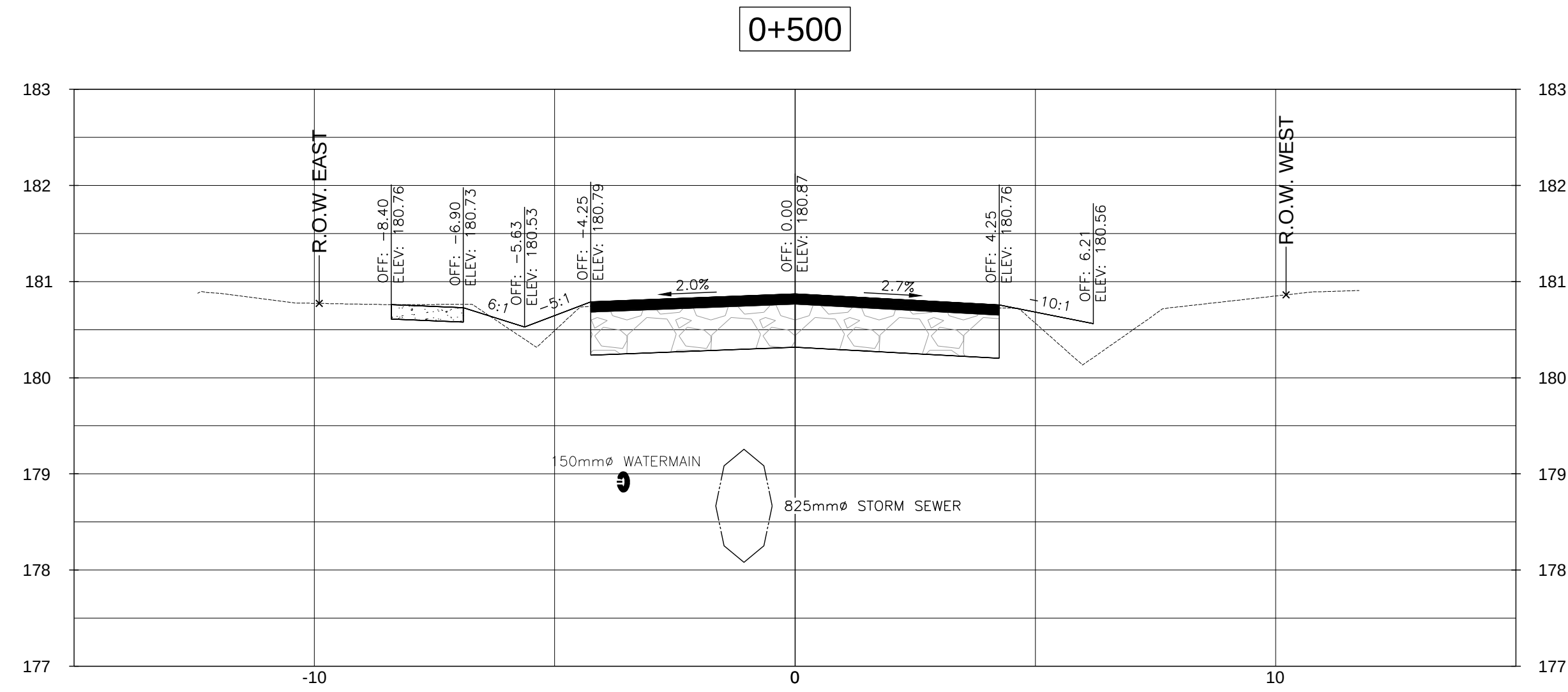
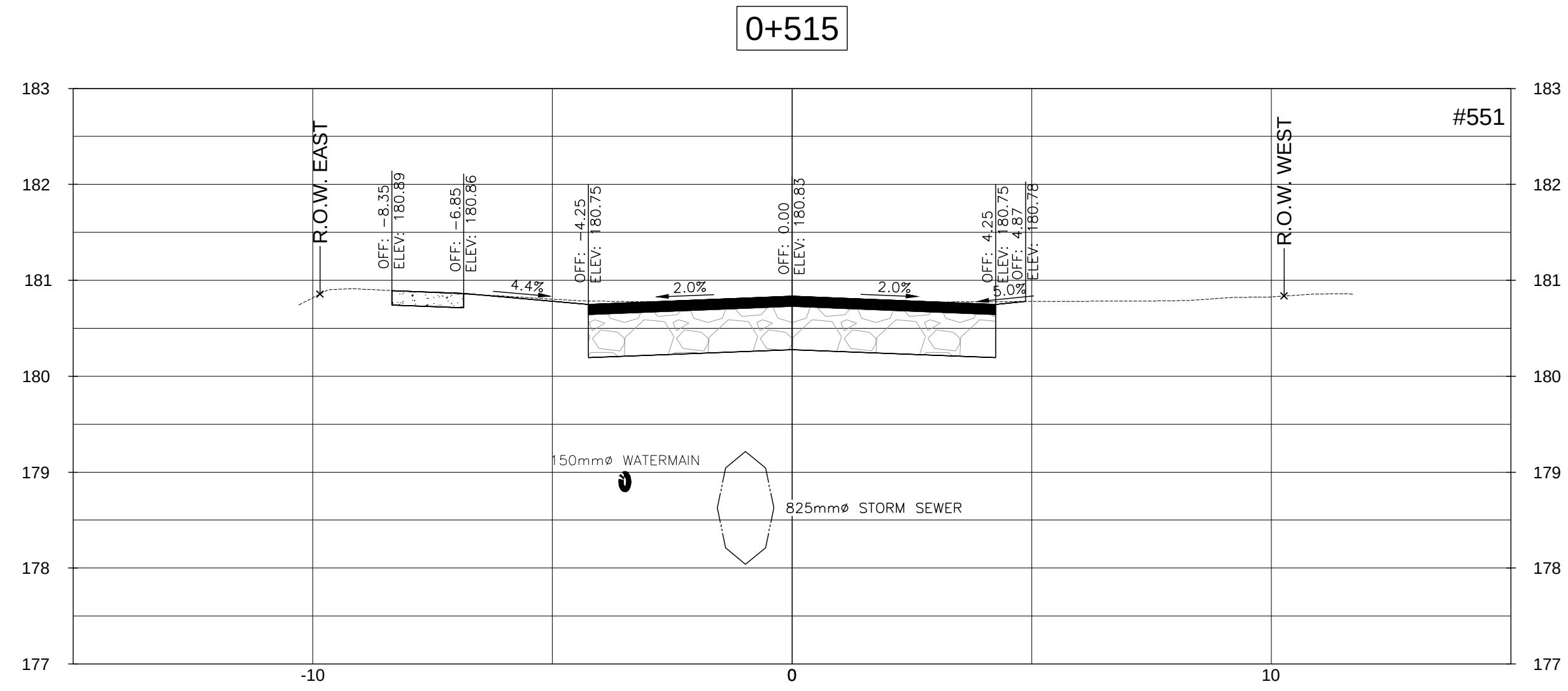
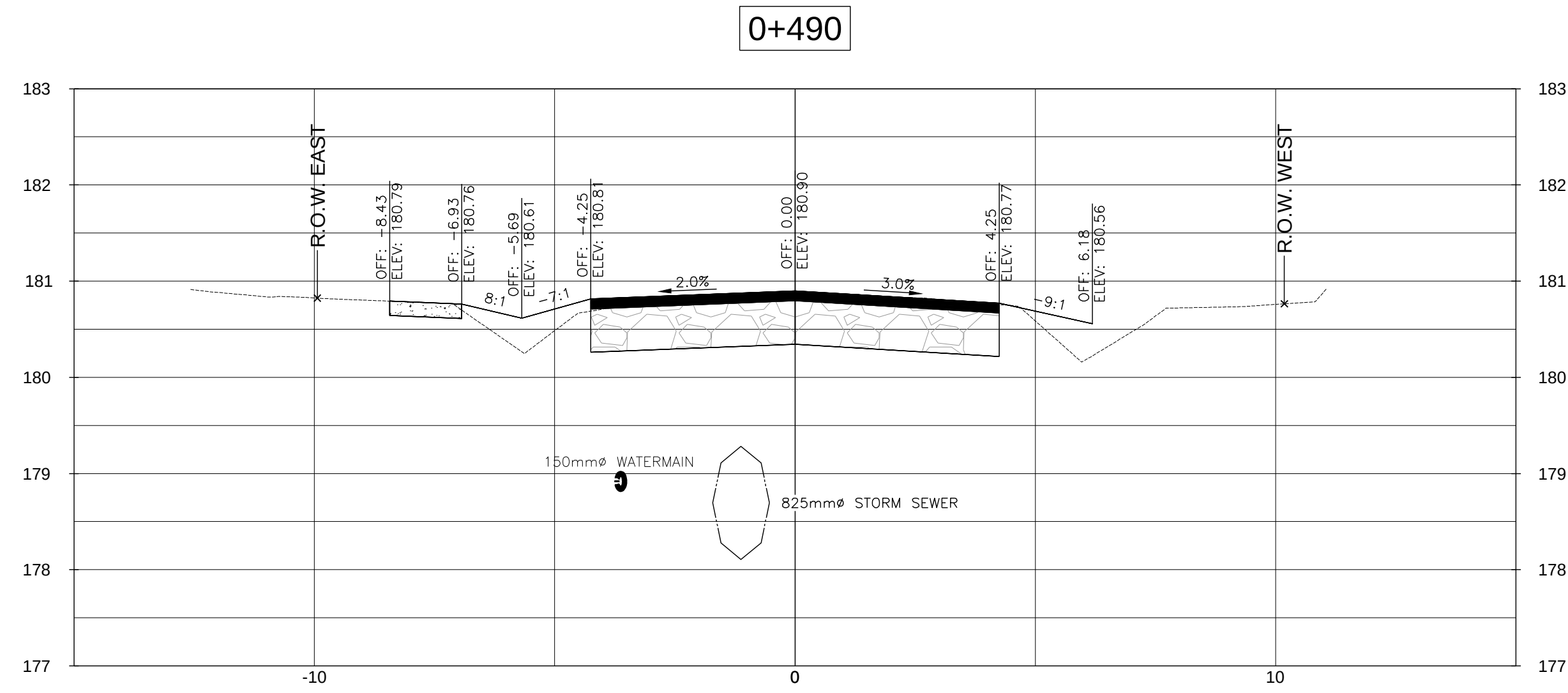
D	ISSUED FOR TENDER	2020/11/13	L.W.
C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
A	ISSUED FOR PRELIMINARY REVIEW	2018/08/01	SJO
NO.	REVISION	DATE	INIT.

DRAFTING
JNP
DESIGN
L.W.
CHECKED BY
R.W.
APPROVED BY
A.Y.B.



REPLACEMENT OF EXISTING STORM
SANITARY SEWERS, WATERMAINS
AND ROAD RECONSTRUCTION
LAKESIDE ROAD FROM PHILIP STREET TO
DOMINION ROAD, FORT EIRE
CROSS SECTIONS STA. 0+430 - STA. 0+478

CONSULTANT FILE No. 11156962	REV.
DATE 2018/08/01	D
SCALE HOR: 1:100 m VER: 1:50 m	
SHEET No.	
DWG No.	
XSC - 9	



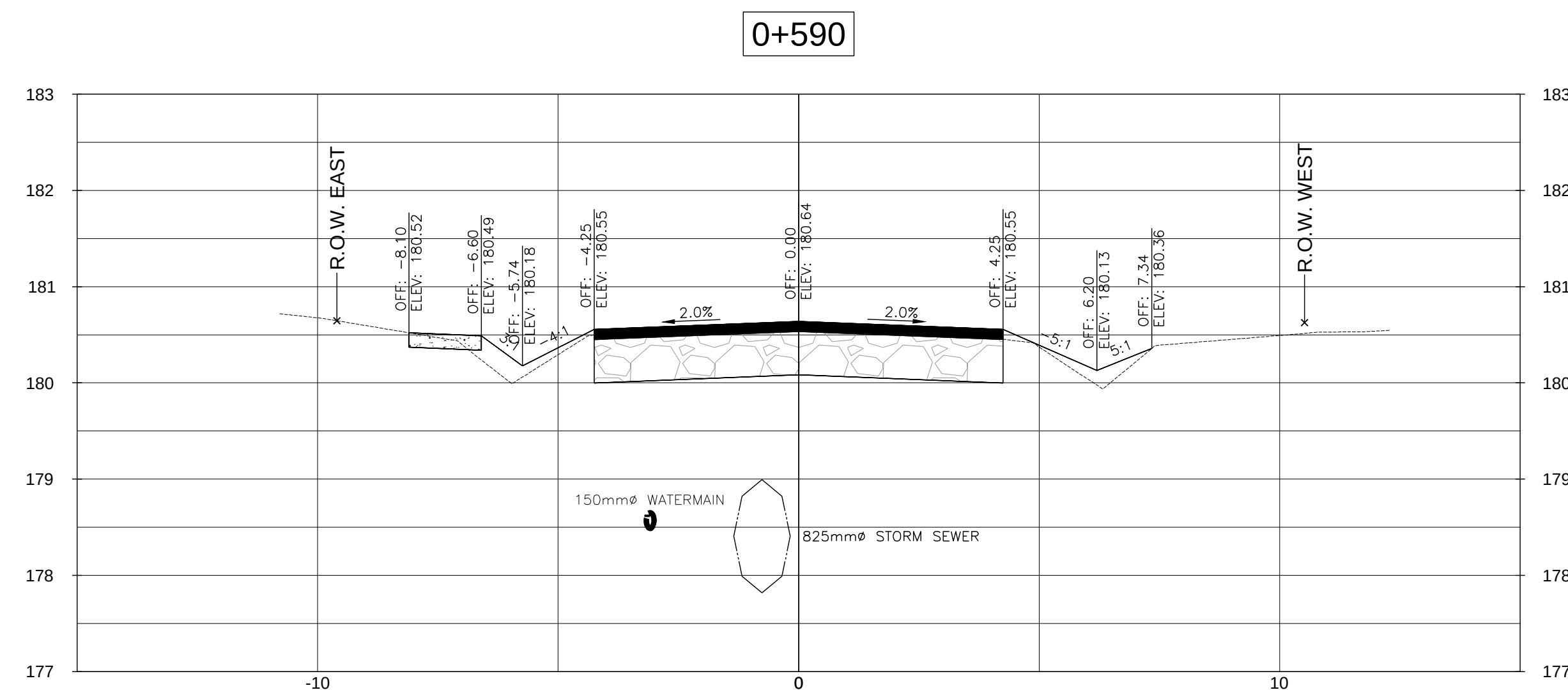
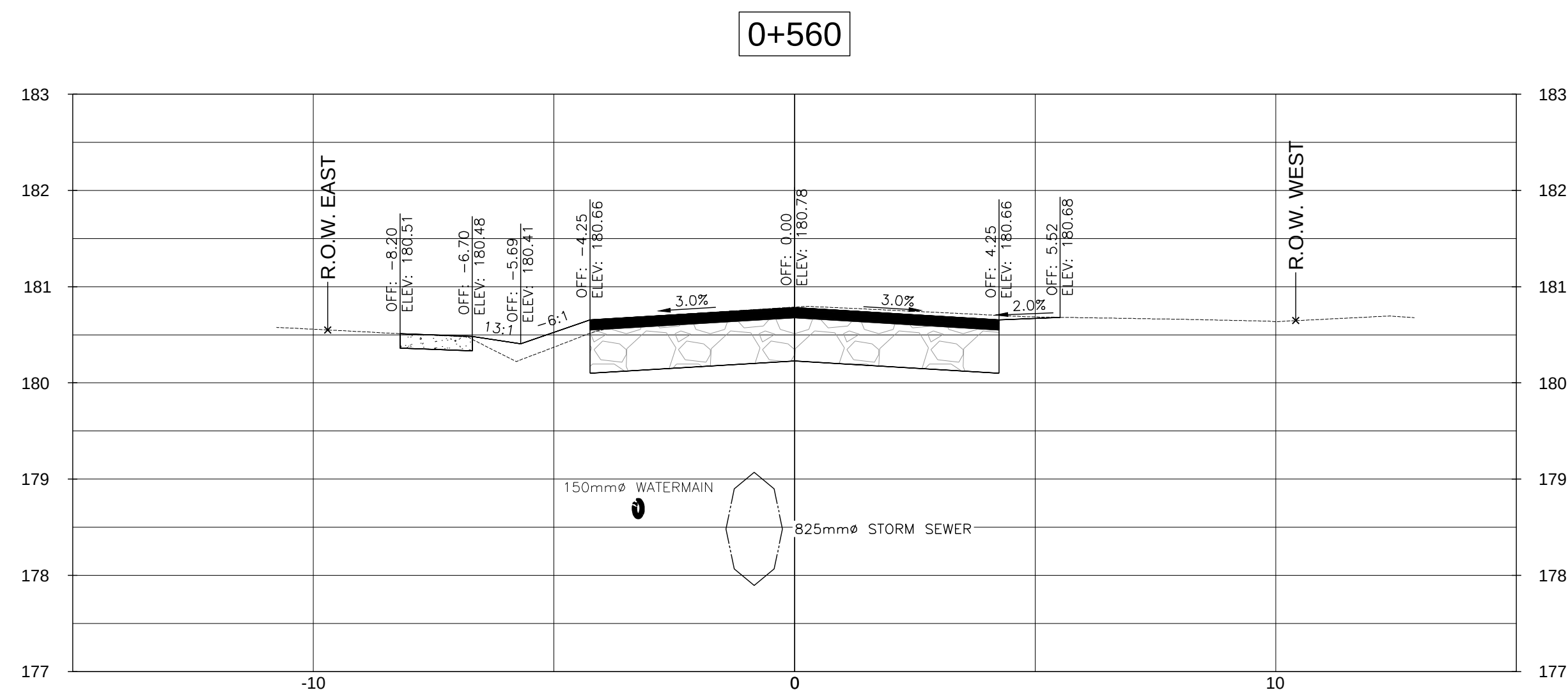
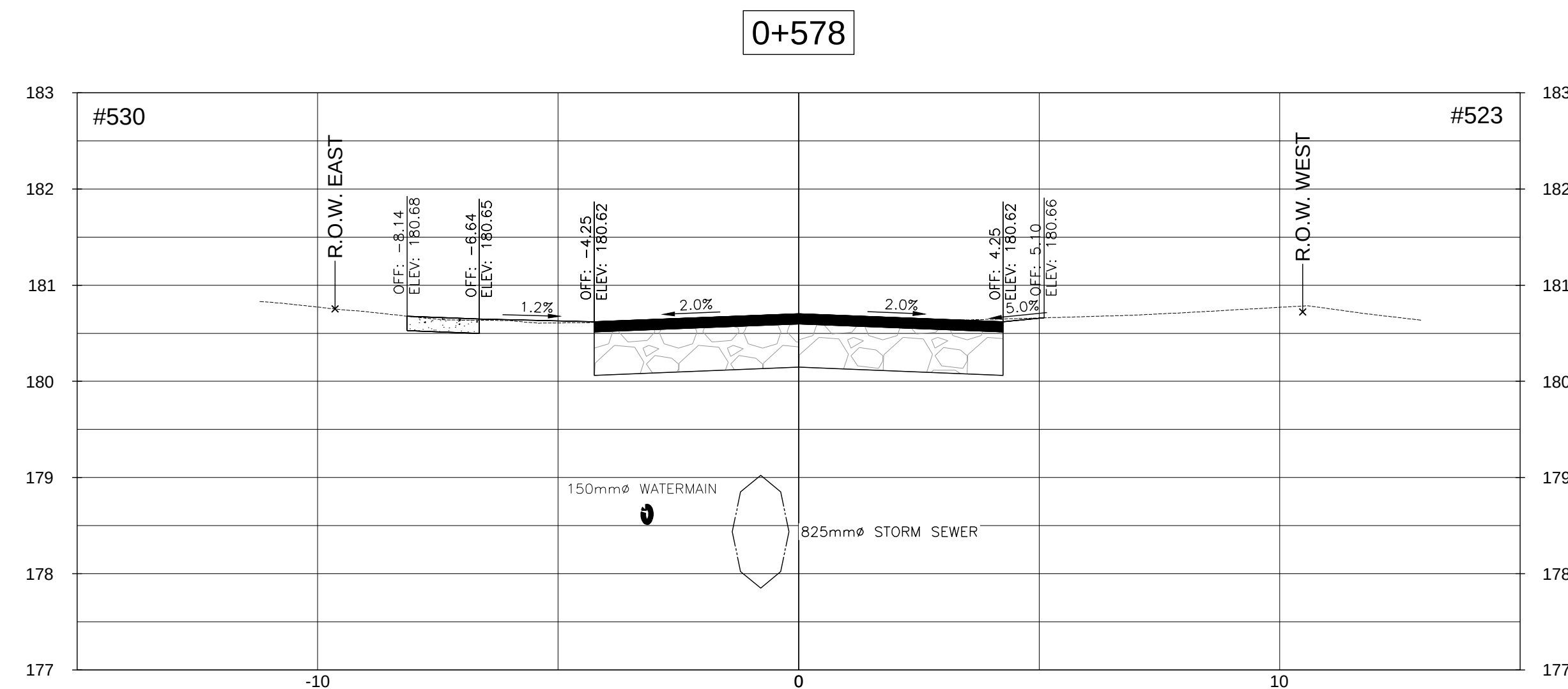
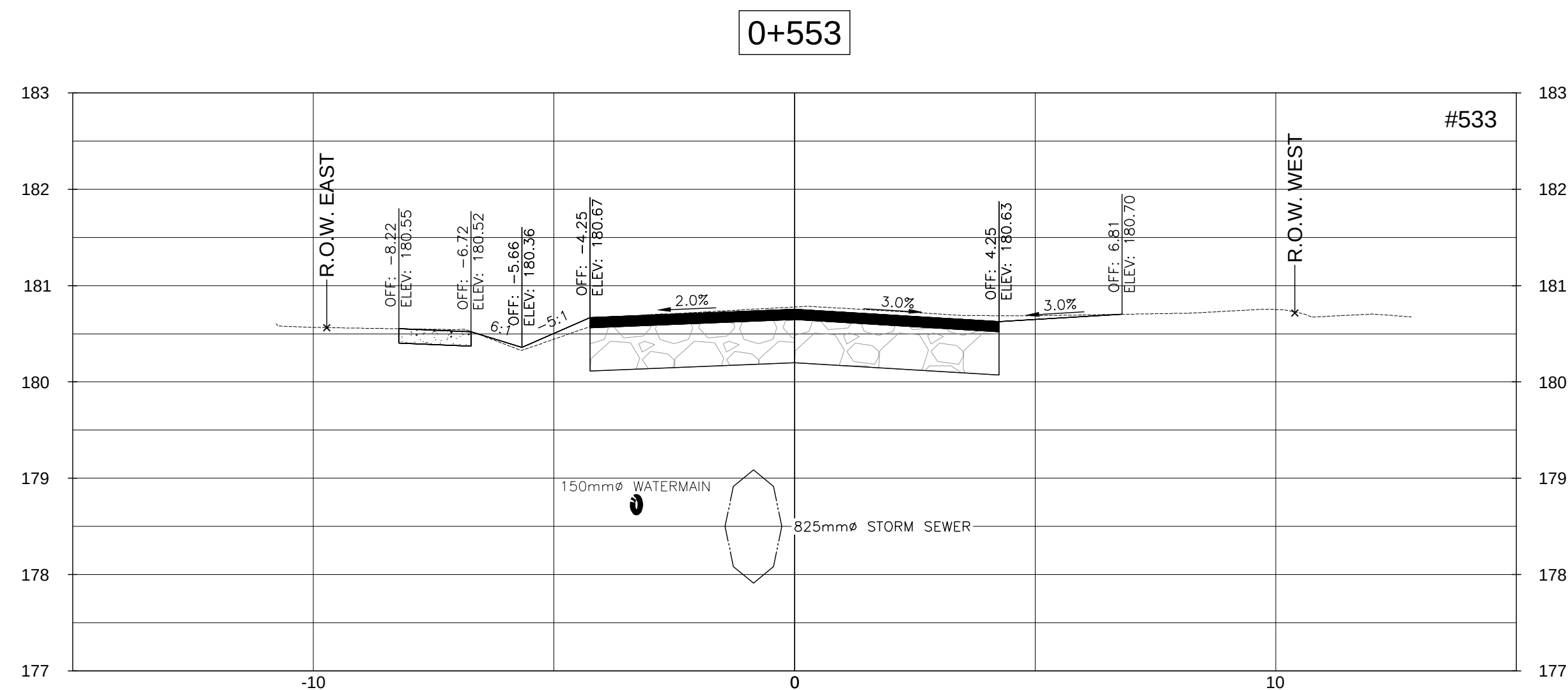
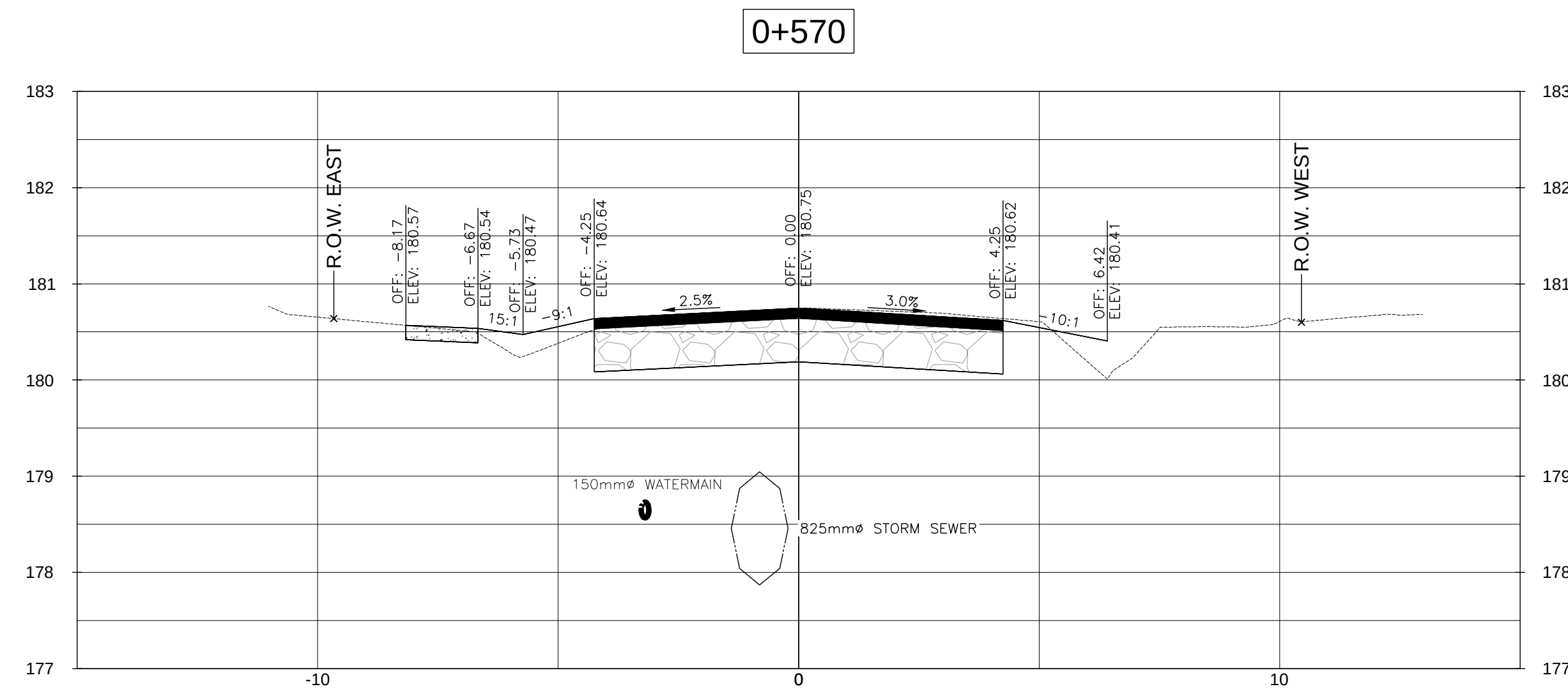
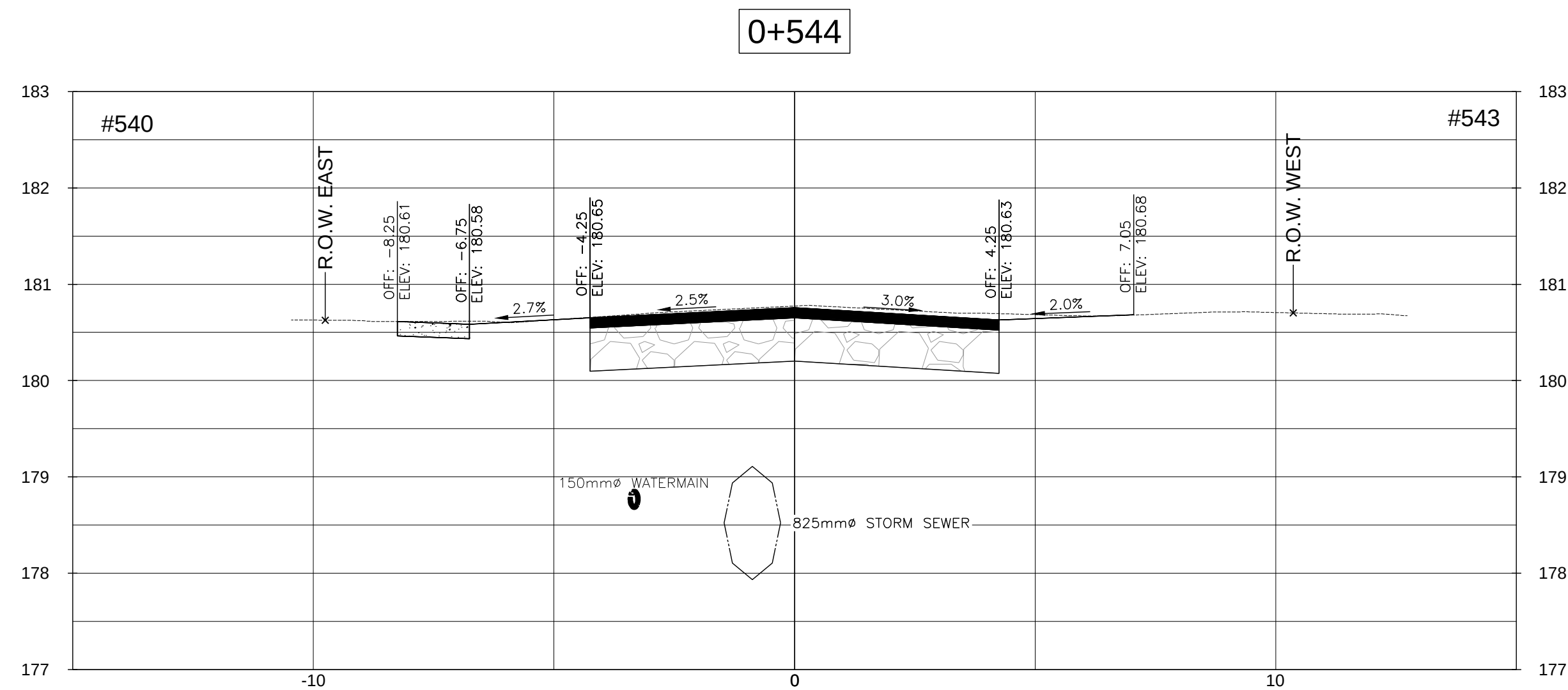
D	ISSUED FOR TENDER	2020/11/13	L.W.
C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
A	ISSUED FOR PRELIMINARY REVIEW	2018/08/01	SJO
NO.	REVISION	DATE	INIT.

