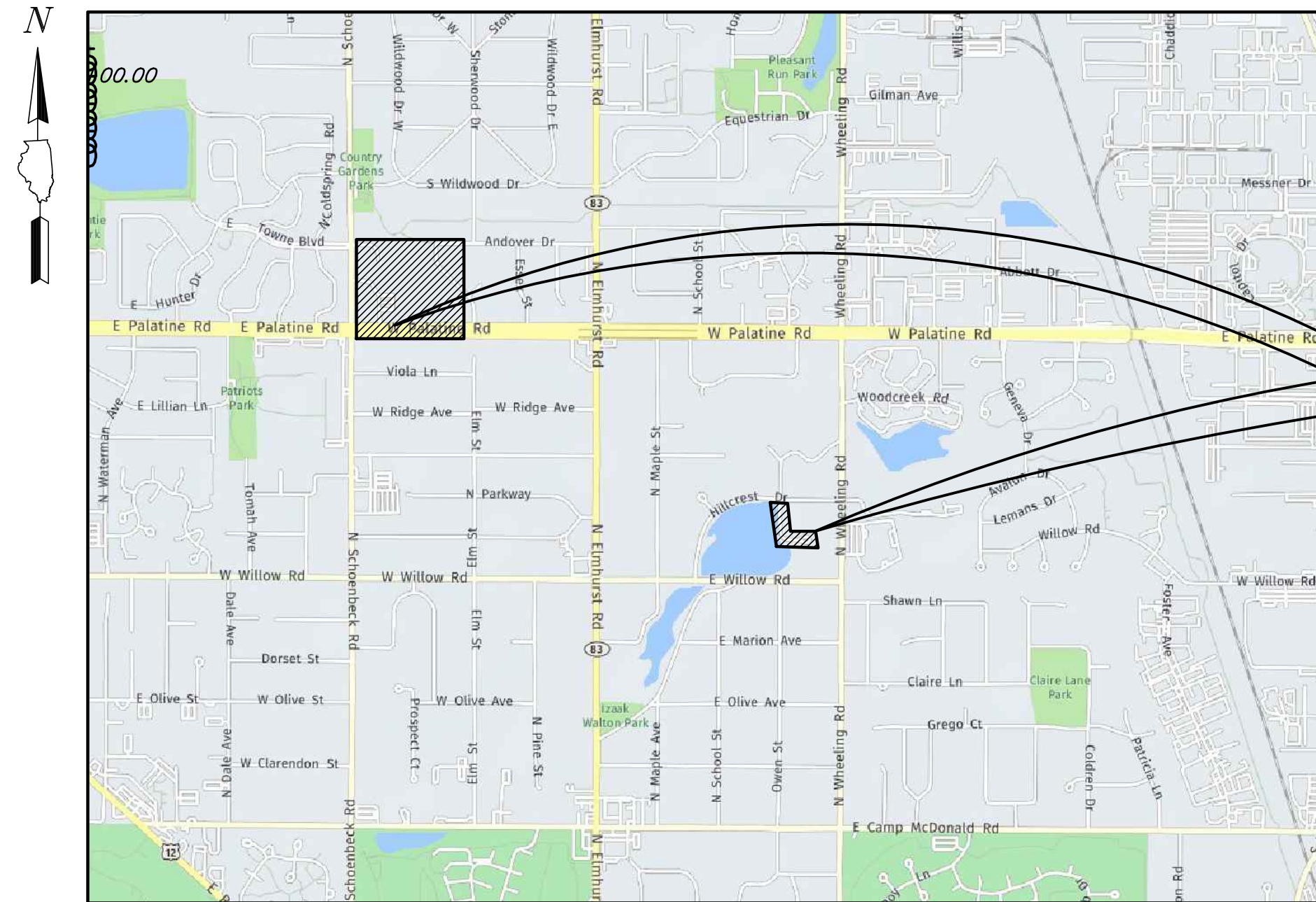


OWEN COURT FLOOD CONTROL PROJECT

CITY OF PROSPECT HEIGHTS, ILLINOIS

STANDARD SYMBOLS

FEATURE	EXISTING	PROPOSED
BUFFALO BOX		
BUSH/SHRUB		
CATCH BASIN		
CLEANOUT		
COMBINE SEWER LINE		
CONTOUR		
CULVERT		
DITCH/SWALE		
ELECTRIC LINE		
ELECTRIC MANHOLE		
FENCE		
FIRE HYDRANT		
FLARED END SECTION		
GAS LINE		
GAS MANHOLE		
GAS VALVE		
INLET		
LIGHT POLE		
OVERHEAD WIRES		
POWER POLE		
R.O.W LINE		
R.O.W MARKER		
SANITARY FORCEMAIN LINE		
SANITARY SEWER LINE		
SANITARY SEWER MANHOLE		
SIGN		
SPOT ELEVATION		
STORM SEWER LINE		
STORM SEWER MANHOLE		
TELEPHONE LINE		
TELEPHONE MANHOLE		
TELEPHONE BOX/PEDESTAL		
TREE--CONIFEROUS (SIZE/TAG#)		
TREE--DECIDUOUS (SIZE/TAG#)		
VALVE BOX		
VALVE VAULT		
WATER VALVE		
WATERMAIN LINE		



LOCATION MAP
(Not to Scale)

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATION
OWEN ST, OWEN COURT
PROSPECT HEIGHTS, ILLINOIS

PERMITTING/COORDINATING AGENCIES:

CITY OF PROSPECT HEIGHTS	TEL: 847-398-6070
METROPOLITAN WATER RECLAMATION DISTRICT	TEL: 630-573-6464
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY	TEL: 217-732-1724
US ARMY CORE OF ENGINEERS	TEL: 202-761-0011
NORTH COOK COUNTY SOIL AND WATER CONSERVATION DISTRICT	TEL: 224-875-7580

ENGINEERED BY:

GEWALT HAMILTON ASSOCIATES, INC.
625 FOREST EDGE DRIVE
VERNON HILLS, ILLINOIS 60061
TELEPHONE: 847-478-9700

TOPOGRAPHIC SURVEY BY:

GEWALT HAMILTON ASSOCIATES, INC.
625 FOREST EDGE DRIVE
VERNON HILLS, ILLINOIS 60061
TELEPHONE: 847-478-9700

PROFESSIONAL DESIGN FIRM LICENSE:

GEWALT HAMILTON ASSOCIATES, INC.
DESIGN FIRM - LAND SURVEYOR/PROF ENG
LICENSE NUMBER: 184.000922-0010
EXPIRES: 6/30/2025

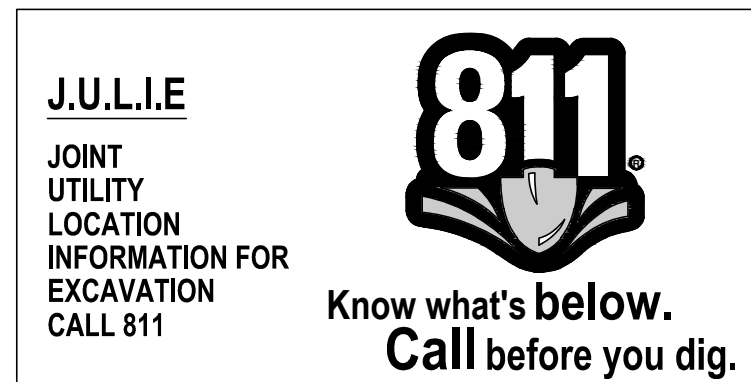
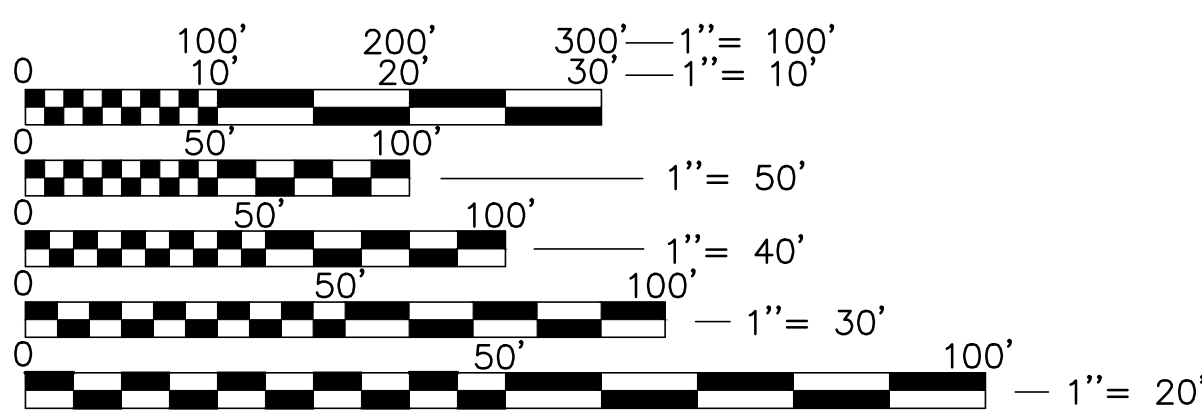
UTILITY AGENCIES:

ASTOUND BROADBAND	TEL: 630-803-9660
AT&T	TEL: 630-573-6464
CITY OF PROSPECT HEIGHTS	TEL: 847-398-6070
COMCAST	TEL: 224-229-5862
COMED	TEL: 630-576-7094
METROPOLITAN WATER RECLAMATION DISTRICT	TEL: 312-751-3236
NICOR	TEL: 630-388-2362
USIC LOCATING SERVICES	TEL: 317-575-7800

EXISTING UTILITIES: WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATEVER IN RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. HE SHALL ALSO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES, DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THEM.

CONTRACTOR IS RESPONSIBLE FOR CONTACTING J.U.L.I.E. AT 1-800-892-0123 AND MUST ACQUIRE A DIG NUMBER A MINIMUM OF 72 HOURS PRIOR TO ANY WORK BEING DONE.

ELEVATIONS SHOWN HEREON ARE OBTAINED VIA GPS USING TRIMBLE VRS@NOW™ (NO PUBLISHED MONUMENT VERIFIED) DATUM: NAVD83



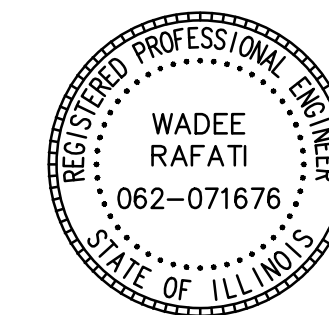
CONTROL POINTS:

Point #	Northing	Eastings	Elevation	Description
1	1980209.09	1093387.81	651.57	CP1-NAIL
2	1980215.89	1092491.32	659.27	CP2-XRIM
4	1980202.24	1093980.36	660.37	CP4-MAG
5	1980172.64	1093810.34	660.18	CP5-X-SRIM
6	1980078.16	1093159.17	651.47	CP6-XTC
7	1980183.50	1092938.43	649.24	CP7-NAIL
Point #	Northing	Eastings	Elevation	Description
1	1982908.14	1090125.59	661.77	CP1-SXTC
2	1983339.37	1089814.82	659.32	CP2-SIR
3	1982900.90	1089769.72	664.71	CP3-SXTC
Point #	Northing	Eastings	Elevation	Description
101	1981099.50	1093824.91	651.32	CP1-SMN
102	1980636.49	1093883.02	649.06	CP2-SMN

BENCHMARK:

ELEVATIONS SHOWN HEREON ARE OBTAINED VIA GPS USING TRIMBLE VRS@NOW™ (NO PUBLISHED MONUMENT VERIFIED) DATUM: NAVD83

NOTE: CONSTRUCTION MEANS, METHODS AND JOB SITE SAFETY IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR



SIGNED: P.E.
WADEE RAFATI
DATE: FEBRUARY 06, 2025
ILLINOIS LICENSE NO.: 062-071676
EXPIRATION DATE: NOVEMBER 30, 2025

ISSUED FOR BID

GHA GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive ■ Vernon Hills, IL. 60061
TEL 847.478.9700 ■ FAX 847.478.9701

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TITLE SHEET
OWEN COURT FLOOD CONTROL
CITY OF PROSPECT HEIGHTS, ILLINOIS
PROSPECT HEIGHTS, ILLINOIS

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 4755.077-DT2-Owen.dwg	SHEET NUMBER: 1
DRAWN BY: WR DATE: 02.06.25	GHA PROJECT # 4755.077
CHECKED BY: DJS DATE: 02.06.25	SCALE: N.A.
	OF 33 SHEETS

INDEX OF SHEETS

1. TITLE SHEET
2. SHEET OF INDEX AND SUMMARY OF QUANTITIES
3. GENERAL NOTES
4. TYPICAL SECTIONS
5. MWRD GENERAL NOTES
6. EXISTING CONDITIONS/DEMOLITION PLAN - OWEN COURT ROAD STA: 300+00 TO 307+50
7. EXISTING CONDITIONS/DEMOLITION PLAN - COMPENSATORY STORAGE AREA
8. SOIL EROSION AND SEDIMENT CONTROL PLAN - OWEN COURT ROAD STA: 300+00 TO 307+50
9. SOIL EROSION AND SEDIMENT CONTROL PLAN - COMPENSATORY STORAGE AREA
10. RESTORATION PLANS
11. RESTORATION PLANS
12. PLAN AND PROFILE - OWEN COURT STA: 300+00 TO 304+00
13. PLAN AND PROFILE - OWEN COURT STA: 304+00 TO 307+00
14. SITE PLAN - COMPENSATORY STORAGE AREA 1
15. OWEN COURT PAVEMENT MARKING PLAN
- 16.-21. CROSS SECTIONS - OWEN COURT
- 22.-28. CROSS SECTIONS - COMPENSATORY STORAGE
- 29.-33. DETAILS

DISTRICT ONE STANDARD DETAILS

- BD-03 OUTLET FOR CONCRETE CURB AND GUTTER
- BD-32 BUTT JOINTS AND HMA TAPER DETAILS
- BD-34 DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL
- BM-06 STEEL PLATE BEAM GUARDRAIL, SPECIAL
- BM-07 GUARDRAIL SUPPORT AND END ANCHORAGE
- BM-15 SCHEDULE OF LANDSCAPE ITEMS
- BM-20 PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE
- TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
- TC-13 TYPICAL PAVEMENT MARKINGS

STATE STANDARDS:

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006-00 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 406201-01 MAILBOX TURNOUT
- 442201-03 CLASS C AND D PATCHES
- 482001-02 HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
- 542001-06 CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375 MM) THROUGH 84" (2100 MM) DIAMETER
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 542311-07 TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTION
- 602702-02 MANHOLE STEPS
- 604001-05 FRAMES AND LIDS - TYPE 1
- 606201-04 TYPE B GUTTER (INLET, OUTLET, AND ENTRANCE)
- 602601-06 PRECAST REINFORCED CONCRETE FLAT SLAB TOP CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 630001-04 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631006-08 TRAFFIC BARRIER TERMINAL, TYPE 1B
- 630106-02 LONG-SPAN GUARDRAIL OVER CULVERT
- 631011-10 TRAFFIC BARRIER TERMINAL, TYPE 2
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 720011-01 METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 731001-01 BASE FOR TELESCOPING STEEL SIGN SUPPORT
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
- 80439-39 VEHICLE & EQUIPMENT WARNING LIGHTS
- 80427-42 WORK ZONE TRAFFIC CONTROL DEVICES
- BLR 24-2 MAILBOX TURNOUT FOR LOCAL ROADS
- BLR 26-3 STEEL PLATE BEAM GUARDRAIL 29 IN. (731 MM) HEIGHT
- LRS 4 FLAGGERS IN WORK ZONES

SUMMARY OF QUANTITIES

SP	ITEM NO	DESCRIPTION	QUANTITY	UNIT
	20100110	Tree Removal (6 to 15 Units Diameter)	80	UNIT
	20100210	Tree Removal (Over 15 Units Diameter)	100	UNIT
	20101700	Supplemental Watering	40	UNIT
	20200100	Earth Excavation	6,300	CY
	20201200	Removal and Disposal of Unsuitable Material	100	CY
	20400800	Furnished Excavation	340	CY
*	20700220	Porous Granular Embankment (Special)	660	CY
*	20700220	Porous Granular Embankment, Clean CA1 Special	200	CY
	20800150	Trench Backfill	30	CY
	21001000	Geotechnical Fabric for Ground Stabilization	1,400	SY
	21101615	Topsail Furnish and Place, 4"	1,650	SY
	21101625	Topsail Furnish and Place, 6"	9,300	SY
	25000100	Seeding, Class 1	0	AC
	25000210	Seeding, Class 2A	0	AC
	25000400	Nitrogen Fertilizer Nutrient	50	LB
	25000600	Potassium Fertilizer Nutrient	50	LB
	25100630	Erosion Control Blanket	10,950	SY
	28000400	Perimeter Erosion Barrier	300	FT
	28000500	Inlet and Pipe Protection	5	EA
*	28100125	Stone Riprap, Class B3 (Special)	25	SY
	35101500	Aggregate Base Course, Type B	240	CY
	35800100	Preparation of Base	1,420	SY
	35800200	Aggregate Base Repair	100	TN
	40600982	Hot-Mix Asphalt Surface Removal - Butt Joint	1	EA
	40603080	Hot-Mix Asphalt Binder Course, IL-19.0, N50	250	TN
	40604060	Hot-Mix Asphalt Surface Course, Mix 'D', IL-9.5, N50	500	TN
	40700100	Bituminous Materials (Tack Coat)	900	LB
	42300200	Portland Cement Concrete Driveway Pavement, 6"	60	SY
	44000157	Hot-Mix Asphalt Surface Removal, 2"	2,800	SY
*	44000200	Driveway Pavement Removal (Special)	100	SY
*	48101500	Aggregate Shoulders, Type B 6"	250	SY
*	50201101	Cofferdam - Owen Court (Special)	1	LS
	55100500	Storm Sewer Removal 12"	60	FT
	55100700	Storm Sewer Removal 15"	30	FT
	63000017	Steel Plate Beam Guardrail, Type B, 6 Foot Posts	120	FT
	63100045	Traffic Barrier Terminal, Type 2	2	EA
	67100100	Mobilization	1	LS
	78000650	Thermoplastic Pavement Marking - Line 24"	10	FT
*	LR400899	Full Depth Reclamation, 10.0"	1,300	SY
*	X010029	Exploratory Excavation (Special)	2	EA
*	X2010510	Clearing and Grubbing	1	LS
*	X2140100	Grading and Shaping Ditches (Special)	400	FT
*	X4021000	Temporary Access (Private Entrance)	3	EA
*	X4810200	Aggregate Shoulder Removal	40	SY
*	X7010216	Traffic Control and Protection, Owen Court (Special)	1	LS
*	X7010216	Traffic Control and Protection, Compensatory Storage Area (Special)	1	LS
*	XX005569	Mailbox Removal and Reinstallation	6	EA
*	Z0004510	Hot-Mix Asphalt Driveway Pavement, 3"	30	SY
*	Z0023201	Sediment Control, Silt Curtain (Special)	400	FT
*	Z0013796	Stabilized Construction Entrance (Special)	1	LS
*	-	Remove and Relocate Sign Panel and Pole Assembly	5	EA
*	-	Wetland Plant Seed Mix, Sloped Prairie Seed Mix (Special)	6,040	SY
*	-	Wetland Plant Seed Mix, Creekside Meadow Seed Mix (Special)	2,500	SY
*	A2002020	Tree, Aesculus Glabra (Ohio Buckeye), 2-1/2" Caliper, Balled & Burlapped	6	EA
*	A2002816	Tree, Catalpa Speciosa (Northern Catalpa), 2-1/2" Caliper, Balled and Burlapped	2	EA
*	A2002924	Tree, Celtis Occidentalis (Common Hackberry), 3" Caliper, Balled & Burlapped	3	EA
*	-	CCDD Non Compliant Material Disposal	50	CY
*	-	Coir Log (Special)	700	FT

Willow Road Flood Control Project

Fill Summary

	0-10 YR (CY)	10-100 YR (CY)
Willow Road	1267	586
Hillcrest Drive	132	0
Hillside Drive	114	30
Owen Court	1131	0
Total	2643	616

WETLAND IMPACT

	TEMPORARY IMPACT		PERMANENT IMPACT	
	SF	AC	SF	AC
Willow Road	4000	0.092	10070	0.231
Owen Court	2680	0.062	2960	0.068
Compensatory Storage Area	0	0.000	0	0.000
TOTAL	6680	0.153	13030	0.299

Compensatory Storage Volume Summary

0-10 YR (CY)	3228
10-100 YR (CY)	535



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INDEX OF SHEETS AND SUMMARY OF QUANTITIES

**OWEN COURT FLOOD CONTROL
CITY OF PROSPECT HEIGHTS, ILLINOIS
PROSPECT HEIGHTS, ILLINOIS**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE 4755.077-DT2-Owen.dwg	
DRAWN BY: WR	GHA PROJECT #
DATE: 02.06.25	4755.077
CHECKED BY: DJS	SCALE:
DATE: 02.06.25	N.A.

SHEET NUMBER: 2
OF 33 SHEETS

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE PERFORMED ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" LATEST EDITION, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION, THE ILLINOIS PLUMBING CODE, THE DETAILS IN THESE PLANS, THE CONTRACT DOCUMENTS, ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, THE IEPA AND ORDINANCES OF AUTHORITIES HAVING JURISDICTION AND ALL ADDENDA THERETO.
- EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE PRIOR TO ORDERING MATERIALS. IN ADDITION, THE CONTRACTOR MUST VERIFY THE LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS/HER OWN RISK AND EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY COSTS INCURRED..
- ALL PAVEMENT DIMENSIONS ARE SHOWN TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE THE MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
- IF DURING CONSTRUCTION THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWERS OR UNDERDRAINS OTHER THAN THOSE SHOWN ON THE PLANS, HE/SHE SHALL INFORM THE ENGINEER, WHO SHALL DIRECT THE WORK NECESSARY TO MAINTAIN OR REPLACE THE FACILITIES IN SERVICE AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION IF MAINTAINED. EXISTING FACILITIES TO BE MAINTAINED THAT ARE DAMAGED BECAUSE OF NON-COMPLIANCE WITH THIS PROVISION SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY TOILET FACILITIES AND HAND SANITIZING STATIONS FOR THE USE OF ALL THE CONTRACTORS PERSONNEL EMPLOYED ON THE WORK SITE. THE FACILITIES SHALL BE MAINTAINED IN PROPER SANITARY CONDITION THROUGHOUT THE PROJECT. THE LOCATION OF THE TEMPORARY FACILITIES SHALL BE APPROVED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE NPDES PERMIT AND SWPPP MANUAL. IF NO NPDES PERMIT OR SWPPP MANUAL IS NEEDED FOR THE PROJECT THE CONTRACTOR SHALL PERFORM SOIL EROSION SEDIMENT CONTROL BEST PRACTICES OR AS DIRECTED BY THE OWNER TO PREVENT ILLICIT DISCHARGES FROM THE SITE.

UTILITY NOTES

- UNDERGROUND WORK SHALL INCLUDE TRENCHING, DISPOSAL OF EXCESS MATERIAL, DEWATERING, INSTALLATION OF PIPE, CASTINGS, STRUCTURES, BACKFILLING OF TRENCHES AND COMPACTION, AND TESTING AS SHOWN ON THE CONSTRUCTION PLANS. FITTINGS AND ACCESSORIES NECESSARY TO COMPLETE THE WORK MAY NOT BE SPECIFIED BUT SHALL BE CONSIDERED AS INCLUDED TO THE COST OF THE CONTRACT. ALL SEWER SHALL BE INSTALLED USING A LASER AND BEGIN AT THE DOWNSTREAM END.
- MACHINE CORE ALL CONNECTIONS TO EXISTING STRUCTURES USING A CORE DRILL. HAMMERING OR SAWING OF STRUCTURES WILL NOT BE ALLOWED.
- ALL CONNECTIONS TO EXISTING OR DISSIMILAR STORM/SANITARY LINES SHALL BE DONE WITH STAINLESS STEEL NON-SHEAR COUPLINGS.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO INITIATING WORK. ANY DISCREPANCIES FOUND BETWEEN THE INFORMATION NOTED ON THE PLANS AND ACTUAL FIELD CONDITIONS, OR ANY CONFLICTS WITH PROPOSED IMPROVEMENTS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL NOT PROCEED ANY FURTHER UNTIL GIVEN WRITTEN CLARIFICATION ON HOW TO PROCEED.
- INSTALL STORM CULVERTS AS SHOWN. REFER TO STORM SEWER REQUIREMENT TABLE ON GENERAL NOTES SHEET FOR PIPE MATERIAL, JOINT, FRAME AND GRATE, STONE BEDDING AND TESTING REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE THE FOLLOWING AS-CONSTRUCTED DOCUMENTS AT THE CONCLUSION OF THE PROJECT:
STORM SEWER
 - AS-CONSTRUCTED LOCATIONS OF STRUCTURES, SERVICE CONNECTIONS, CLEANOUTS.
 - RIM AND INVERT ELEVATIONS.

PROJECT SPECIFIC NOTES

- THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS THAT INCLUDE; CRITICAL SPOT GRADES SUCH AS OVERFLOW ELEVATIONS, SPOT ELEVATIONS NEAR ENTRANCES, SPOT ELEVATIONS ALONG THE DESIGNATED ADA ROUTE, SUFFICIENT INFORMATION SUCH THAT THE ENGINEER MAY VERIFY RIM AND INVERT ELEVATIONS OF ALL SEWERS, RIM AND TOP OF PIPE ELEVATIONS OF ALL FORCE MAIN, LOCATIONS OF ALL INSTALLED UNDERGROUND UTILITIES, LOCATIONS OF ALL BURIED BENDS AND FITTINGS AND ALL FIELD CHANGES FROM THE APPROVED DRAWINGS.
- ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF 12 MONTHS FROM THE DATE OF INITIAL ACCEPTANCE OF THE WORK BY THE OWNER AGAINST ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE.
- ALL CONSTRUCTION WILL BE INSPECTED BY THE OWNER'S REPRESENTATIVE. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MUNICIPALITY AS WELL AS THE STANDARD SPECIFICATIONS.
- THE SEWER CONTRACTOR SHALL BE REQUIRED TO BE LICENSED AND BONDED WITH THE CITY OF PROSPECT HEIGHTS BEFORE WORK IS STARTED.
- CONTRACTOR SHALL NOTIFY THE CITY OF PROSPECT HEIGHTS (847-398-6070) AND THE PROJECT ENGINEER (847-478-9700) AT LEAST 72 HOURS PRIOR TO BEGINNING ANY WORK ON THIS PROJECT.
- THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO, THE MUNICIPALITY AND THEIR AGENTS, FROM ALL LIABILITY INVOLVED IN CONSTRUCTION, INSTALLATION AND TESTING OF THE WORK ON THIS PROJECT.
- THE CONTRACTOR MUST CARRY INSURANCE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. ALL OFFICIALS, EMPLOYEES AND AGENTS OF GEWALT HAMILTON ASSOCIATES, THE CITY OF PROSPECT HEIGHTS, MWRD, AND CCDOH MUST BE LISTED AS ADDITIONAL INSURED.
- ALL ELEVATIONS ARE ON NAVD 88 VERTICAL DATUM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL TO ADEQUATELY INFORM AND PROTECT THE PUBLIC OF ALL CONSTRUCTION OPERATIONS.
- CRUSHED CONCRETE IS NOT PERMITTED FOR USE ON THE PROJECT UNLESS PRIOR WRITTEN NOTICE IS GIVEN BY THE ENGINEER.
- ALL STONE USED ON THE PROJECT SHALL BE CRUSHED UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL CONCRETE SHALL HAVE A LIGHT BROOM FINISH APPLIED WITHIN 1 HOUR OF FINAL STRIKING.
- ALL CONCRETE SHALL CONSIST OF PORTLAND CEMENT CONCRETE MEETING REQUIREMENTS OF SECTION 1020. ALL SIDEWALKS, CURBS AND POST FOUNDATIONS SHALL BE CLASS SI 3,500 PSI @ 14 DAYS. ALL PAVEMENT SHALL BE CLASS PV 3,500 PSI @ 14 DAYS. WHERE NOTED ON THE PLANS HIGH EARLY CONCRETE SHALL BE CLASS PV TYPE III 3,500 PSI CONCRETE @ 3 DAYS. ALL CONCRETE REQUIRING A CURE TIME FASTER THAN 3 DAYS SHALL HAVE A MIX DESIGN SUBMITTED TO THE ENGINEER FOR APPROVAL. WHEN REQUIRED BY THE MUNICIPALITY, FLY ASH SHALL NOT BE USED IN THE MIX DESIGN. SLUMP SHALL BE 2-4" AND AIR CONTENT SHALL BE BETWEEN 5-8% UNLESS MODIFIED BY ARTICLE 1020.04.
- ALL CONCRETE SHALL HAVE A WHITE, IDOT TYPE 3 CURING COMPOUND APPLIED TO THE SURFACE WITHIN 1 HOUR OF FINAL STRIKING AT THE MANUFACTURER RECOMMENDED APPLICATION RATE.
- 3/4" THICK PRE-MOLDED FIBER EXPANSION JOINTS WITH 2 , 3/4" x 18" PLAIN ROUND, STEEL DOWEL BARS SHALL BE INSTALLED IN ALL CURBS AT (45') FORTY-FIVE FOOT INTERVALS AND AT ALL P.C.'S, P.T.'S AND CURB RETURNS. ALTERNATE ENDS OF THE DOWEL BARS SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES. ALL EXPANSION JOINTS MUST BE FREE OF CONCRETE FOR FULL DEPTH. CONTRACTION JOINTS SHALL BE TOOLED AT 15' INTERVALS.
- UNLESS OTHERWISE NOTED ON THE PLANS WHENEVER NEW CONCRETE ABUTS EXISTING/ OR NEW CONCRETE SET A 1/2" THICK PRE-MOLDED FIBER EXPANSION JOINT AND DOWEL WITH SMOOTH 12" #4 BARS @ 24" O.C. THIS INCLUDES CONCRETE POURED ADJACENT TO EXISTING SIDEWALKS, CURBS AND BUILDING. THE DOWEL BARS SHOULD BE 4" INTO EXISTING CONCRETE WITH 8" EXTENDING INTO NEW CONCRETE.
- ALL DOWEL BARS AND TIE BARS SHALL BE EPOXY COATED UNLESS NOTED OTHERWISE.
- ALL PAVEMENT AND BUILDING SUBGRADE SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL SUBGRADE IN LAWN AREAS SHALL BE COMPACTED TO 90% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL TOPSOIL AND SUBGRADE 6" BELOW TOPSOIL SHALL BE COMPACTED TO 80% STANDARD PROCTOR DENSITY (ASTM D-698)
- SPREAD SCREENED TOPSOIL ON ALL DISTURBED AREAS AND PROPOSED GREEN AREAS. TOPSOIL SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 1081.05.
- ALL SIGNAGE SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ILLINOIS SUPPLEMENT OR ILLINOIS DEPARTMENT OF TRANSPORTATION DETAILS.
- ALL SIGNAGE NOT ATTACHED TO SIGNAL OR LIGHTING POLES SHALL BE MOUNTED ON TELESCOPING STEEL SIGN SUPPORTS WITH BREAKAWAY BASES IN ACCORDANCE WITH SECTION 728.
- ALL SIGNAGE SHALL HAVE TYPE ZZ SHEETING.
- ALL PAVEMENT MARKINGS SHALL BE MODIFIED URETHANE PAVEMENT MARKING MATERIALS IN ACCORDANCE WITH IDOT DISTRICT 1 STANDARDS.

EXISTING CONDITIONS AND DEMOLITION NOTES

- PRIOR TO STARTING ANY CONSTRUCTION, PROVIDE SOIL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLANS AND AS REQUIRED PER IEPA NPDES GUIDELINES. REFER TO NOTES AND DETAILS THROUGHOUT THE ENTIRE PLAN SET.
- PRIOR TO STARTING ANY EXCAVATION WORK, PROVIDE TREE PROTECTION, PRESERVATION, CLEARING AND GRUBBING, AND TREE REMOVALS AS SHOWN ON THE PLANS AND NOTES THROUGHOUT THE ENTIRE PLAN SET.
- CONTRACTOR SHALL REFER TO GEOTECHNICAL INVESTIGATION FOR THE MWRDGC FLOOD CONTROL PROJECT WILLOW ROAD, HILLCREST DRIVE, AND OWEN COURT ROADWAY IMPROVEMENTS AT MCDONALD CREEK TRIBUTARY A PROSPECT HEIGHTS, ILLINOIS
- THE CONTRACTOR SHALL BE RESPONSIBLE PROTECTING THE PUBLIC FROM ANY CONSTRUCTION RELATED HAZARDS. AT A MINIMUM, ALL EXCAVATION, DEMOLITION AREAS AND OTHER AREAS POTENTIALLY HAZARDOUS TO PEDESTRIANS AND VEHICLES MUST BE PROTECTED.
- TEMPORARY STONE OR ASPHALT PATHWAYS SHALL BE PROVIDED AS OUTLINED IN THE PLANS OR AS REQUIRED BY THE ENGINEER THROUGHOUT THE COURSE OF CONSTRUCTION TO FACILITATE SAFE VEHICULAR MOVEMENT. THE LONGITUDINAL SLOPE OF SUCH PATHS SHALL NOT EXCEED 5% AND CROSS SLOPES SHALL NOT EXCEED 2%. PROVIDE 6" CA-6 BASE AND 2" SURFACE ASPHALT.
- THE EXISTING FACILITIES WILL REMAIN OPEN TO LOCAL TRAFFIC AND ACTIVELY USED. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO ENSURE CONTINUOUS UTILITY SERVICES DURING DEMOLITION AND TRANSITIONING OF SERVICES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION AND DISPOSAL OF ALL EXISTING IMPROVEMENTS ONSITE NECESSARY TO COMPLETE THE JOB. THESE IMPROVEMENTS INCLUDE, BUT ARE NOT LIMITED TO, EXISTING PAVEMENTS, CURBS, SIDEWALKS, UTILITIES, LIGHTING, LIGHT BASES, MANHOLES, FENCES, FOUNDATIONS, AND OTHER STRUCTURES WITHIN THE WORK AREA. EXCAVATE AND GRADE TO PROPOSED PAVEMENT AND BUILDING SUBBASE GRADES. (REFER TO FOUNDATION PLANS FOR PROPOSED BUILDING SUBBASE GRADES.) THESE ITEMS SHALL BE COMPLETELY REMOVED AND LEGALLY DISPOSED OF OFFSITE.
- REMOVE OR ABANDON EXISTING UTILITIES AS SHOWN. UTILITIES THAT ARE REMOVED, UNLESS OTHERWISE NOTED, SHALL BE BACKFILLED WITH CA-6 CRUSHED STONE IN LIFTS OF 8" OR LESS AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY. UTILITIES TO BE ABANDONED SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF 2 FEET LONG CONTROLLED LOW-STRENGTH MATERIAL (CLSM). MANHOLE STRUCTURES TO BE ABANDONED SHALL HAVE THE TOP SECTION REMOVED, SEWERS BULKHEADED WITH CONCRETE AND BACKFILLED WITH CA-6 CRUSHED STONE.