DRAFTING JNP
DESIGN L.W.
CHECKED BY R.W.
APPROVED BY A.Y.B.



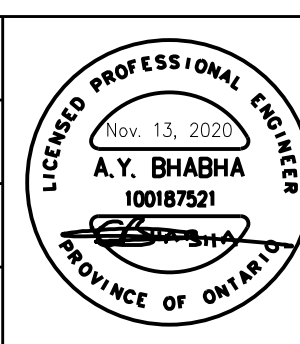
REPLACEMENT OF EXISTING STORM
SANITARY SEWERS, WATERMAINS
AND ROAD RECONSTRUCTION
LAKESIDE ROAD FROM PHILIP STREET TO
DOMINION ROAD, FORT EIRE
CROSS SECTIONS STA. 0+490 - STA. 0+530

CONSULTANT FILE No. 11156962
DATE 2018/08/01
SCALE HOR: 1:100 m VER: 1:50 m
SHEET No.
DWG No. XSC - 10
REV. D



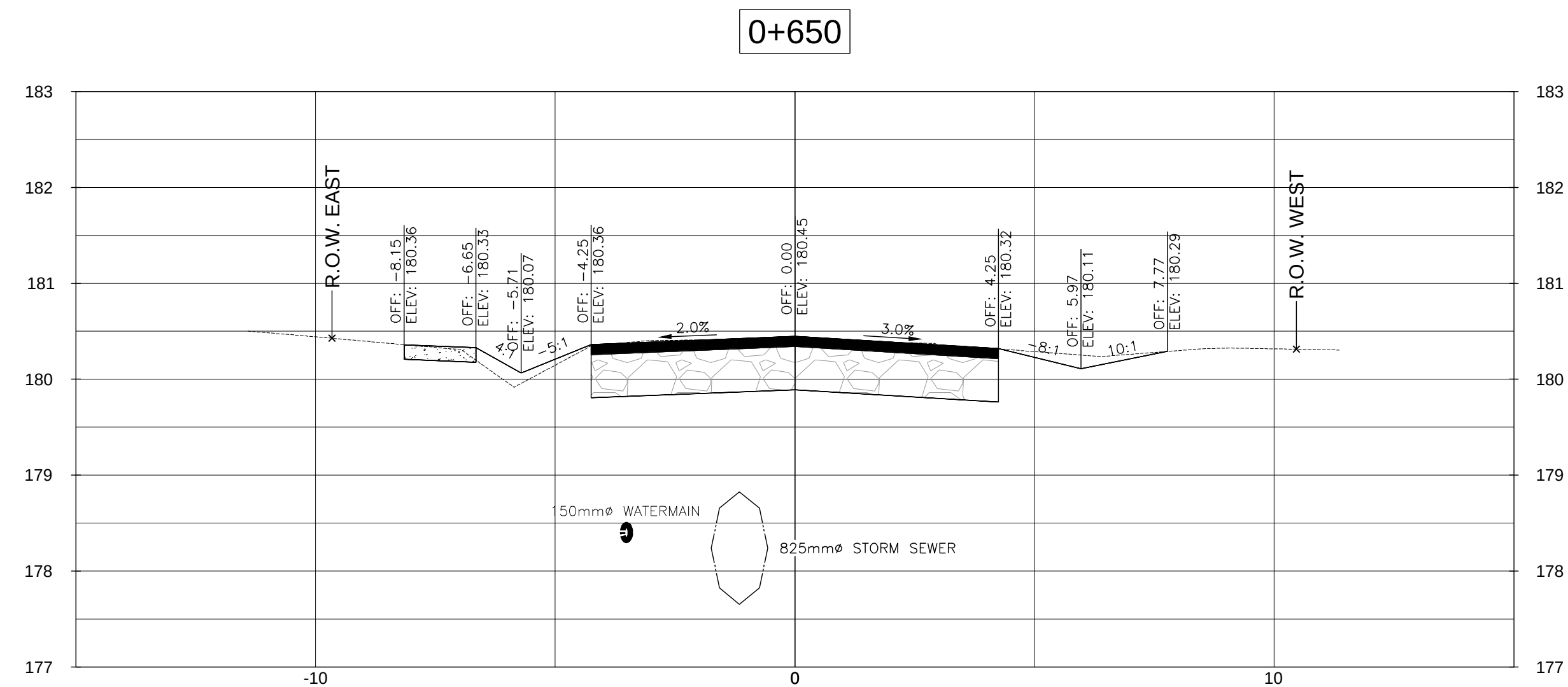
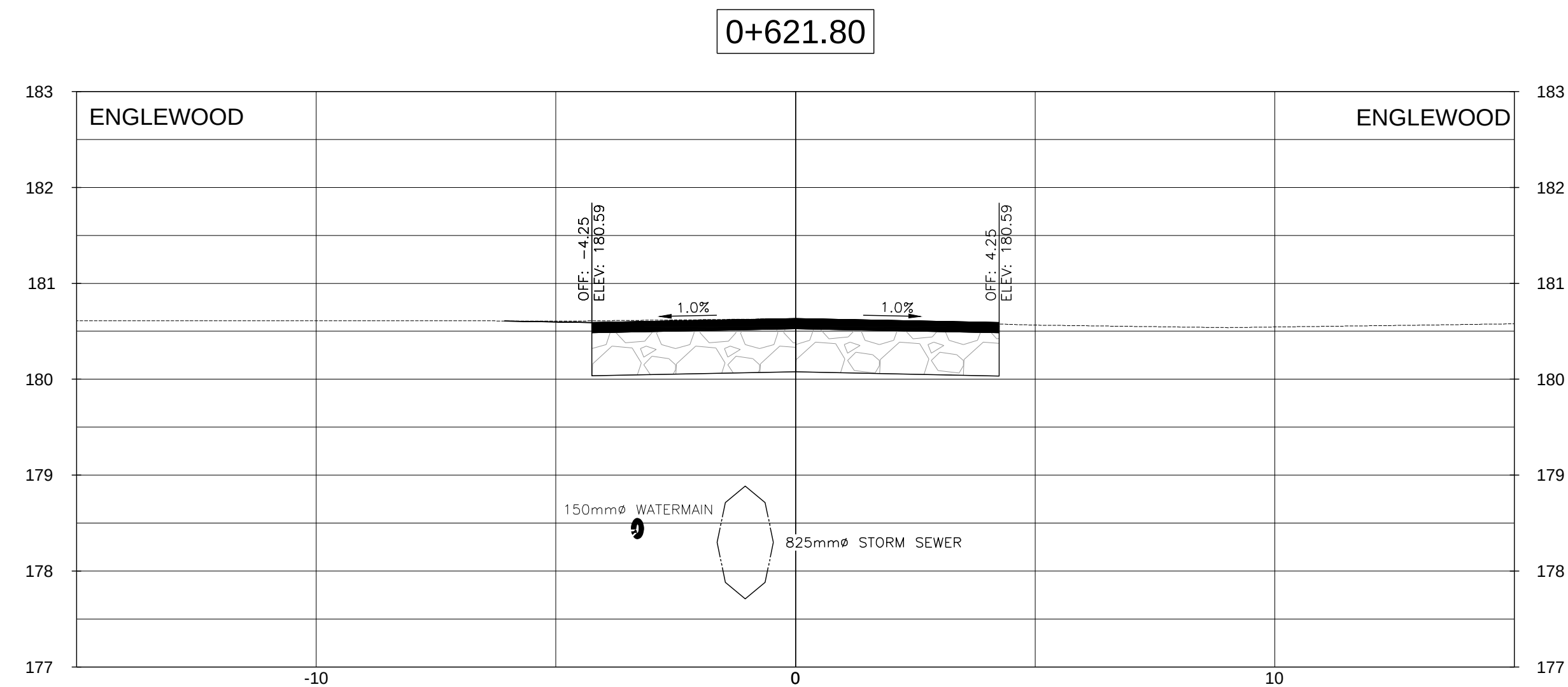
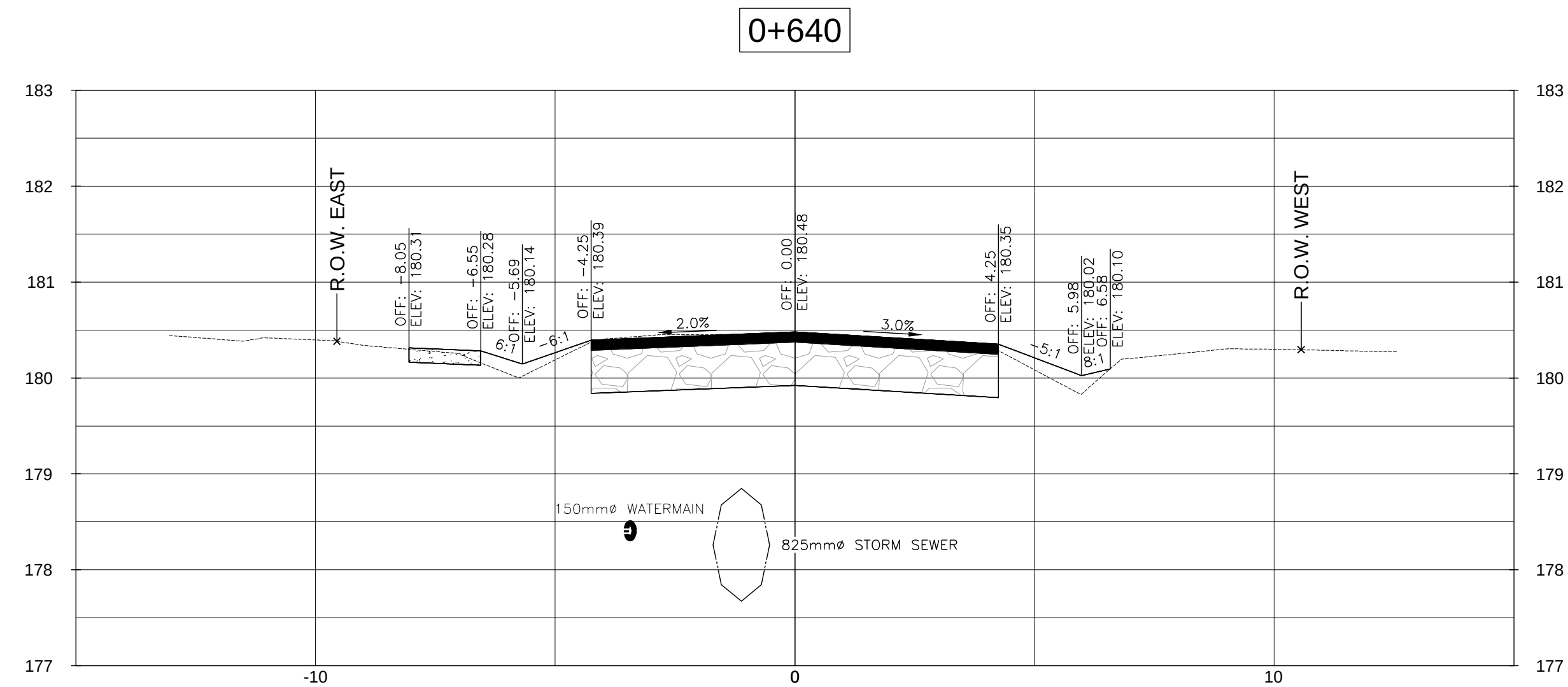
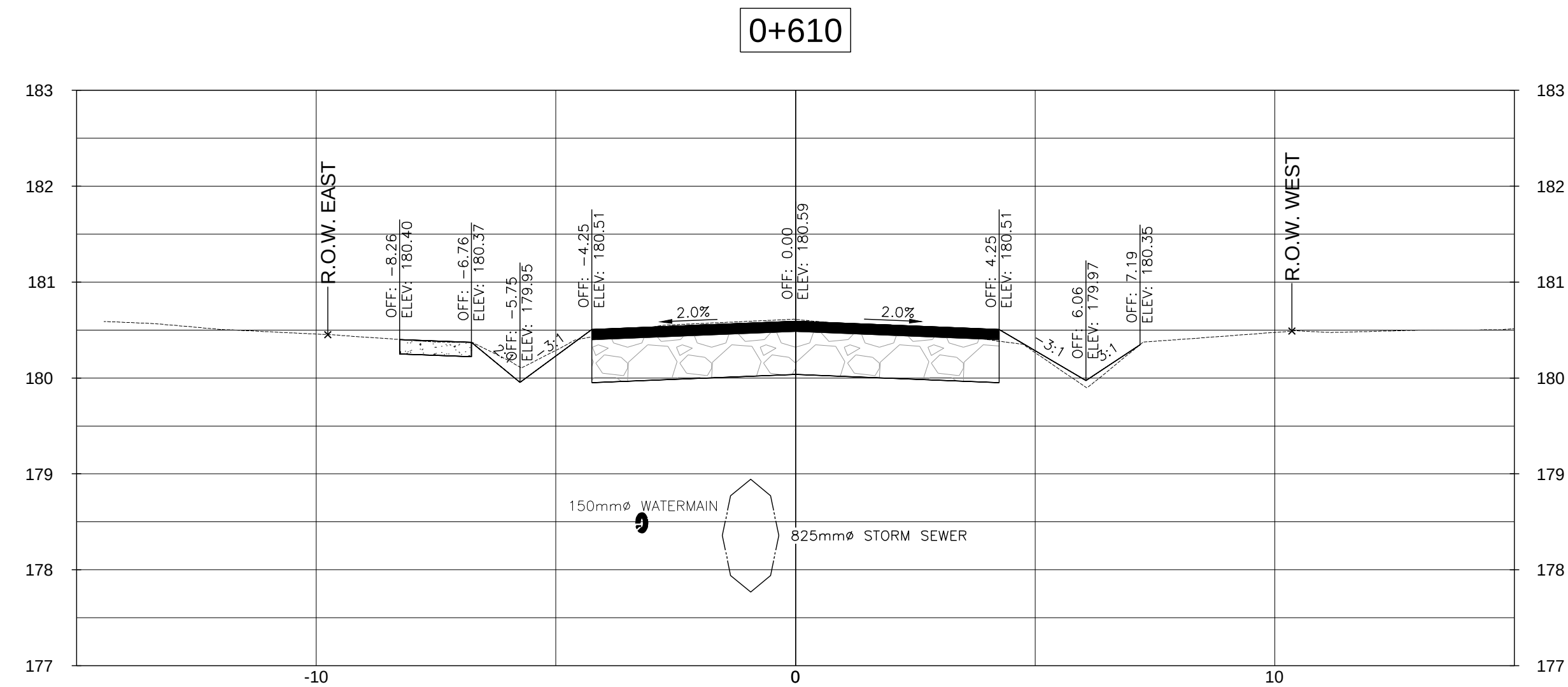
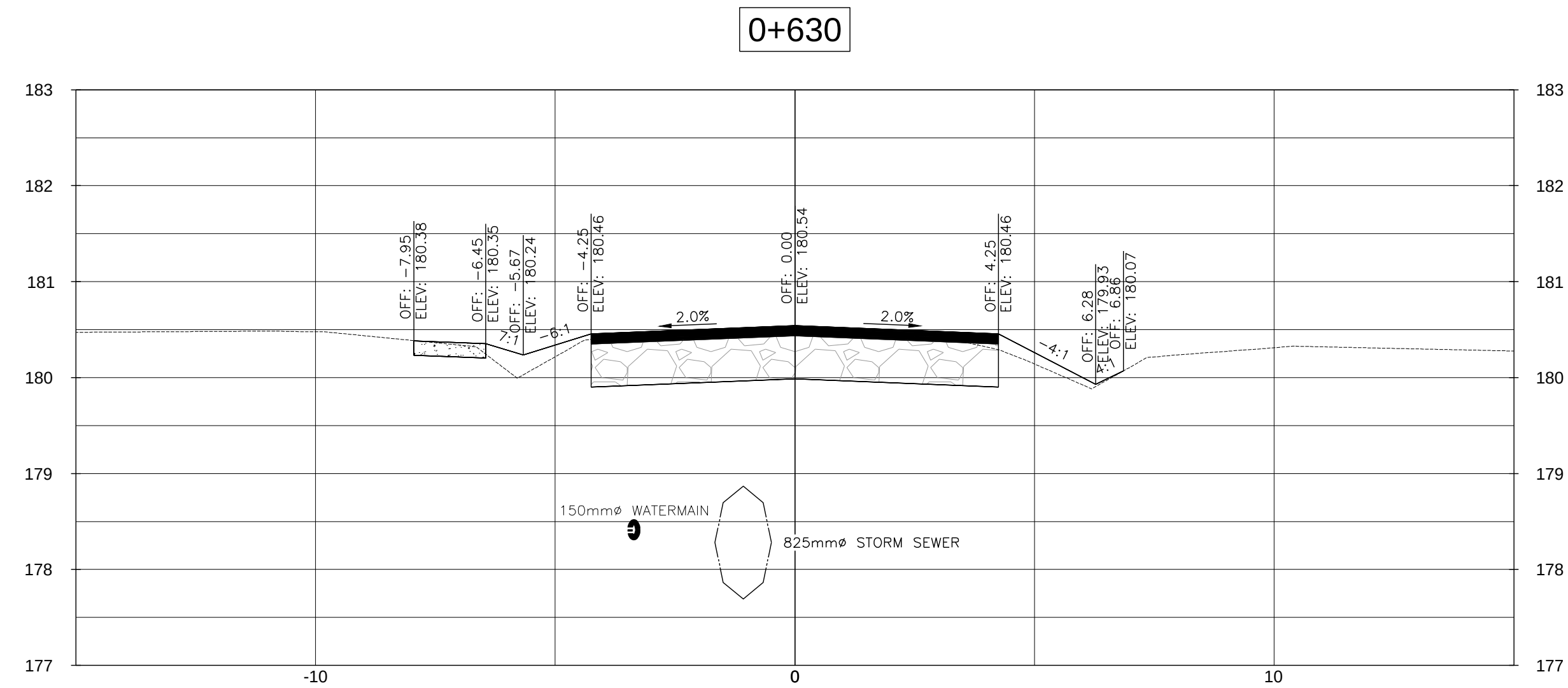
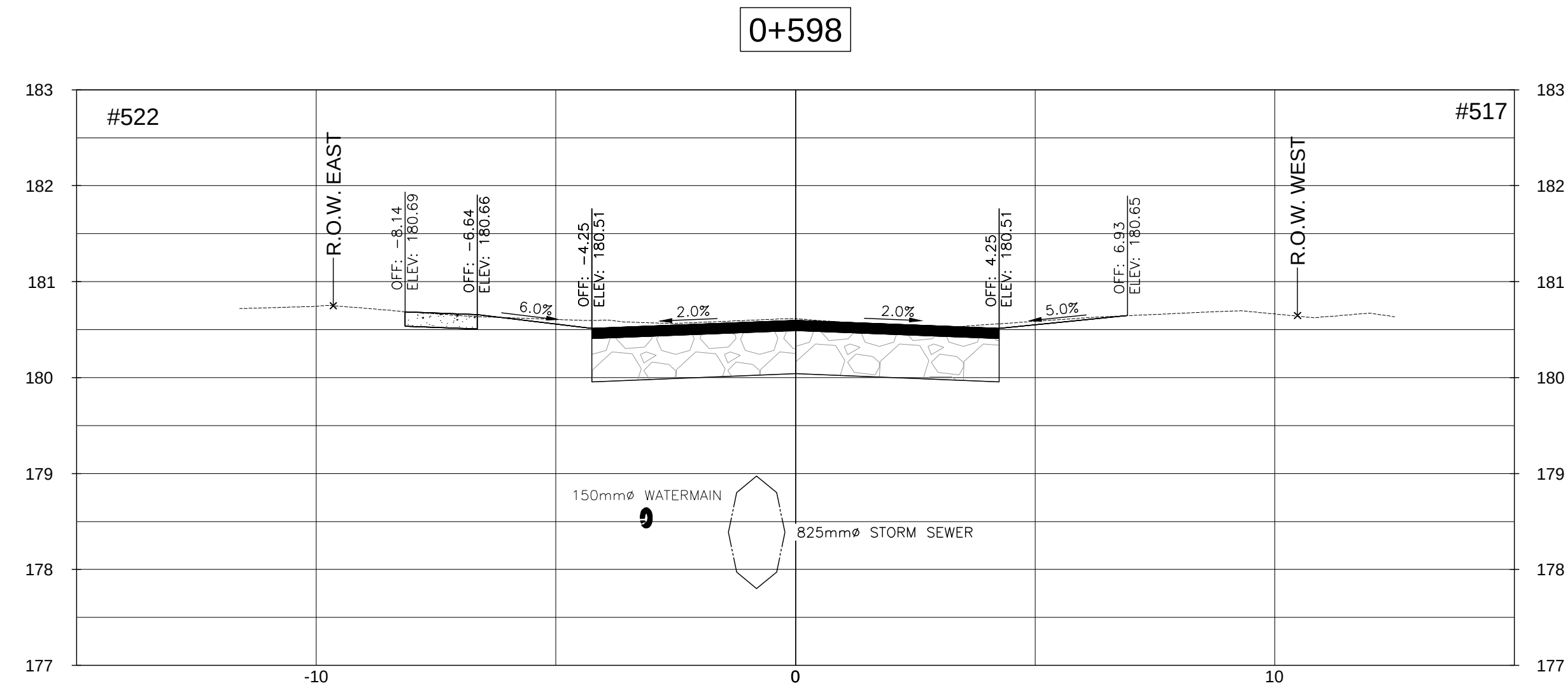
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C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
A	ISSUED FOR PRELIMINARY REVIEW	2018/08/01	SJO
NO.	REVISION	DATE	INIT.

DRAFTING	JNP
DESIGN	L.W.
CHECKED BY	R.W.
APPROVED BY	A.Y.B.



REPLACEMENT OF EXISTING STORM
SANITARY SEWERS, WATERMAINS
AND ROAD RECONSTRUCTION
LAKESIDE ROAD FROM PHILIP STREET TO
DOMINION ROAD, FORT EIRE
CROSS SECTIONS STA. 0+544 - STA. 0+590

CONSULTANT FILE No.	11156962
DATE	2018/08/01
SCALE	HOR: 1:100 m VER: 1:50 m
SHEET No.	
DWG No.	XSC - 11
REV.	D



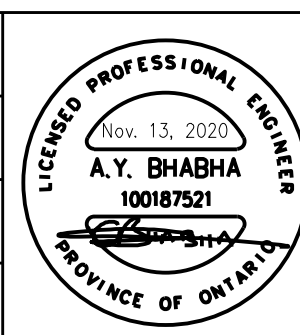
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C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
A	ISSUED FOR PRELIMINARY REVIEW	2018/08/01	SJO
NO.	REVISION	DATE	INIT.

DRAFTING
JNP

DESIGN
L.W.

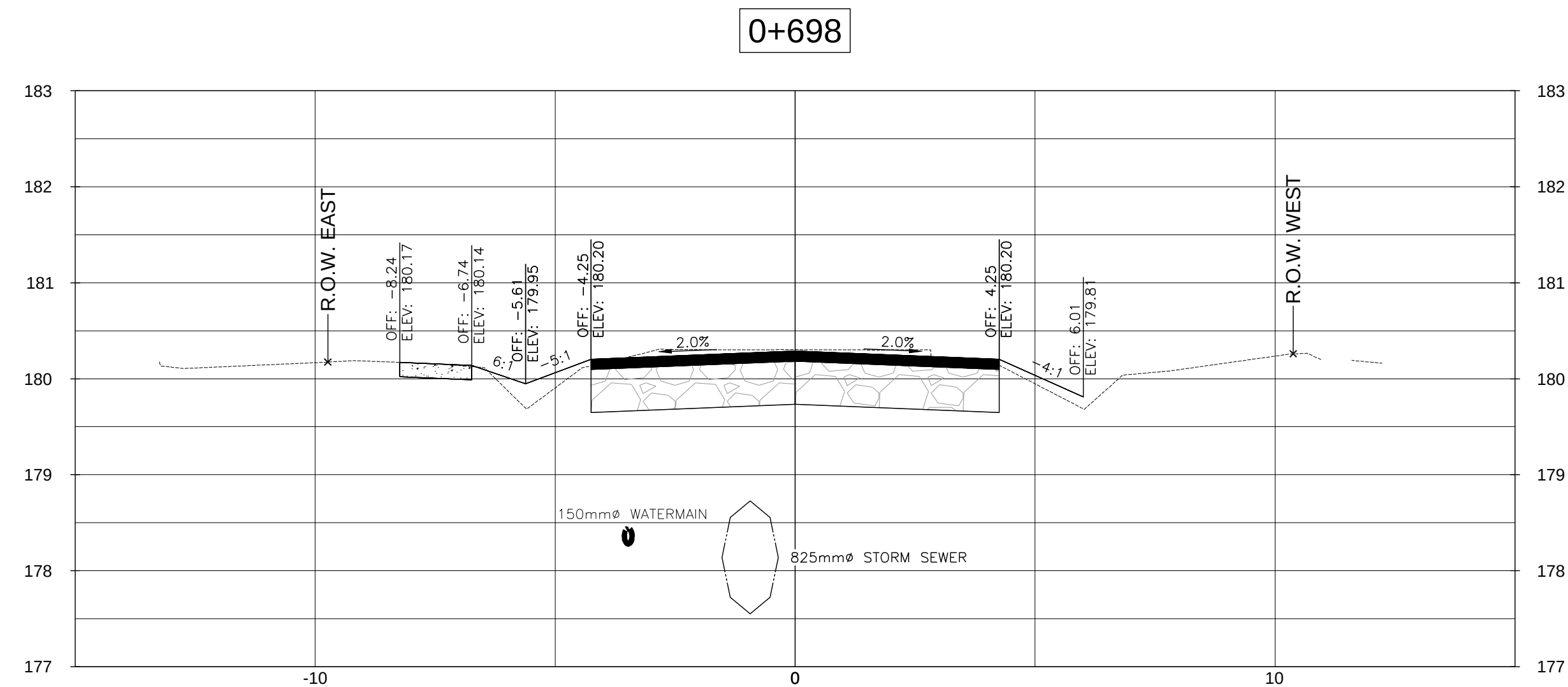
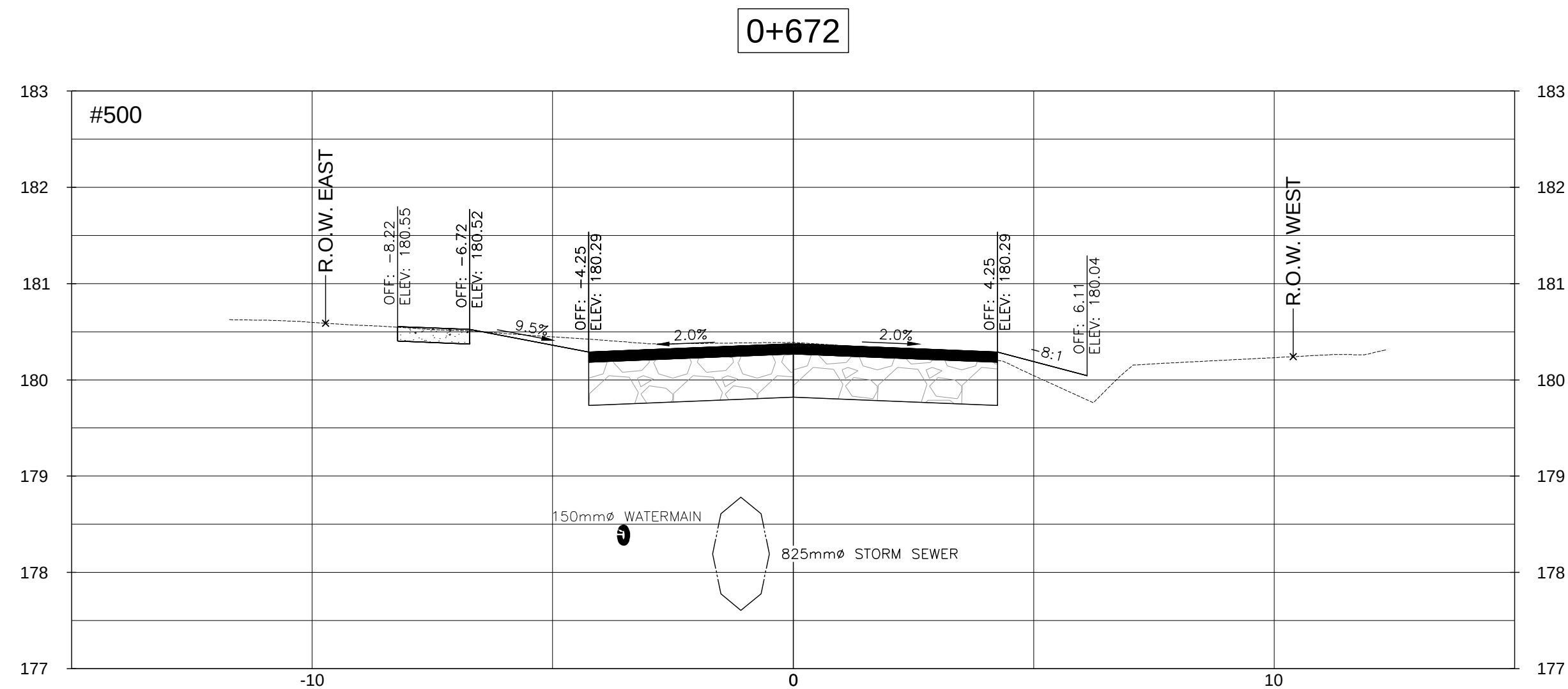
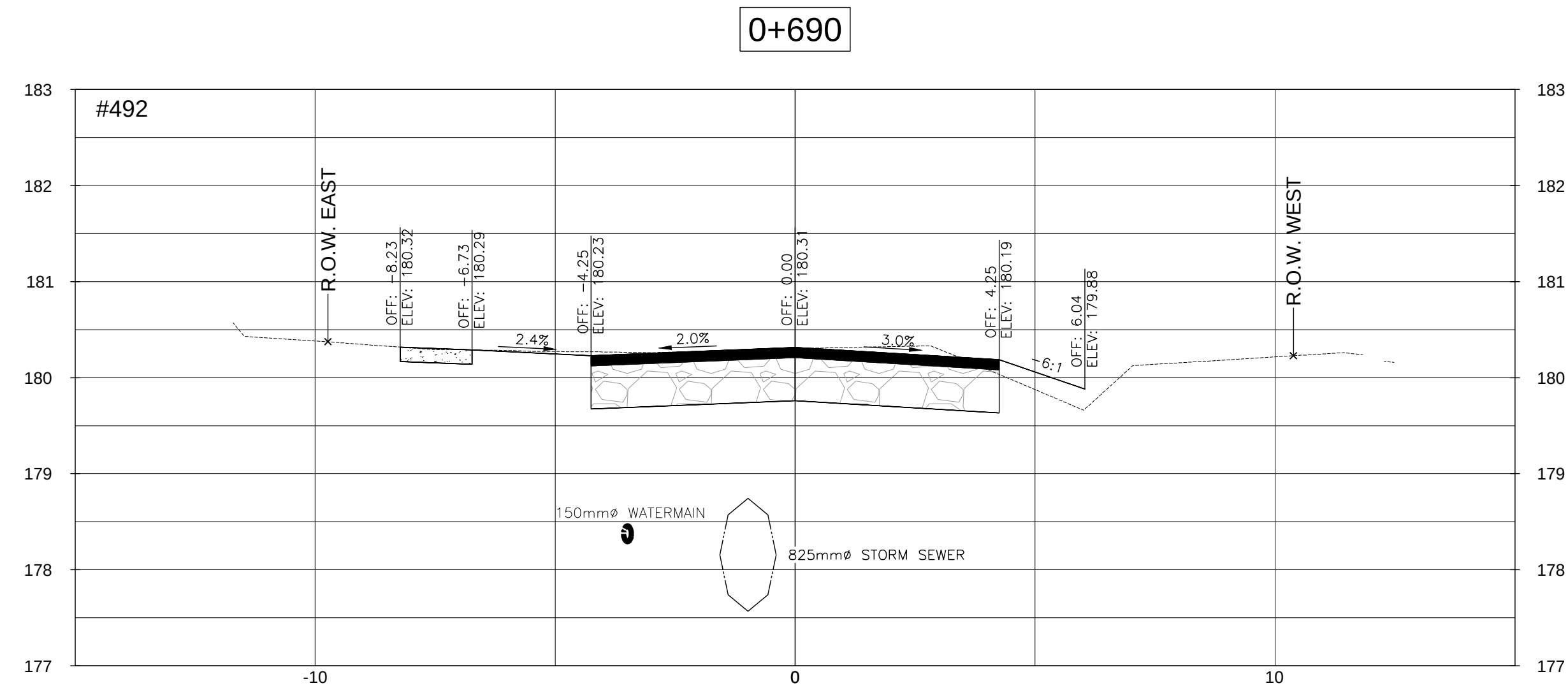
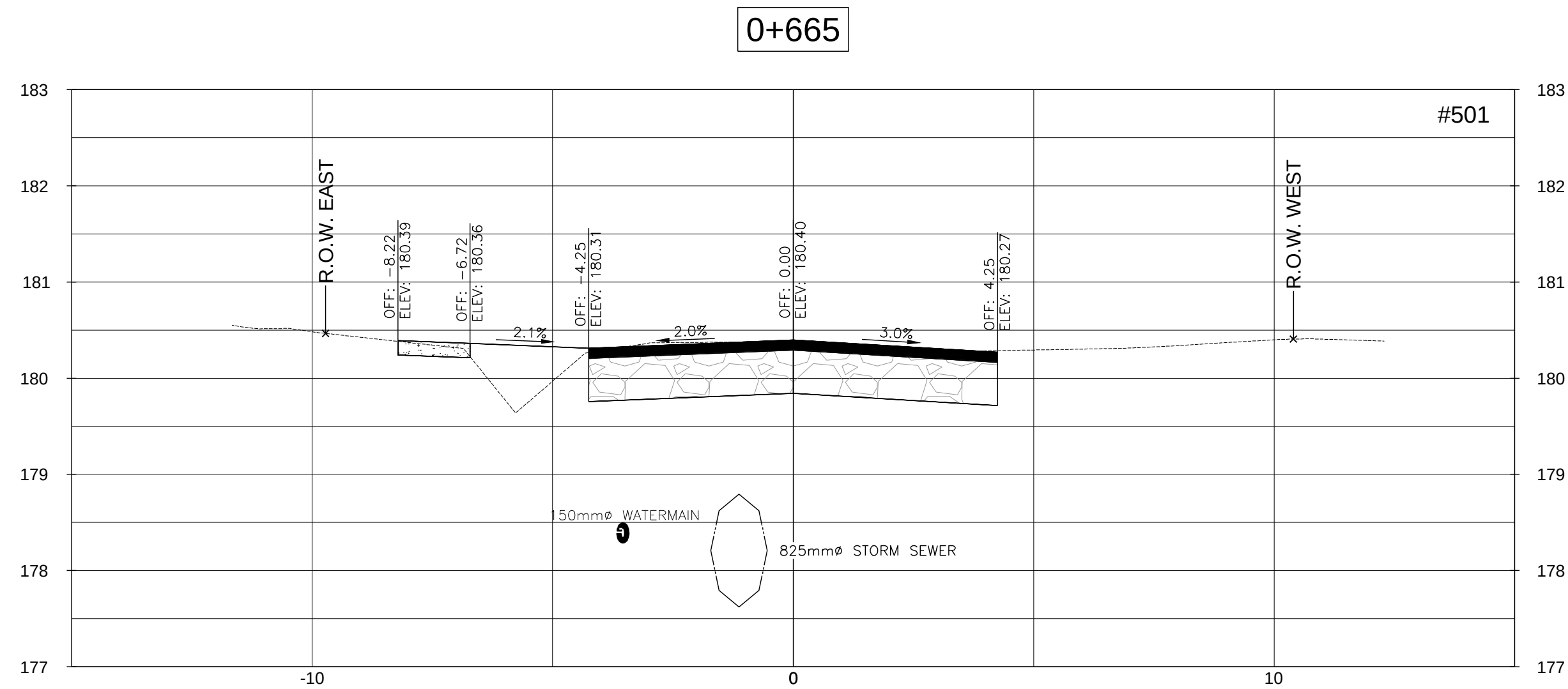
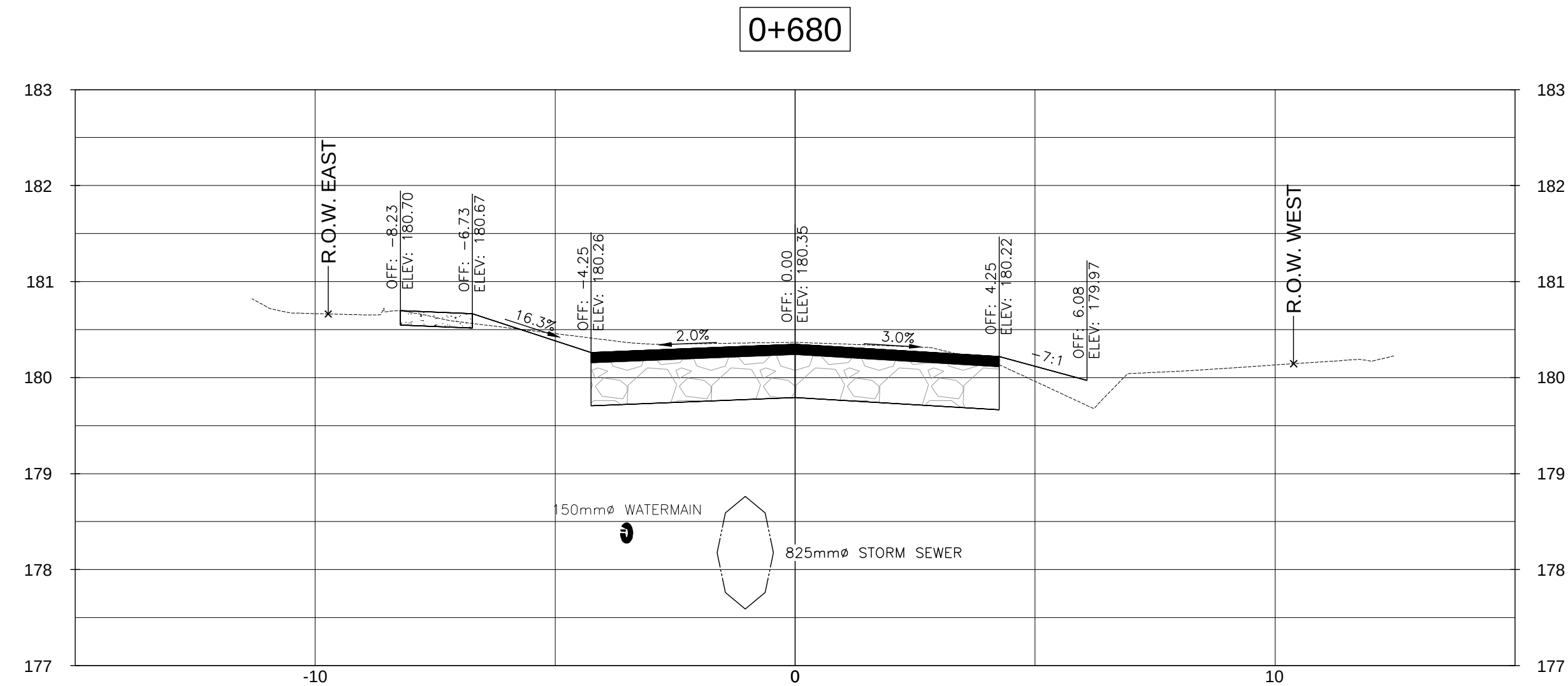
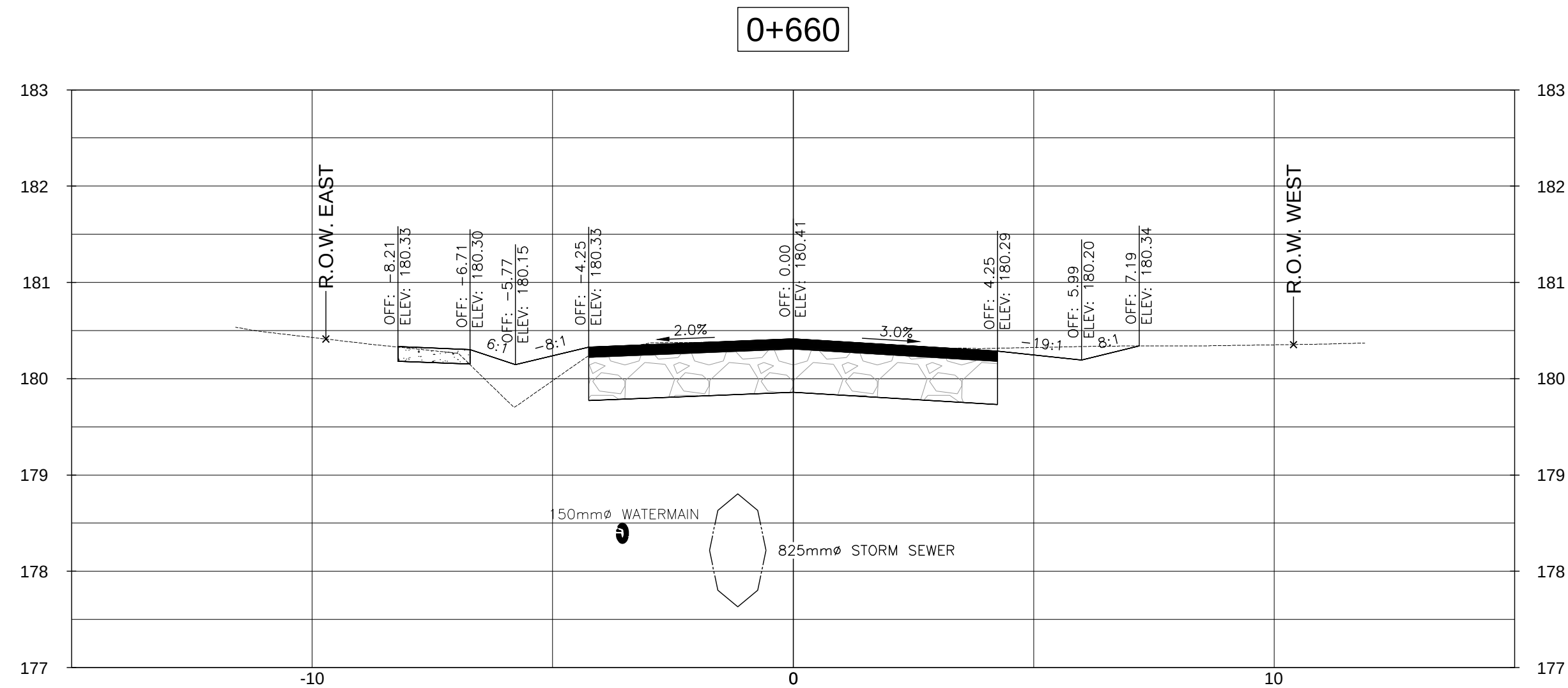
CHECKED BY
R.W.