GRADING NOTES

- PRIOR TO STARTING ANY CONSTRUCTION, PROVIDE SOIL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLANS. REFER TO NOTES AND DETAILS THROUGHOUT THE ENTIRE PLAN SET.
- PRIOR TO STARTING ANY EXCAVATION WORK, PROVIDE TREE PROTECTION, PRESERVATION, AND TREE REMOVALS AS SHOWN ON THE PLANS AND NOTES THROUGHOUT THE ENTIRE PLAN SET.
- CONTRACTOR SHALL REFER TO GEOTECHNICAL INVESTIGATION FOR THE MWRDGC FLOOD CONTROL PROJECT WILLOW ROAD, HILLCREST DRIVE, AND OWEN COURT ROADWAY IMPROVEMENTS AT MCDONALD CREEK TRIBUTARY A PROSPECT HEIGHTS, ILLINOIS.
- THE CONTRACTOR SHALL IMPORT OR EXPORT SOIL AS NECESSARY TO CONSTRUCT THE SITE TO SPECIFIED PLAN GRADES. SUCH WORK IS CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR SUCH WORK. MINOR ADJUSTMENTS TO GRADES CAN BE ACCOMMODATED WITH PROJECT ENGINEER APPROVAL.
- CONTRACTOR SHALL PROVIDE THE FOLLOWING AS-CONSTRUCTED DOCUMENTS AT THE CONCLUSION OF THE PROJECT:
 - COMPENSATORY STORAGE SITE
 - EDGE OF WATER
 - AS-CONSTRUCTED CONTOURS AND VOLUMES.
 - PARKWAY, LAWN OR OPEN SPACE AREAS
 - SPOT ELEVATIONS AT A MAXIMUM 50 FOOT GRID.
 - SPOT ELEVATION TOP AND BOTTOM OF BERMS OR SWALES
 - SPOT ELEVATIONS AND RIDGE / HIGH AND LOW POINTS.
- CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TO ALL INLETS AND CATCHBASINS. AREAS OF SURFACE PONDING SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ALL LAWN AREAS DISTURBED AS A RESULT OF CONSTRUCTION SHALL BE RESTORED TO PRECONSTRUCTION LAWN CONDITION FOLLOWING RESTORATION REQUIREMENTS.

EROSION CONTROL NOTES

- AT A MINIMUM, THE CONTRACTOR SHALL INSTALL AND MAINTAIN SOIL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE LATEST EDITION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S URBAN MANUAL.
- DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS.
- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY ROAD OF MATERIAL THAT IS FROM THE PROJECT. THIS WILL BE DONE AT THE CLOSE OF EACH DAY OF WORK OR MORE FREQUENTLY AS FIELD CONDITIONS WARRANT.
- ALL STORM WATER STRUCTURES WITH OPEN LIDS SHALL BE PROTECTED WITH INLET FILTER BASKETS. DURING CONSTRUCTION, SEDIMENT SHALL BE REMOVED AS NEEDED, AND BASKETS SHALL BE REPAIRED OR REPLACED AS NEEDED.
- AFTER ACHIEVING PERMANENT VEGETATION, ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE REMOVED, AND THE DRAINAGE STRUCTURES SHALL BE CLEANED.
- THE CONTRACTOR SHALL KEEP A WATER SOURCE AT THEIR DISPOSAL FOR THE PURPOSE OF WATERING DOWN SOIL ON SITE AND ADJACENT ROADWAYS WHICH OTHERWISE MAY BECOME AIRBORNE.
- THE CONTRACTOR SHALL STABILIZE ALL IDLE, DISTURBED AREAS WITHIN SEVEN DAYS OF CESSATION OF THE CONSTRUCTION ACTIVITIES IN THAT AREA.
- THE CONTRACTOR IS EXPRESSLY ADVISED NOT TO DISTURB AREAS WHICH ARE OUTSIDE THOSE NECESSARY TO PROVIDE THE IMPROVEMENTS AS CALLED FOR IN THE PLANS.
- ALL EROSION CONTROL MEASURES SHALL BE REPLACED IF DAMAGED OR MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
- ALL BYPASS CHANNELS, MUST BE CONSTRUCTED SO THAT CHANNEL FLOWS WILL NOT CAUSE EROSION OF EXCAVATED MATERIAL. IN EACH CASE A SEDIMENTATION BASIN MUST BE CONSTRUCTED SO AS TO ALLOW THE SEDIMENT TO SETTLE PRIOR TO THE DOWNSTREAM OUTLET OF THE PROJECT AREA.
- PUMPS MAY BE USED AS BYPASS DEVICES, BUT IN NO CASE WILL THE WATER BE DIVERTED OUTSIDE THE PROJECT LIMIT. ALL PUMPED WATER SHALL BE FREE OF SILT. PUMPING MAY REQUIRE THE USE OF A SEDIMENT CONTAINMENT FILTER BAG AND OTHER SUPPLEMENTAL SEDIMENT CONTROL MEASURES.
- CONCRETE WASHOUT FACILITIES SHALL BE MADE AVAILABLE IF NEEDED, AND PROPERLY MAINTAINED THROUGHOUT THE PROJECT.
- PROPERLY MANAGE ALL MATERIAL STORAGE AREAS, PORTABLE TOILETS, AND EQUIPMENT FUELING, CLEANING, AND MAINTENANCE AREAS TO ENSURE THESE AREAS ARE FREE OF SPILLS, LEAKS, OR OTHER POTENTIAL POLLUTANTS.
- WASTE, CONSTRUCTION DEBRIS, AND BUILDING MATERIALS SHALL BE COLLECTED AND PLACED IN APPROVED RECEPTACLES.

GEOTEXTILE FABRIC TABLE

WOVEN	STYLE DESCRIPTION	STANDARDS/REQUIREMENTS
HEAVY DUTY	SUBGRADE/SUBBASE SEPARATION	6 oz
		MINIMUM GRAD TENSILE ASTM D4632 = 315 LBS
		MINIMUM TRAPEZOID TEAR ASTM D4533 = 113 LBS
		MINIMUM FLOW RATE ASTM D4491 = 4 GAL/MIN/SQFT

UTILITY TABLE

STORM SEWERS	MODEL/SPECIFICATION	STANDARDS/REQUIREMENTS	
	RCP CL HV	PIPE ASTM C-76	JOINT ASTM C-443
FRAME & GRATE/LID	PAVED AREAS	OPEN LID: IDOT TYPE 1	CLOSED LID: IDOT TYPE 1
	CURB STRUCTURES	OPEN LID: IDOT TYPE 1	CLOSED LID: N/A
	GRASS AREAS	OPEN LID: IDOT TYPE 8	CLOSED LID: IDOT TYPE 8
ADJUSTMENT RINGS	CONCRETE	4" MINIMUM, 12" MAXIMUM	
PIPE BEDDING MATERIAL	CA-11/CA-13		
TRENCH BACKFILL	CA-6		

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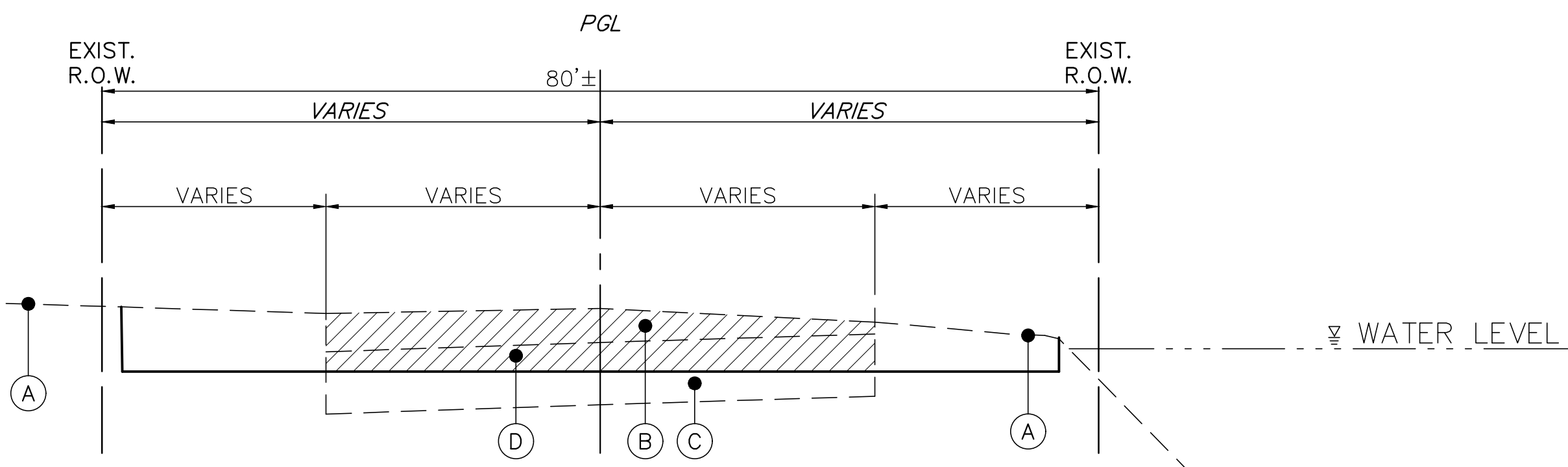
GENERAL NOTES
OWEN COURT FLOOD CONTROL
CITY OF PROSPECT HEIGHTS, ILLINOIS
PROSPECT HEIGHTS, ILLINOIS

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

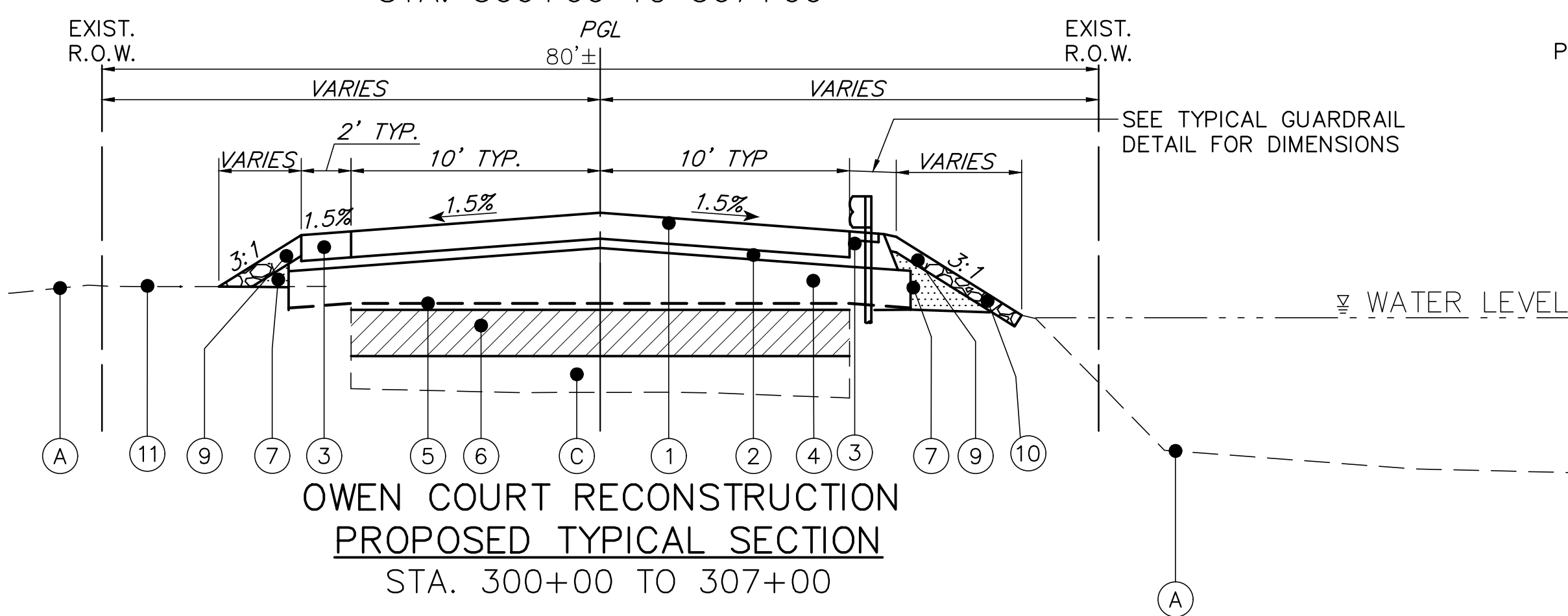
FILE: 4755.077-DT2-Owen.dwg	SHEET NUMBER:
DRAWN BY: WR	GHA PROJECT #
DATE: 02.06.25	4755.077
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DATE: 02.06.25	N.A.
	OF 33 SHEETS

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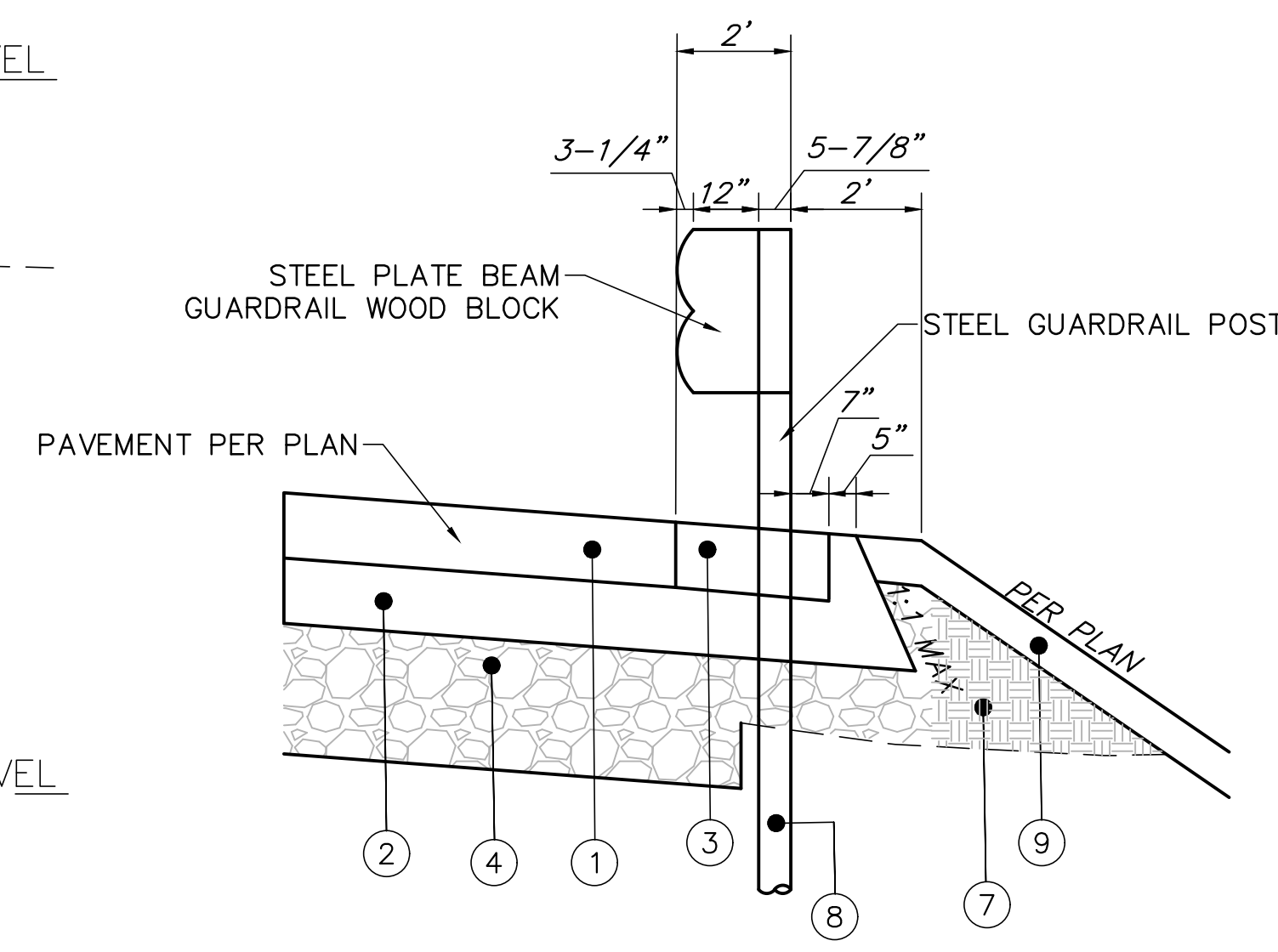
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OWEN COURT RECONSTRUCTION
EXISTING TYPICAL SECTION
STA. 300+00 TO 307+00



OWEN COURT RECONSTRUCTION
PROPOSED TYPICAL SECTION
STA. 300+00 TO 307+00



TYPICAL GUARDRAIL DETAIL

TYPICAL CROSS SECTION LEGEND

- (A) EXISTING GROUND
- (B) EXISTING HMA PAVEMENT, OWEN COURT 8"±
- (C) EXISTING SUB BASE, OWEN COURT 18"±
- (D) FULL DEPTH PULVERIZATION 10"
- (1) OWEN COURT HMA PAVEMENT (2" SURFACE, 3" BINDER)
- (2) CA-6 CAP (6")
- (3) GRAVEL SHOULDER (6")
- (4) PROPOSED FILL PGE, VARIABLE DEPTH
- (5) GEOTEXTILE FABRIC
- (6) PULVERIZATION (SPREAD EVENLY)
- (7) EMBANKMENT FILL (FURNISHED EXCAVATION)
- (8) GUARDRAIL (LOCATION PER PLAN), SEE DETAIL FOR ADDITIONAL INFORMATION
- (9) TOPSOIL FURNISH AND PLACE, VARIES SEEDING, CLASS PER PLAN EROSION CONTROL BLANKET
- (10) CA-1 STONE (SEE TYPICAL TOE OF SLOPE DETAIL ON SHEET 31)
- (11) DITCH AS NEEDED
- (R) ITEM TO BE REMOVED

HOT-MIX ASPHALT MIXTURE TABLE	AIR VOIDS @ Ndes
OWEN COURT	
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 (2")	4% @ 50 GYRATION
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (3")	4% @ 50 GYRATION
RESURFACING (OWEN COURT)	
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 (2")	4% @ 50 GYRATION
DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 (3")	4% @ 50 GYRATION

TYPICAL ROAD SECTION NOTES:

1. SUBGRADE (POROUS GRANULAR EMBANKMENT AND CAPPING STONE) IMPROVEMENTS SHALL EXTEND TO ONE (1) FOOT BEYOND THE EDGE OF NEW PROPOSED SURFACE (BEYOND WIDENING)
2. GRAVEL PAVEMENT SHALL EXTEND TO TWO (2) FEET BEYOND GUARDRAIL ON OWEN COURT
3. GEOTEXTILE FABRIC SHALL BE INSTALLED AFTER SURCHARGE FILL PERIOD.
4. ALL ROAD RECONSTRUCTION AREAS NEEDS TO BE PROOF-ROLLED.

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ.YD./IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

NOTE:
POROUS GRANULAR EMBANKMENT (CU YD) HAS BEEN PROVIDED FOR USE AT LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGE WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OT DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

ALL POROUS GRANULAR EMBANKMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

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TYPICAL CROSS SECTIONS
OWEN COURT FLOOD CONTROL
CITY OF PROSPECT HEIGHTS, ILLINOIS
PROSPECT HEIGHTS, ILLINOIS

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 4755.077-DT2-Owen.dwg	SHEET NUMBER:
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	OF 33 SHEETS

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A. REFERENCED SPECIFICATIONS

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
 - * STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 - * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 - * CITY OF PROSPECT HEIGHTS MUNICIPAL CODE;
 - * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
 - * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

- 1. THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055 OR SEND EMAIL NOTIFICATION WITH PROJECT NAME, LOCATION AND PERMIT NUMBER TO WMOJOBSTART@MWRD.ORG).
- 2. THE CITY OF PROSPECT HEIGHTS ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.
- 3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

C. GENERAL NOTES

- 1. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), CONVERSION FACTOR IS +579.03 FT.
- 2. MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
- 3. THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.
- 4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
- 5. THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.
- 6. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- 7. MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.
- 8. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
- 9. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
- 10. RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

D. SANITARY SEWER

- 1. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
- 2. A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
- 3. DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.
- 4. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
- 5. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
- 6. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
- 7. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

PIPE MATERIAL PIPE SPECIFICATIONS JOINT SPECIFICATIONS

VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE		
6-INCH TO 15-INCH DIAMETER SDR 26	ASTM D-3034	ASTM D-3212
18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM F-679	ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)		
	ASTM D-3350	ASTM D-3261, F-2620 (HEAT FUSION)
	ASTM D-3035	ASTM D-3212, F-477 (GASKETED)
WATER MAIN QUALITY PVC		
4-INCH TO 36-INCH	ASTM D-2241	ASTM D-3139
4-INCH TO 12-INCH	AWWA C900	ASTM D-3139
14-INCH TO 48-INCH	AWWA C905	ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE MATERIAL PIPE SPECIFICATIONS JOINT SPECIFICATIONS

POLYPROPYLENE (PP) PIPE		
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

- 8. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE 1/4" TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.
- 9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.
- 10. ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.
- 11. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
 - a) A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
 - b) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
 - c) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
- 12. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
- 13. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
- 14. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
- 15. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-922 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.
- 16. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
- 17. EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.
- 18. A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

E. EROSION AND SEDIMENT CONTROL

- 1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- 2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.
- 3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
- 4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- 5. INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
 - a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
 - b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
- 6. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- 7. A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- 8. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.
- 9. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
- 10. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.
- 11. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.
- 12. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
- 13. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- 14. SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
- 15. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.
- 16. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
- 17. THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.
- 18. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.
- 20. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
- 21. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
- 22. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
- 23. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.

TECHNICAL GUIDANCE MANUAL

MWRD GENERAL NOTES

10/13/2022

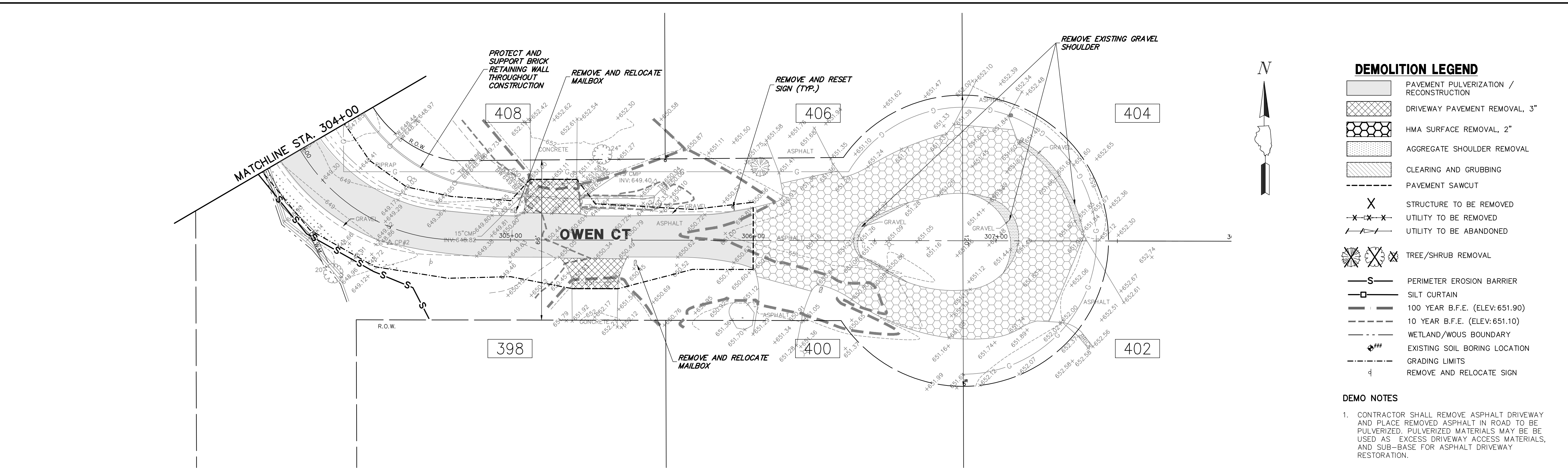
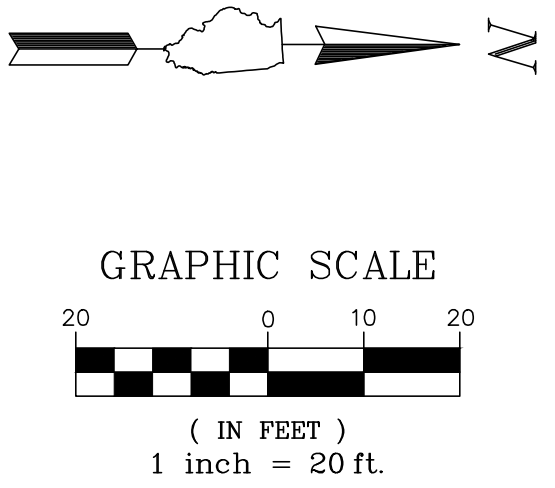
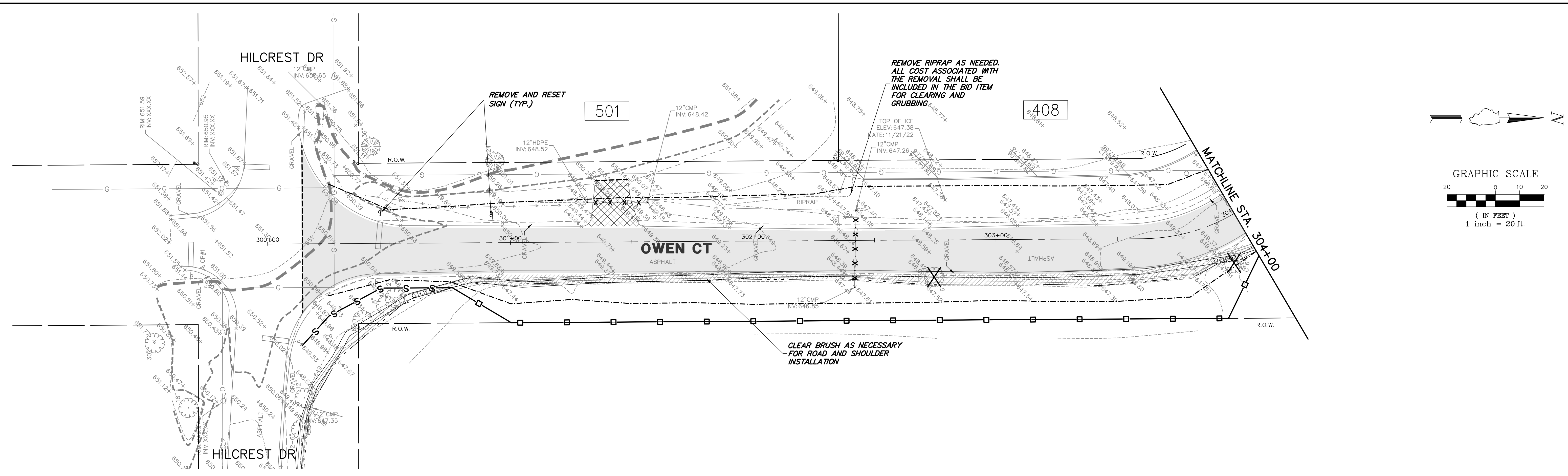
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- DEMOLITION LEGEND**
- PAVEMENT PULVERIZATION / RECONSTRUCTION
 - DRIVEWAY PAVEMENT REMOVAL, 3"
 - HMA SURFACE REMOVAL, 2"
 - AGGREGATE SHOULDER REMOVAL
 - CLEARING AND GRUBBING
 - PAVEMENT SAWCUT
 - STRUCTURE TO BE REMOVED
 - UTILITY TO BE REMOVED
 - UTILITY TO BE ABANDONED
 - TREE/SHRUB REMOVAL
 - PERIMETER EROSION BARRIER
 - SILT CURTAIN
 - 100 YEAR B.F.E. (ELEV: 651.90)
 - 10 YEAR B.F.E. (ELEV: 651.10)
 - WETLAND/WOUS BOUNDARY
 - EXISTING SOIL BORING LOCATION
 - GRADING LIMITS
 - REMOVE AND RELOCATE SIGN

DEMO NOTES

- CONTRACTOR SHALL REMOVE ASPHALT DRIVEWAY AND PLACE REMOVED ASPHALT IN ROAD TO BE PULVERIZED. PULVERIZED MATERIALS MAY BE USED AS EXCESS DRIVEWAY ACCESS MATERIALS, AND SUB-BASE FOR ASPHALT DRIVEWAY RESTORATION.

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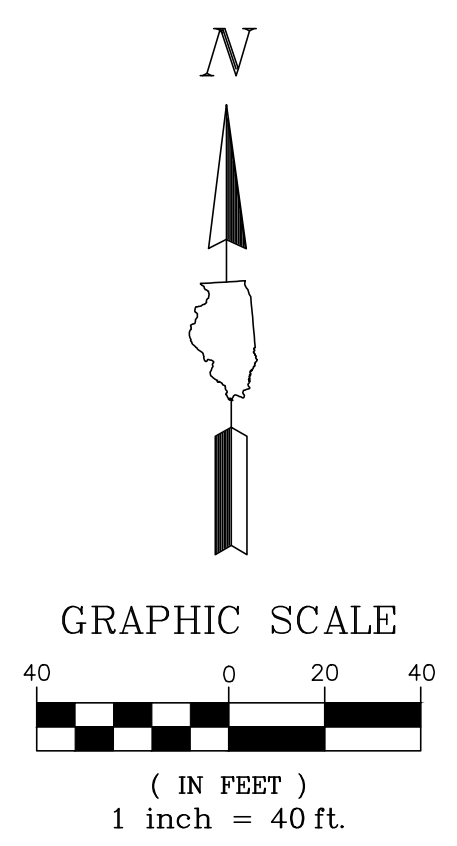
EXISTING CONDITIONS/DEMOLITION PLAN

**OWEN COURT FLOOD CONTROL
 CITY OF PROSPECT HEIGHTS
 PROSPECT HEIGHTS, ILLINOIS**



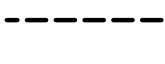


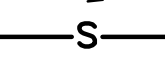

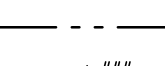


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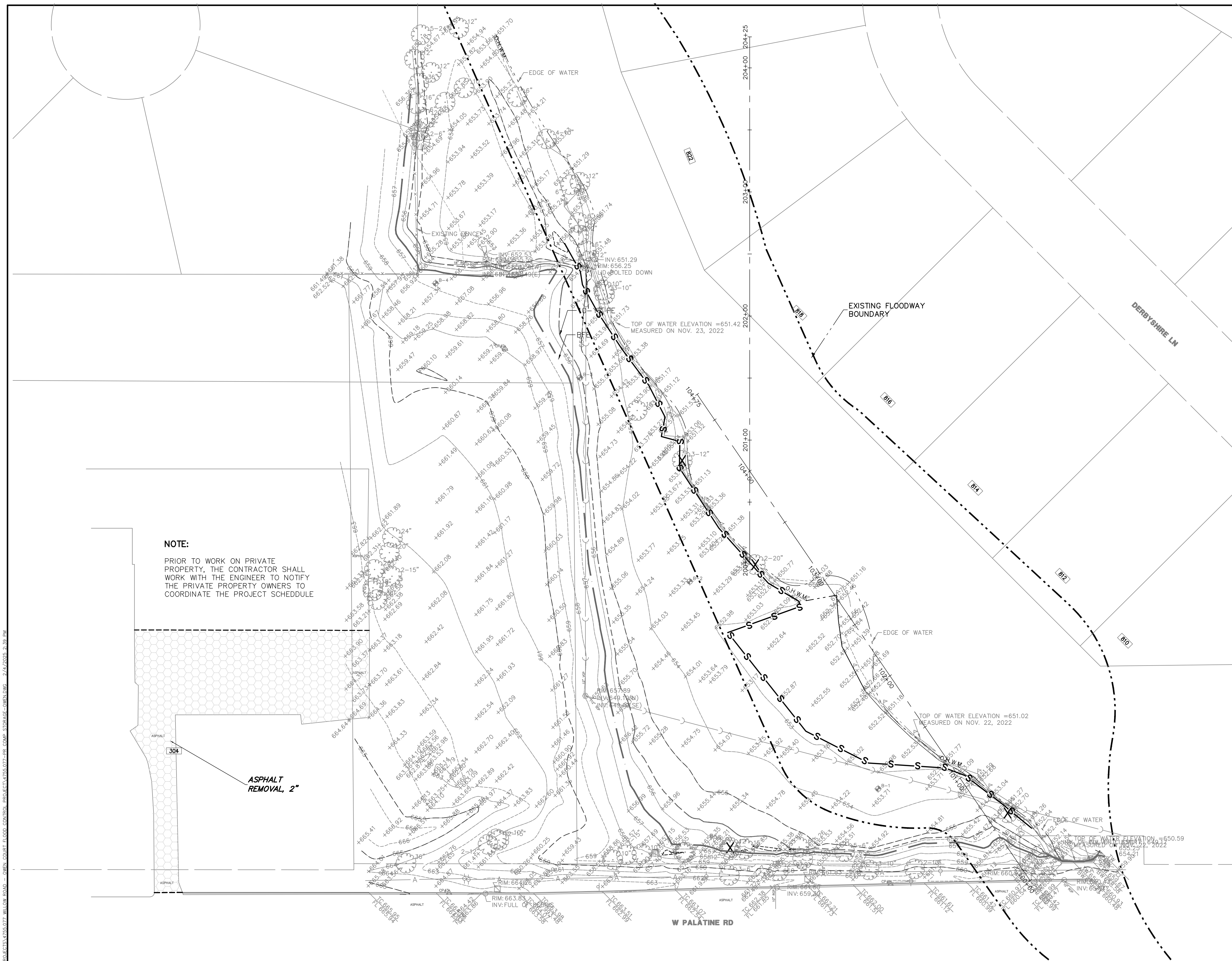


REMOVAL LEGEND

-  EARTH EXCAVATION
-  HMA SURFACE REMOVAL, 2"
-  PAVEMENT SAWCUT
-  TREE/SHRUB REMOVAL
-  TREE TRUNK PROTECTION FENCE
-  PERIMETER EROSION BARRIER
-  100 YEAR B.F.E. (ELEV: 656.5)
-  10 YEAR F.E. (ELEV: 655.7)
-  WETLAND/WOUS BOUNDARY
-  SOIL BORINGS

NOTE:
PRIOR TO WORK ON PRIVATE PROPERTY, THE CONTRACTOR SHALL WORK WITH THE ENGINEER TO NOTIFY THE PRIVATE PROPERTY OWNERS TO COORDINATE THE PROJECT SCHEDULE

ASPHALT REMOVAL, 2"



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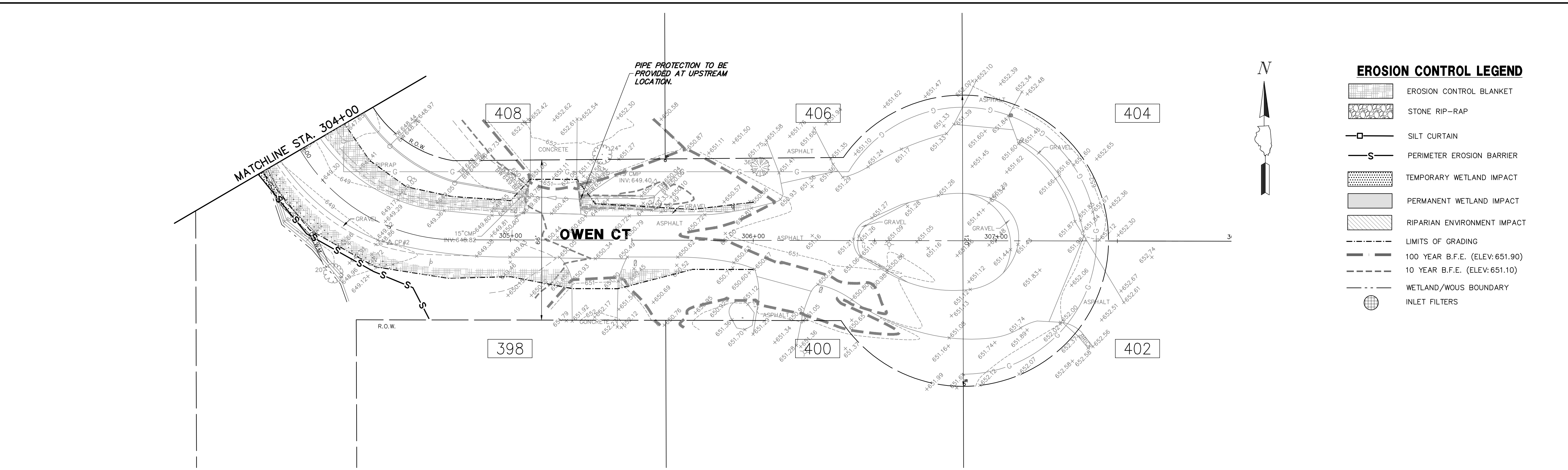
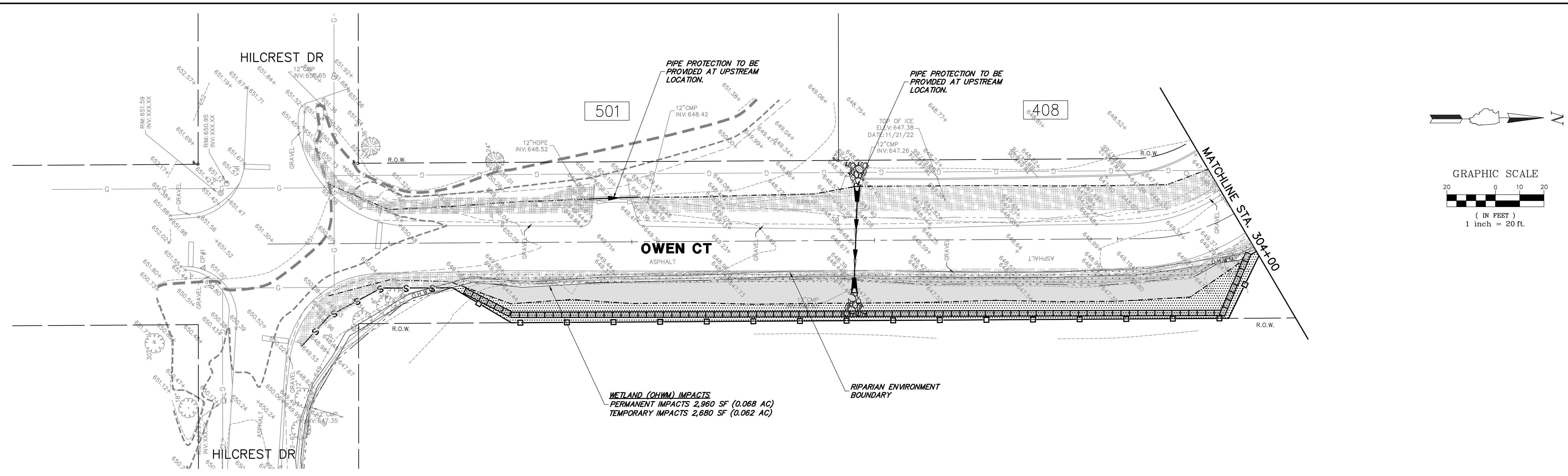
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EXISTING CONDITIONS AND DEMOLITION PLAN
OWEN COURT FLOOD CONTROL
CITY OF PROSPECT HEIGHTS
PROSPECT HEIGHTS, ILLINOIS

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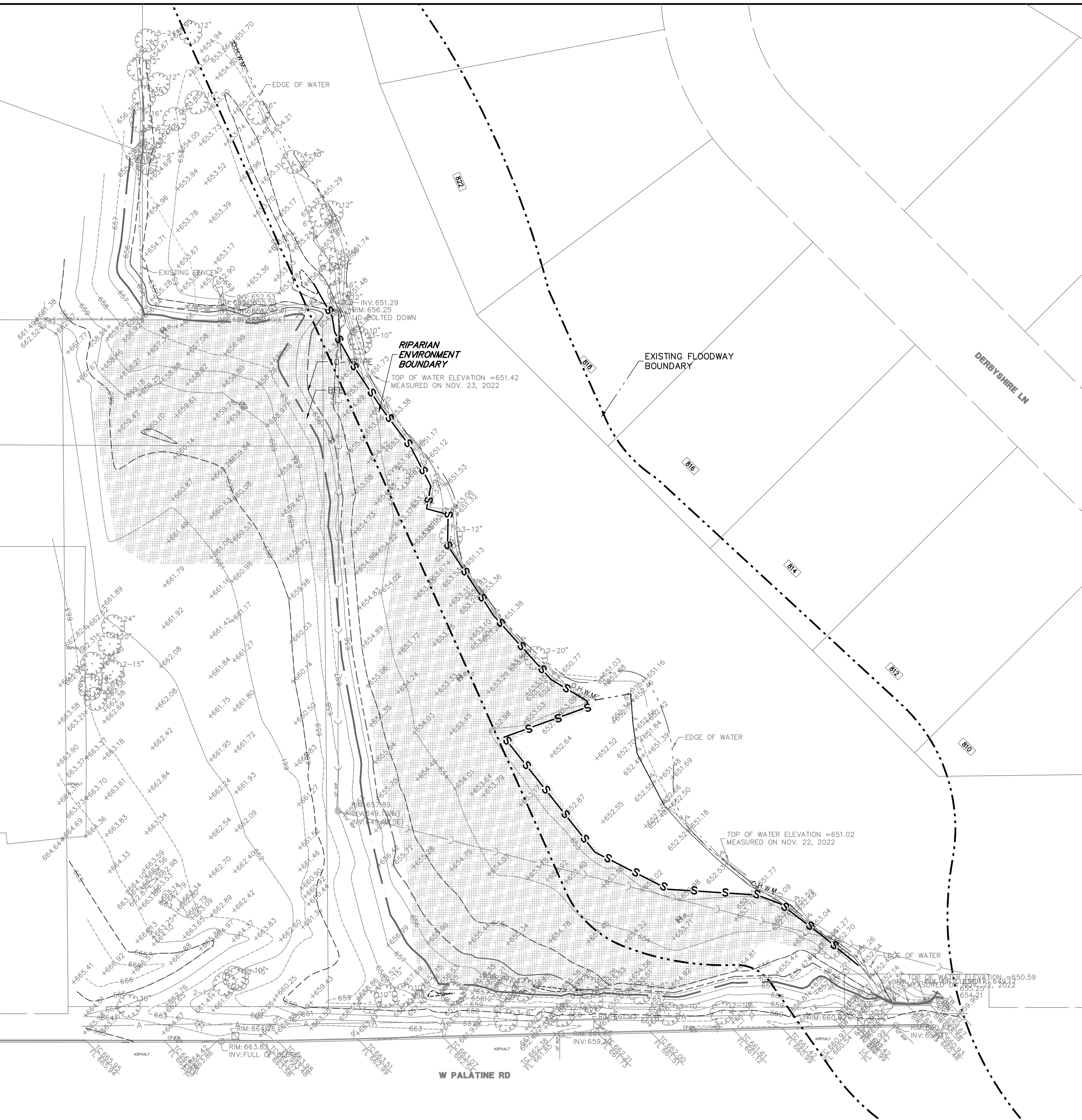
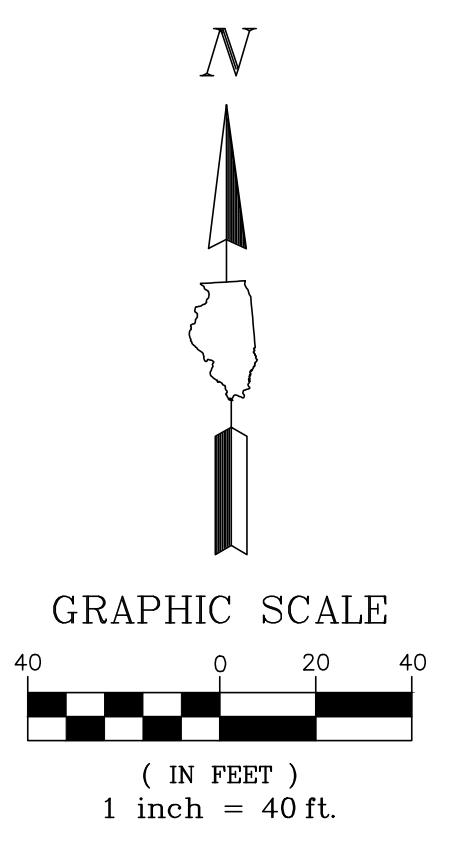
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SOIL EROSION AND SEDIMENT CONTROL PLAN
OWEN COURT FLOOD CONTROL
CITY OF PROSPECT HEIGHTS
PROSPECT HEIGHTS, ILLINOIS


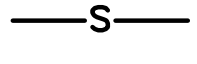


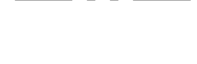

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8



EROSION CONTROL LEGEND

-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  LIMITS OF GRADING
-  100 YEAR B.F.E. (ELEV: 656.5)
-  10 YEAR F.E. (ELEV: 655.7)
-  WETLAND/WOUS BOUNDARY

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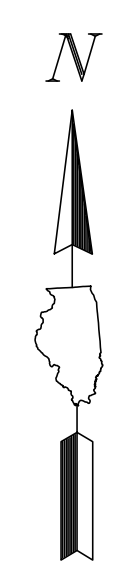
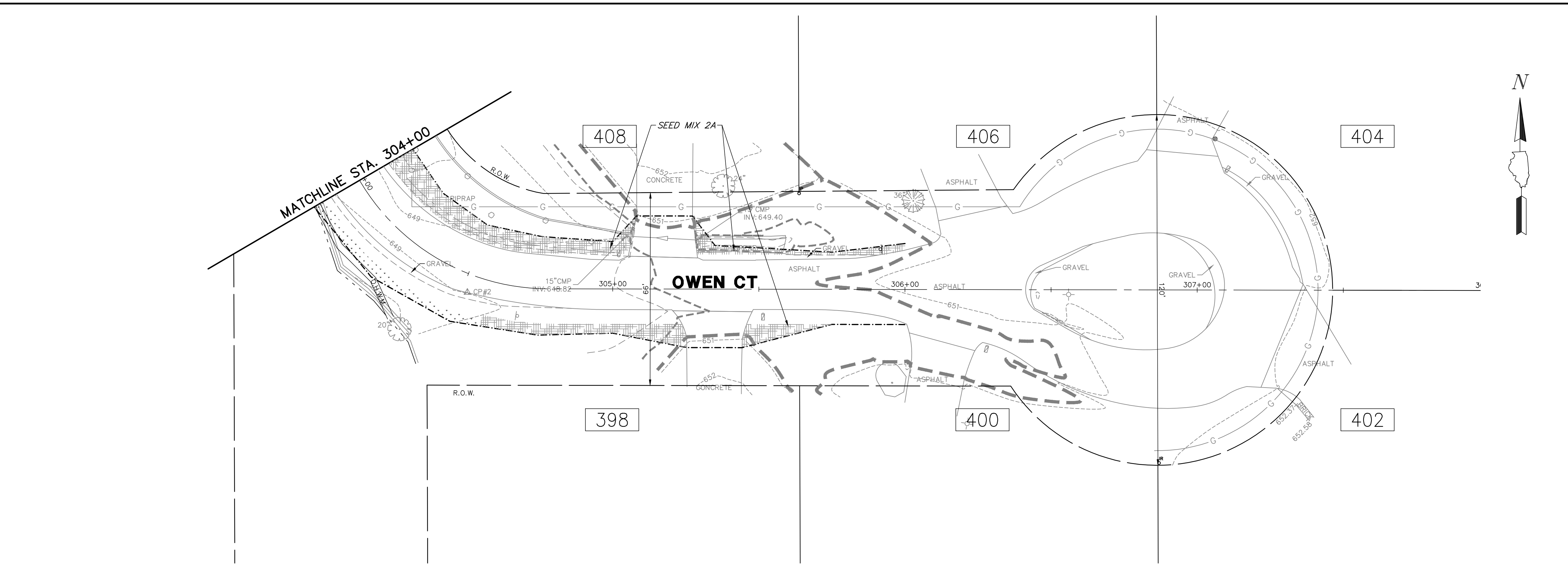
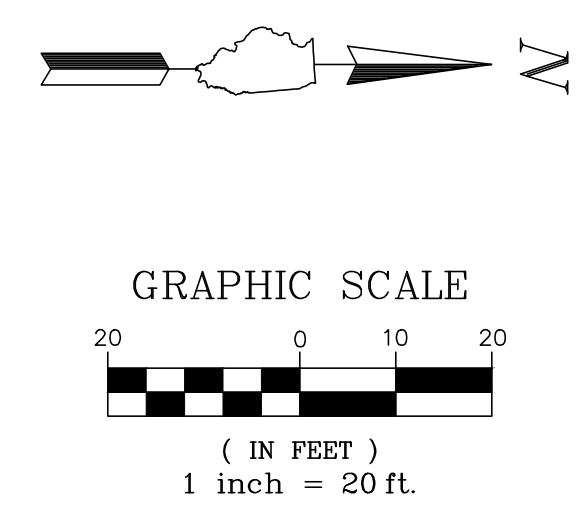
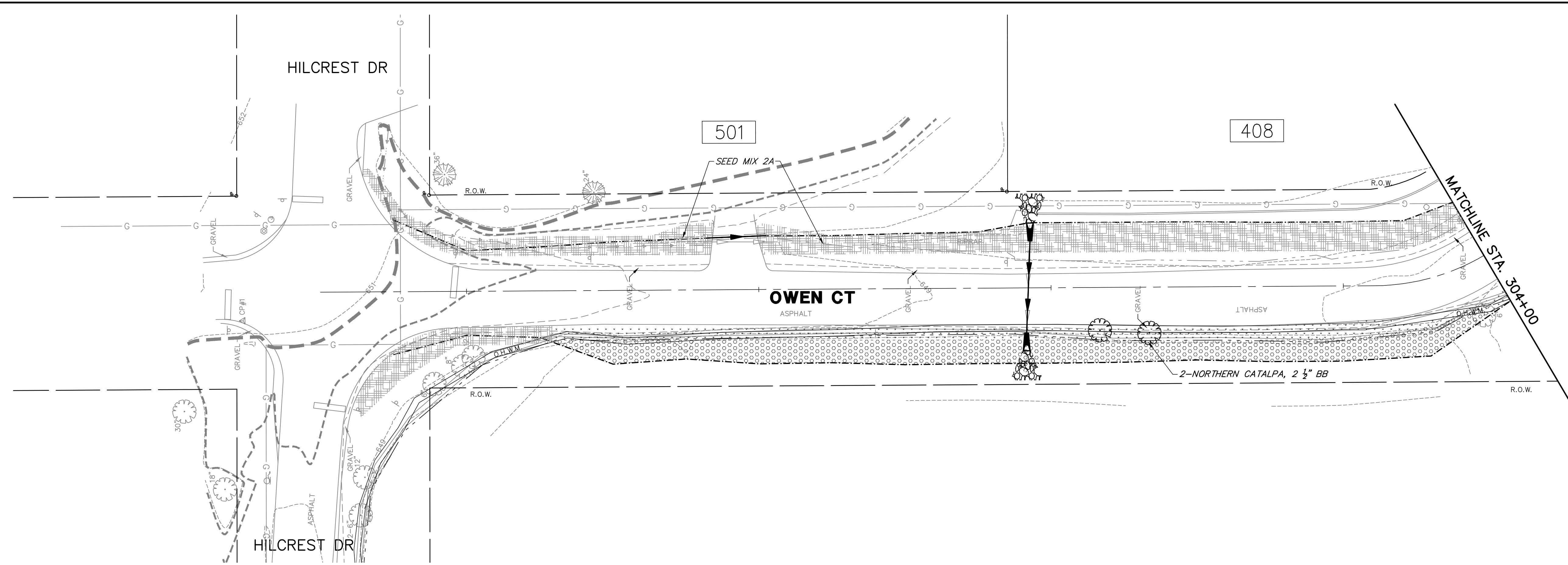
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SOIL EROSION AND SEDIMENT CONTROL PLAN
OWEN COURT FLOOD CONTROL
CITY OF PROSPECT HEIGHTS
PROSPECT HEIGHTS, ILLINOIS


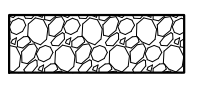
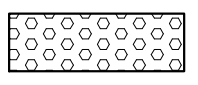



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9



RESTORATION LEGEND

-  TOP SOIL (DEPTH VARIES)
SEED MIX 1
-  STONE RIP-RAP
-  CA-2A STONE
-  SLOPED PRAIRIE SEED MIX
-  CREEKSIDE MEADOW SEED MIX
-  PROPOSED TREES

RESTORATION NOTES

1. TOPSOIL DEPTH SHALL BE 6" IN WETLAND PLANTING AREAS AND 4" IN ALL OTHER AREAS.
2. WETLAND PLANTING DETAILS SHALL BE REFERENCED DURING FINAL RESTORATION.
3. NO FERTILIZERS SHALL BE USED IN WETLAND PLANT AREAS.
4. REFER TO THE WETLAND PLUG PLANTING DETAIL ON SHEET 59 OF THE PLAN SET FOR PLUG SPACING REQUIREMENTS.
5. REFER TO THE WETLAND STANDARD PALETTE LISTS A AND B ON SHEET 60 OF THE PLAN SET FOR PLANT LISTS.
6. THE PROPOSED TREE LOCATIONS ARE APPROXIMATE. FINAL TREE LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
7. REFER TO THE TREE PLANTING DETAILS ON SHEET 60 FOR SUMMARY OF TREE SPECIES TO BE INSTALLED.
8. PROPOSED CONTOURS NOT SHOWN ON THIS SHEET. FOR CLARITY OF PROPOSED RESTORATION MATERIALS.

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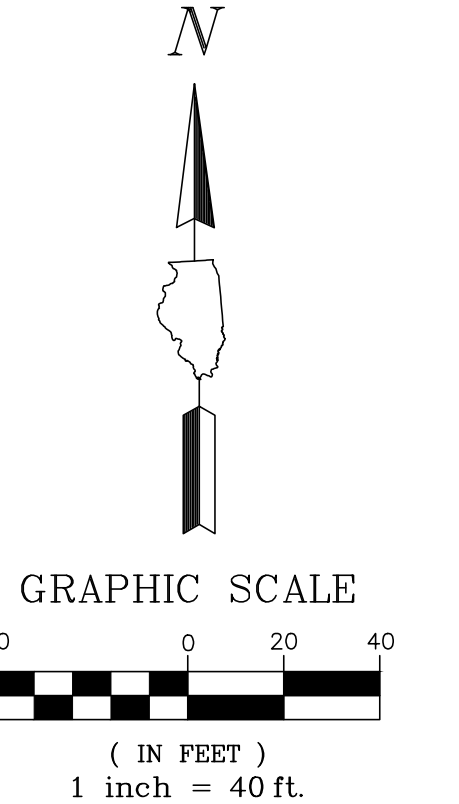
RESTORATION PLAN
OWEN COURT FLOOD CONTROL
CITY OF PROSPECT HEIGHTS
PROSPECT HEIGHTS, ILLINOIS

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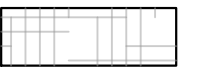
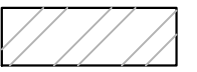
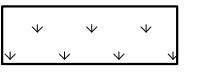
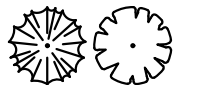

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SHEET NUMBER:
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 OF 33 SHEETS

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RESTORATION LEGEND

-  TOP SOIL (DEPTH VARIES) SEED MIX 1
-  SLOPED PRAIRIE SEED MIX
-  CREEKSIDE MEADOW SEED MIX
-  PROPOSED TREE
-  10 YEAR F.E. (ELEV:655.7)

RESTORATION NOTES

1. TOPSOIL DEPTH SHALL BE 6" IN WETLAND PLANTING AREAS AND 4" IN ALL OTHER AREAS.
2. WETLAND PLANTING DETAILS SHALL BE REFERENCED DURING FINAL RESTORATION.
3. NO FERTILIZERS SHALL BE USED IN WETLAND PLANT AREAS.
4. REFER TO THE WETLAND PLANTING DETAIL ON SHEET 30 OF THE PLAN SET FOR PLUG SPACING REQUIREMENTS.
5. REFER TO THE WETLAND STANDARD SEED MIX ON SHEET 30 OF THE PLAN SET FOR PLANT LISTS.
6. THE PROPOSED TREE LOCATIONS ARE APPROXIMATE. FINAL TREE LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
7. REFER TO TREE PLANTING DETAILS ON SHEET 30 FOR SUMMARY OF TREE SPECIES TO BE INSTALLED.

8. 4/20/23, 2:55 PM. PROSPECT HEIGHTS PROJECTS\195.977 - OWEN COURT FLOOD CONTROL - PROJECT\195.977-PR COMP STORAGE - OWEN.C - 7/4/2023 2:39 PM

GHA GEWALT HAMILTON ASSOCIATES, INC.
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061
 TEL 847.478.9700 ■ FAX 847.478.9701

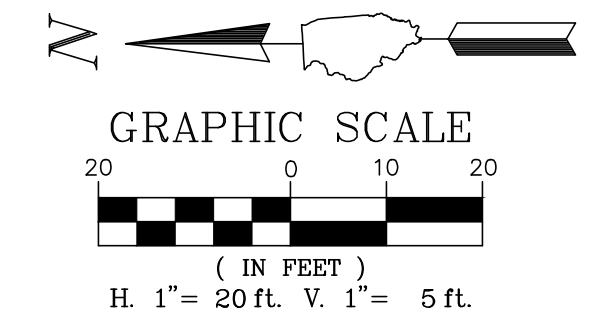
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RESTORATION PLAN
OWEN COURT FLOOD CONTROL
CITY OF PROSPECT HEIGHTS
PROSPECT HEIGHTS, ILLINOIS

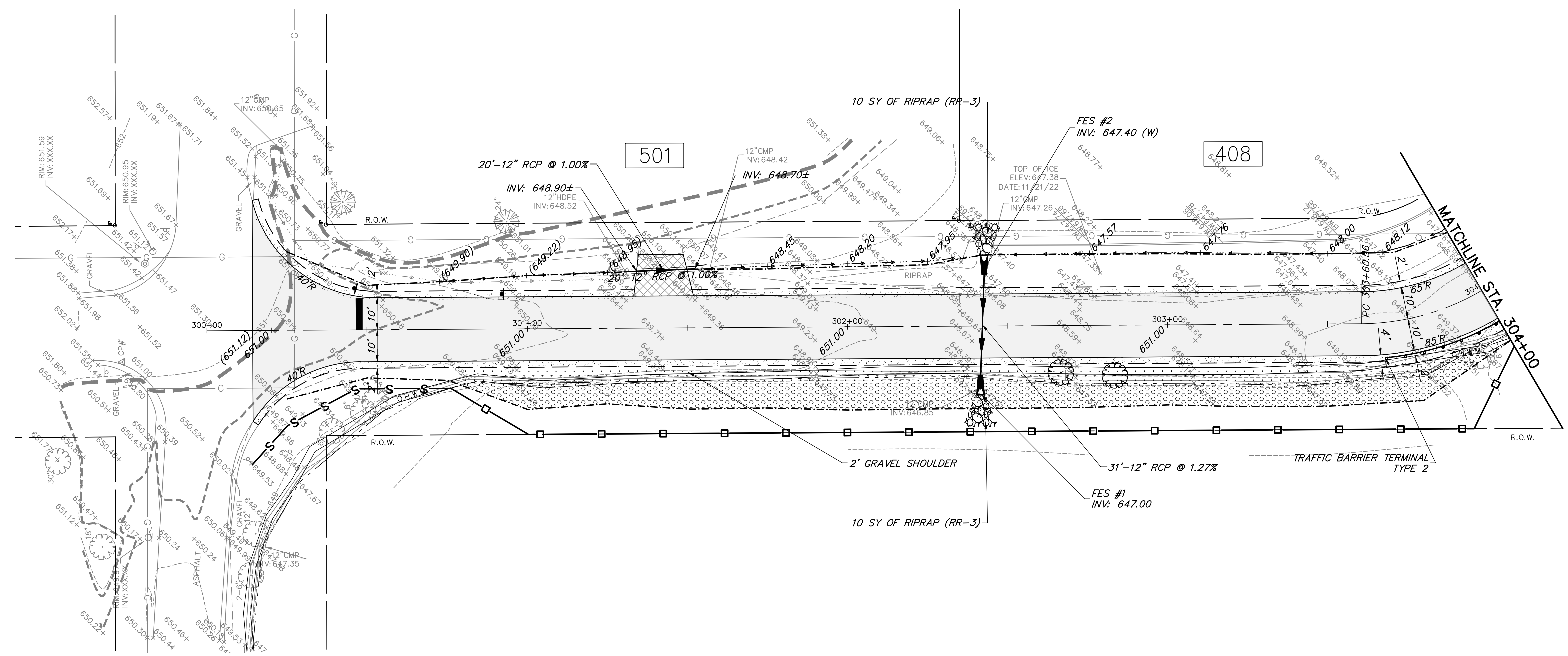
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FILE 4755.077-PR COMP STORAGE-Owen	SHEET NUMBER:
DRAWN BY: WR	GHA PROJECT #
DATE: 02.06.25	4755.077
CHECKED BY: DJS	SCALE:
DATE: 02.06.25	1"=40'
	OF 33 SHEETS

11



- PROPOSED LEGEND**
- HMA PAVEMENT RECONSTRUCTION
 - HMA RESURFACING
 - PCC PAVEMENT
 - AGGREGATE SHOULDER
 - HMA DRIVEWAY PAVEMENT
 - PCC DRIVEWAY PAVEMENT
 - CA-1 STONE SUBBASE
 - RELOCATED SIGN
 - RELOCATED MAIL BOX
 - REINSTALLED LIGHT POST
 - SWALES
 - PROPOSED SPOT ELEVATION
 - MATCH EXISTING SPOT ELEVATION
 - CONTOUR
 - STRUCTURE ADJUSTMENT
 - LIMITS OF GRADING
 - 100 YEAR B.F.E. (FEMA ELEV: 650.90)
 - 10 YEAR F.E. (FEMA ELEV: 650.30)
 - WETLAND/WOUS BOUNDARY
 - B6.12 CURB & GUTTER (REGULAR)
 - B6.12 CURB & GUTTER (DEPRESSED)



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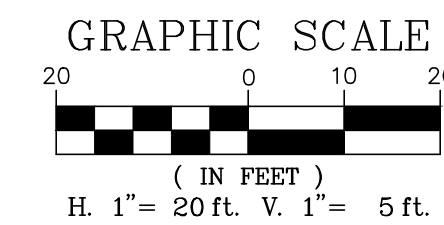
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PLAN AND PROFILE (STA. 300+00 TO 304+00)
OWEN COURT FLOOD CONTROL
CITY OF PROSPECT HEIGHTS
PROSPECT HEIGHTS, ILLINOIS



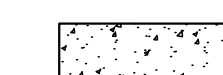
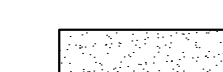


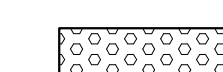


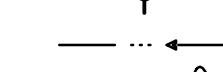
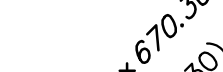
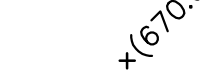
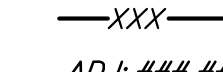
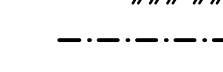

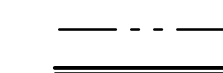
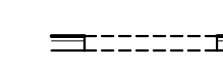




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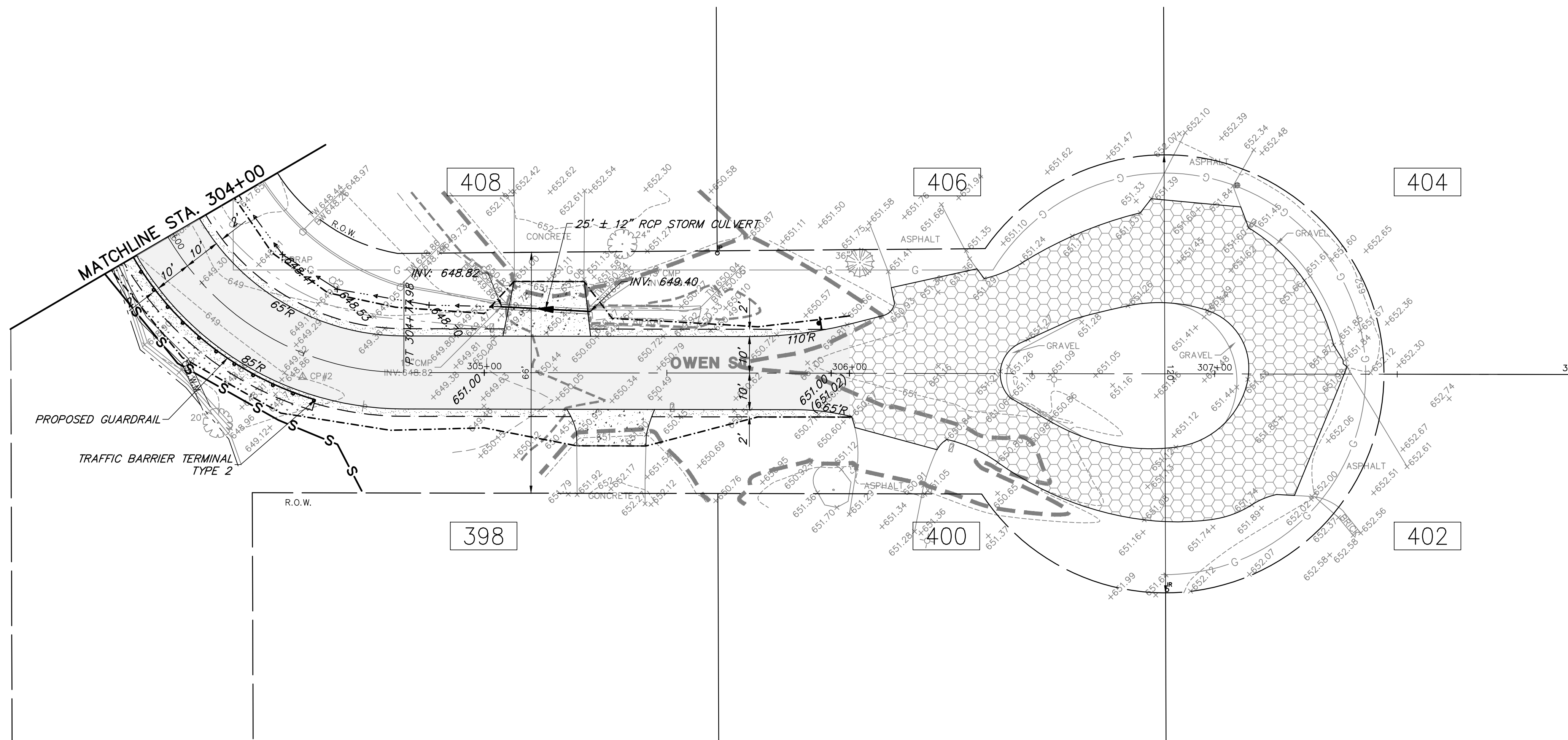
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CHECKED BY: DJS DATE: 02.06.25	SCALE: AS NOTED
	OF 33 SHEETS