APPROVED BY
A.Y.B.



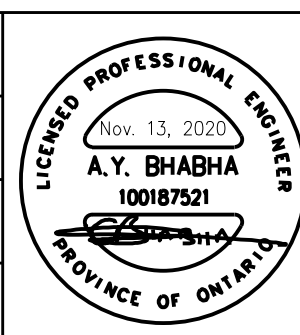
REPLACEMENT OF EXISTING STORM
SANITARY SEWERS, WATERMAINS
AND ROAD RECONSTRUCTION
LAKESIDE ROAD FROM PHILIP STREET TO
DOMINION ROAD, FORT EIRE
CROSS SECTIONS STA. 0+598 - STA. 0+650

CONSULTANT FILE No. 11156962
DATE 2018/08/01
SCALE HOR: 1:100 m VER: 1:50 m
SHEET No.
DWG No. XSC - 12
REV. D



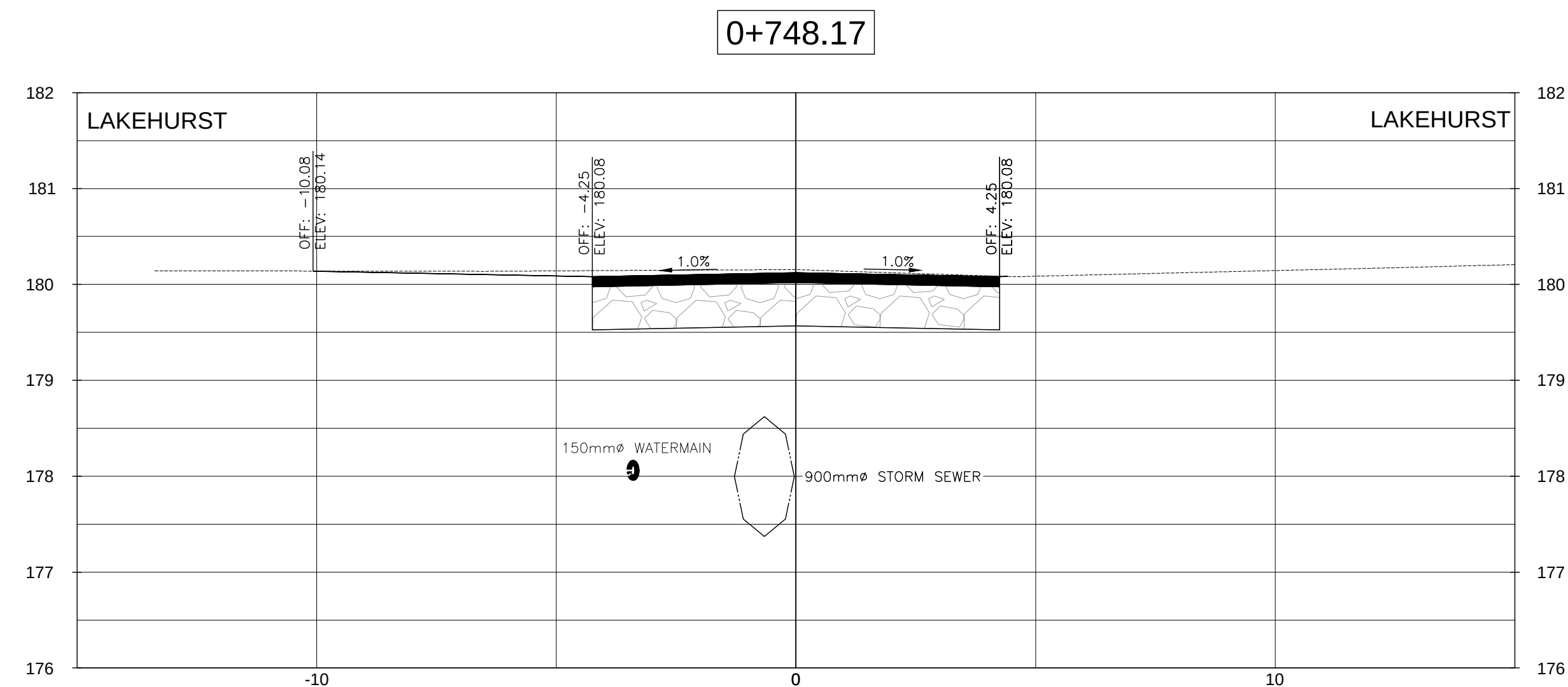
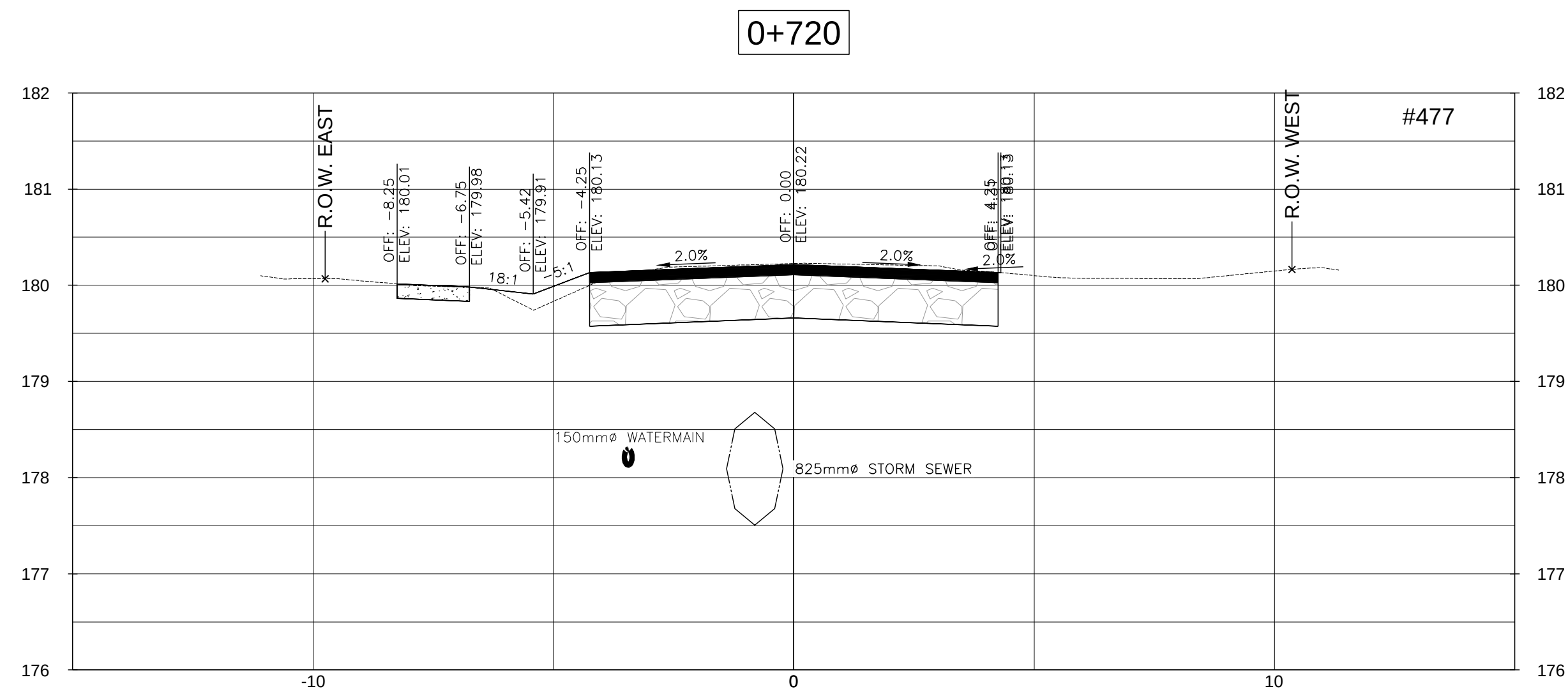
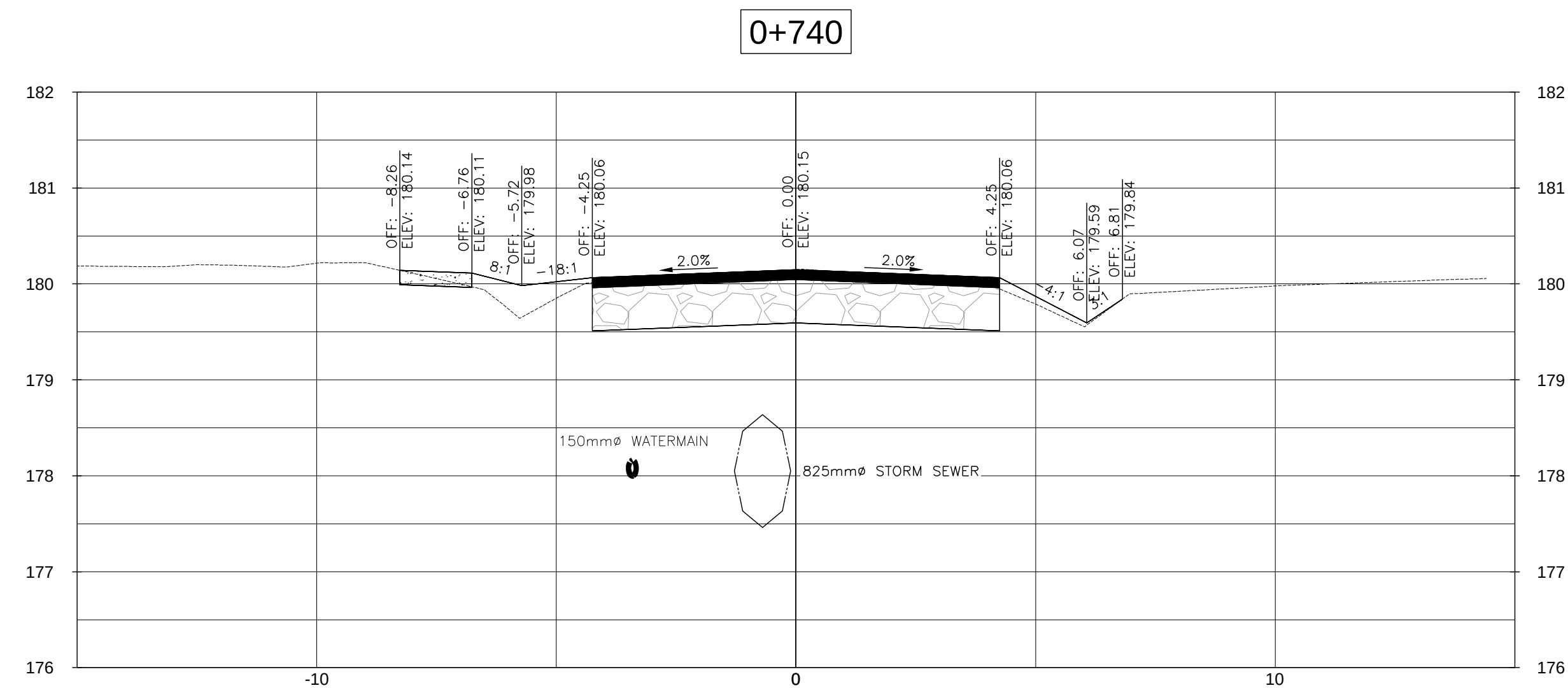
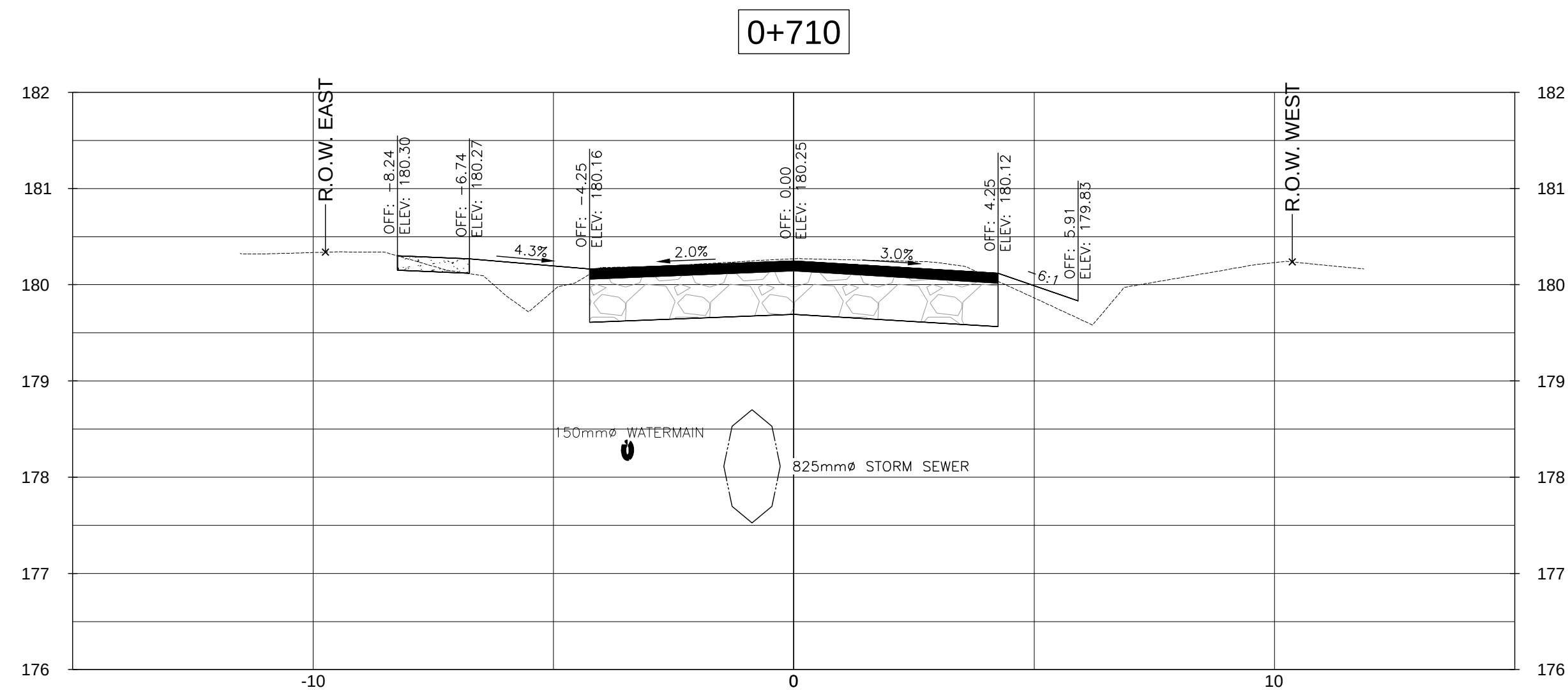
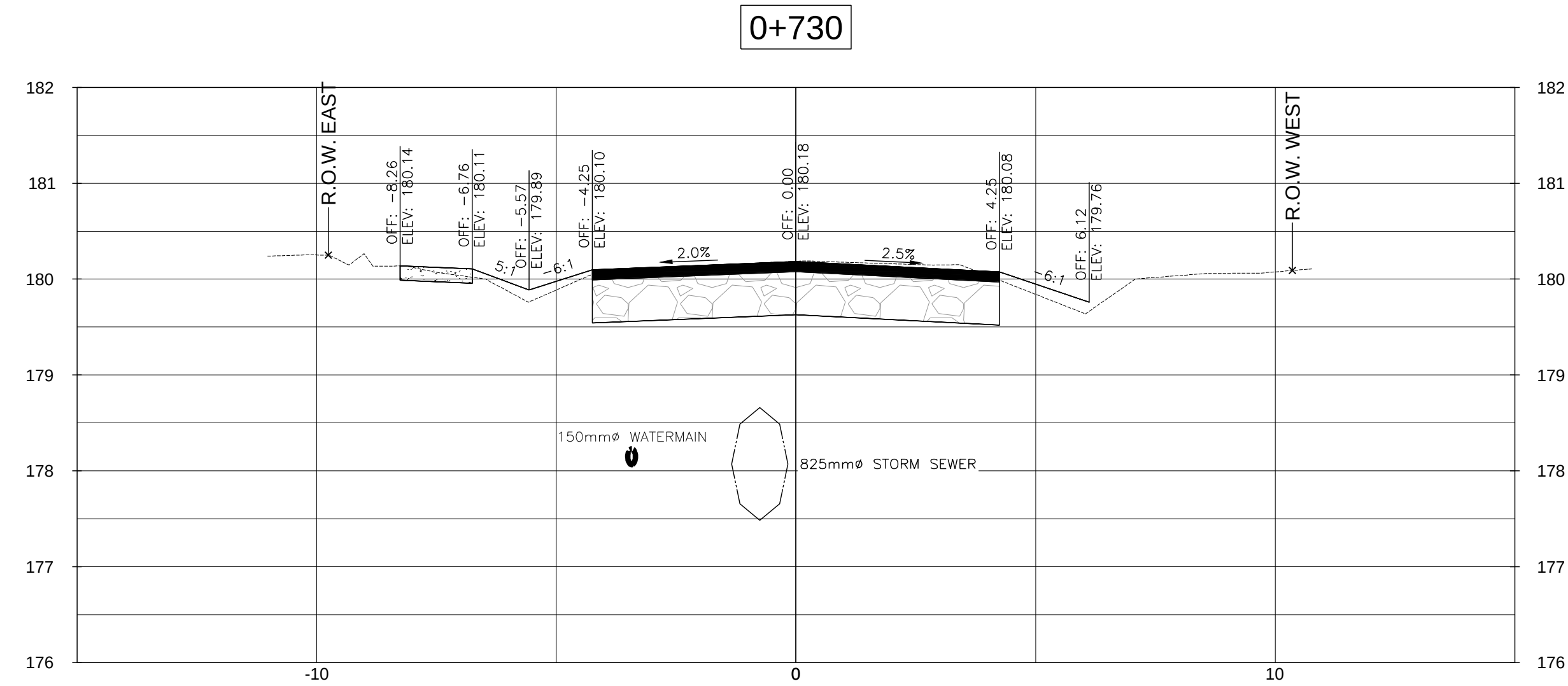
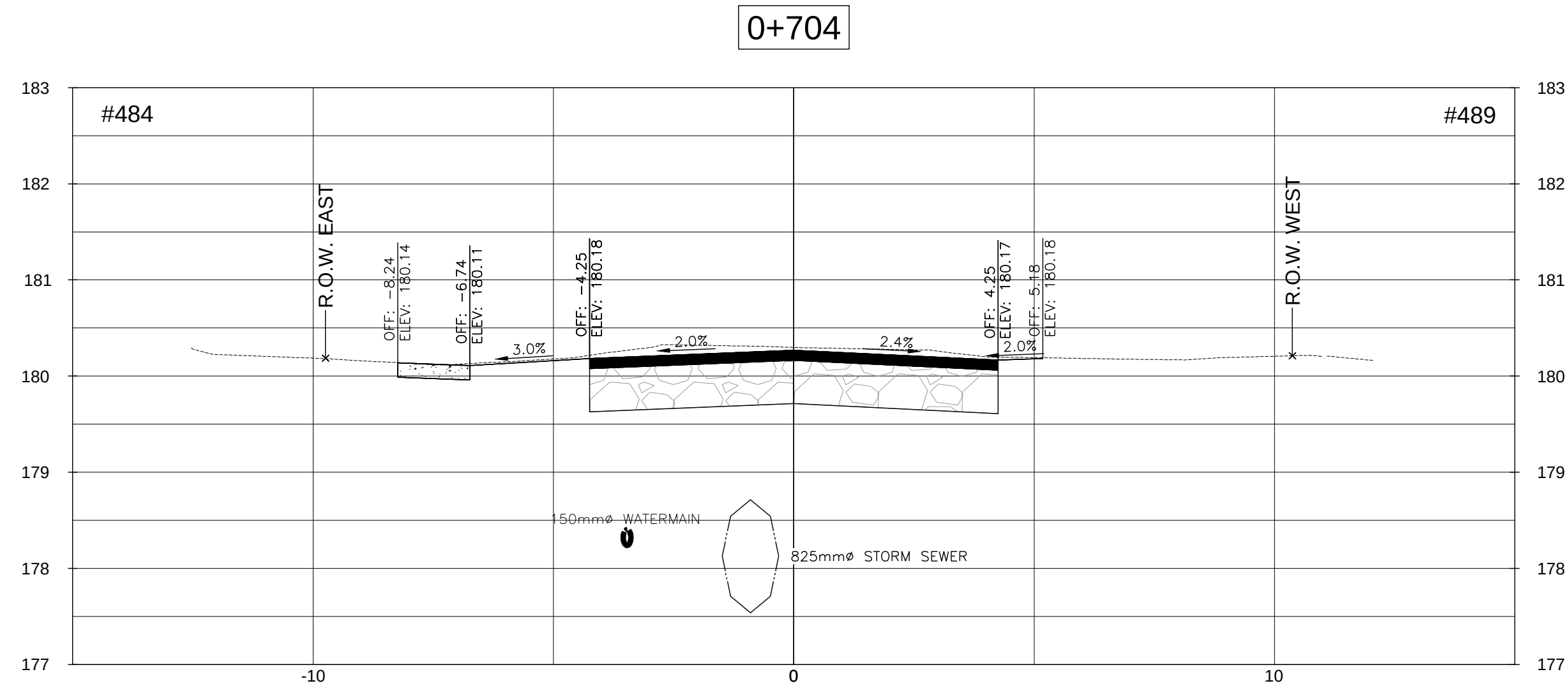
D	ISSUED FOR TENDER	2020/11/13	L.W.
C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
A	ISSUED FOR PRELIMINARY REVIEW	2018/08/01	SJO
NO.	REVISION	DATE	INIT.

DRAFTING
JNP
DESIGN
L.W.
CHECKED BY
R.W.
APPROVED BY
A.Y.B.