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 PROJECT: PROSPECT HEIGHTS
 PROJECT NO: 4755.077-PR4
 DRAWN BY: WR
 DATE: 02.06.25
 CHECKED BY: DJS
 DATE: 02.06.25



PROPOSED LEGEND

-  HMA PAVEMENT RECONSTRUCTION
-  HMA RESURFACING
-  PCC PAVEMENT
-  AGGREGATE SHOULDER
-  HMA DRIVEWAY PAVEMENT
-  PCC DRIVEWAY PAVEMENT
-  CA-1 STONE SUBBASE
-  RELOCATED SIGN
-  RELOCATED MAIL BOX
-  REINSTALLED LIGHT POST
-  SWALES
-  PROPOSED SPOT ELEVATION
-  MATCH EXISTING SPOT ELEVATION
-  CONTOUR
-  STRUCTURE ADJUSTMENT
-  LIMITS OF GRADING
-  100 YEAR B.F.E. (FEMA ELEV: 650.30)
-  10 YEAR F.E. (FEMA ELEV: 650.30)
-  WETLAND/WOUS BOUNDARY
-  B6.12 CURB & GUTTER (REGULAR)
-  B6.12 CURB & GUTTER (DEPRESSED)



OWEN CT



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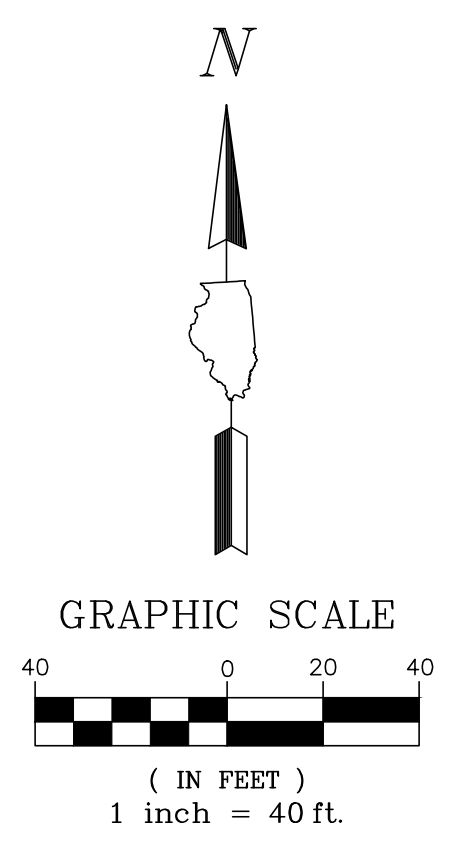
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PLAN AND PROFILE (STA. 304+00 TO 307+00)
OWEN COURT FLOOD CONTROL
CITY OF PROSPECT HEIGHTS
PROSPECT HEIGHTS, ILLINOIS


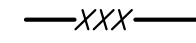




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DATE 02.06.25	CHECKED BY: DJS	SCALE AS NOTED
DATE 02.06.25		

SHEET NUMBER: **13**
 OF 33 SHEETS



PROPOSED LEGEND

-  HMA RESURFACING, 2"
-  CONTOUR
-  100 YEAR B.F.E. (ELEV: 656.5)
-  10 YEAR F.E. (ELEV: 655.7)
-  WETLAND/WOUS BOUNDARY
-  PAVEMENT SAWCUT

6:42:03 AM, PROJECT HEIGHTS PROJECTS\4755.077-PR COMP STORAGE-OWEN.CAD, 7/4/2025, 2:39 PM


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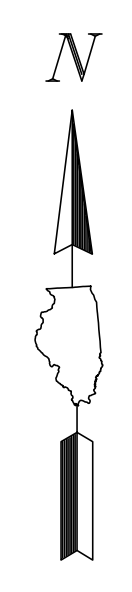
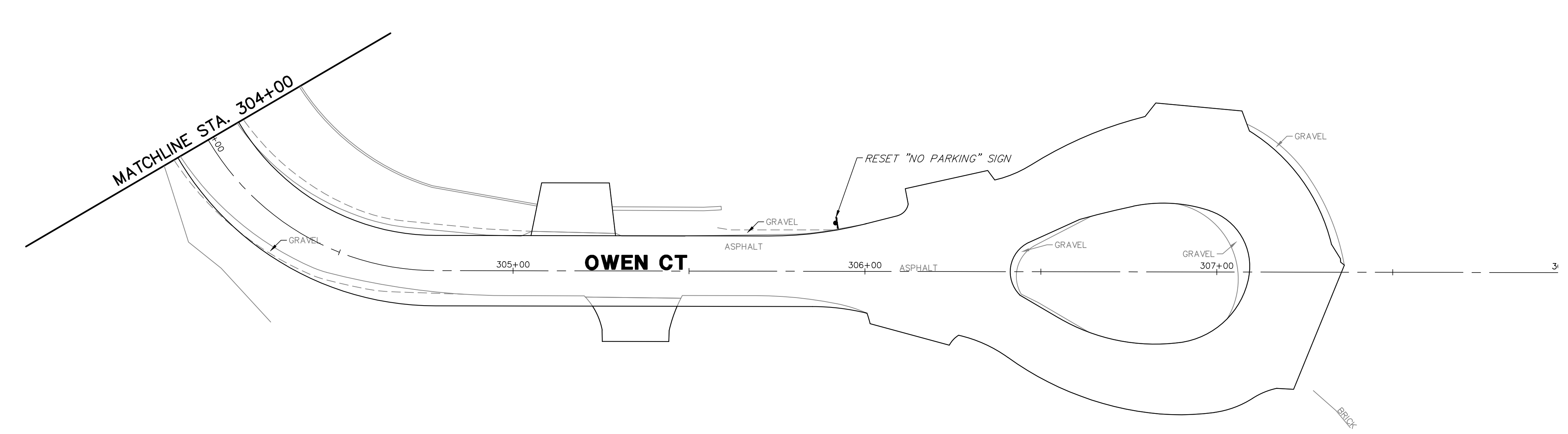
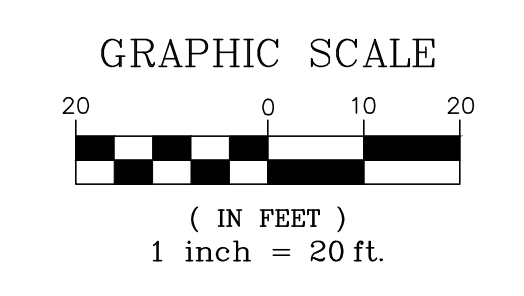
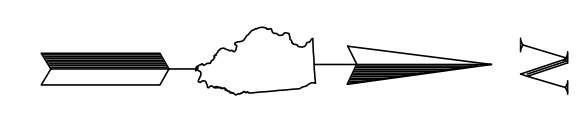
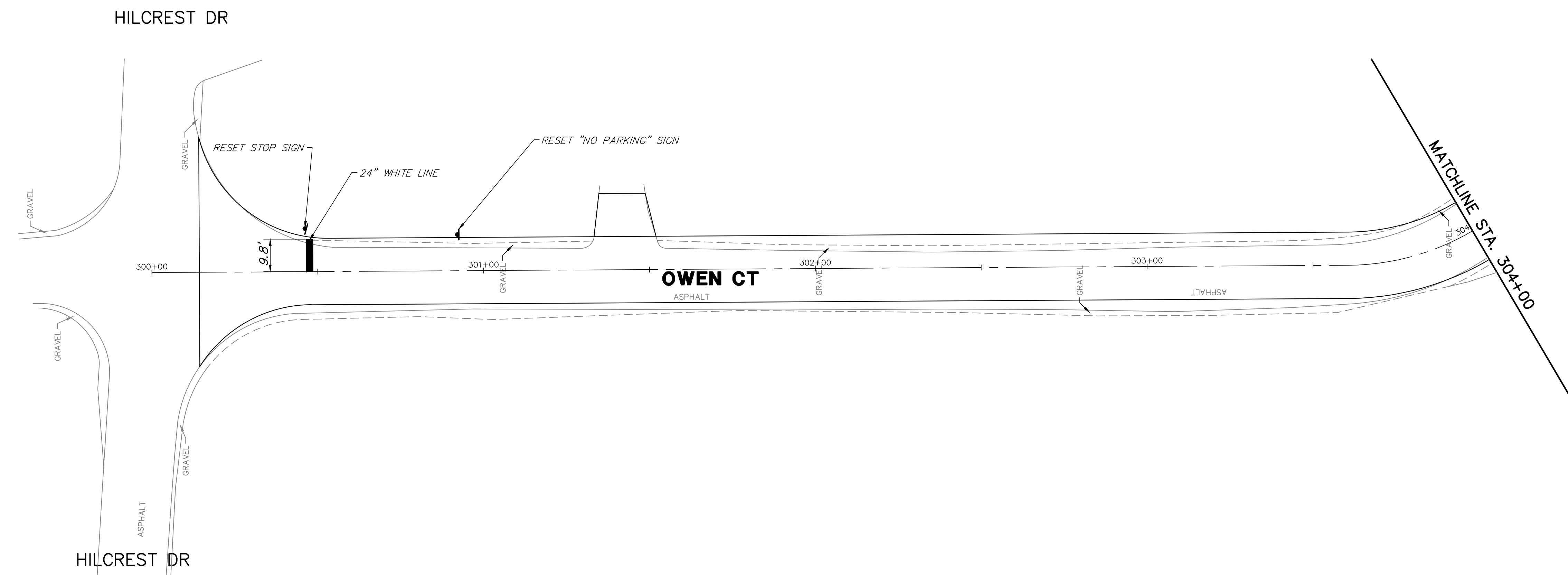
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SITE PLAN - COMP STORAGE AREA
OWEN COURT FLOOD CONTROL
CITY OF PROSPECT HEIGHTS
PROSPECT HEIGHTS, ILLINOIS

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 4755.077-PR COMP STORAGE-OWEN.dwg	SHEET NUMBER:
DRAWN BY: WR	GHA PROJECT #
DATE: 02.06.25	4755.077
CHECKED BY: DJS	SCALE:
DATE: 02.06.25	1"=40'
	OF 33 SHEETS

14



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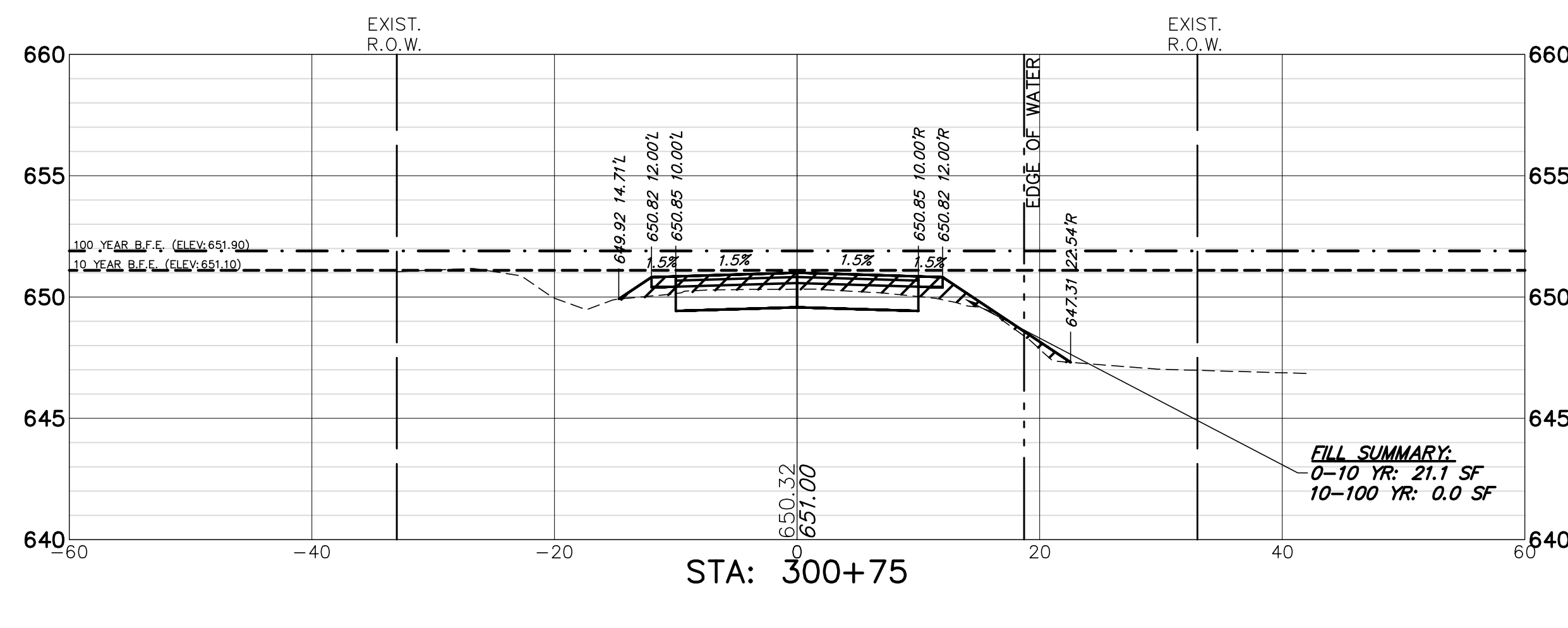
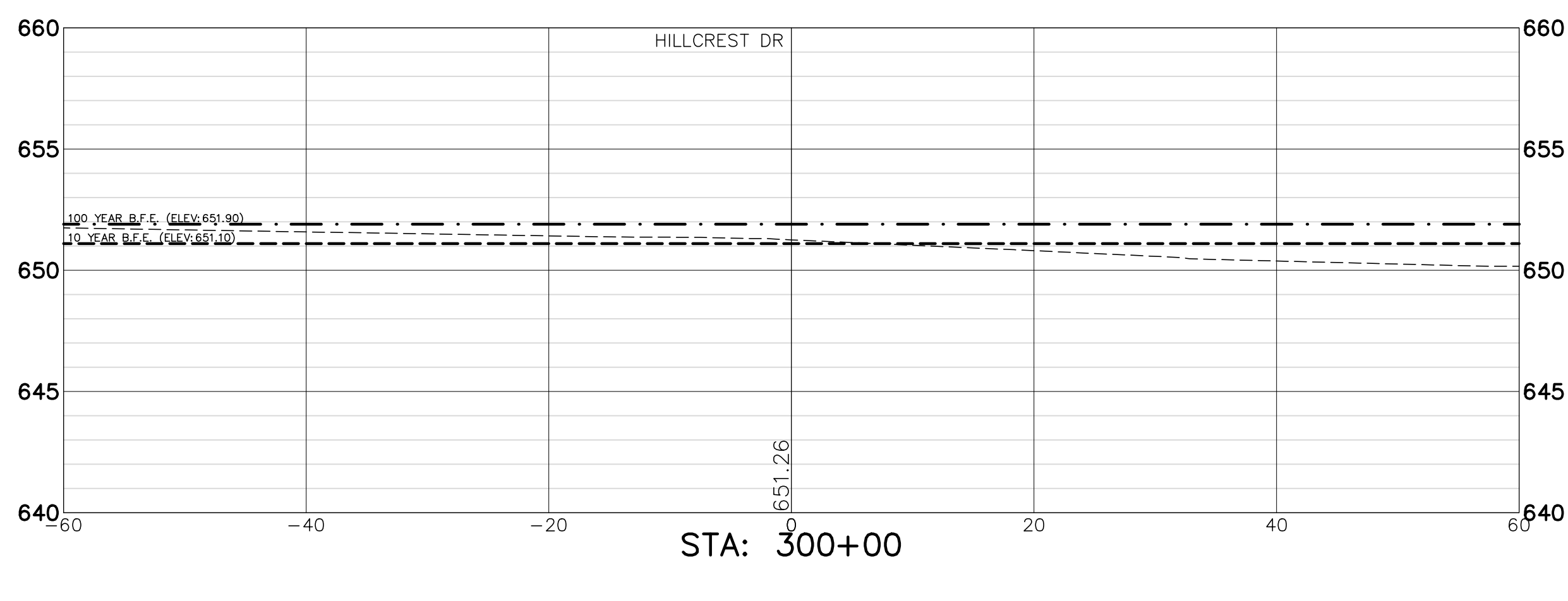
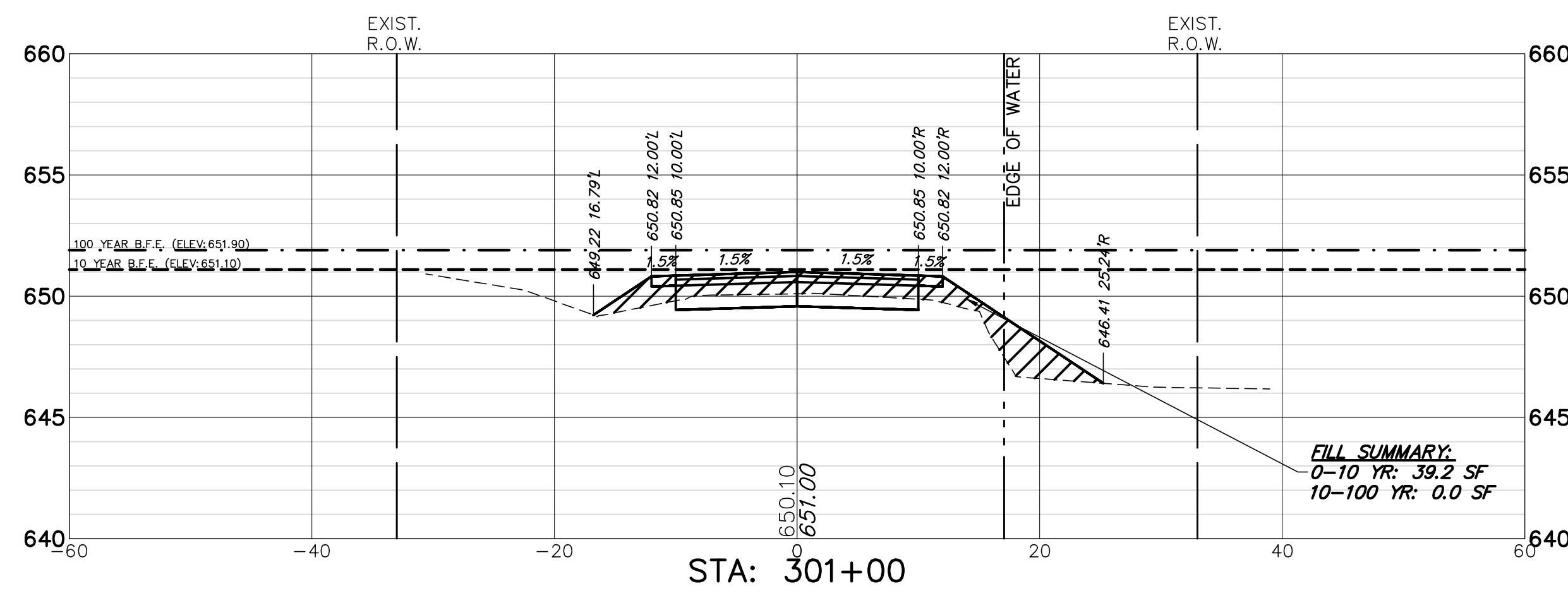
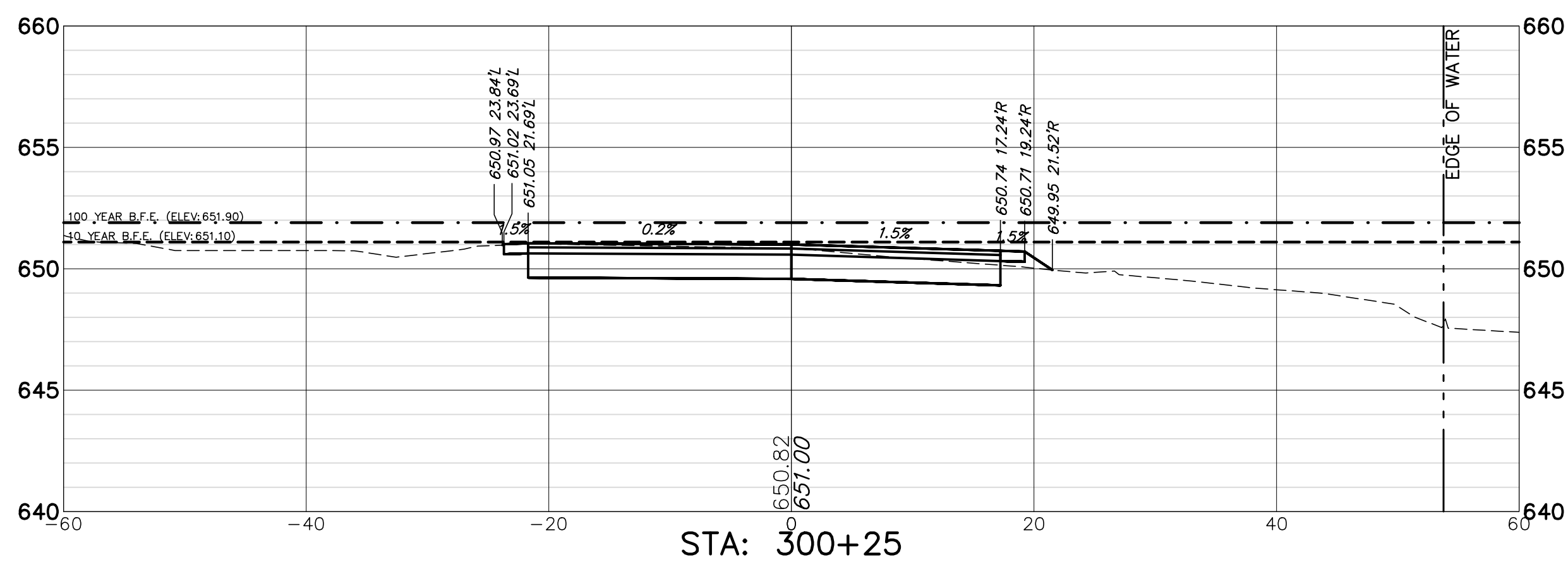
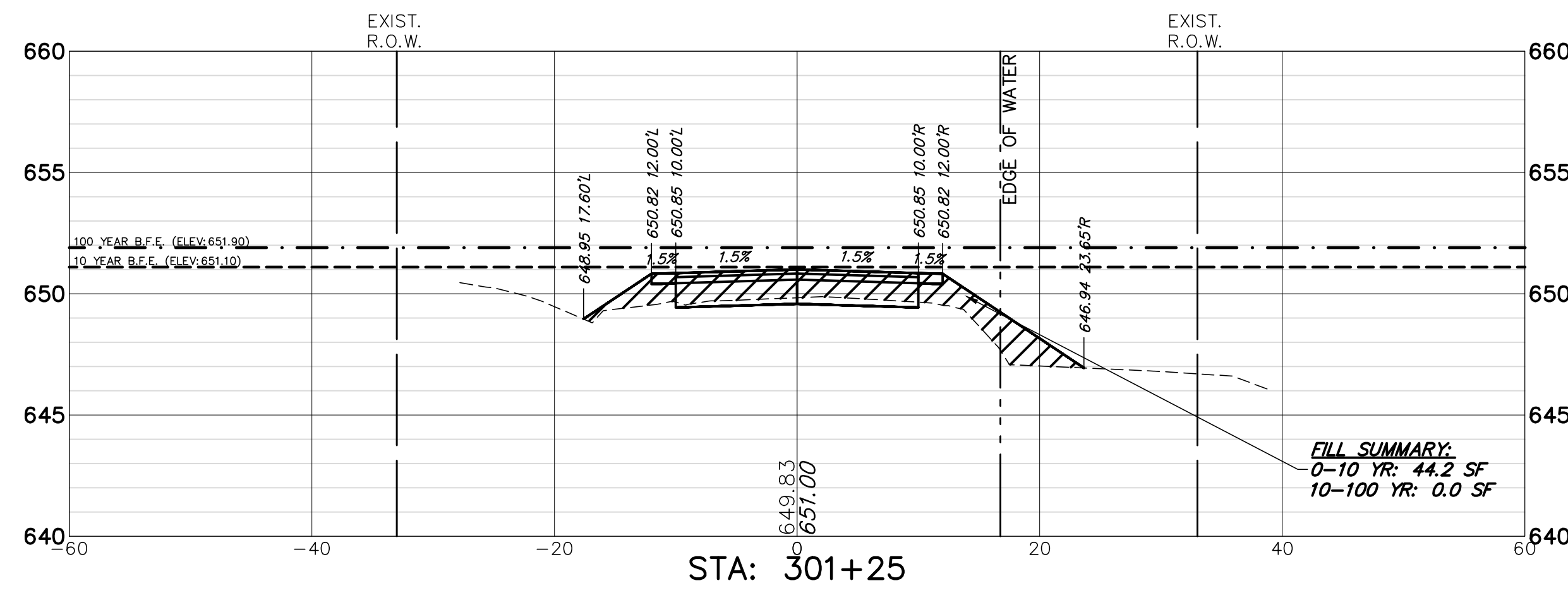
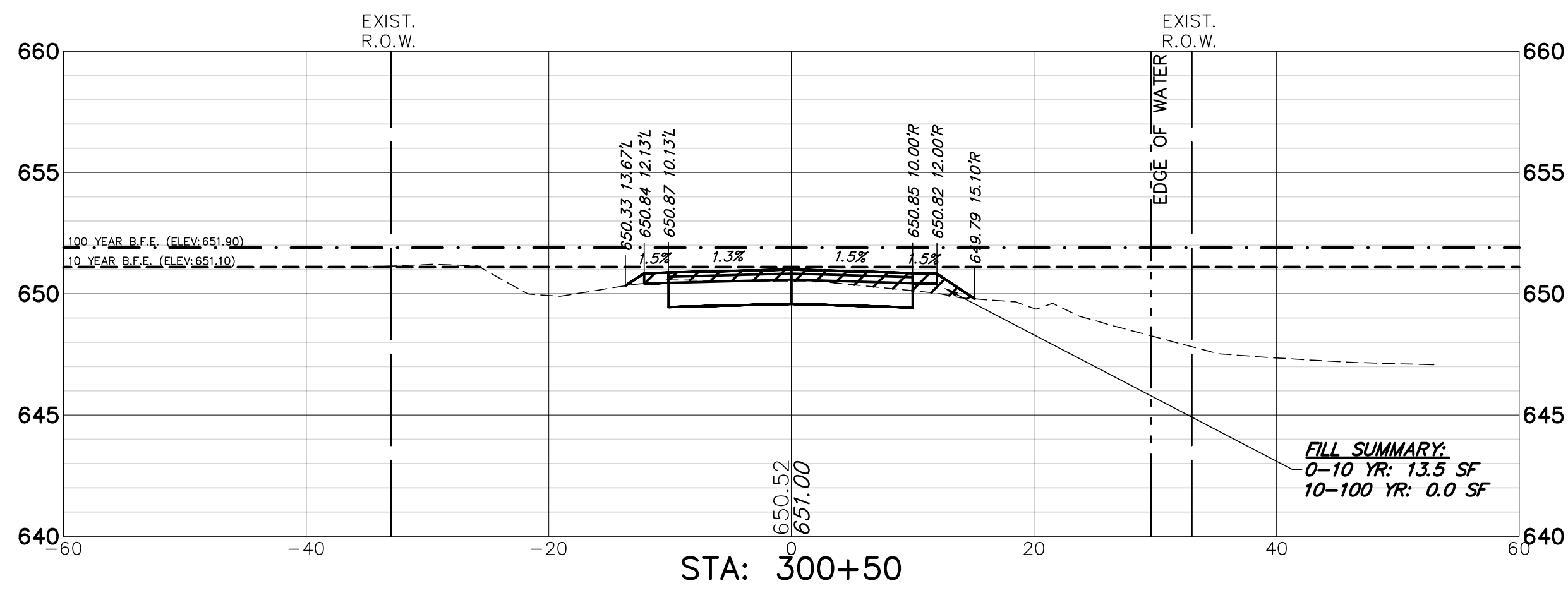
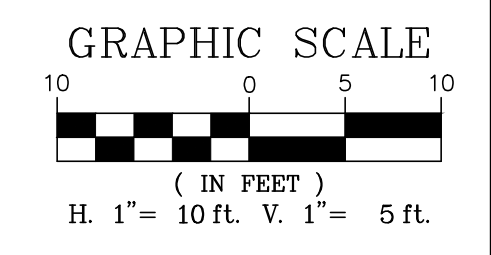
PAVEMENT MARKING AND SIGNAGE PLAN

**OWEN COURT FLOOD CONTROL
CITY OF PROSPECT HEIGHTS
PROSPECT HEIGHTS, ILLINOIS**

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DATE:	02.06.25
GHA PROJECT #	4755.077
CHECKED BY:	DJS
DATE:	02.06.25
SCALE:	1"=20'

SHEET NUMBER:
15
OF 33 SHEETS



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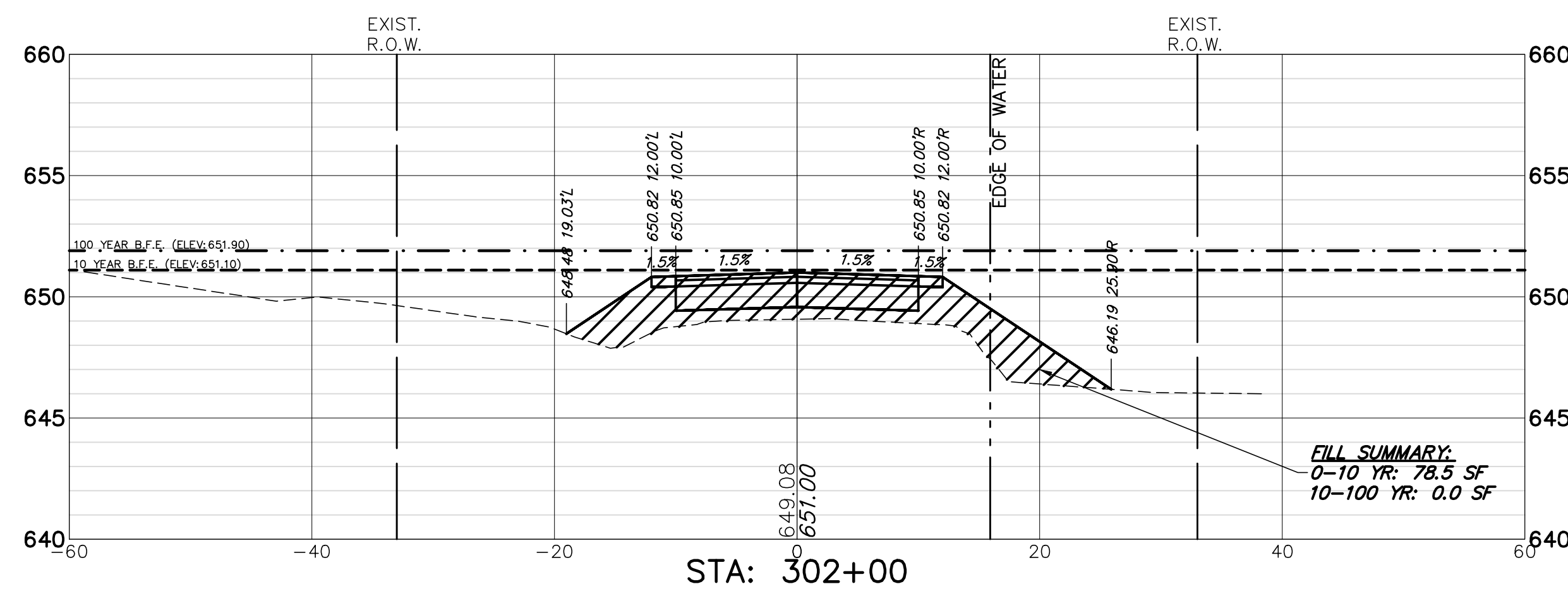
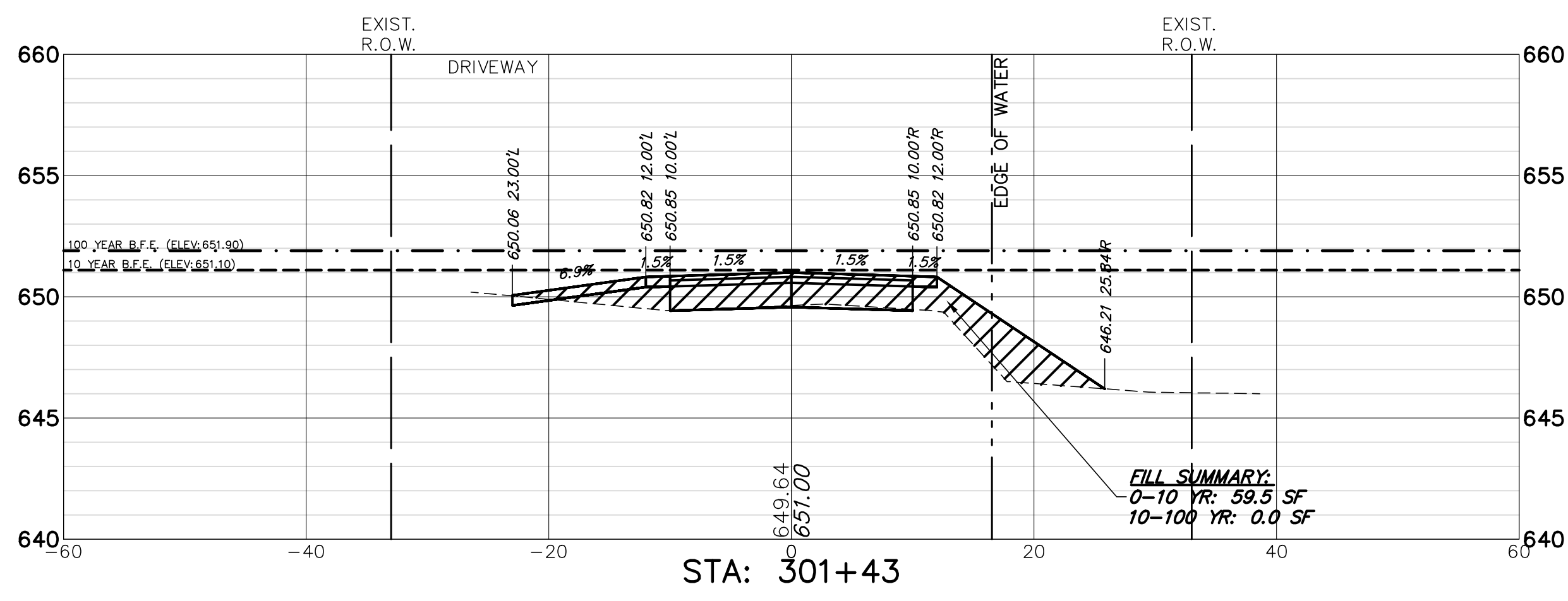
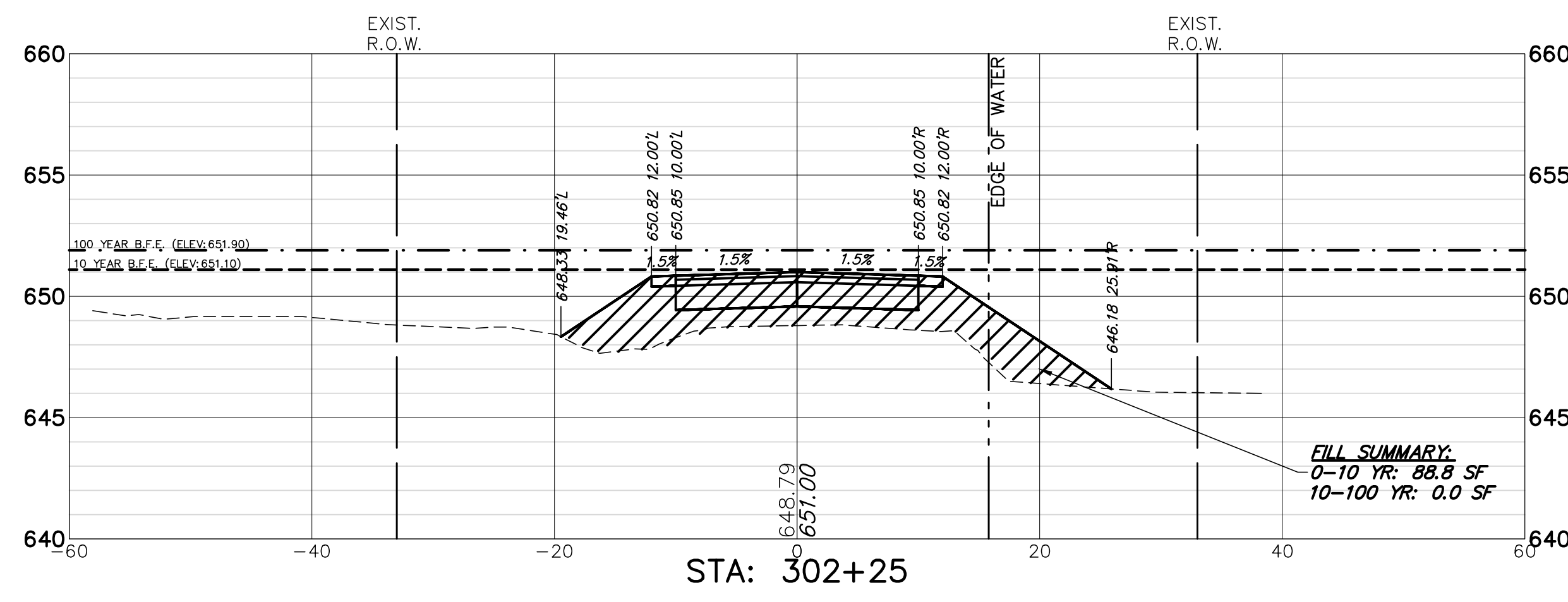
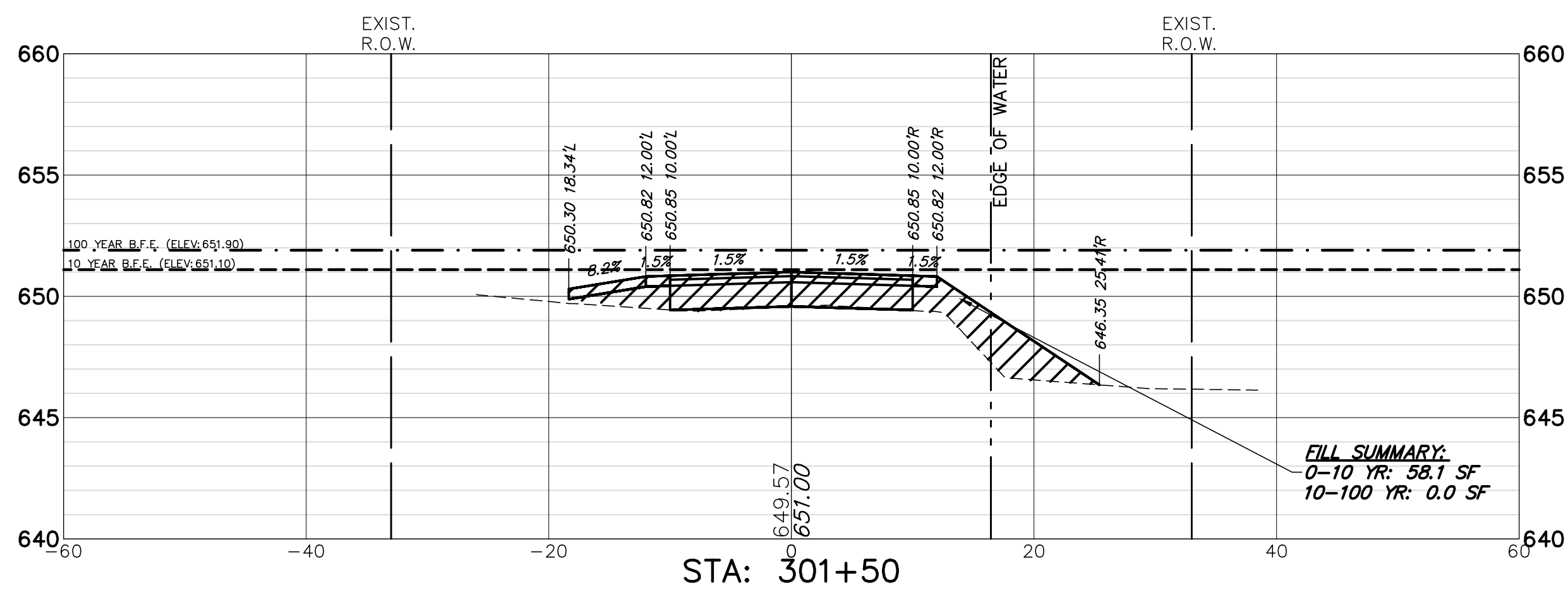
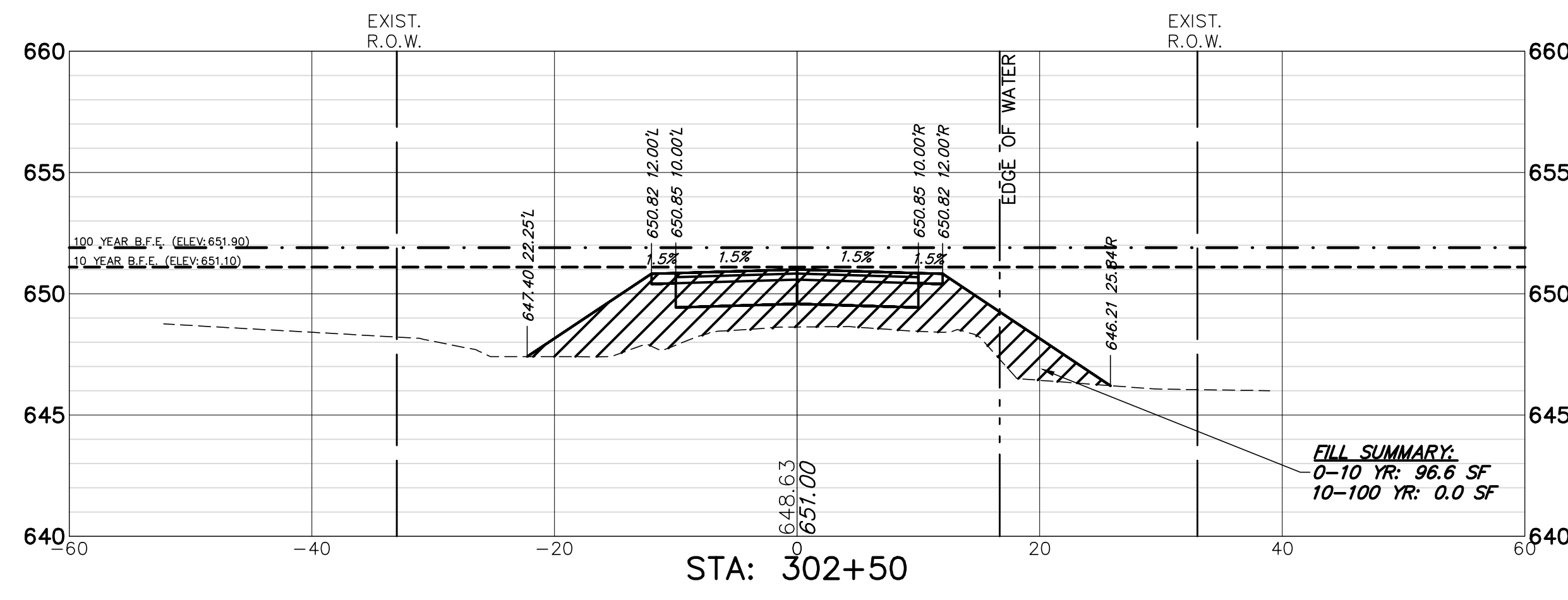
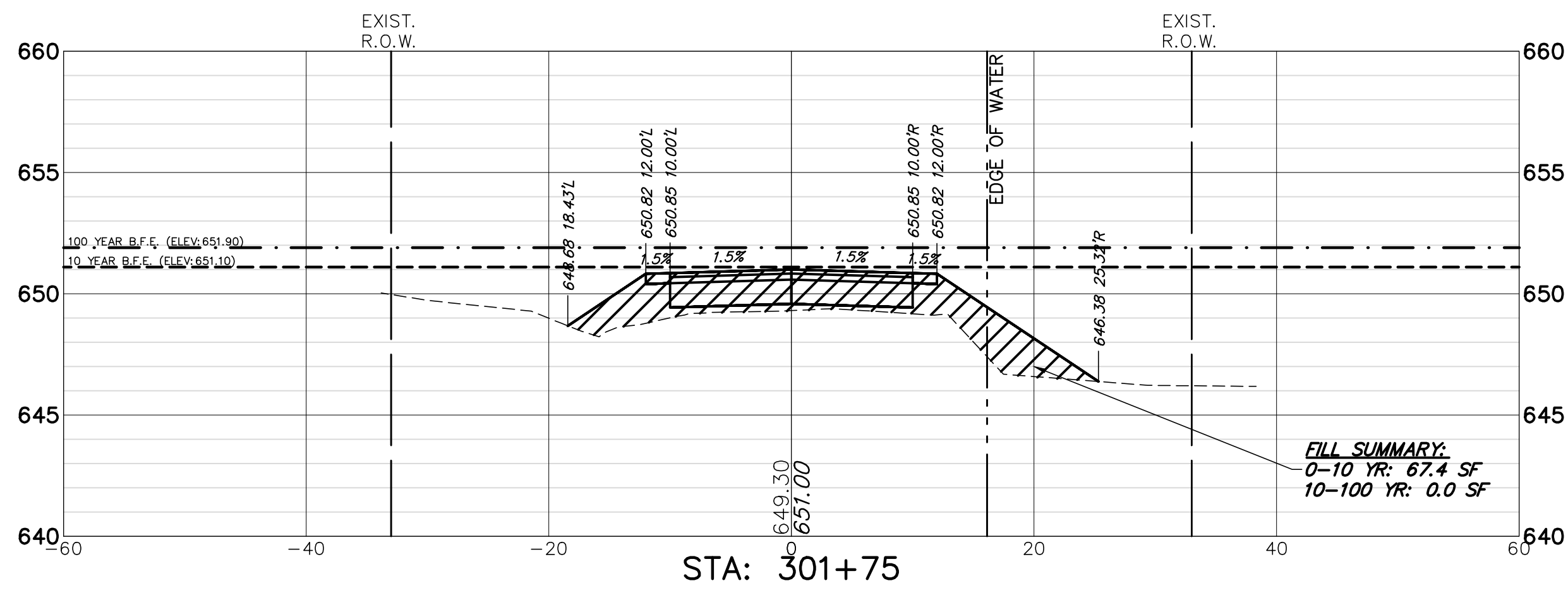
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CROSS SECTIONS (STA. 300+00 TO 301+25)
OWEN COURT FLOOD CONTROL
CITY OF PROSPECT HEIGHTS
PROSPECT HEIGHTS, ILLINOIS

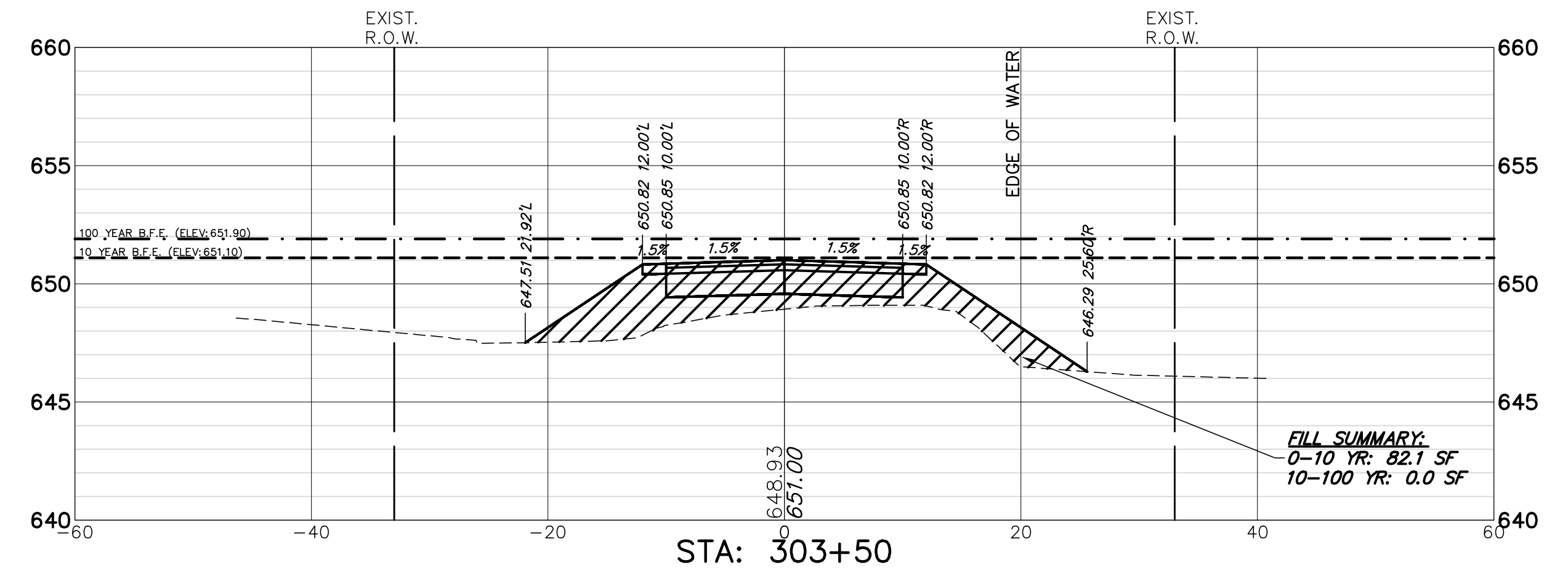
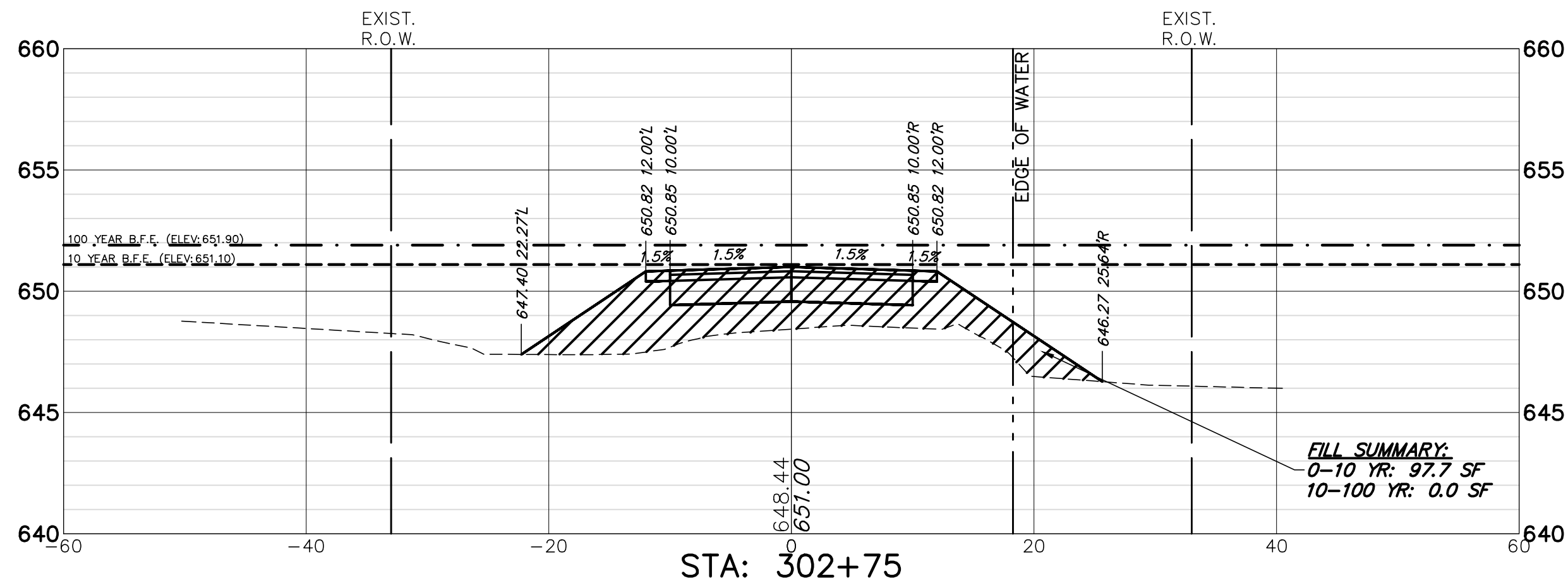
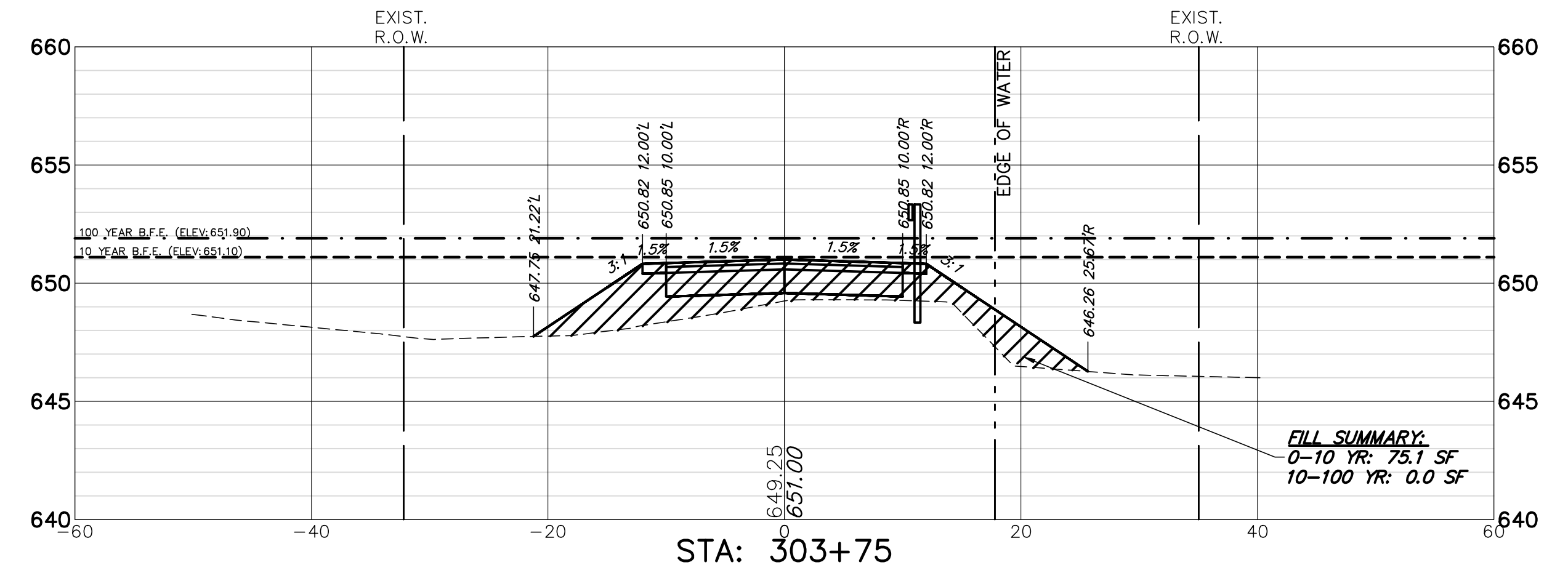
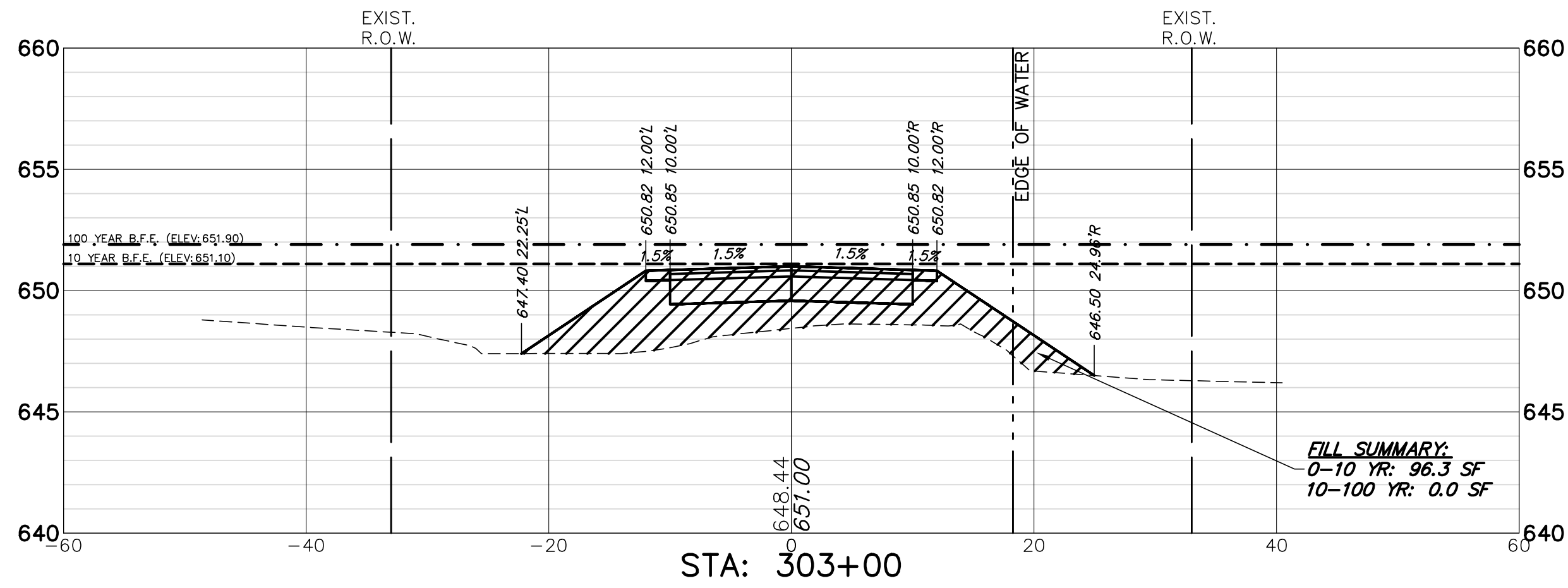
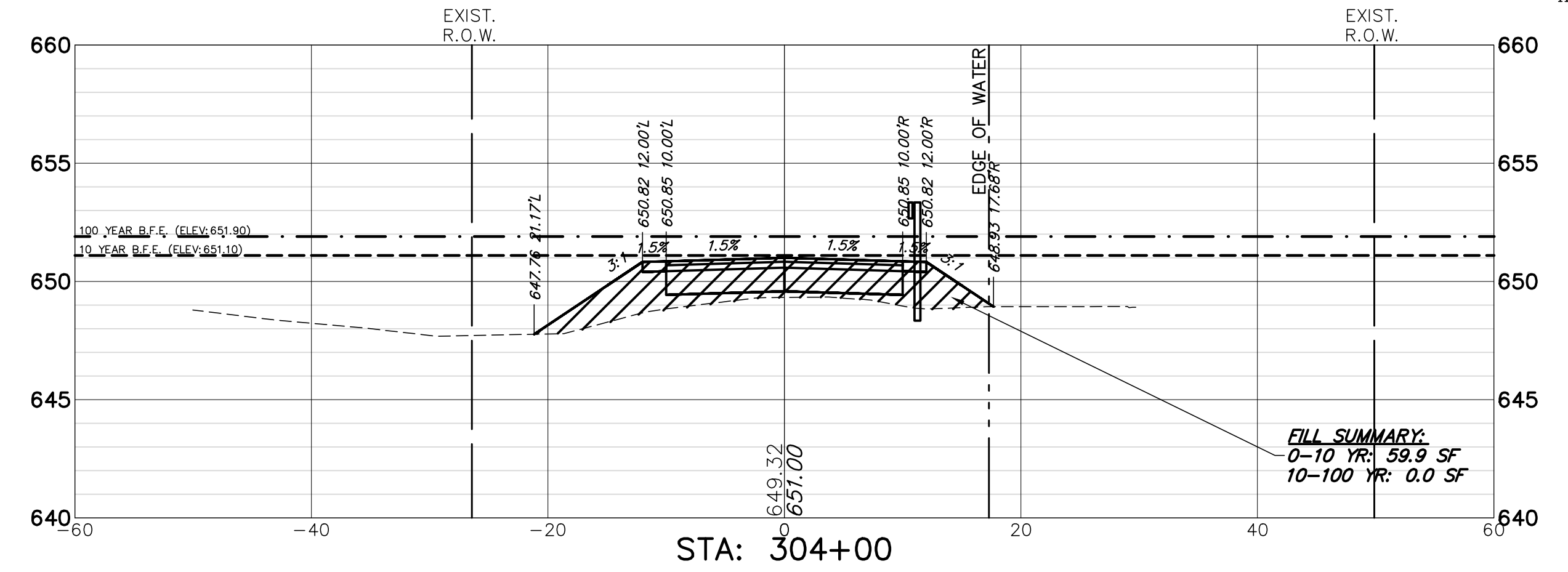
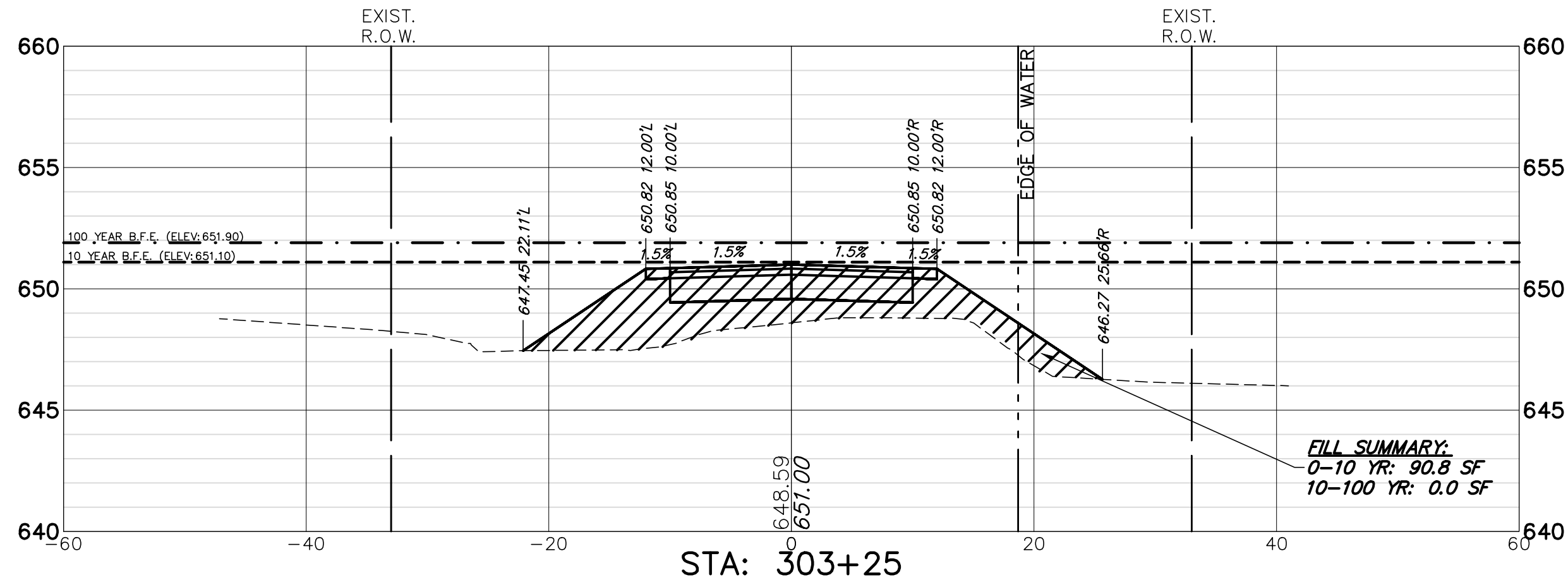
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 SHEET NUMBER: **16**
 OF 33 SHEETS