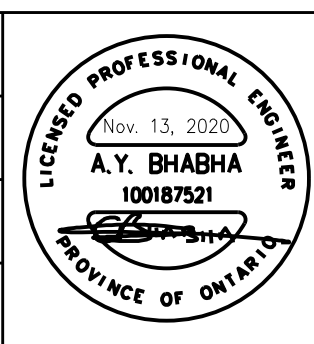
REPLACEMENT OF EXISTING STORM
SANITARY SEWERS, WATERMAINS
AND ROAD RECONSTRUCTION
LAKESIDE ROAD FROM PHILIP STREET TO
DOMINION ROAD, FORT EIRE
CROSS SECTIONS STA. 0+660 - STA. 0+698

CONSULTANT FILE No. 11156962	REV.
DATE 2018/08/01	D
SCALE HOR: 1:100 m VER: 1:50 m	
SHEET No.	
DWG No.	
XSC - 13	



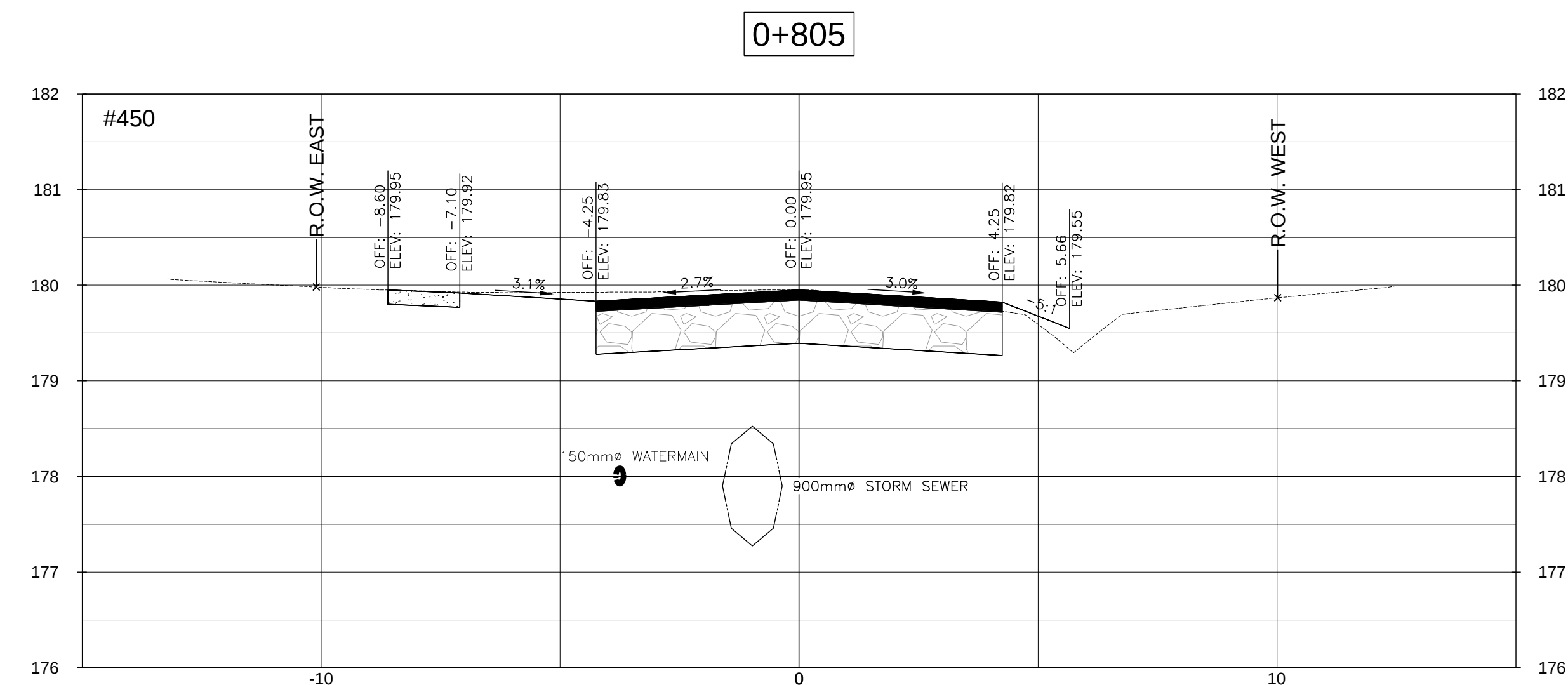
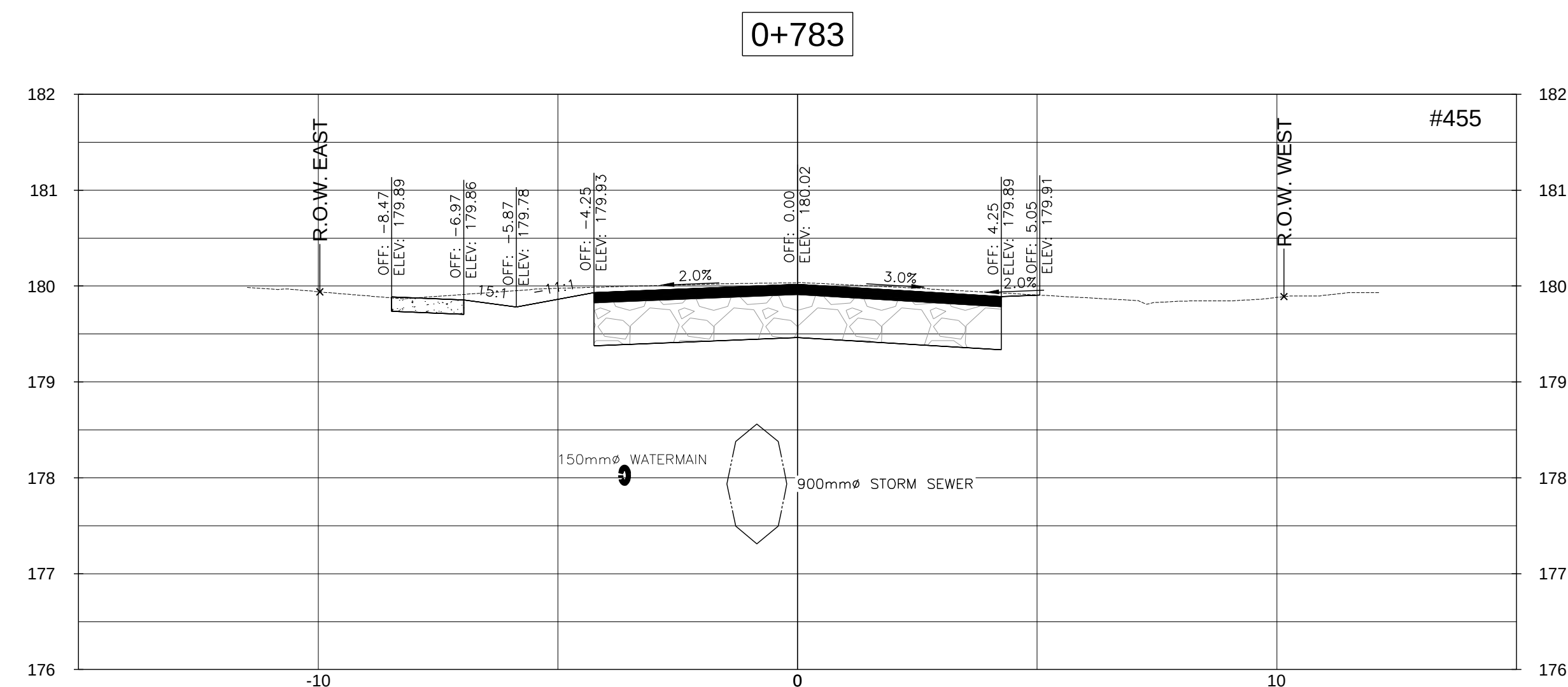
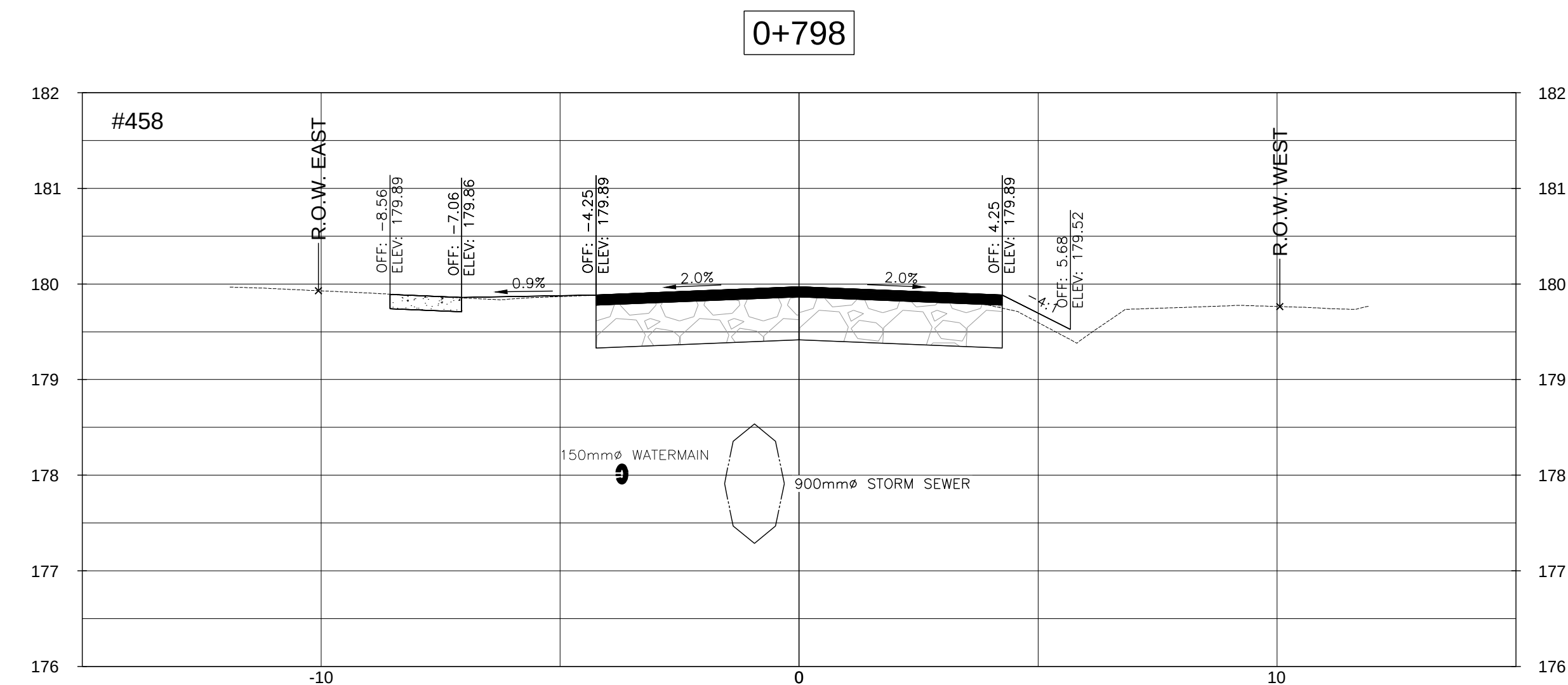
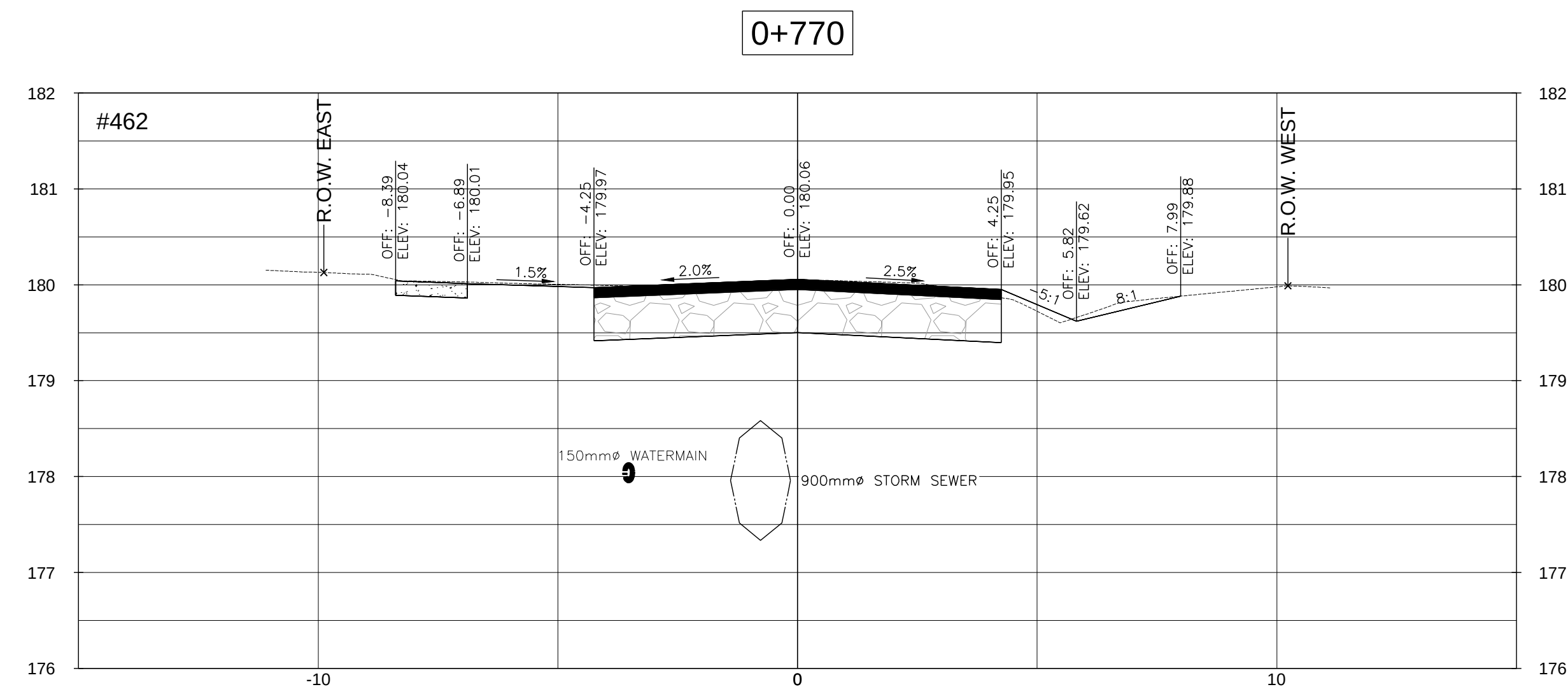
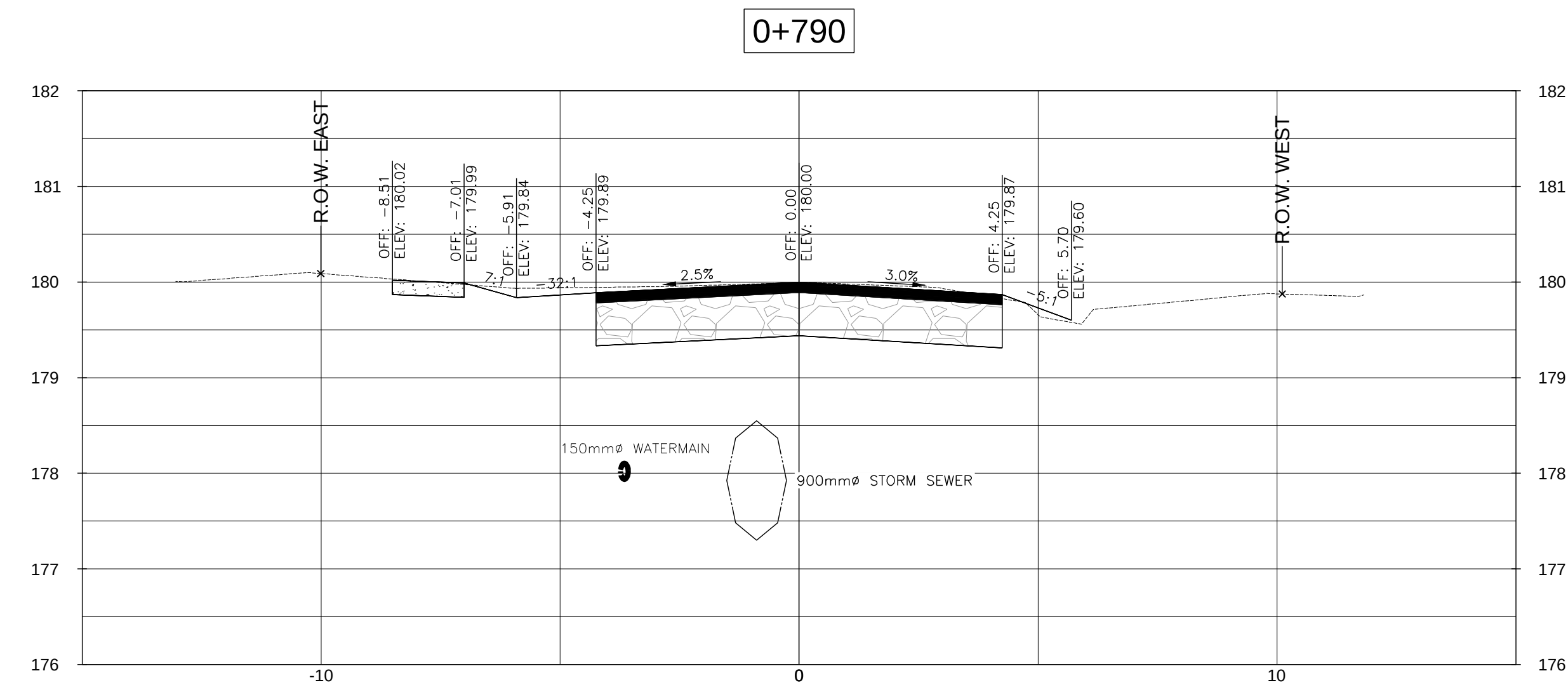
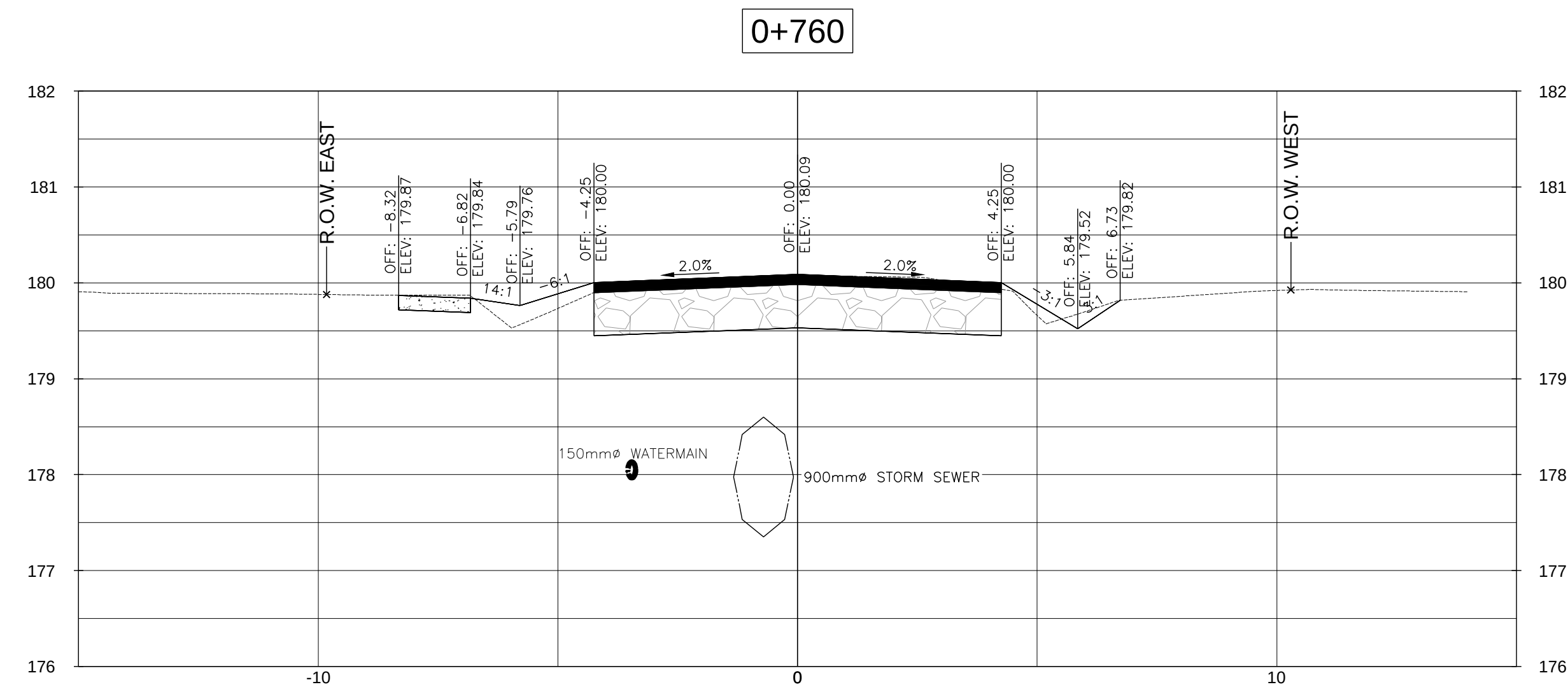
D	ISSUED FOR TENDER	2020/11/13	L.W.
C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
A	ISSUED FOR PRELIMINARY REVIEW	2018/08/01	SJO
NO.	REVISION	DATE	INIT.

DRAFTING	JNP
DESIGN	L.W.
CHECKED BY	R.W.
APPROVED BY	A.Y.B.



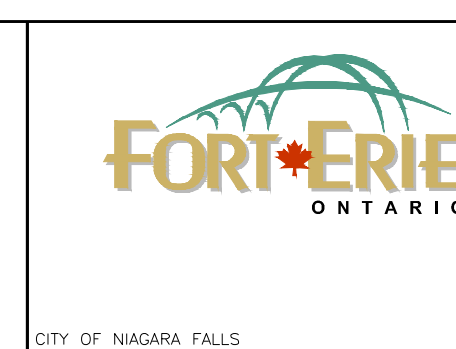
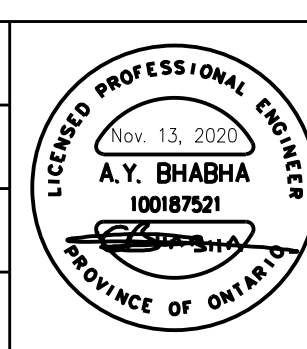
REPLACEMENT OF EXISTING STORM
SANITARY SEWERS, WATERMAINS
AND ROAD RECONSTRUCTION
LAKESIDE ROAD FROM PHILIP STREET TO
DOMINION ROAD, FORT EIRE
CROSS SECTIONS STA. 0+704 - STA. 0+748.17

CONSULTANT FILE No.	11156962
DATE	2018/08/01
SCALE	HOR: 1:100 m VER: 1:50 m
SHEET No.	
DWG No.	XSC - 14
REV.	D



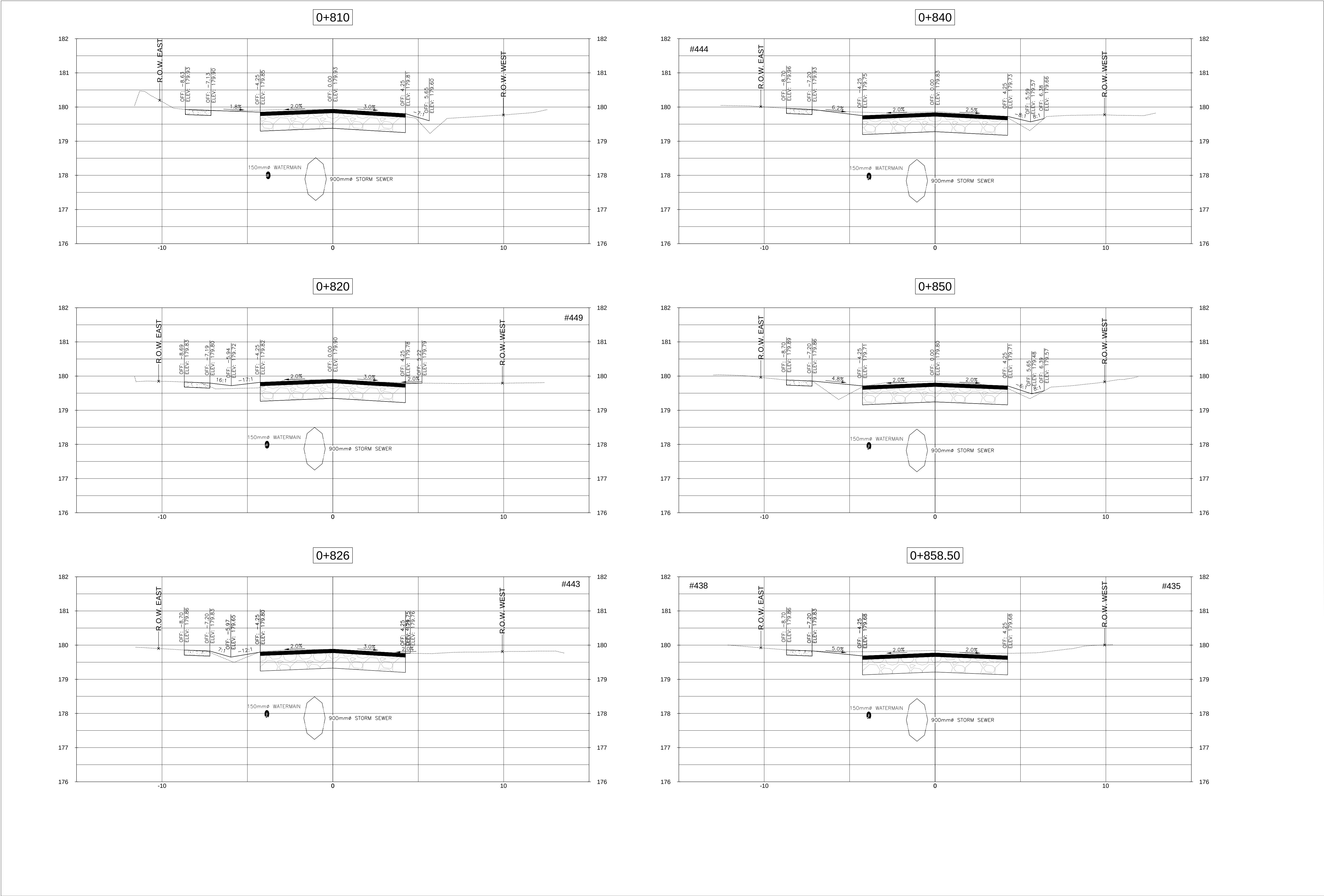
D	ISSUED FOR TENDER	2020/11/13	L.W.
C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
A	ISSUED FOR PRELIMINARY REVIEW	2018/08/01	SJO
NO.	REVISION	DATE	INIT.

DRAFTING
JNP
DESIGN
L.W.
CHECKED BY
R.W.
APPROVED BY
A.Y.B.



**REPLACEMENT OF EXISTING STORM
SANITARY SEWERS, WATERMAINS
AND ROAD RECONSTRUCTION**
LAKESIDE ROAD FROM PHILIP STREET TO
DOMINION ROAD, FORT EIRE
CROSS SECTIONS STA. 0+760 - STA. 0+805

CONSULTANT FILE No. 11156962	REV.
DATE 2018/08/01	D
SCALE HOR: 1:100 m VER: 1:50 m	
SHEET No.	
DWG No. XSC - 15	



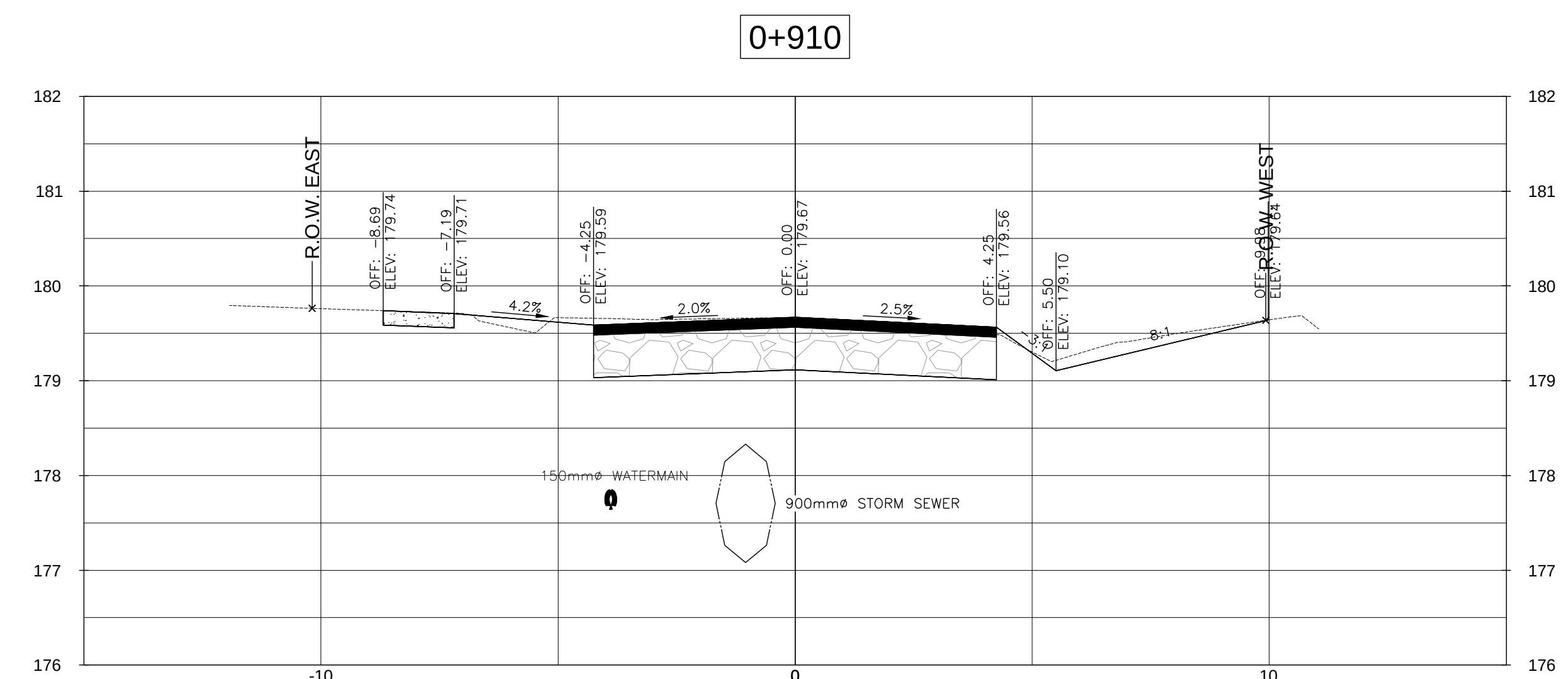
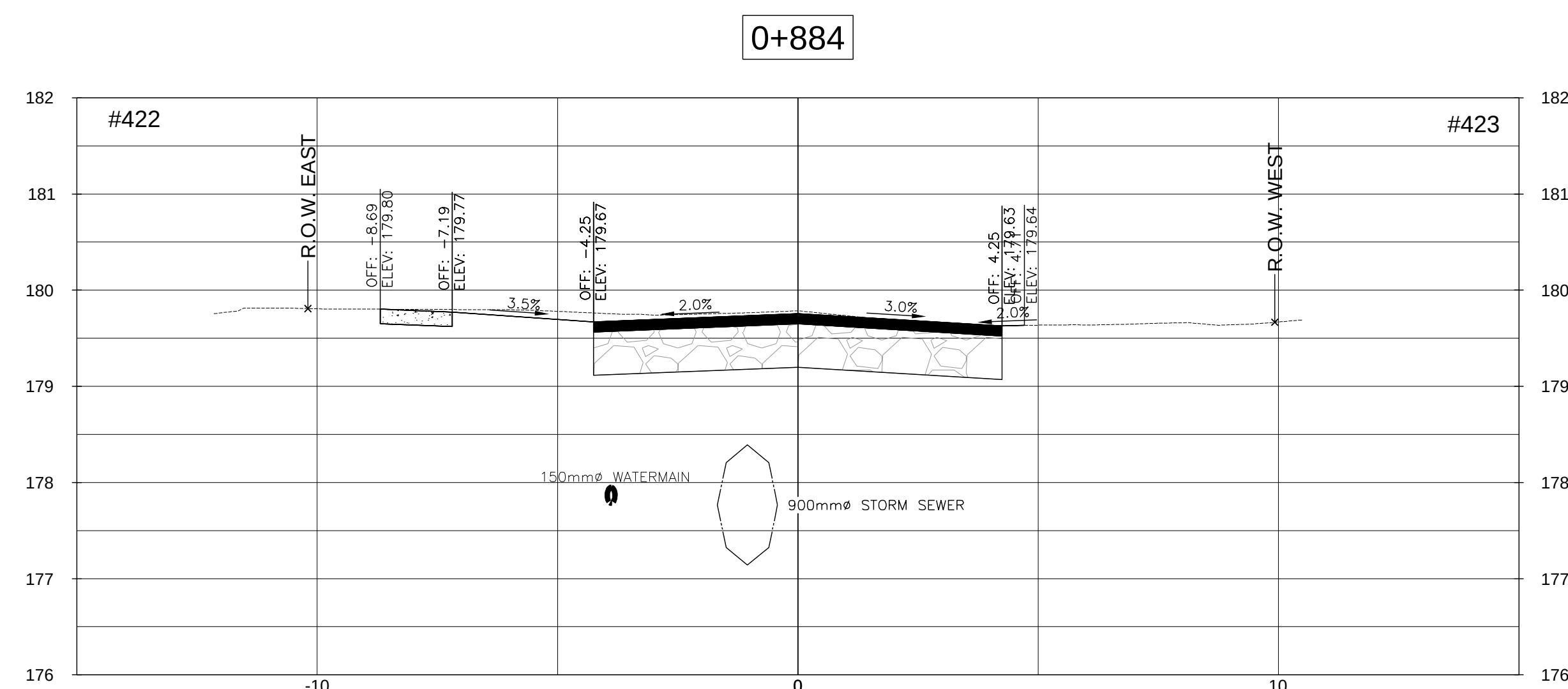
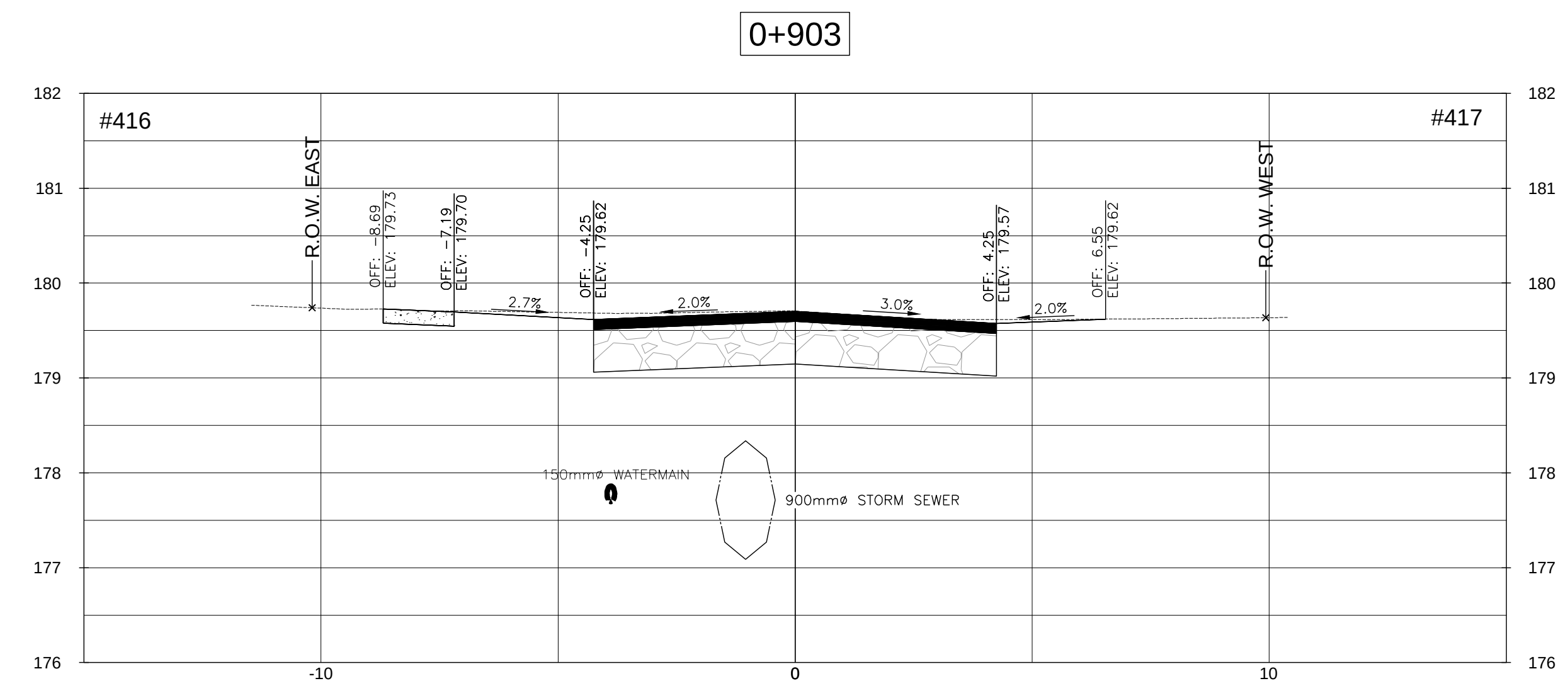
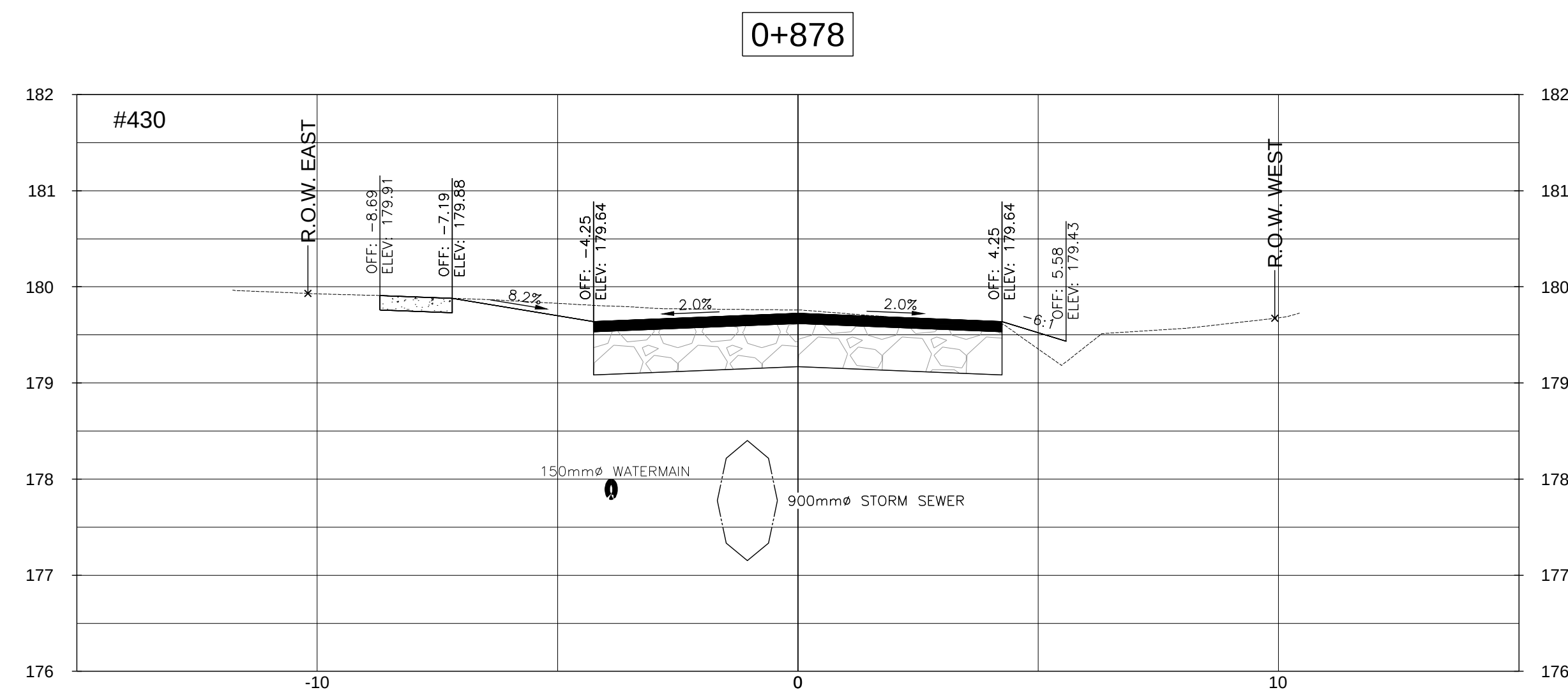
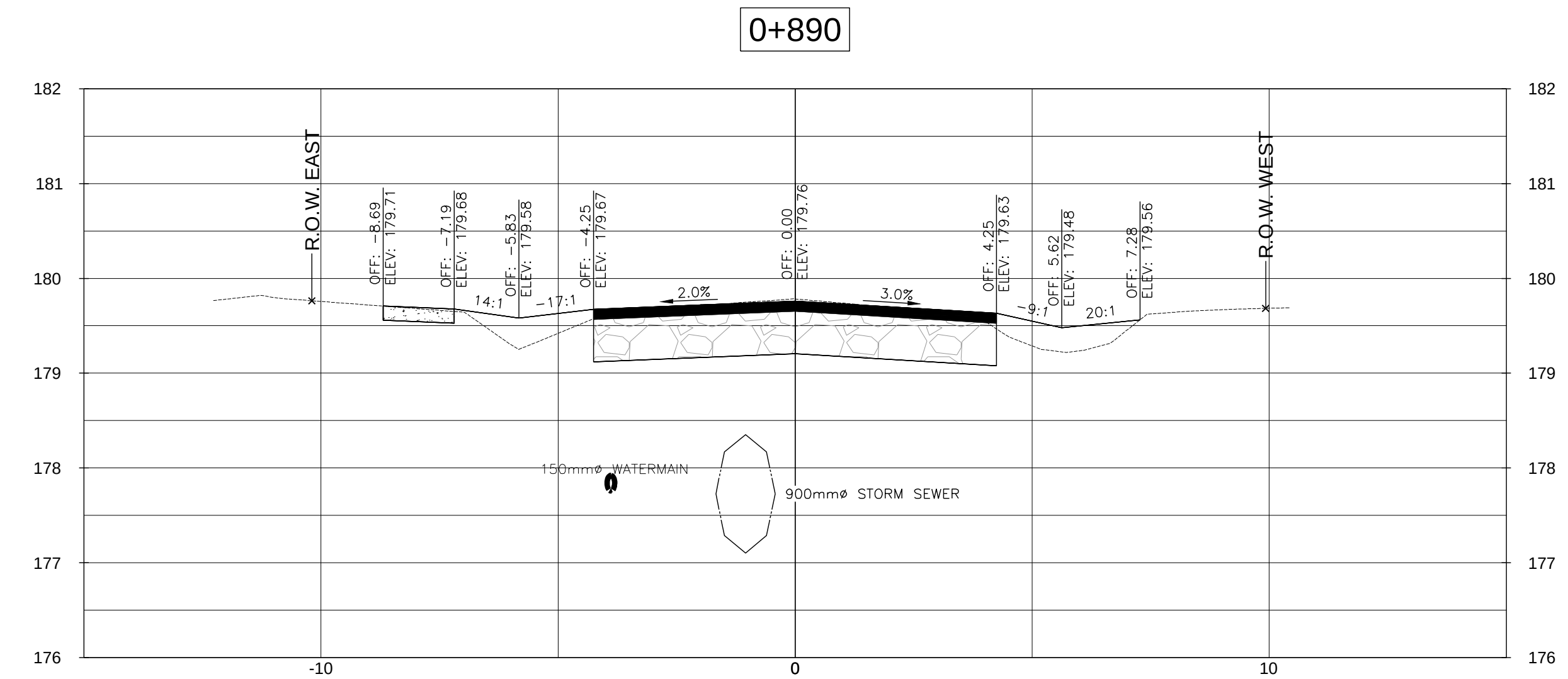
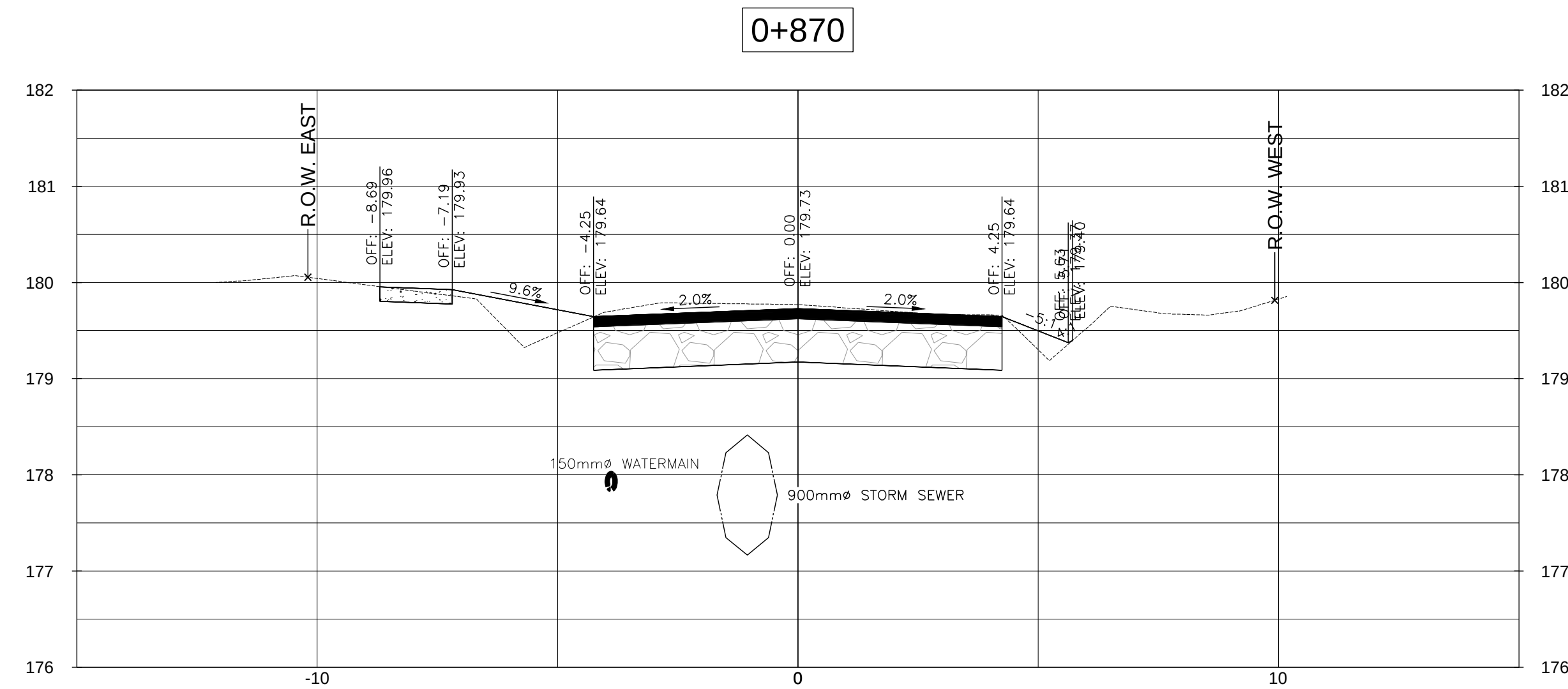
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C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
A	ISSUED FOR PRELIMINARY REVIEW	2018/08/01	SJO
NO.	REVISION	DATE	INIT.

DRAFTING	JNP
DESIGN	L.W.
CHECKED BY	R.W.
APPROVED BY	A.Y.B.