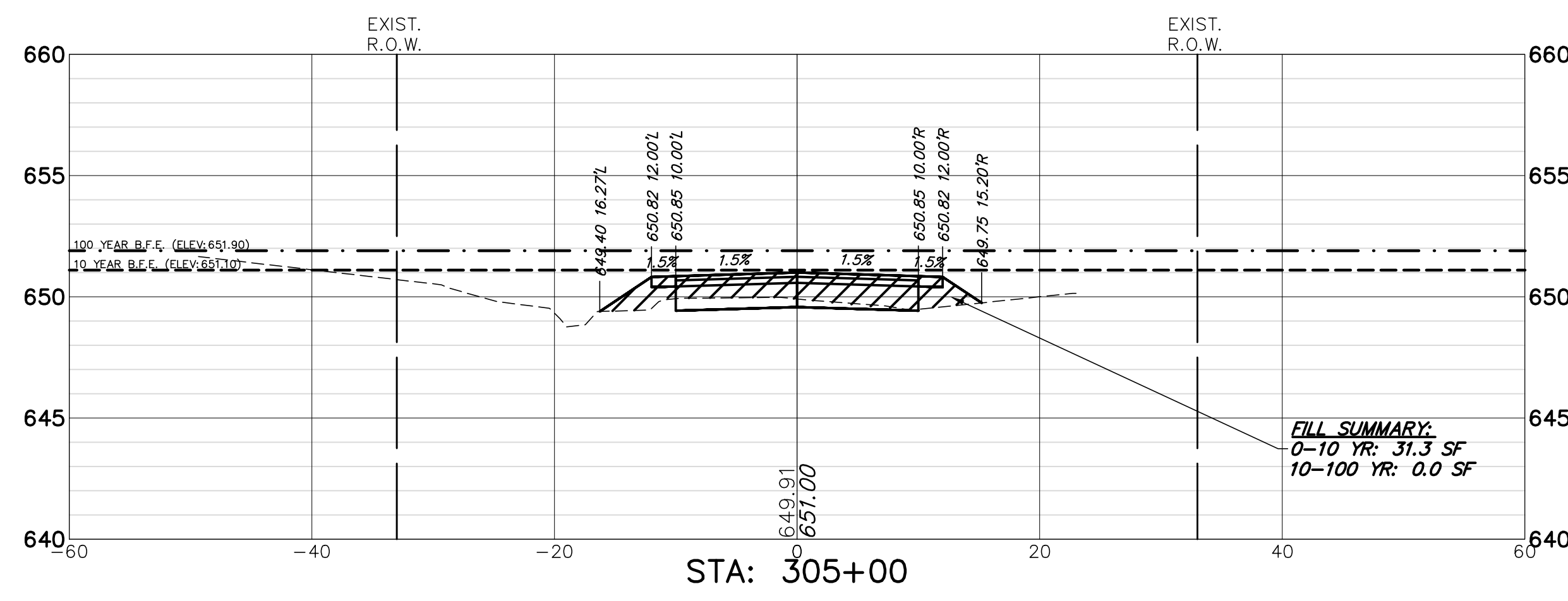
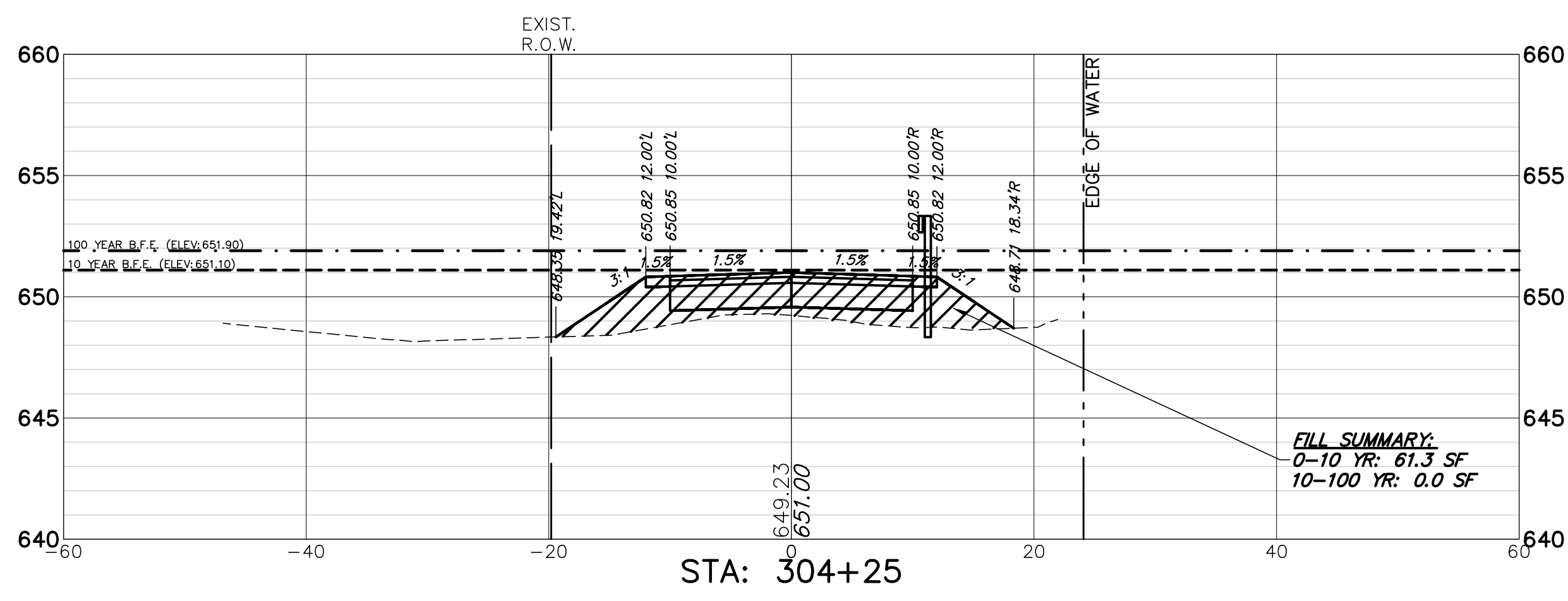
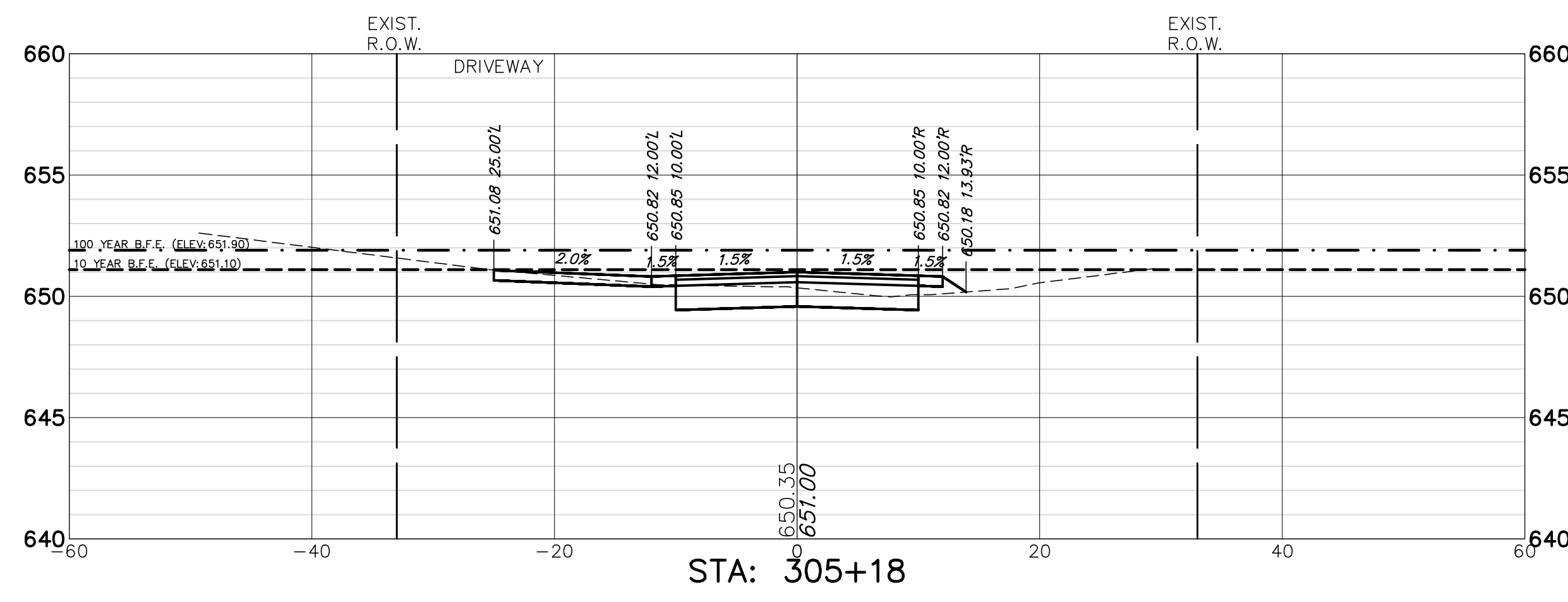
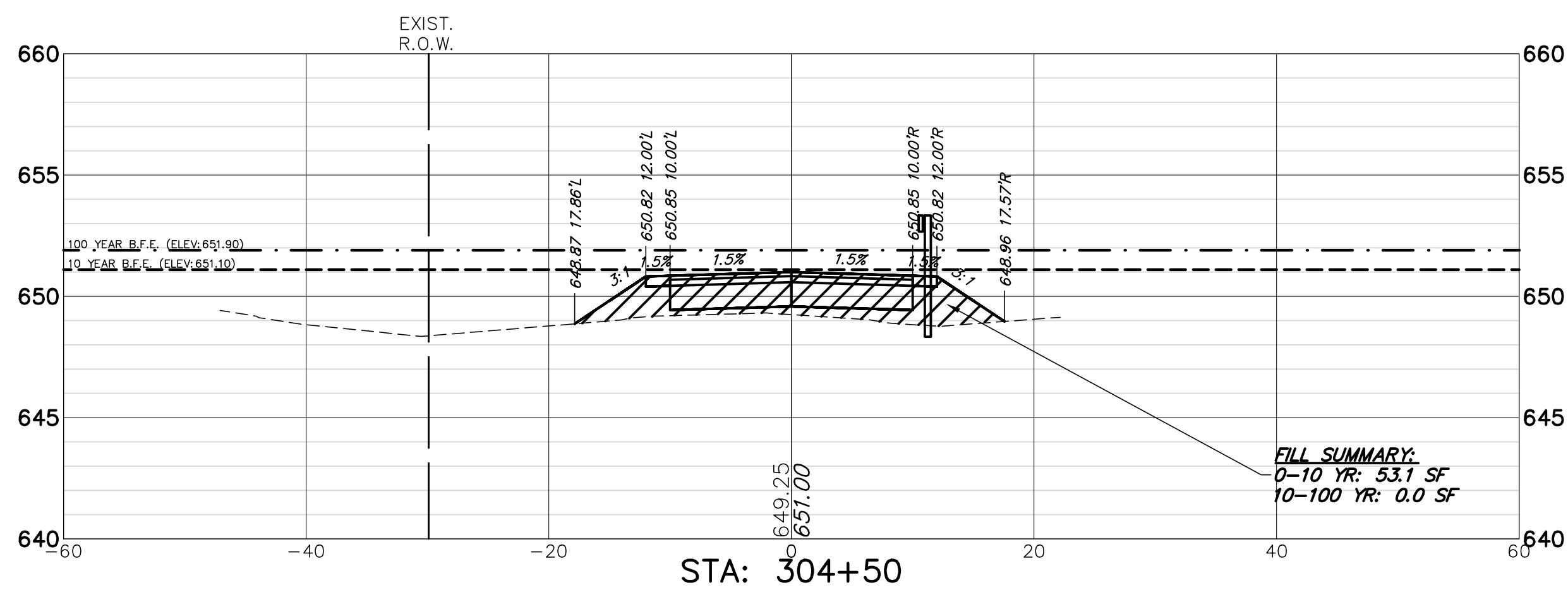
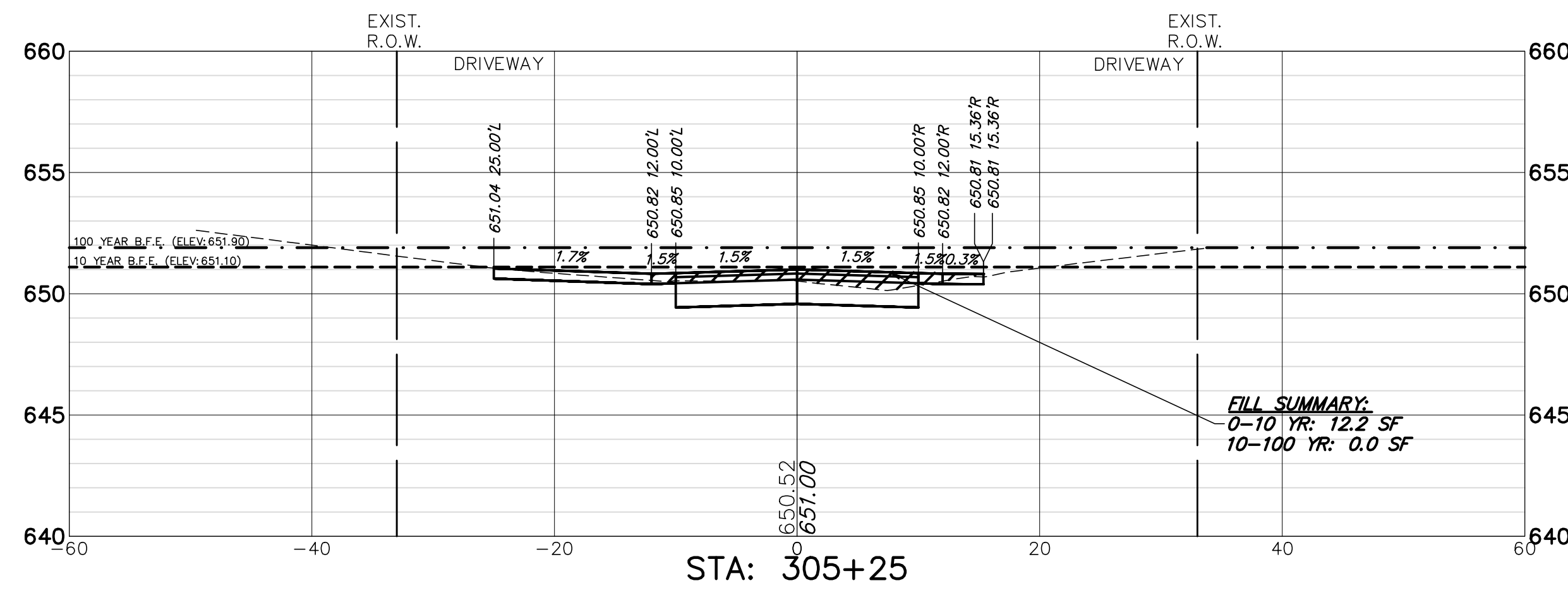
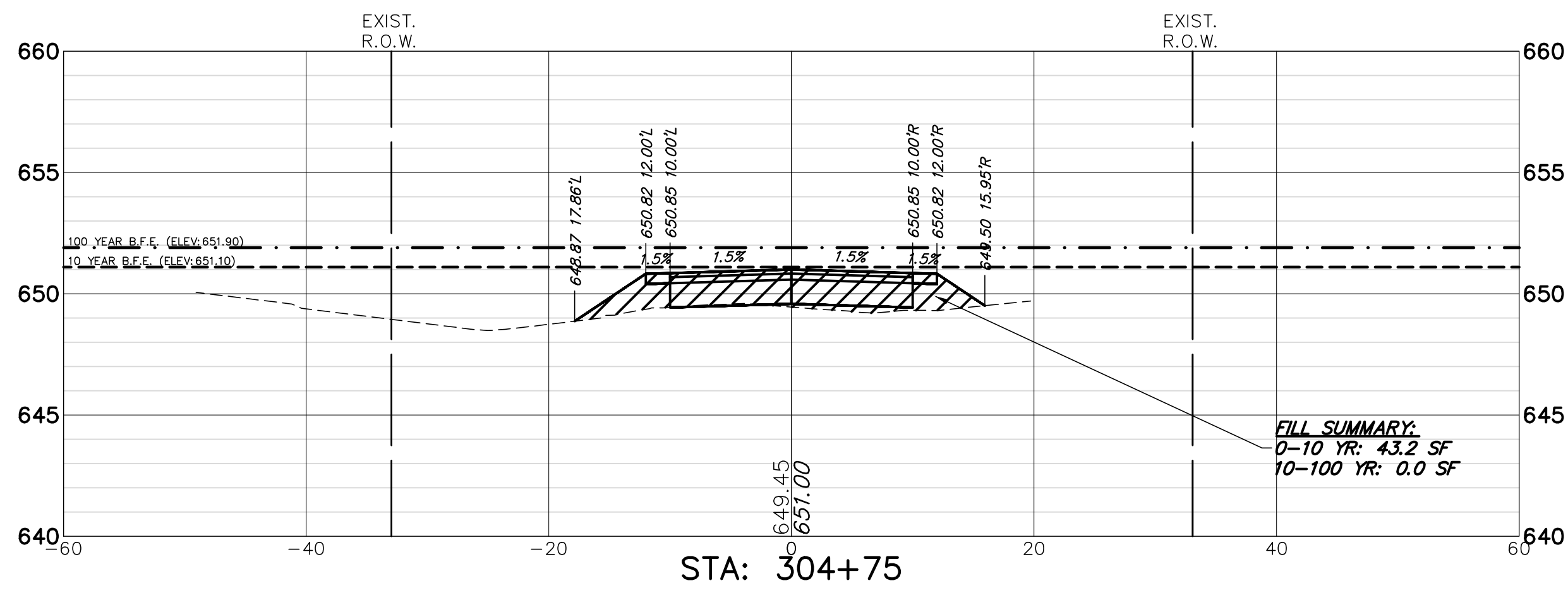
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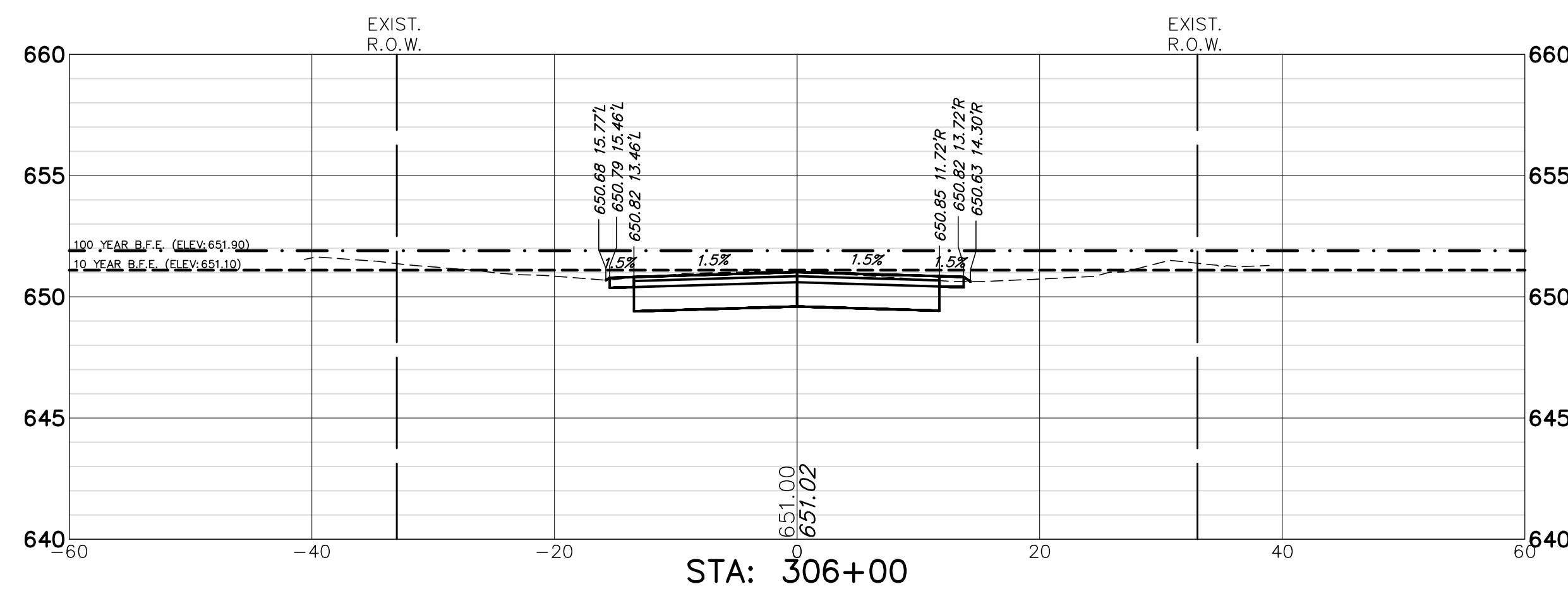
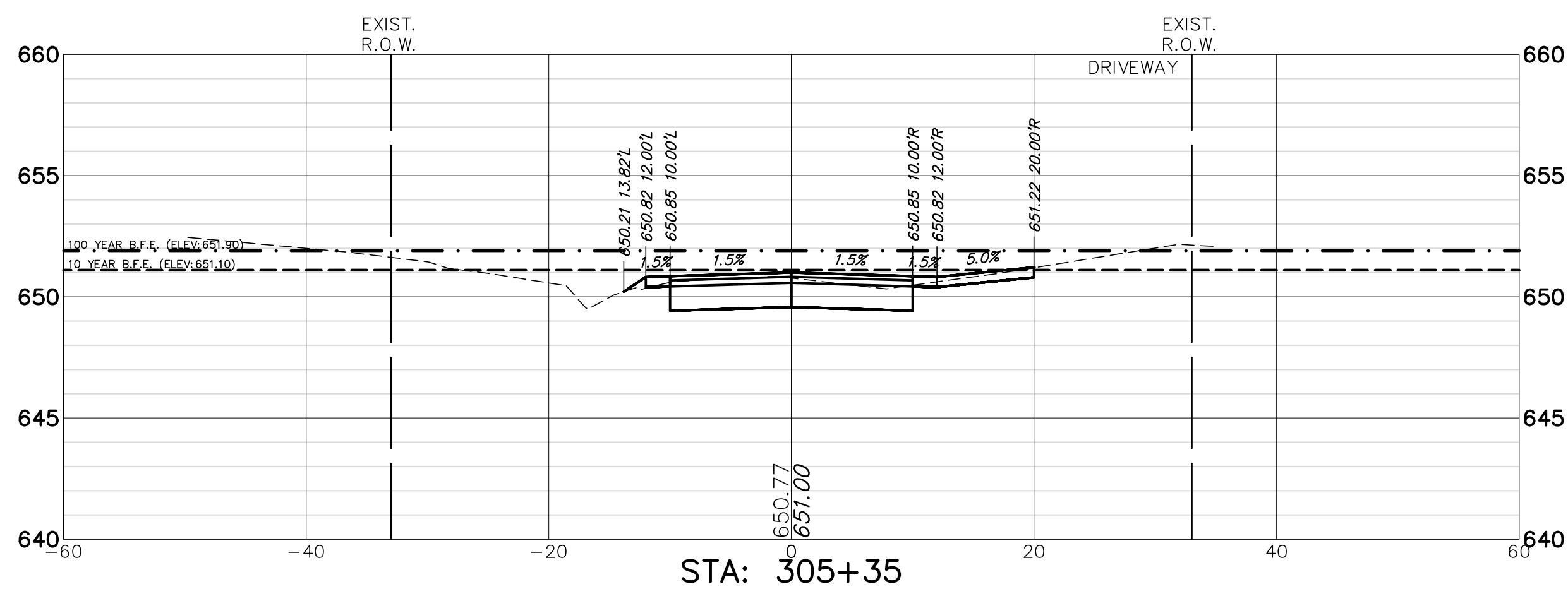
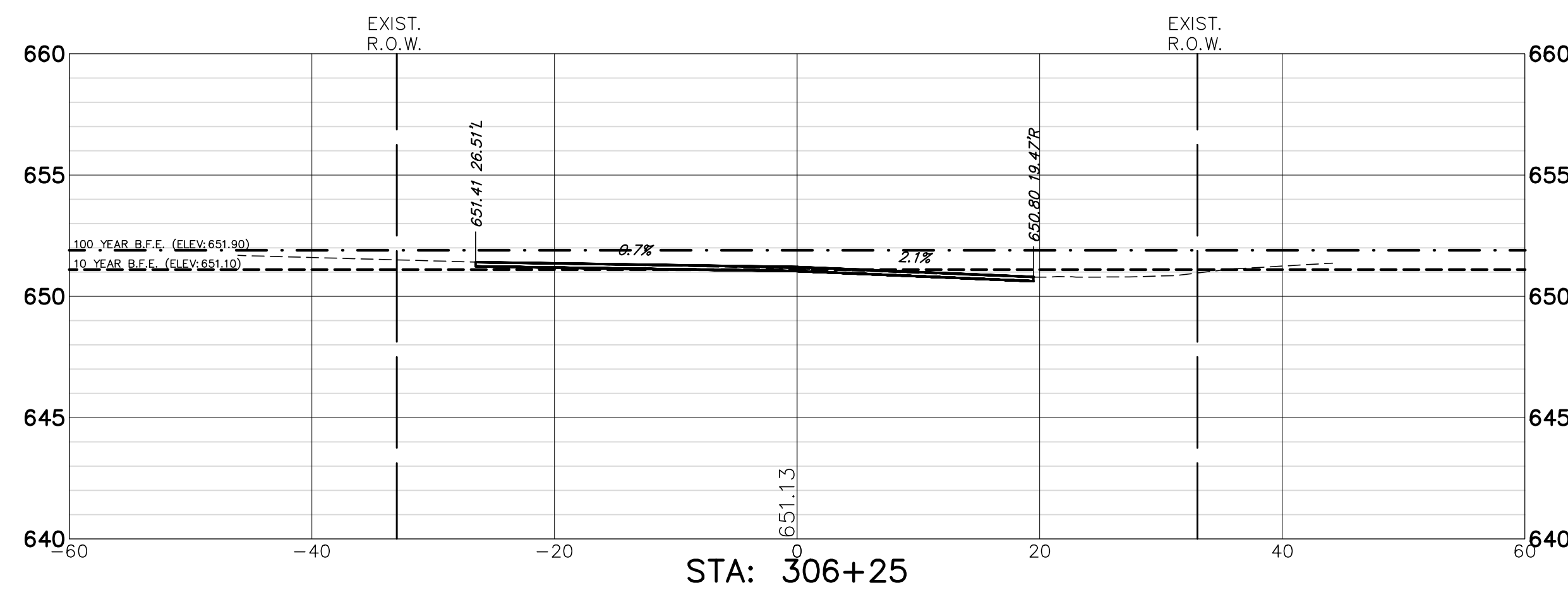
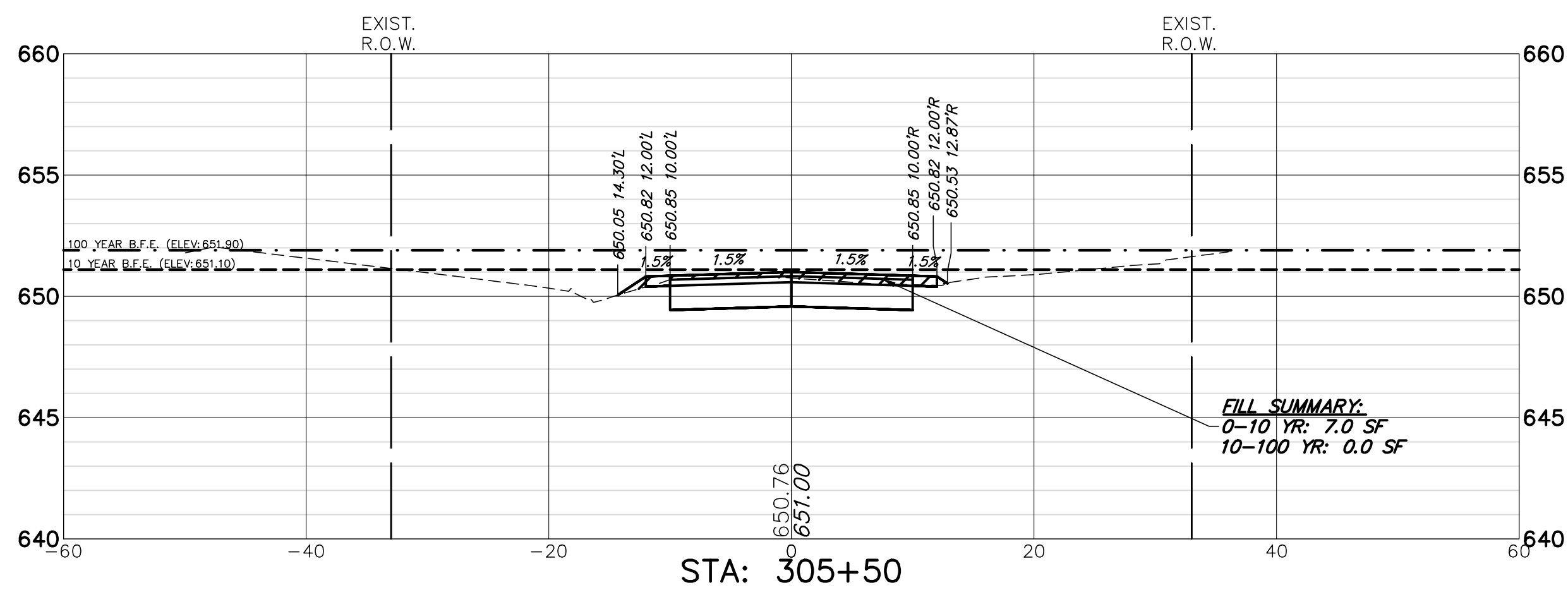
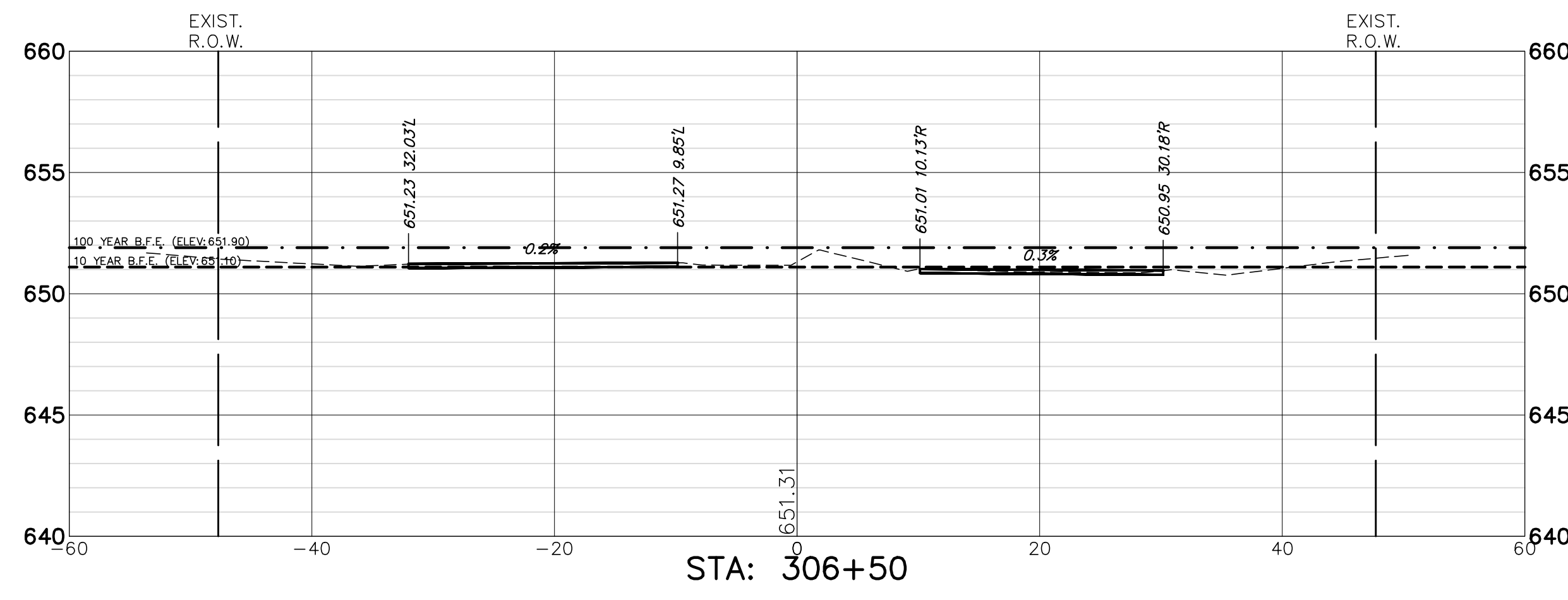
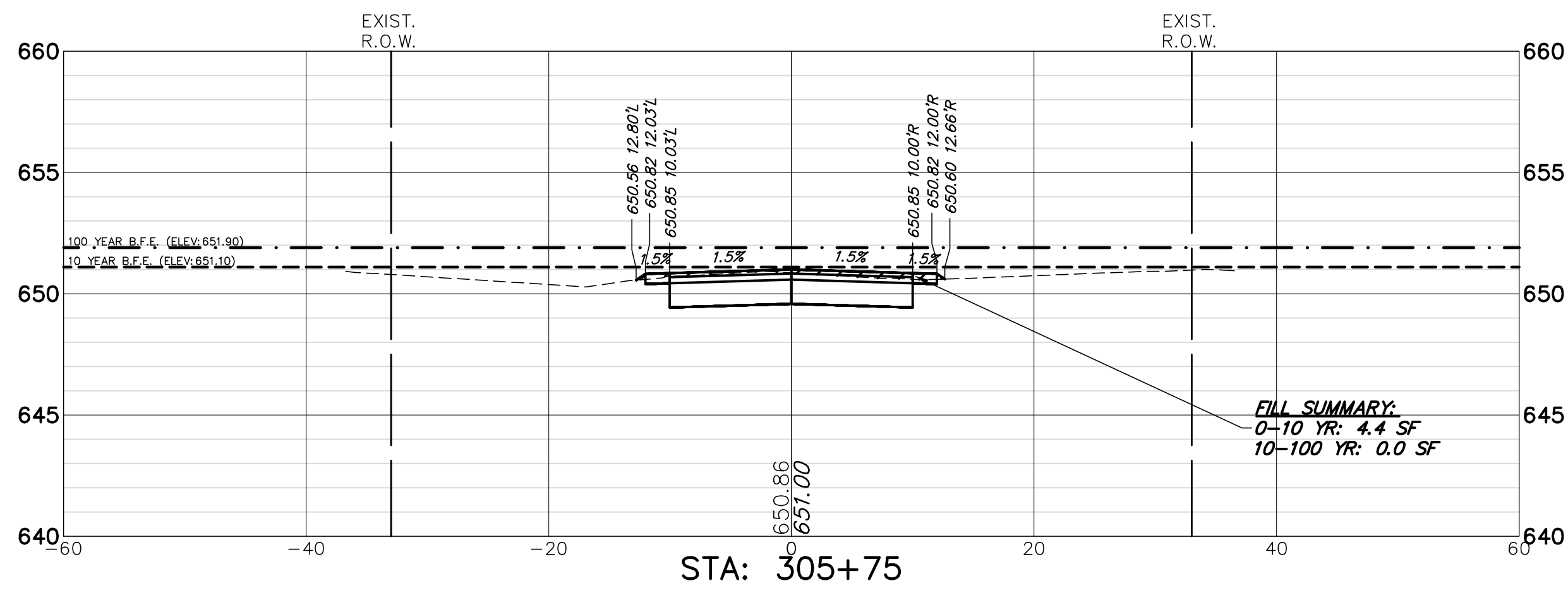