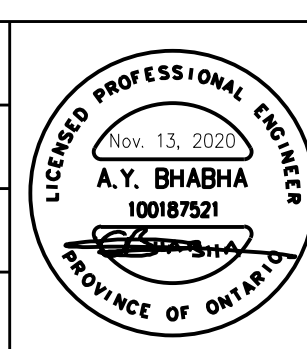
REPLACEMENT OF EXISTING STORM
SANITARY SEWERS, WATERMAINS
AND ROAD RECONSTRUCTION
LAKESIDE ROAD FROM PHILIP STREET TO
DOMINION ROAD, FORT EIRE
CROSS SECTIONS STA. 0+810 - STA. 0+858.50

CONSULTANT FILE No. 11156962
DATE 2018/08/01
SCALE HOR: 1:100 m VER: 1:50 m
SHEET No.
DWG No. XSC - 16
REV. D



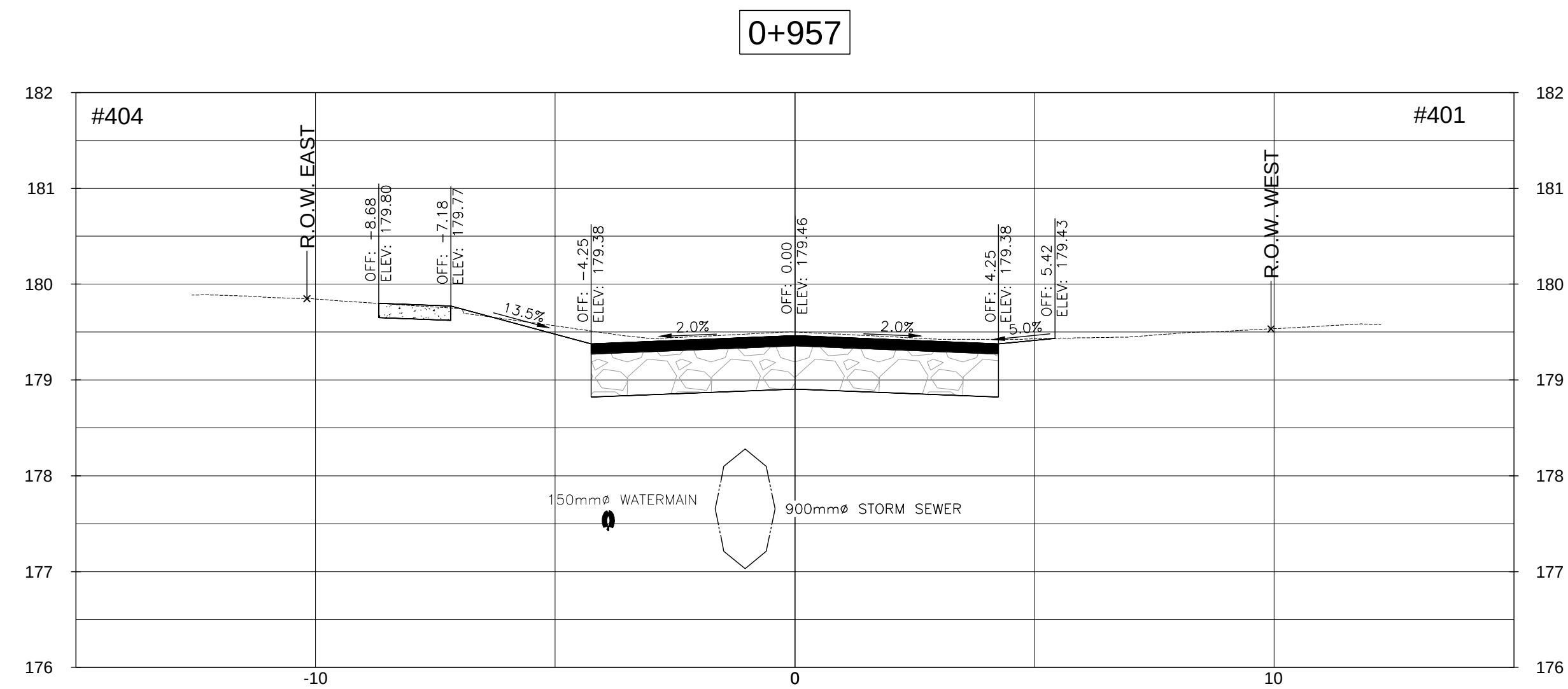
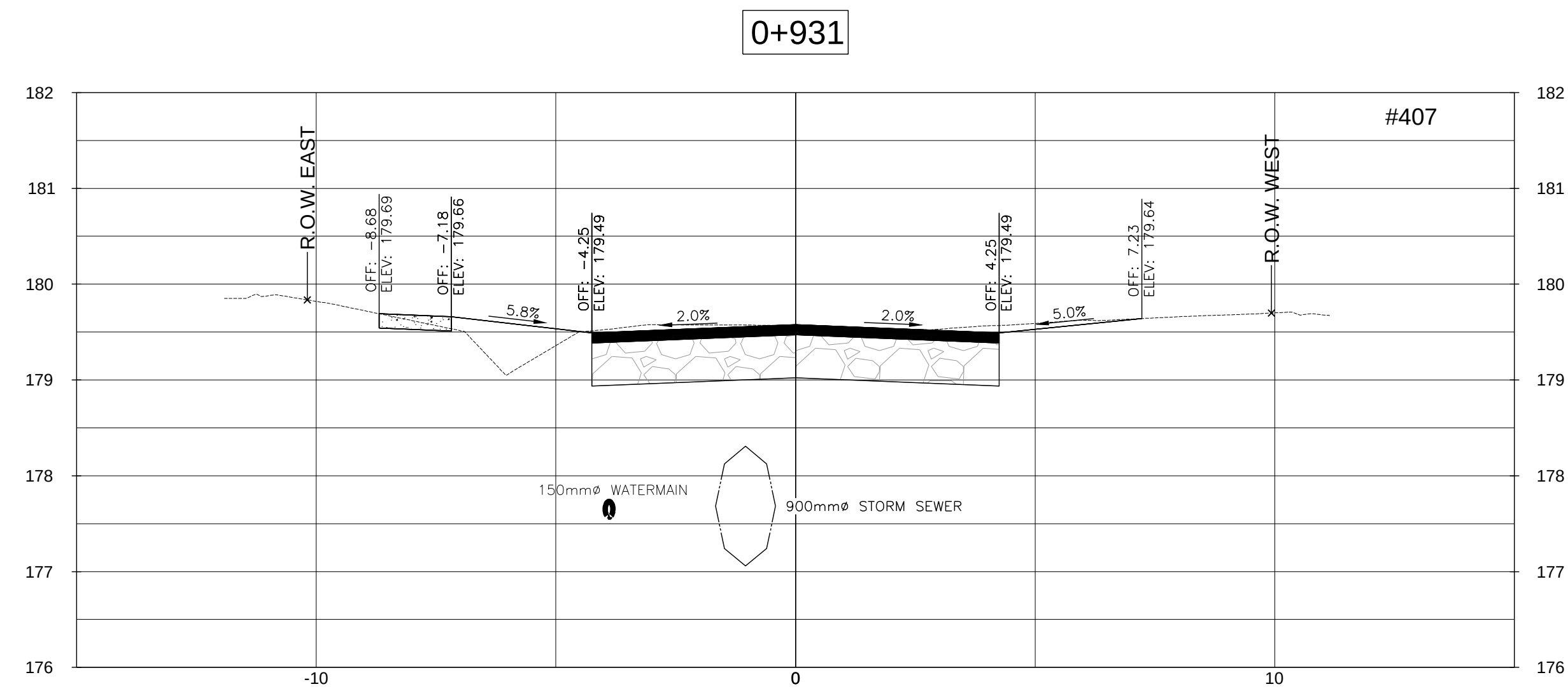
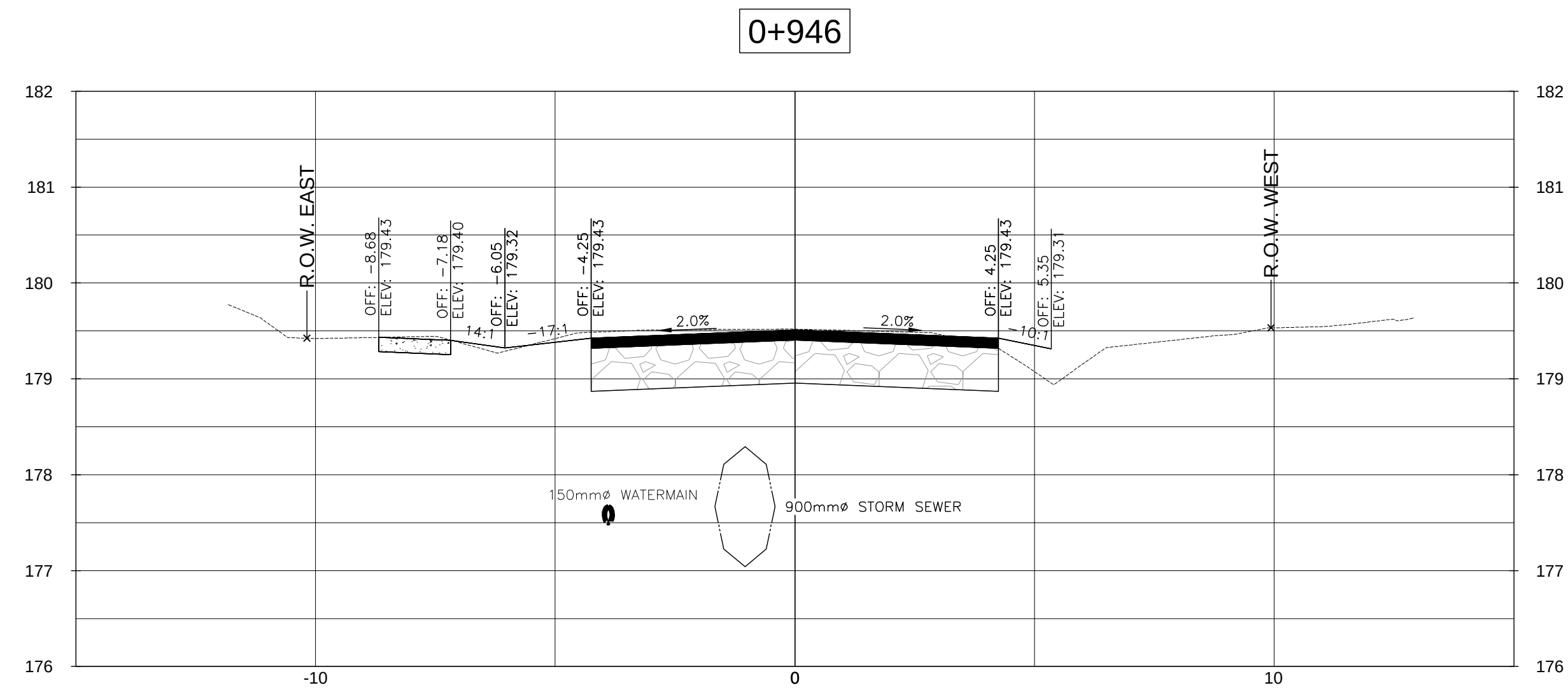
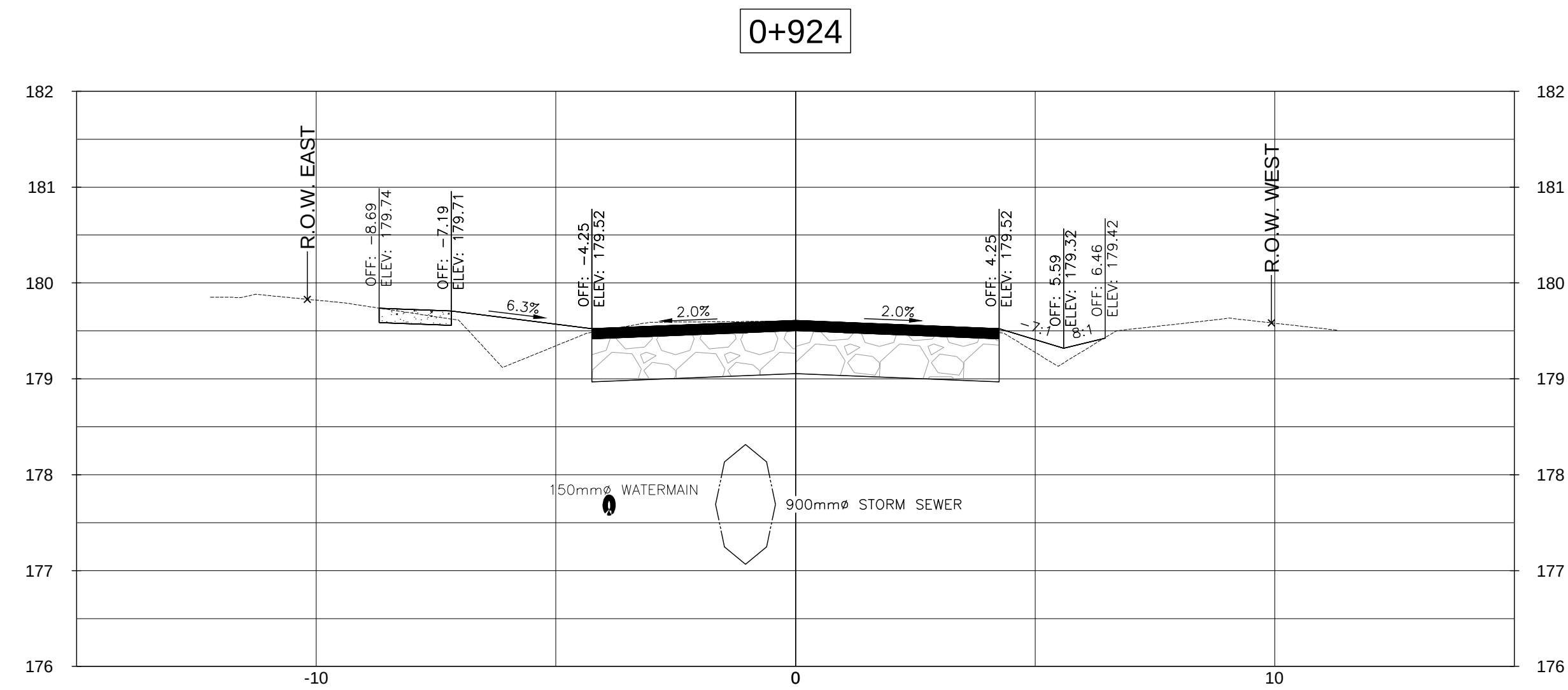
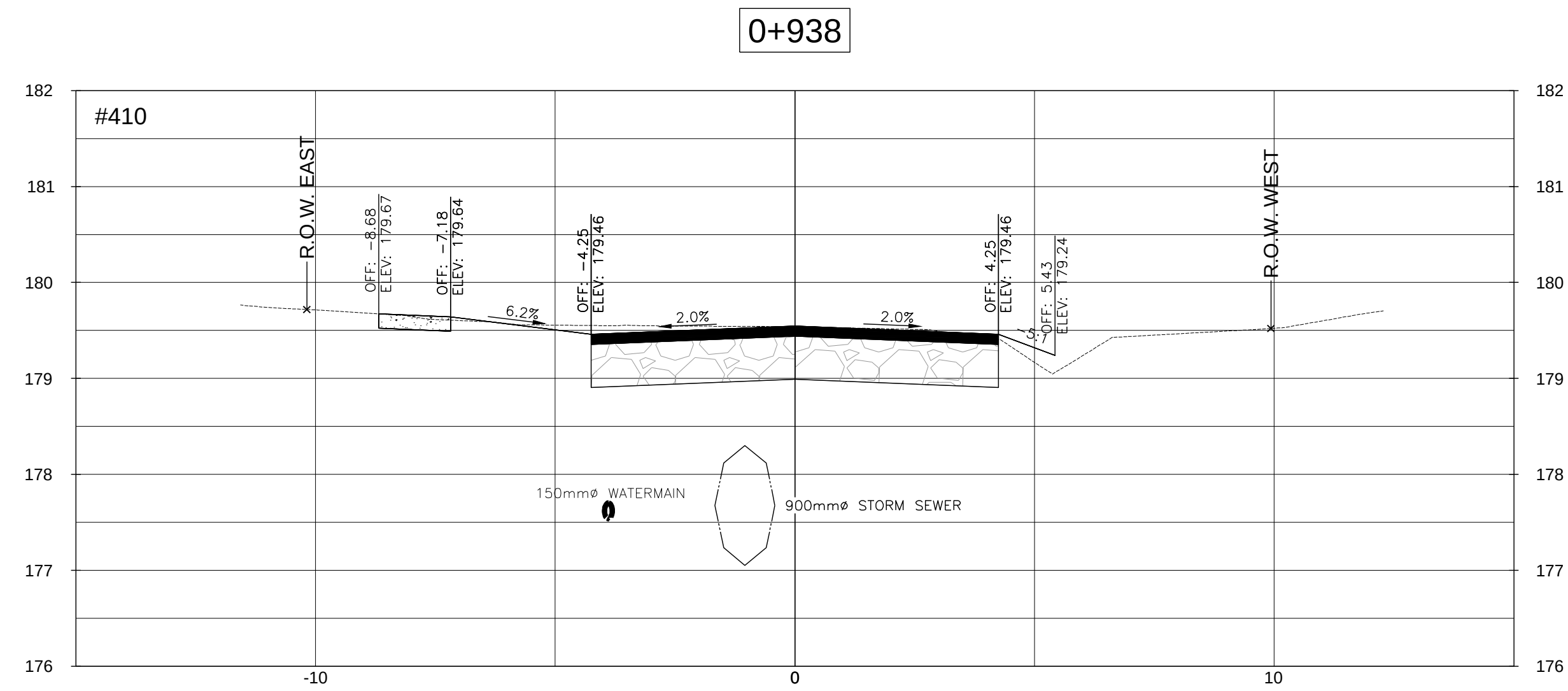
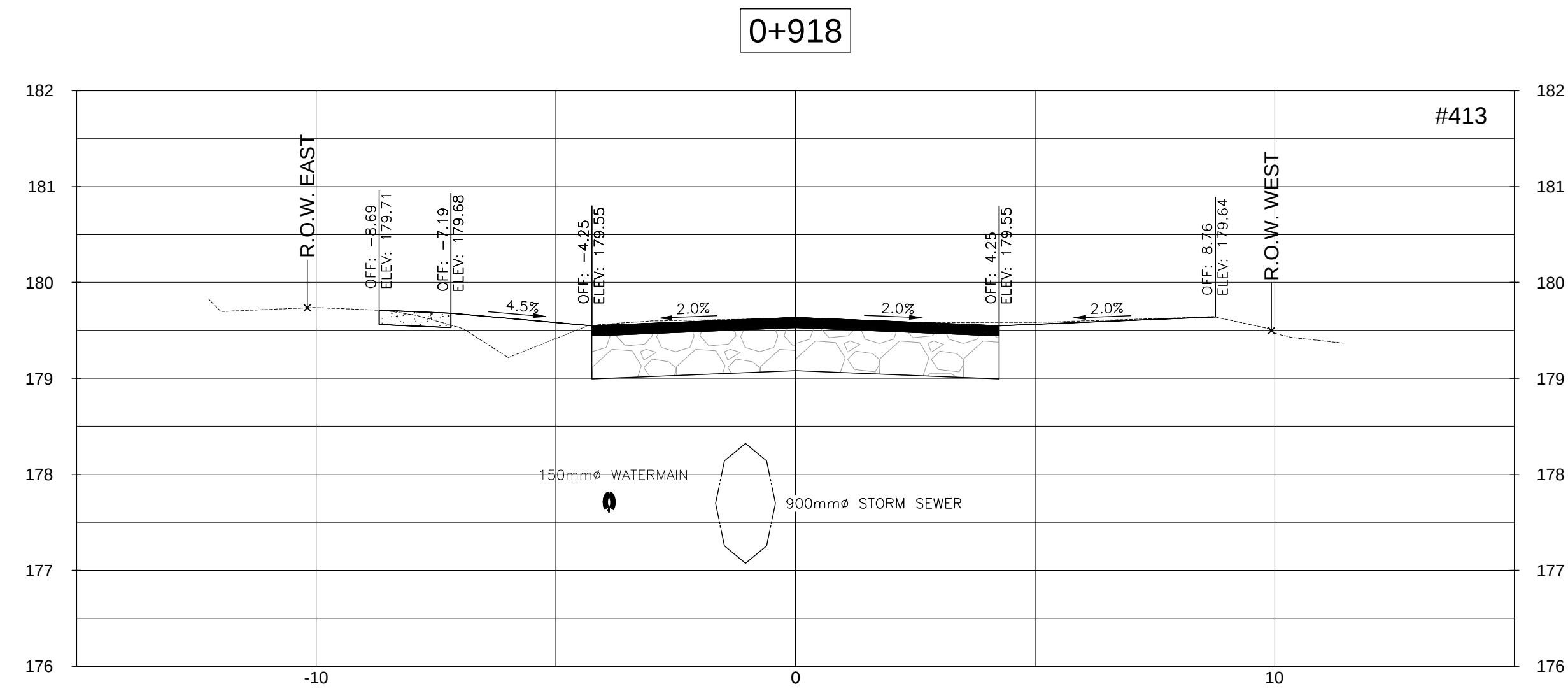
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C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
A	ISSUED FOR PRELIMINARY REVIEW	2018/08/01	SJO
NO.	REVISION	DATE	INIT.

DRAFTING	JNP
DESIGN	L.W.
CHECKED BY	R.W.
APPROVED BY	A.Y.B.



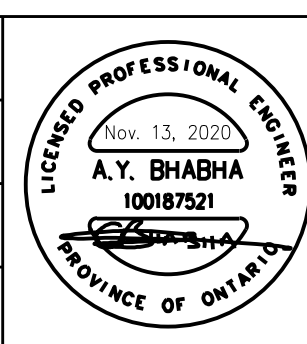
**REPLACEMENT OF EXISTING STORM
SANITARY SEWERS, WATERMAINS
AND ROAD RECONSTRUCTION**
LAKESIDE ROAD FROM PHILIP STREET TO
DOMINION ROAD, FORT EIRE
CROSS SECTIONS STA. 0+870 - STA. 0+910