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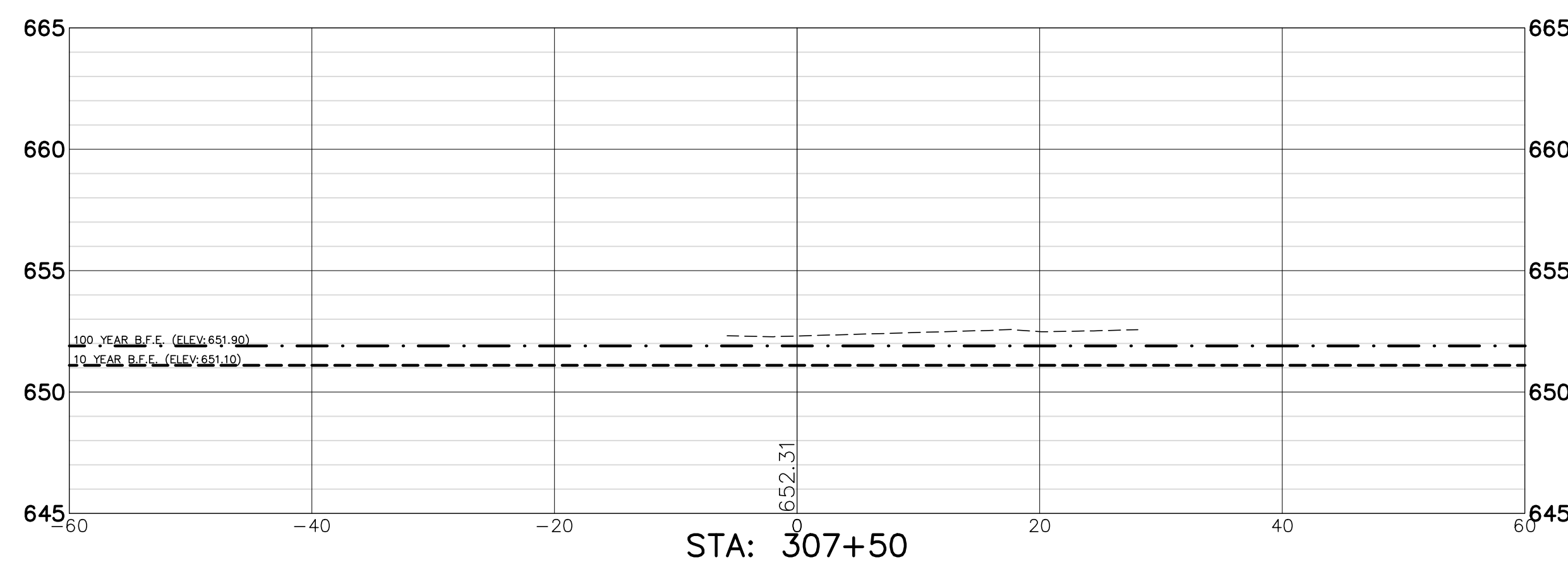
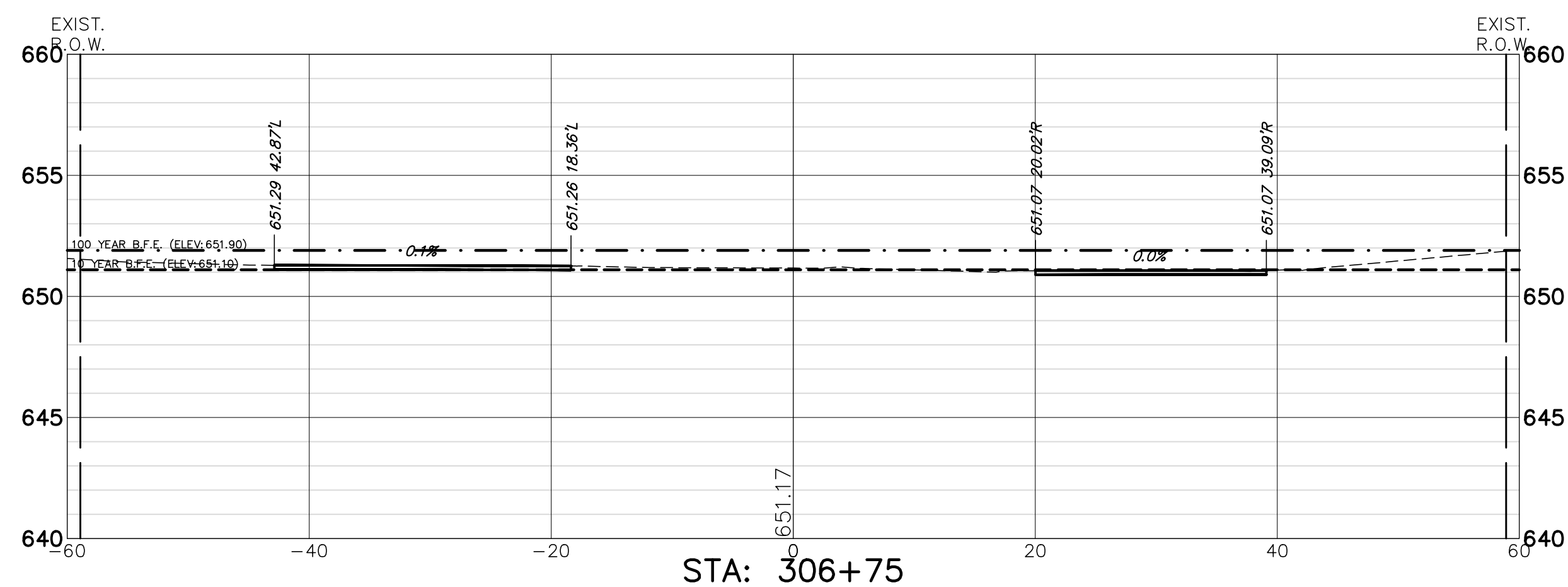
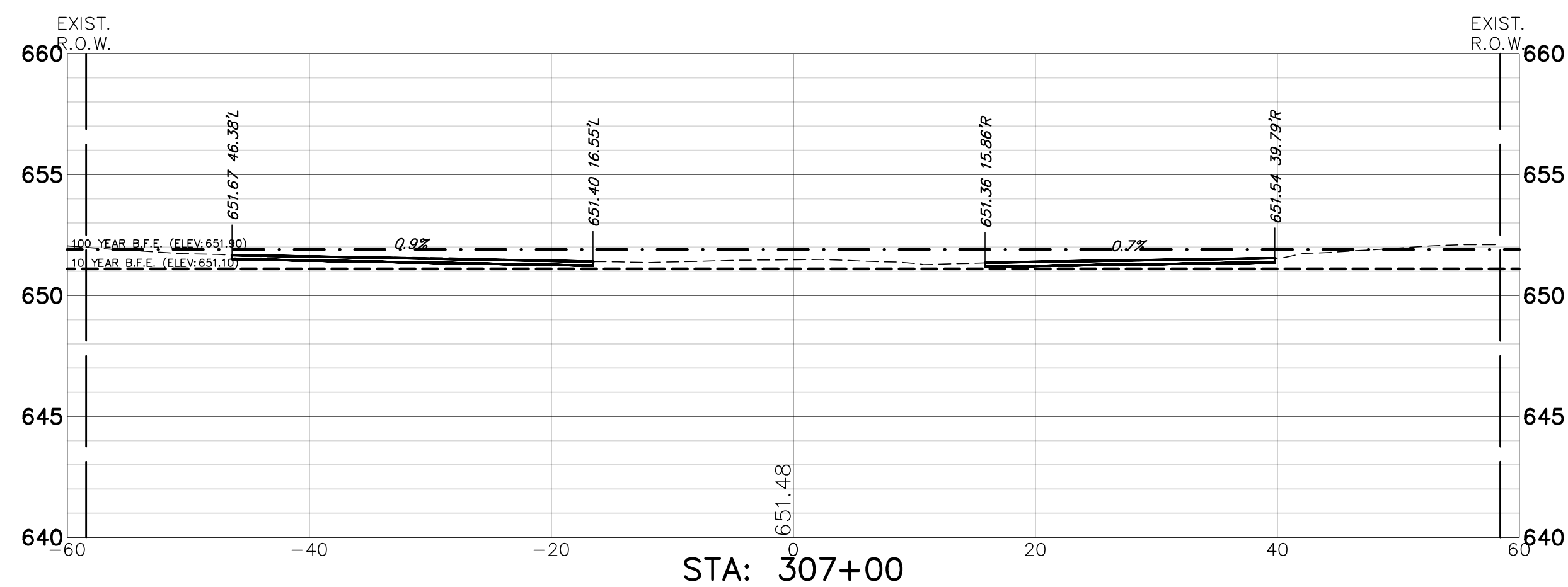
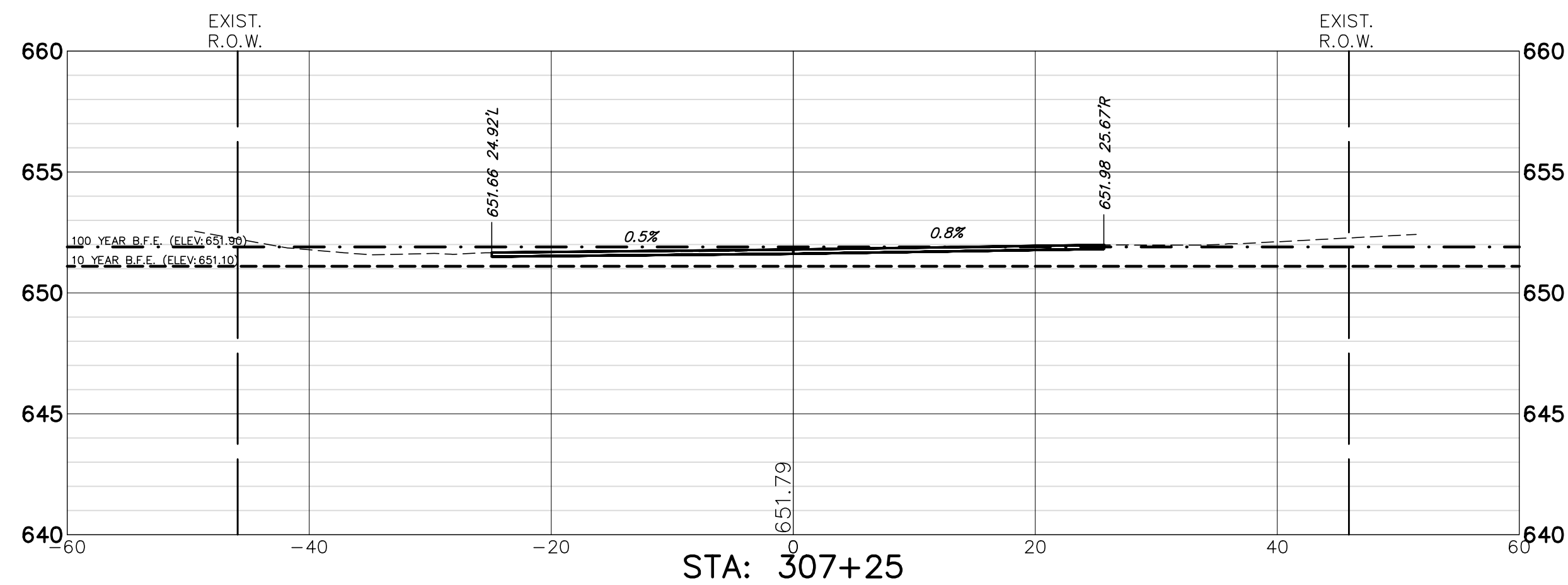
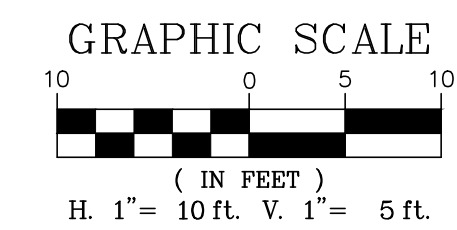
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DATE 02.06.25	CHECKED BY: DJS	SCALE AS NOTED
DATE 02.06.25		



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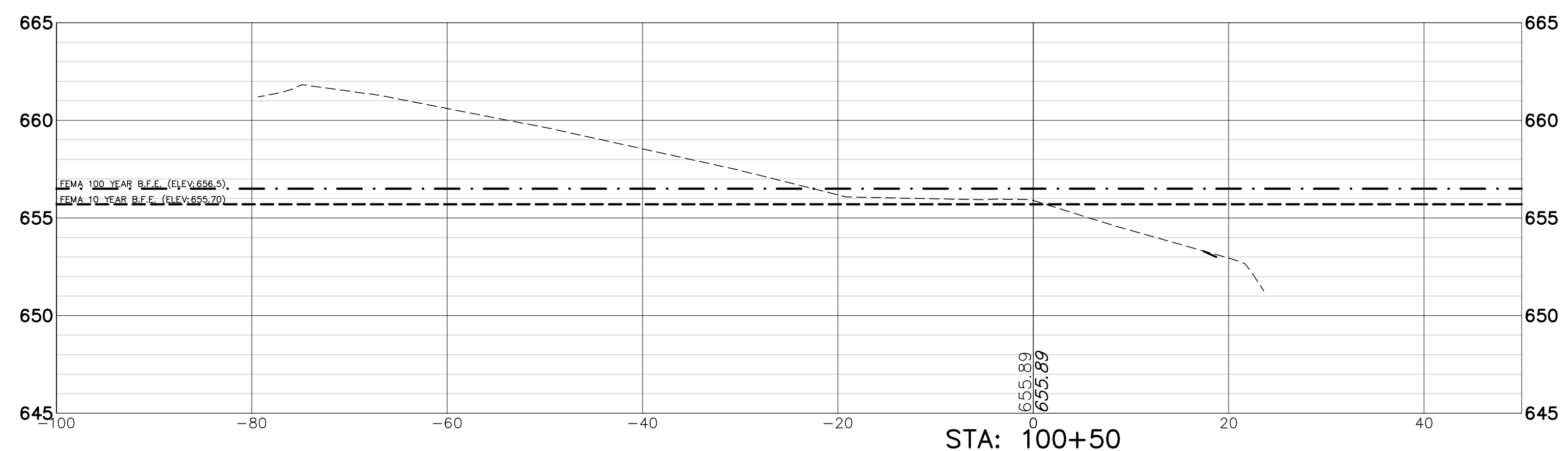
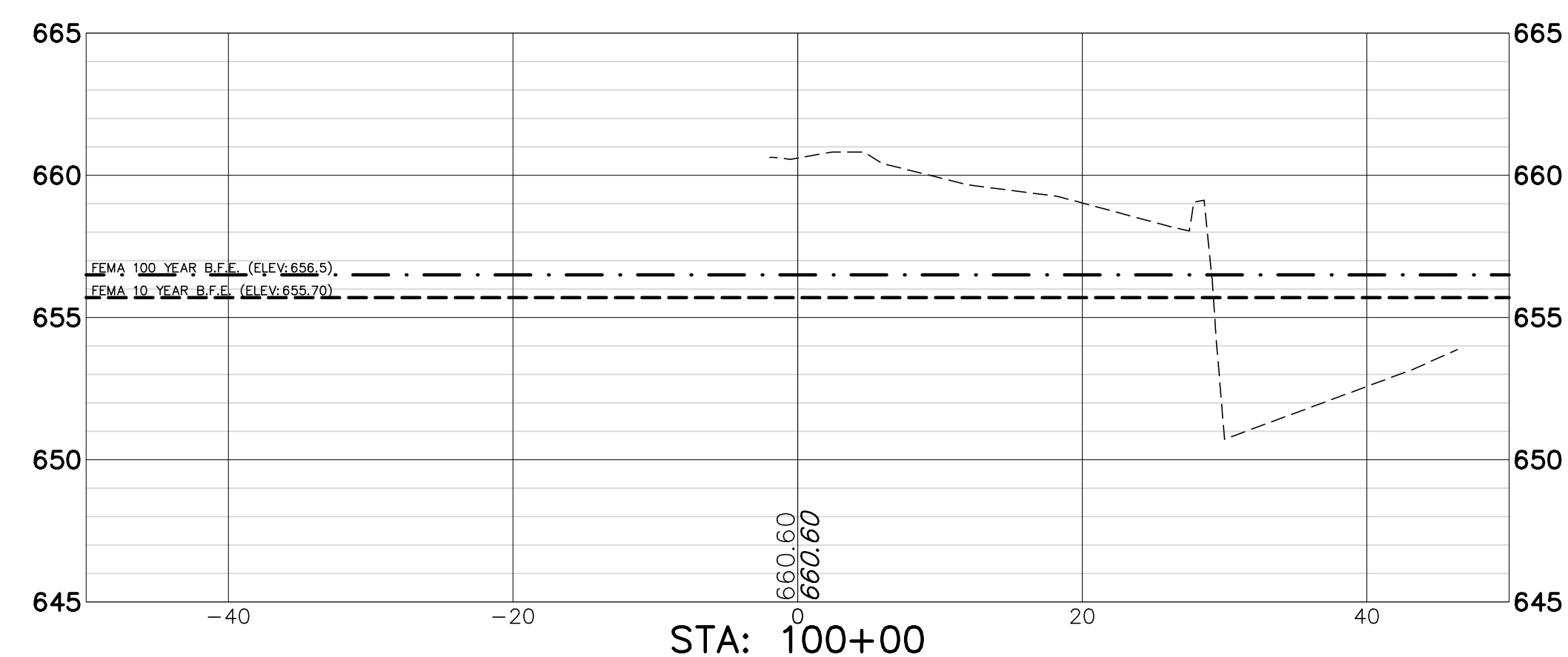
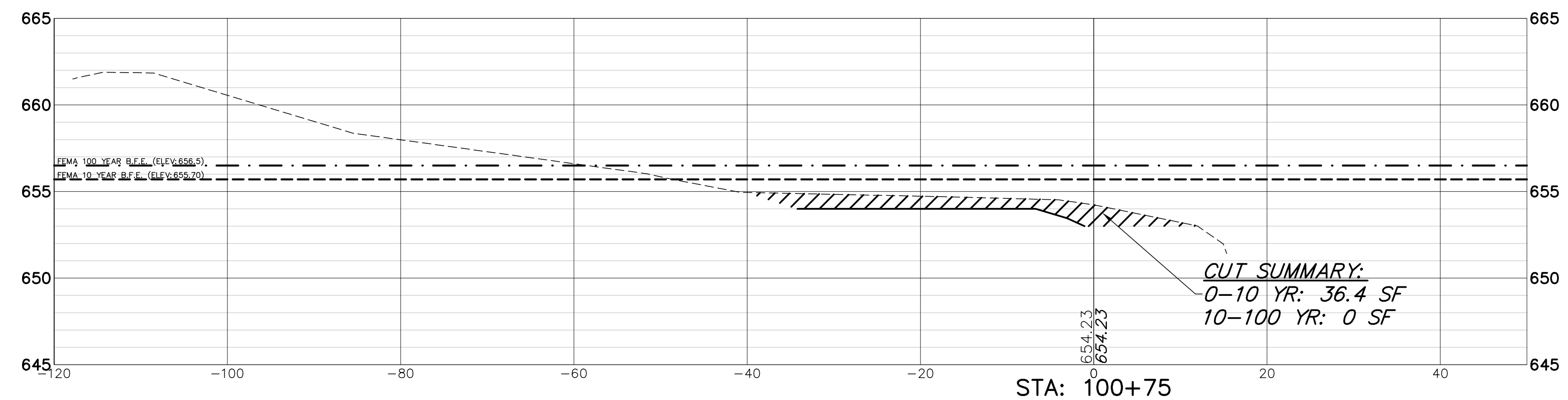
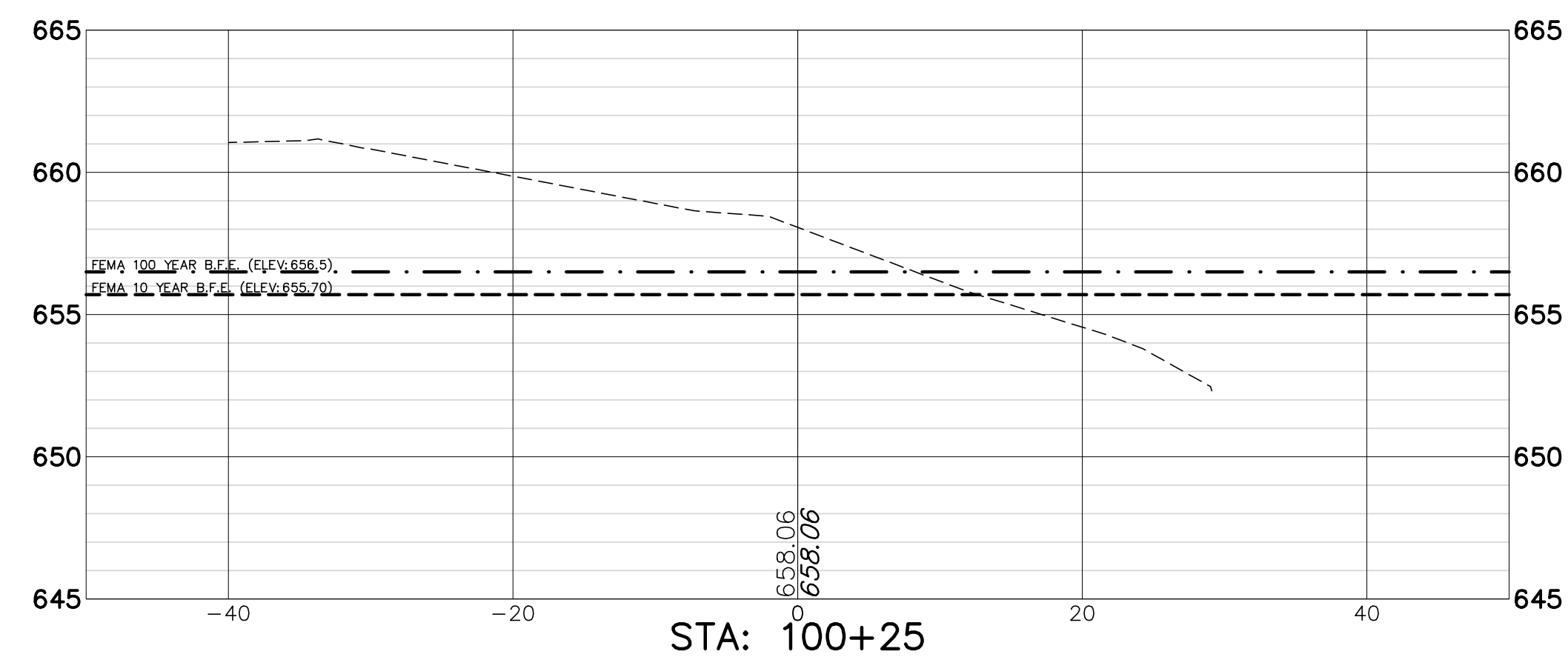
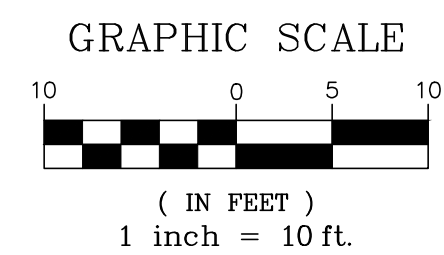
CROSS SECTIONS (STA. 306+75 TO 307+50)

**OWEN COURT FLOOD CONTROL
 CITY OF PROSPECT HEIGHTS
 PROSPECT HEIGHTS, ILLINOIS**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE	4755.077-PR4-Owen.dwg
DRAWN BY:	WR
DATE:	02.06.25
GHA PROJECT #	4755.077
CHECKED BY:	DJS
DATE:	02.06.25
SCALE:	AS NOTED

SHEET NUMBER:
21
 OF 33 SHEETS



COMPENSATORY STORAGE AREA

CROSS SECTIONS STA. 100+00 - 100+75

**OWEN COURT FLOOD CONTROL
 CITY OF PROSPECT HEIGHTS
 PROSPECT HEIGHTS, ILLINOIS**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

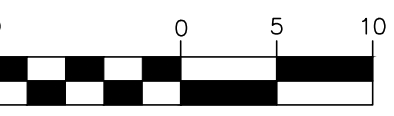
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DRAWN BY: WR	GHA PROJECT #
DATE: 02.06.25	4755.077
CHECKED BY: DJS	SCALE:
DATE: 02.06.25	1"=10'

22
 OF 33 SHEETS

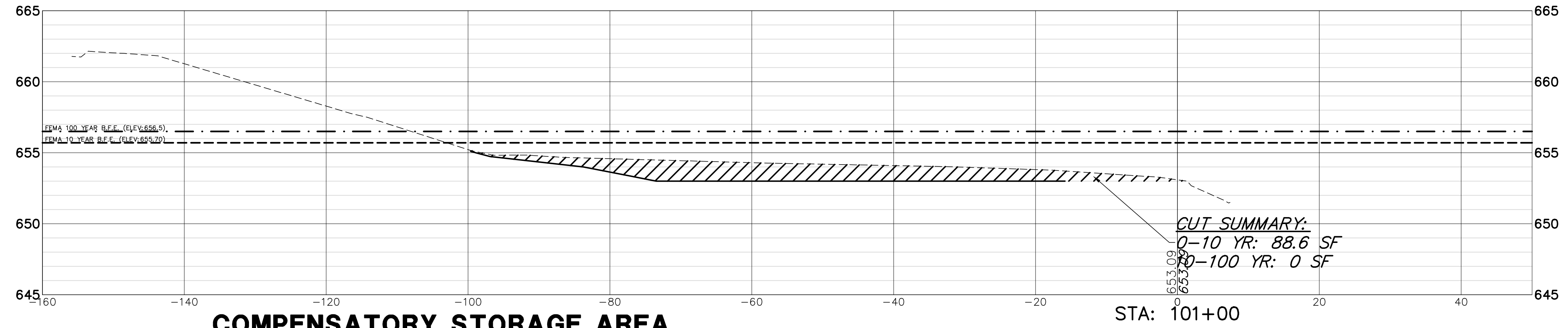
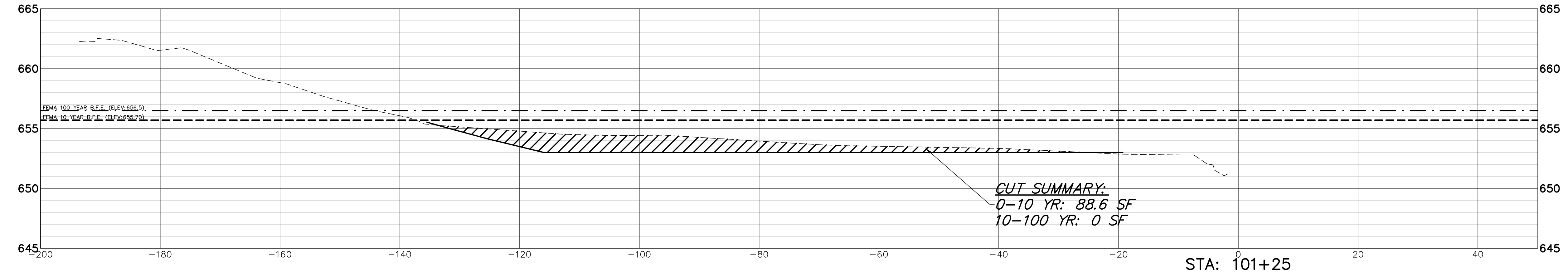
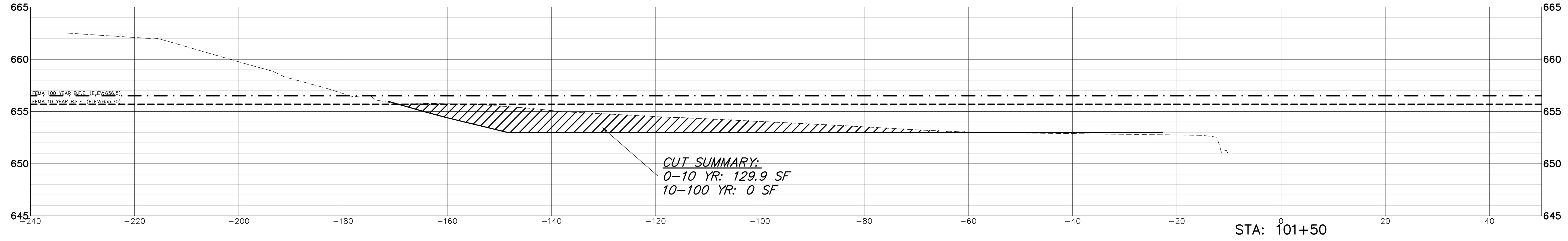
GHA GEWALT HAMILTON ASSOCIATES, INC.
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(IN FEET)
1 inch = 10 ft.



COMPENSATORY STORAGE AREA

CROSS SECTIONS STA. 101+00 - 101+50

**OWEN COURT FLOOD CONTROL
CITY OF PROSPECT HEIGHTS
PROSPECT HEIGHTS, ILLINOIS**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

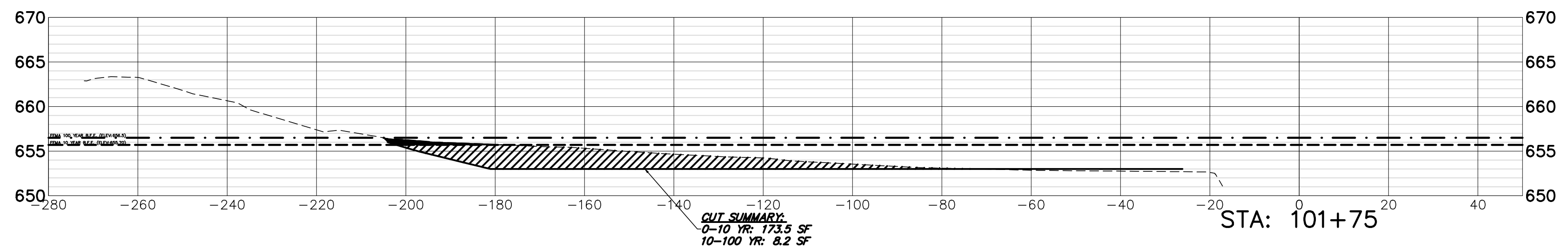
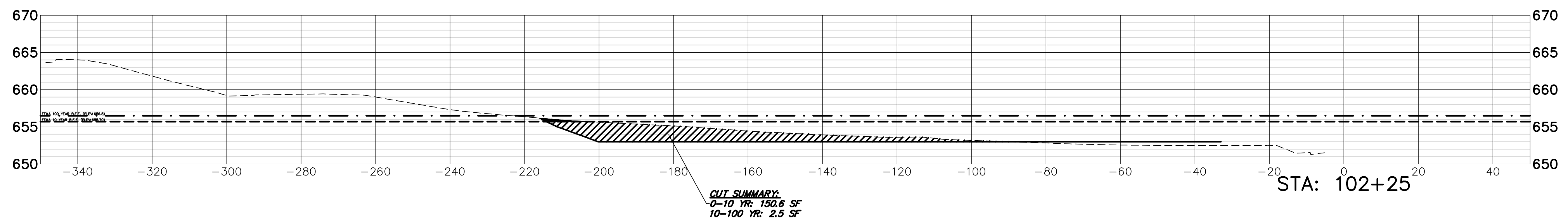
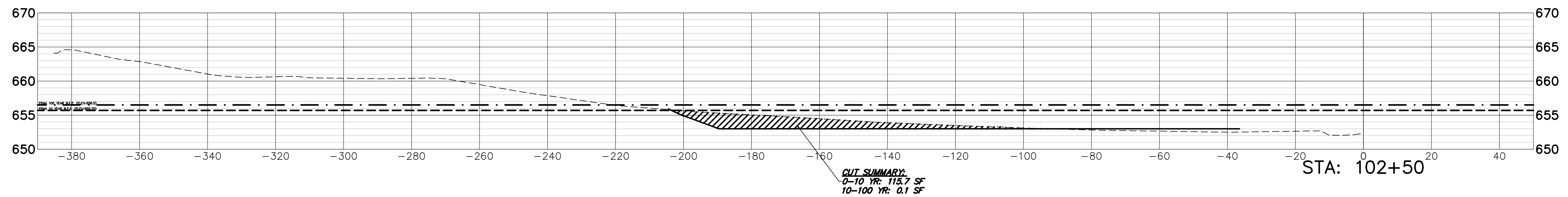
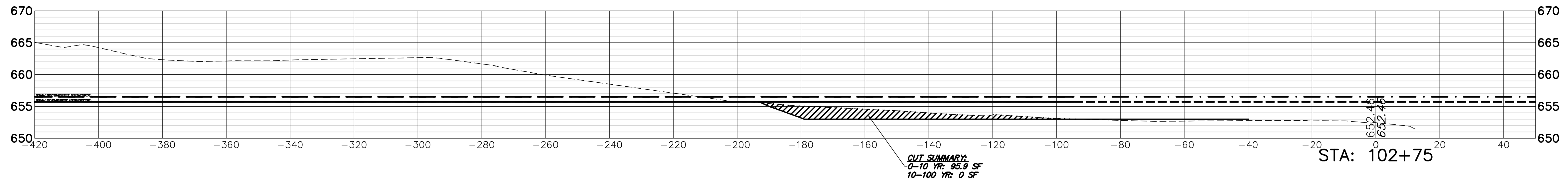
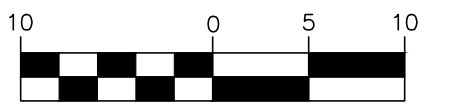
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DRAWN BY: WR	GHA PROJECT #
DATE 02.06.25	4755.077
CHECKED BY: DJS	SCALE
DATE 02.06.25	1"=10'