CONSULTANT FILE No. 11156962	REV.
DATE 2018/08/01	D
SCALE HOR: 1:100 m VER: 1:50 m	
SHEET No.	
DWG No.	
XSC - 17	



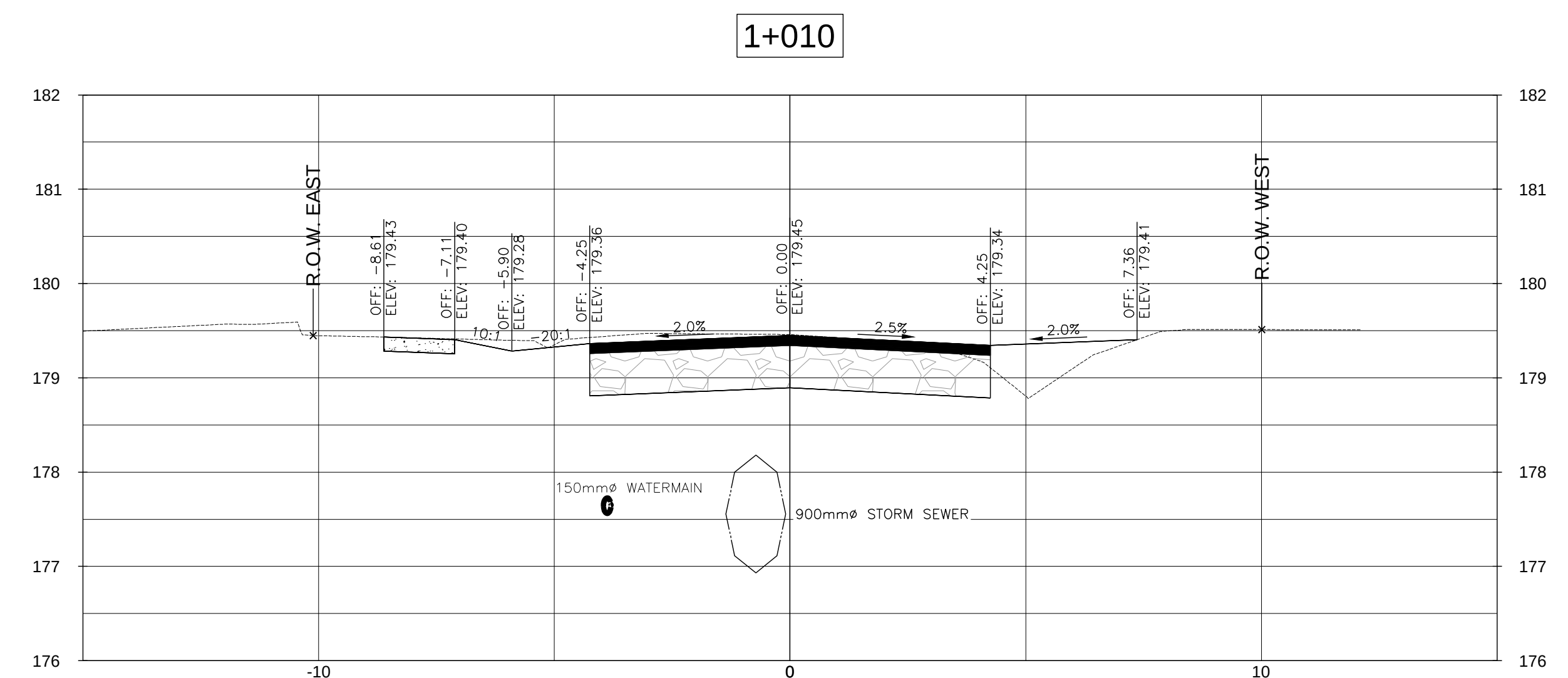
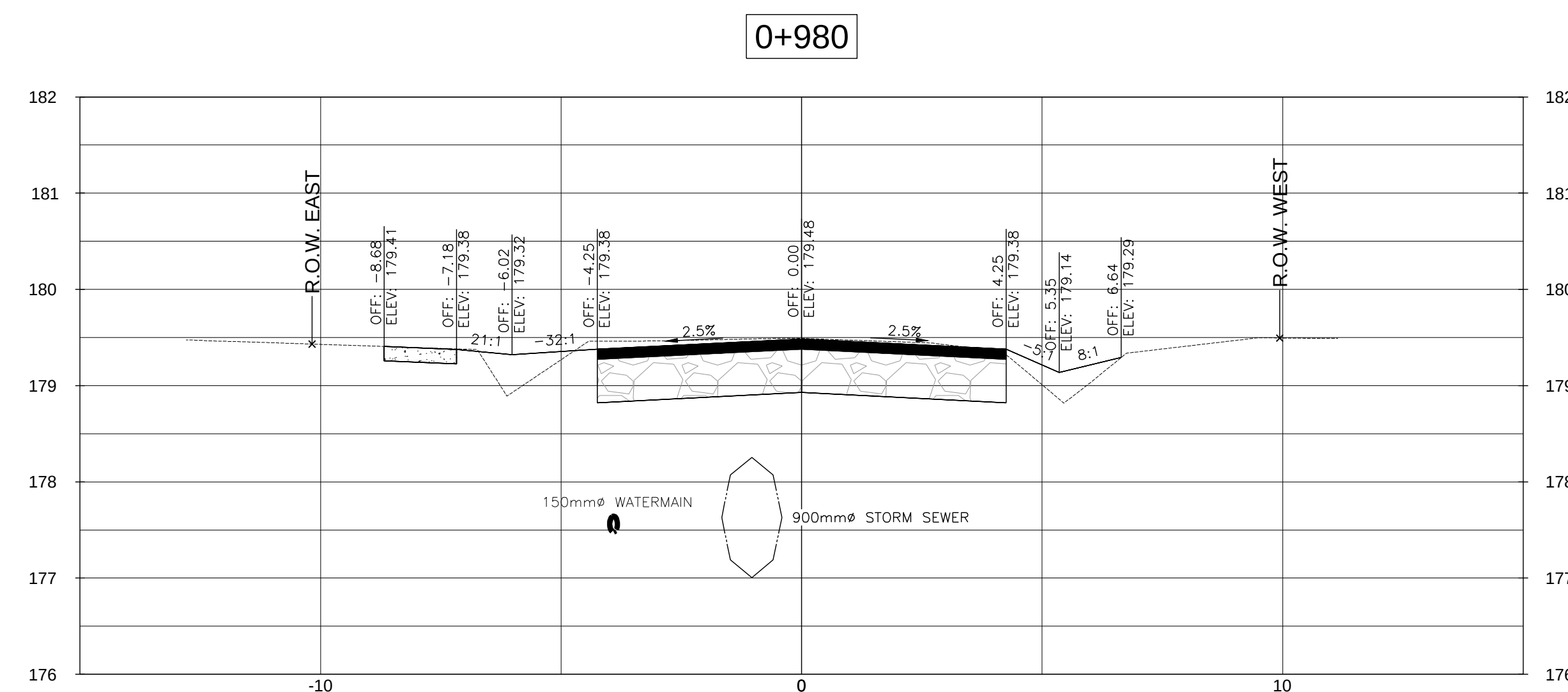
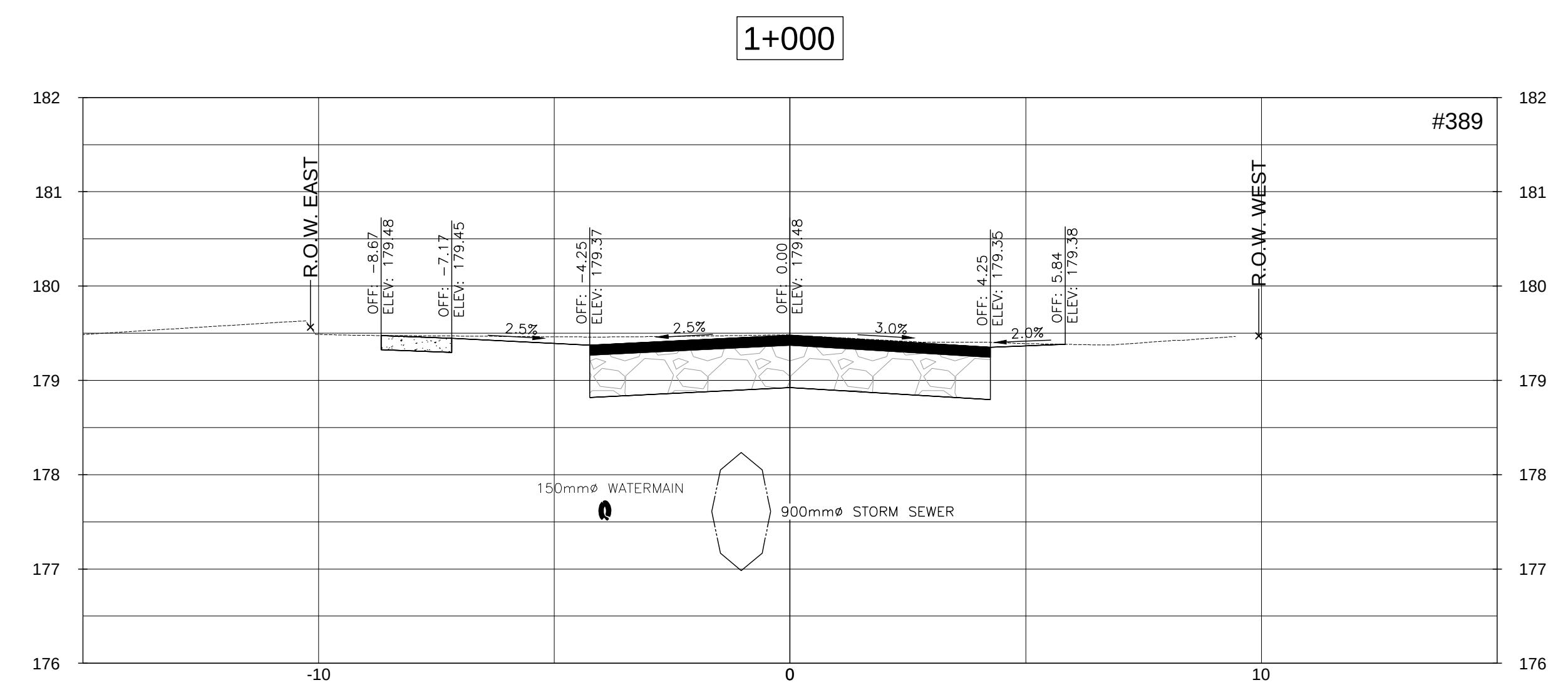
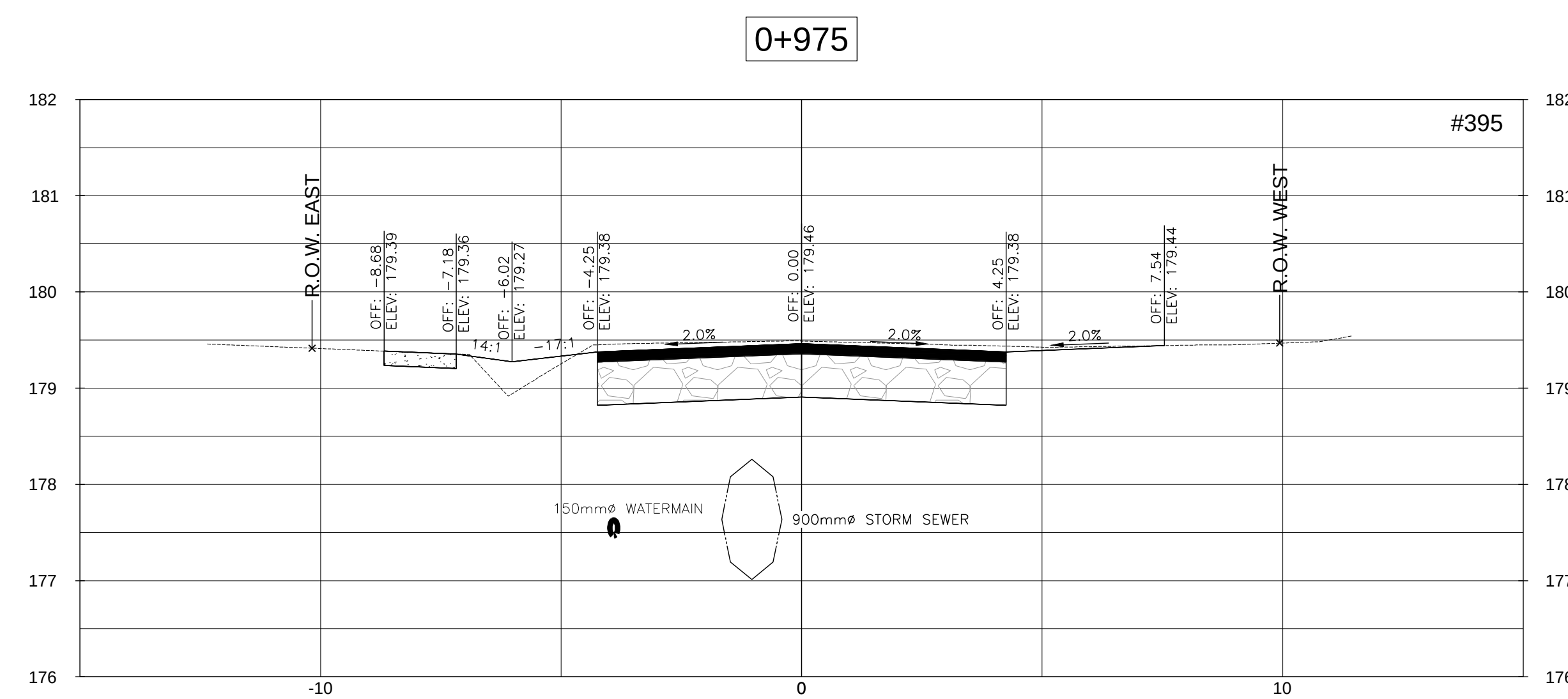
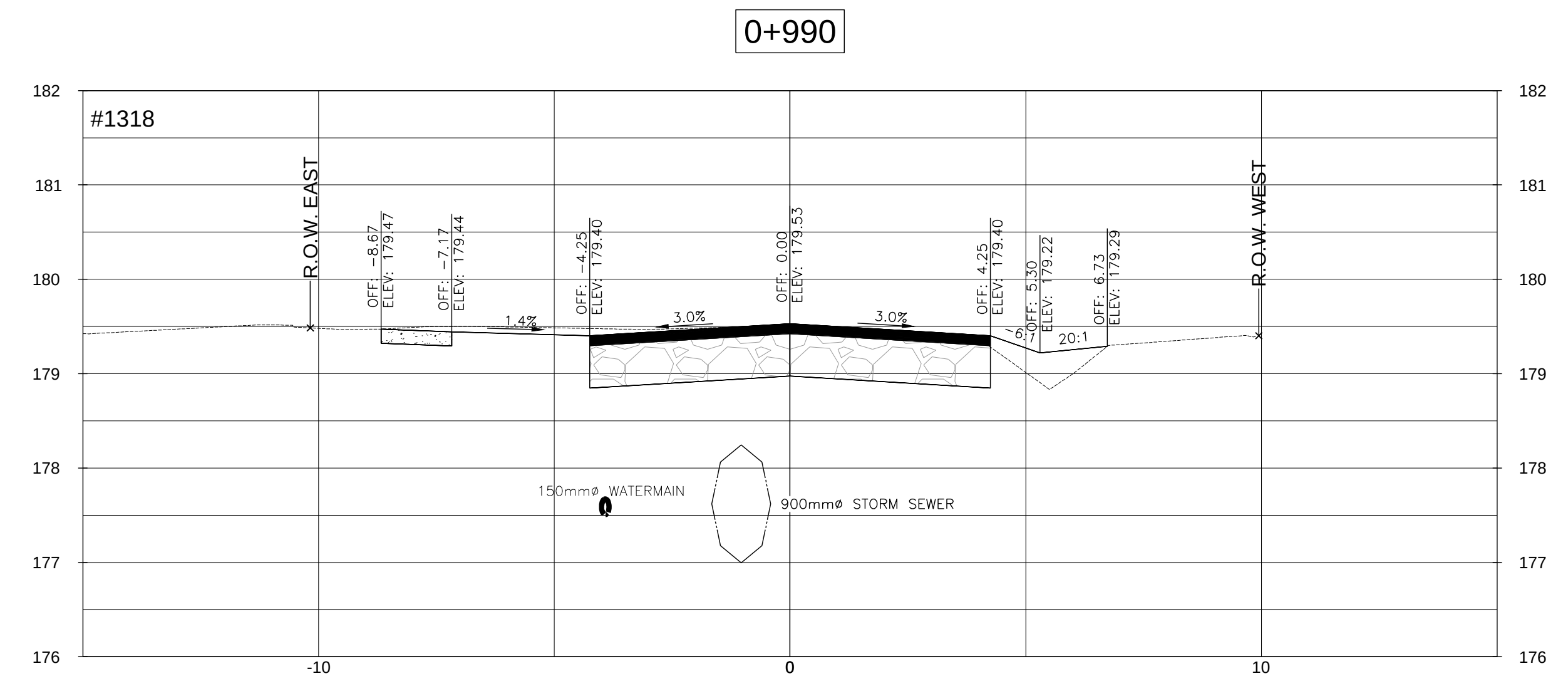
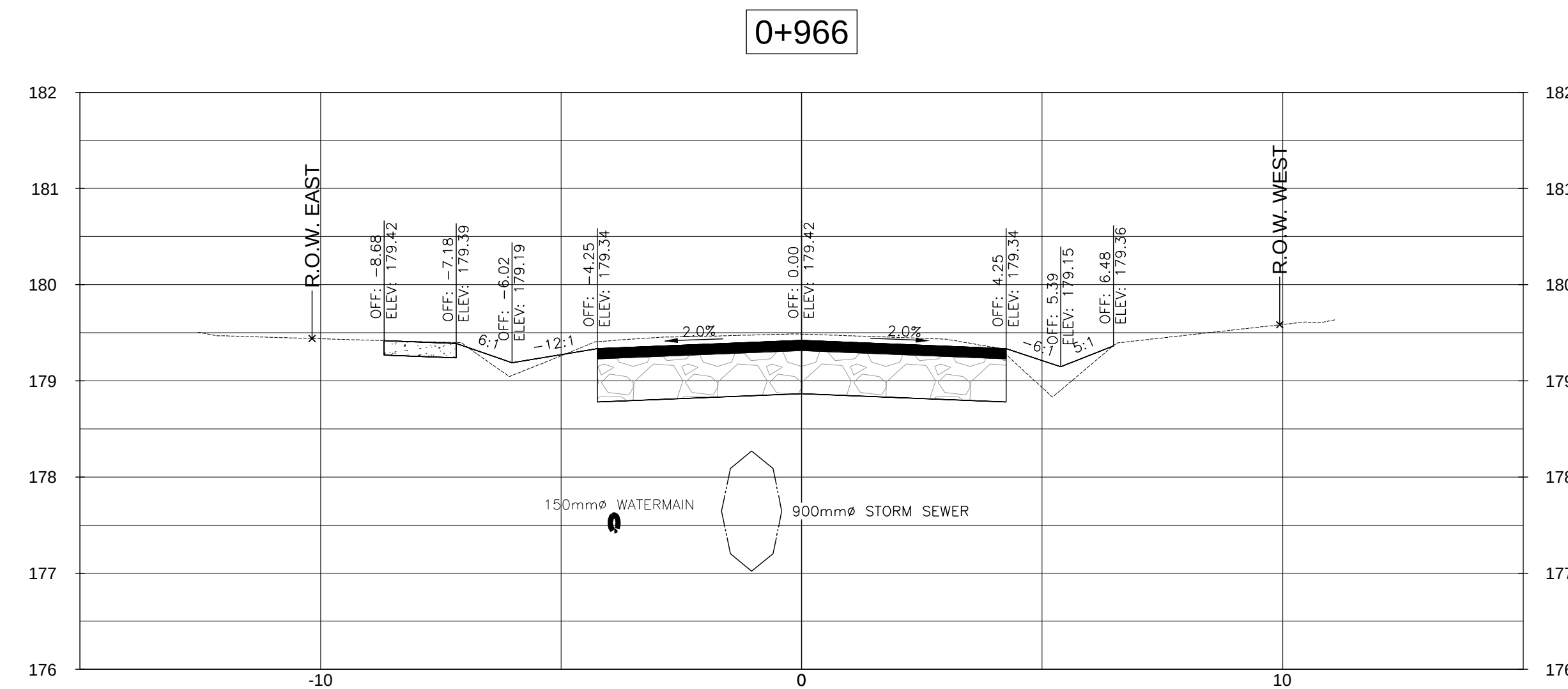
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C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
A	ISSUED FOR PRELIMINARY REVIEW	2018/08/01	SJO
NO.	REVISION	DATE	INIT.

DRAFTING
JNP
DESIGN
L.W.
CHECKED BY
R.W.
APPROVED BY
A.Y.B.



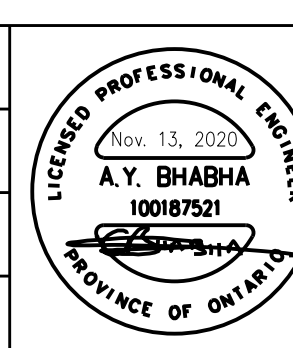
REPLACEMENT OF EXISTING STORM
SANITARY SEWERS, WATERMAINS
AND ROAD RECONSTRUCTION
LAKESIDE ROAD FROM PHILIP STREET TO
DOMINION ROAD, FORT EIRE
CROSS SECTIONS STA. 0+918 - STA. 0+957

CONSULTANT FILE No. 11156962	REV.
DATE 2018/08/01	D
SCALE HOR: 1:100 m VER: 1:50 m	
SHEET No.	
DWG No.	
XSC - 18	



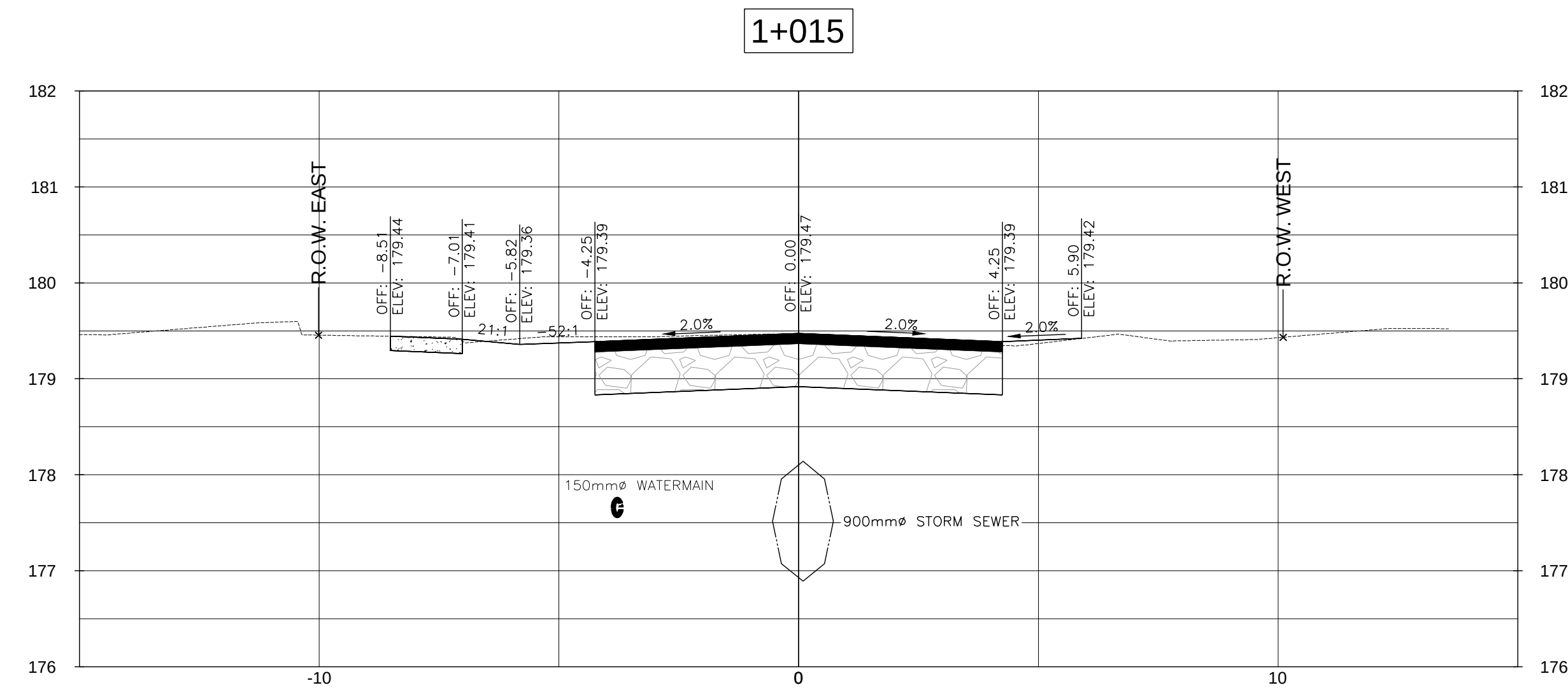
D	ISSUED FOR TENDER	2020/11/13	LW
C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	LW
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	LW
A	ISSUED FOR PRELIMINARY REVIEW	2018/08/01	SJC
NO.	REVISION	DATE	INIT

DRAFTING JNP
DESIGN L.W.
CHECKED BY R.W
APPROVED BY A.Y.B.



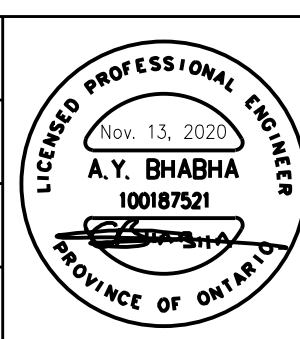
REPLACEMENT OF EXISTING STORM
SANITARY SEWERS, WATERMAINS
AND ROAD RECONSTRUCTION
LAKESIDE ROAD FROM PHILIP STREET TO
DOMINION ROAD, FORT EIRE
CROSS SECTIONS STA. 0+966 - STA. 1+010

CONSULTANT FILE No. 11156962	
DATE 2018/08/01	
SCALE HOR: 1:100 m VER: 1:50 m	
SHEET No.	
DWG No. XSC - 19	REV. D



D	ISSUED FOR TENDER	2020/11/13	L.W.
C	ISSUED FOR 90% DESIGN REVIEW	2020/05/22	L.W.
B	ISSUED FOR 60% DESIGN REVIEW	2020/02/12	L.W.
A	ISSUED FOR PRELIMINARY REVIEW	2018/08/01	SJO
NO.	REVISION	DATE	INIT.

DRAFTING	JNP
DESIGN	L.W.
CHECKED BY	R.W.
APPROVED BY	A.Y.B.



REPLACEMENT OF EXISTING STORM
SANITARY SEWERS, WATERMAINS
AND ROAD RECONSTRUCTION
LAKESIDE ROAD FROM PHILIP STREET TO
DOMINION ROAD, FORT EIRE
CROSS SECTIONS STA. 1+015

CONSULTANT FILE No. 11156962	REV.
DATE 2018/08/01	D
SCALE HOR: 1:100 m VER: 1:50 m	
SHEET No.	
DWG No. XSC - 20	