23
OF 33 SHEETS

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COMPENSATORY STORAGE AREA

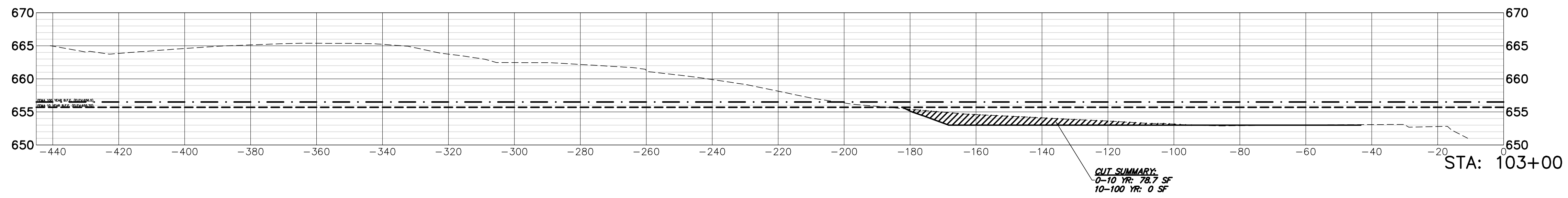
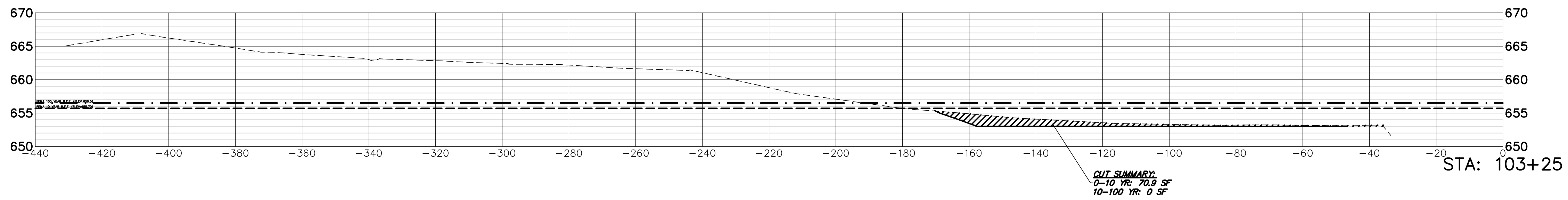
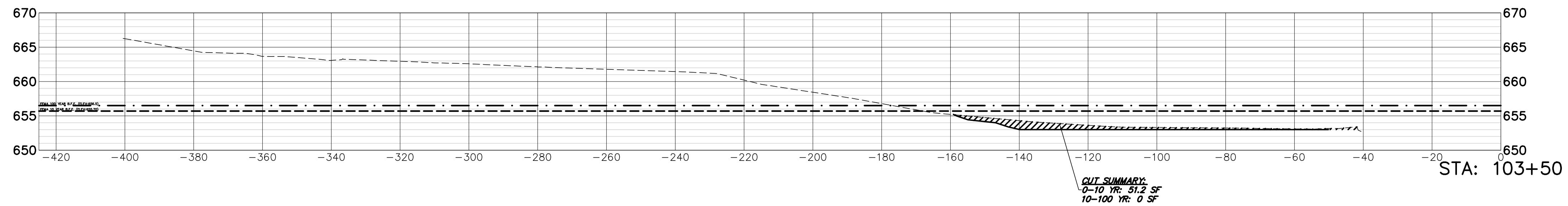
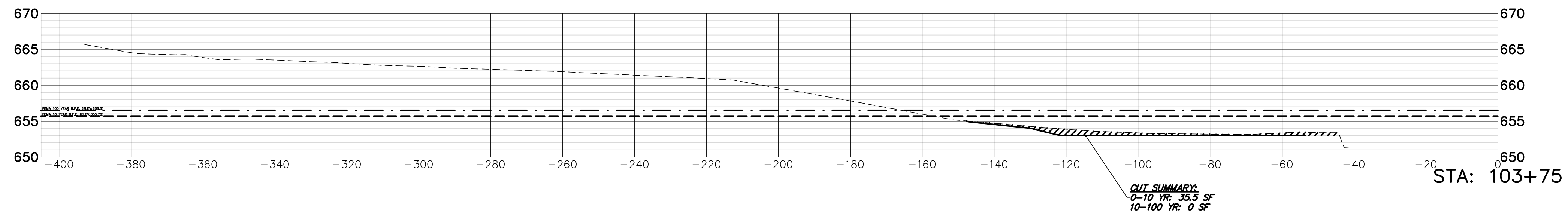
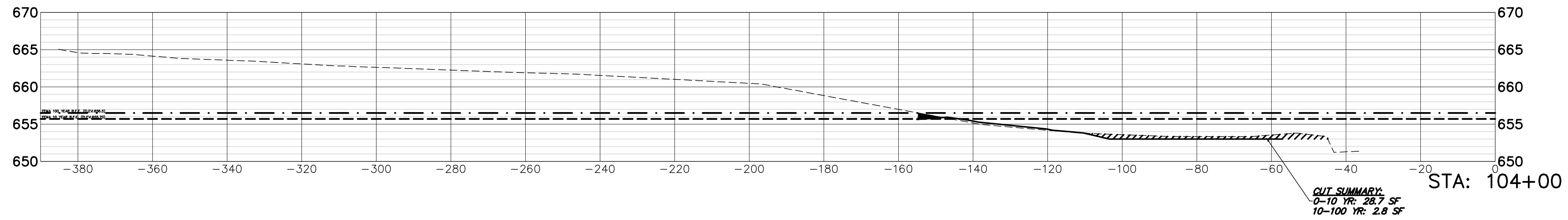
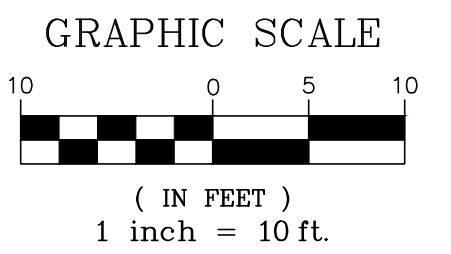
CROSS SECTIONS STA. 101+75 - 102+75

**OWEN COURT FLOOD CONTROL
CITY OF PROSPECT HEIGHTS
PROSPECT HEIGHTS, ILLINOIS**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE 4755.077-PR COMP STORAGE-Owen	SHEET NUMBER:
DRAWN BY: WR	GHA PROJECT #
DATE: 02.06.25	4755.077
CHECKED BY: DJS	SCALE:
DATE: 02.06.25	1"=10'

24
OF 33 SHEETS



COMPENSATORY STORAGE AREA

CROSS SECTIONS STA. 103+00 - 104+00

**OWEN COURT FLOOD CONTROL
 CITY OF PROSPECT HEIGHTS
 PROSPECT HEIGHTS, ILLINOIS**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

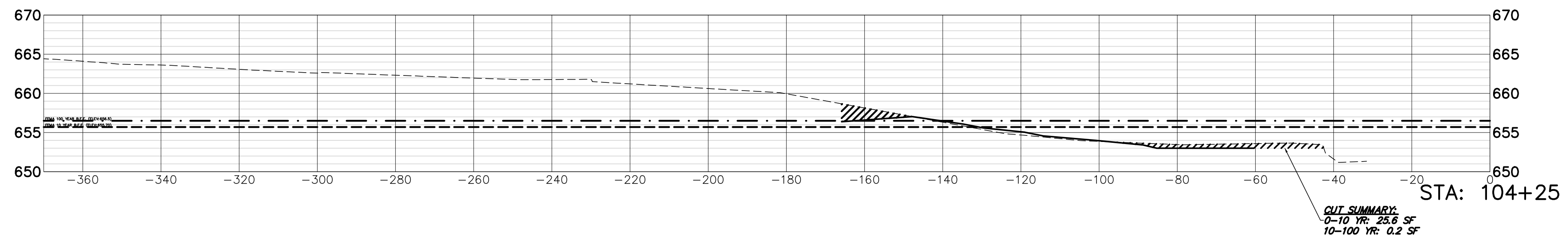
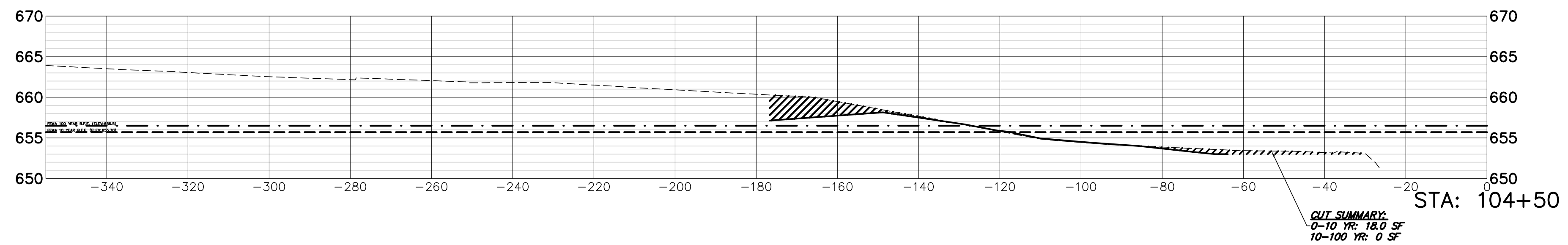
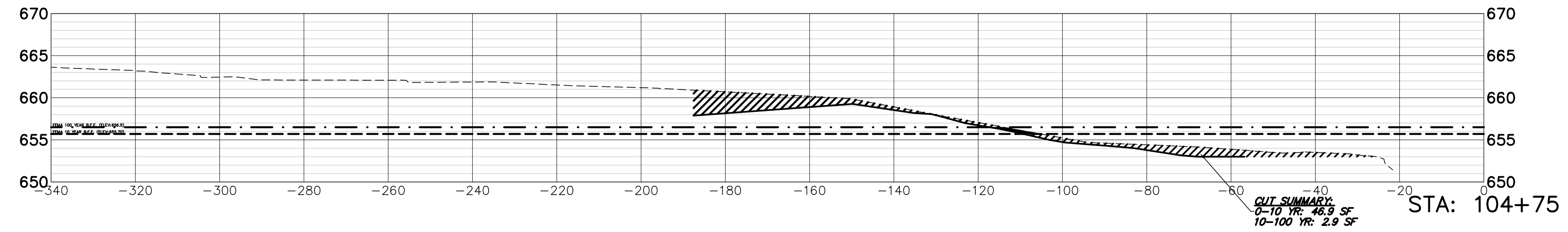
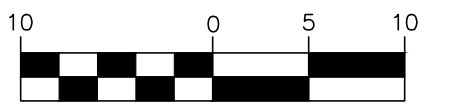
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DRAWN BY: WR	GHA PROJECT #
DATE: 02.06.25	4755.077
CHECKED BY: DJS	SCALE:
DATE: 02.06.25	1"=10'

25
 OF 33 SHEETS

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COMPENSATORY STORAGE AREA

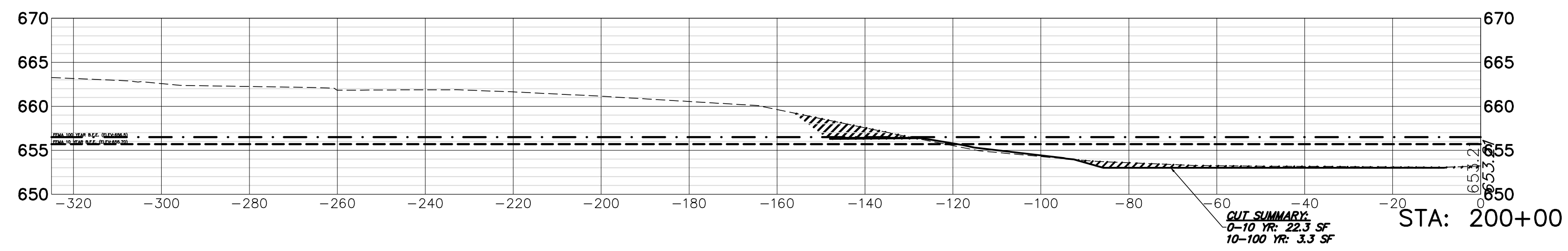
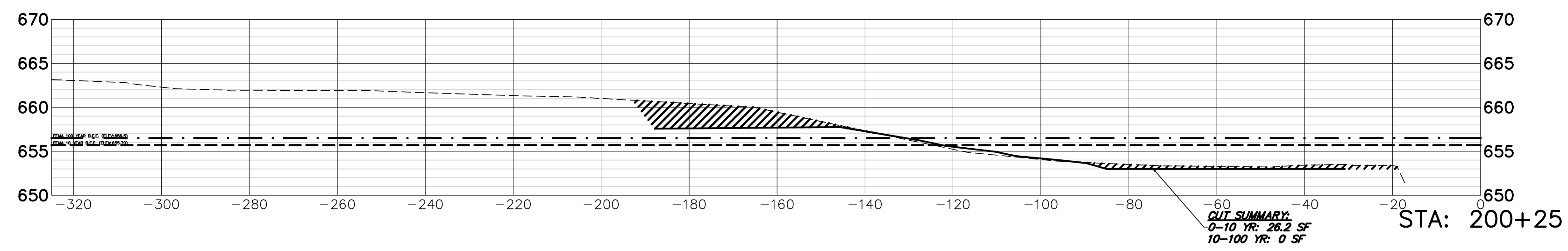
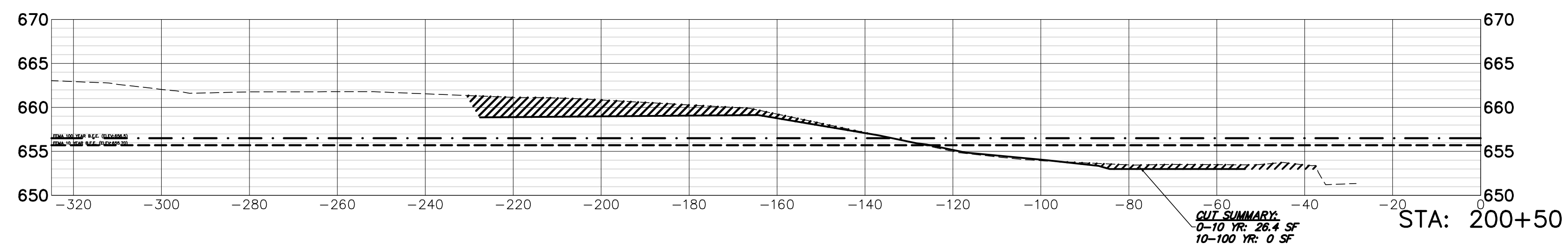
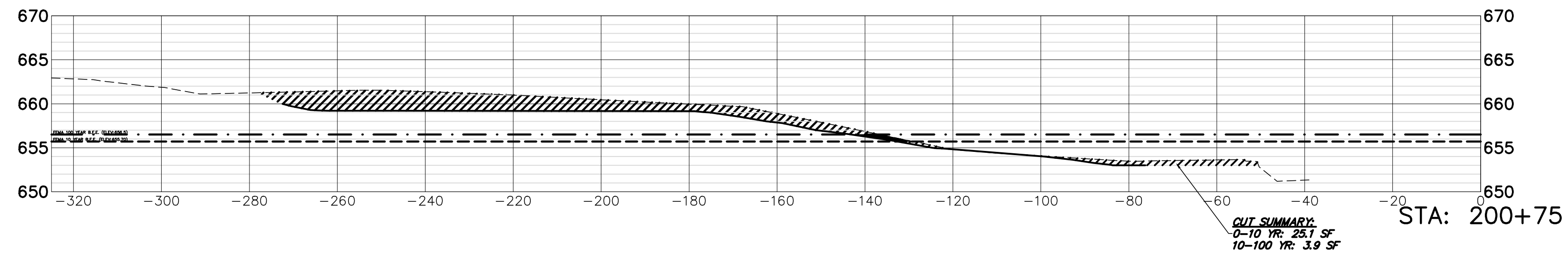
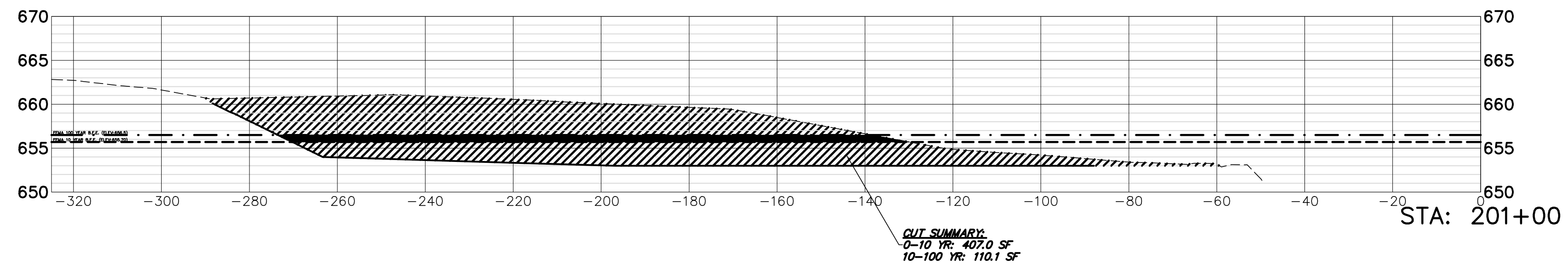
CROSS SECTIONS STA. 104+25 - 104+75

**OWEN COURT FLOOD CONTROL
CITY OF PROSPECT HEIGHTS
PROSPECT HEIGHTS, ILLINOIS**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 4755.077-PR COMP STORAGE-Owen	SHEET NUMBER:
DRAWN BY: WR	GHA PROJECT #
DATE: 02.06.25	4755.077
CHECKED BY: DJS	SCALE:
DATE: 02.06.25	1"=10'

26
OF 33 SHEETS

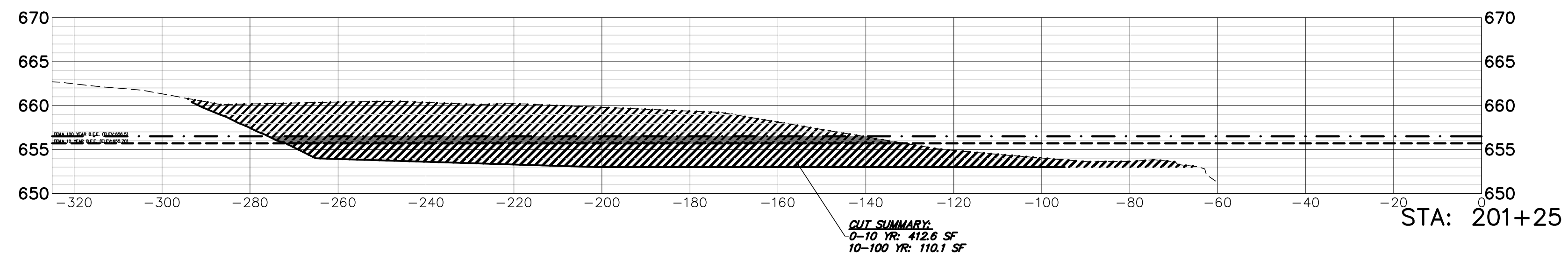
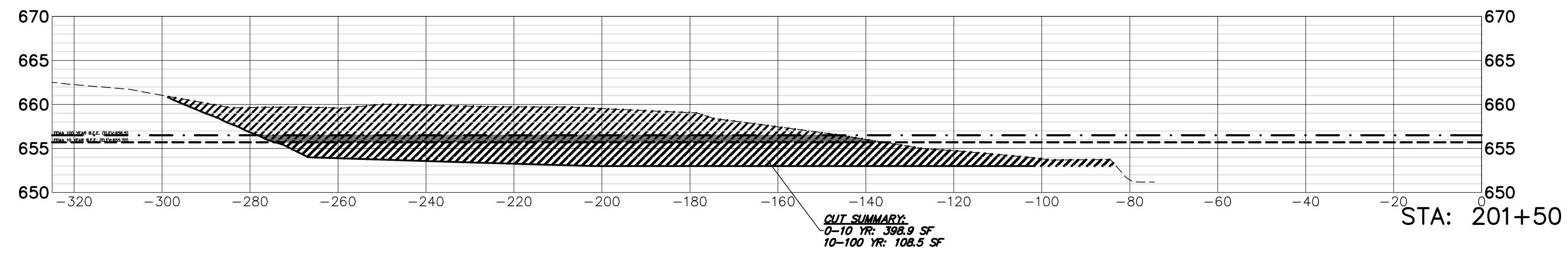
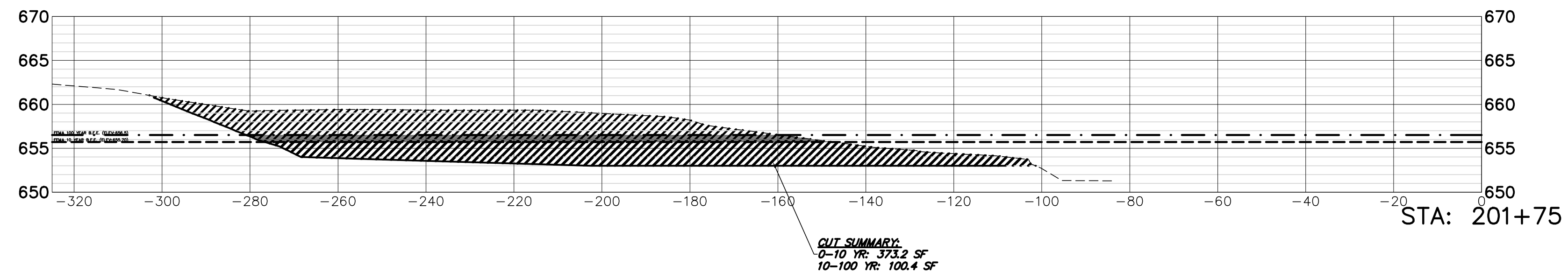
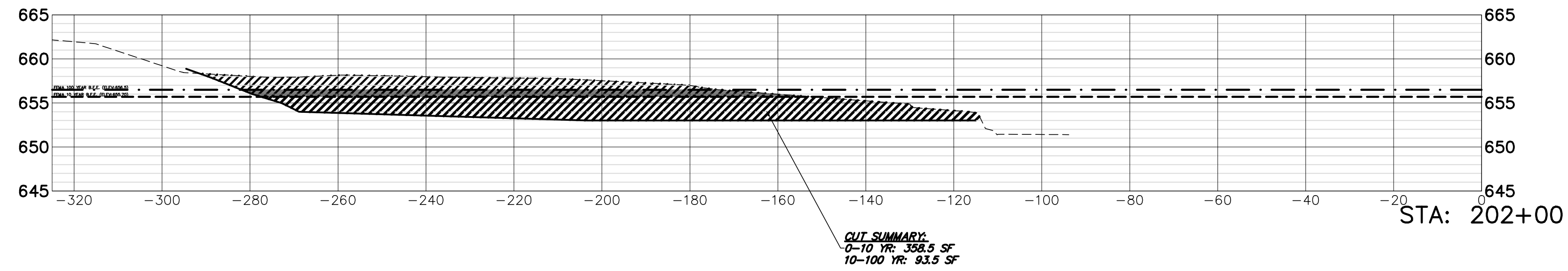
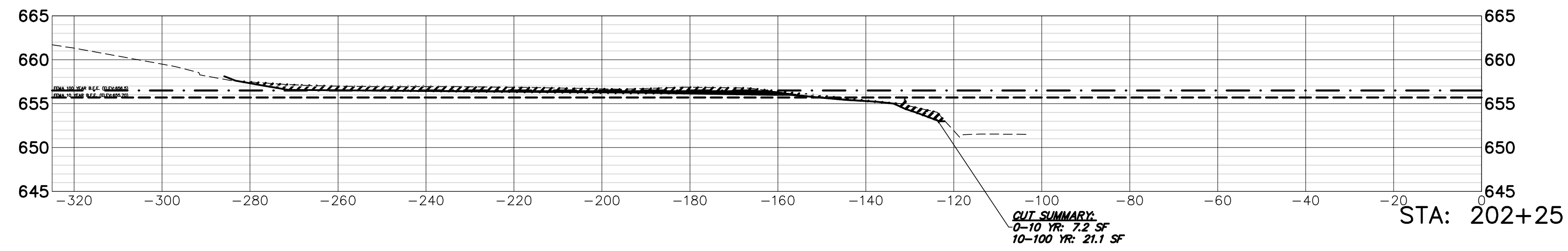


**COMPENSATORY STORAGE AREA
 CROSS SECTIONS STA. 200+00 - 201+00**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 4755.077-PR COMP STORAGE-Owen	SHEET NUMBER:
DRAWN BY: WR	GHA PROJECT #
DATE: 02.06.25	4755.077
CHECKED BY: DJS	SCALE:
DATE: 02.06.25	1"=10'
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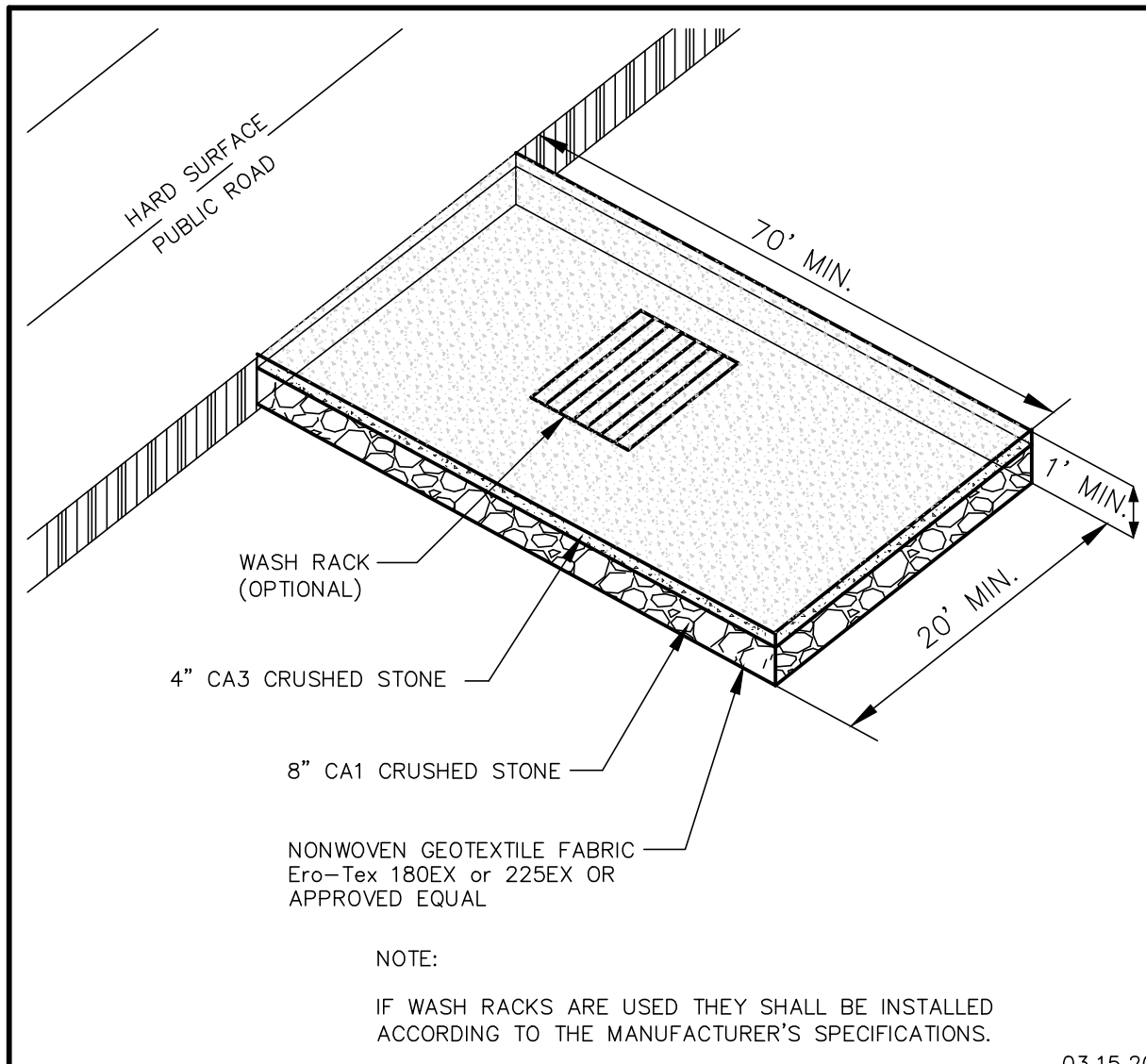
COMPENSATORY STORAGE AREA

CROSS SECTIONS STA. 201+25 - 202+25

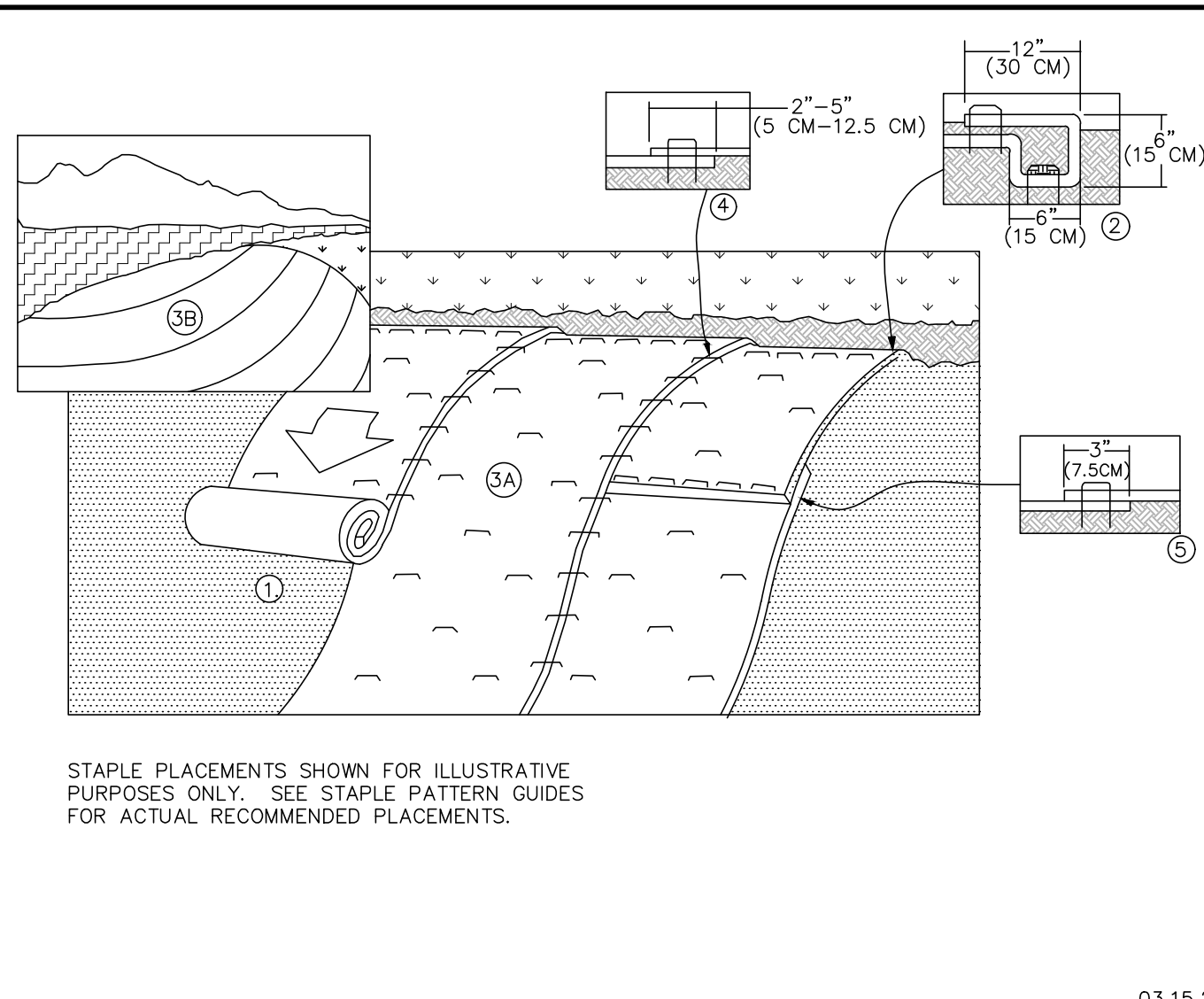
**OWEN COURT FLOOD CONTROL
 CITY OF PROSPECT HEIGHTS
 PROSPECT HEIGHTS, ILLINOIS**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 4755.077-PR COMP STORAGE-Owen	SHEET NUMBER:
DRAWN BY: WR	GHA PROJECT #
DATE: 02.06.25	4755.077
CHECKED BY: DJS	SCALE:
DATE: 02.06.25	1"=10'
	OF 33 SHEETS



- NOTES:
1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.
 3. ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.
 5. CONSECUTIVE RECP'S SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.
- NOTE:
- *IN LOOSE SOIL, CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.



- NOTES:
- THE SILT CURTAIN SHALL BE INSTALLED IN SUCH A MANNER AS TO PREVENT DRIFT SHOREWARD OR DOWNSTREAM. THE FLOATATION LOGS SHALL BE SECURELY ATTACHED TO THE FABRIC IN BOTH THE HORIZONTAL AND VERTICAL DIRECTION.
- THE 3/8-INCH CABLE SHALL BE ATTACHED ABOVE THE FLOATATION MEMBERS AND EXTEND THE ENTIRE LENGTH OF EACH SECTION OF SILT SCREEN. A 3/8-INCH CHAIN SHALL BE SEALED ON THE LOWER HEM FOR BALLAST.
- CONNECTORS SHALL JOIN THE MAIN LOAD LINE AND BALLAST CHAIN TO CARRY ALL TENSILE PRESSURE. THE FABRIC SHALL BE JOINED FOR ITS ENTIRE HEIGHT.
- ANCHORAGE'S SHALL BE INSTALLED ON BOTH SHORE AND STREAM SIDE TO MAXIMUM STABILITY. SHORE ANCHORS SHALL CONSIST OF A POST WITH DEADMAN OR APPROVED EQUAL. STREAM ANCHORS SHALL BE OF SUFFICIENT SIZE, TYPE AND STRENGTH TO STABILIZE THE BARRIER BEYOND THE CONSTRUCTION AREA.
- IF NEEDED ANCHORS SHALL BE BUOYED TO PREVENT THE BOOM FROM BEING PULLED UNDER WATER. DANFORTH-TYPE ANCHORS SHALL BE USED IN SANDY BOTTOM AND HEAVY KEDGE TYPE OR MUSHROOM ANCHORS ON MUD BOTTOMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE BOOM THROUGHOUT CONSTRUCTION OPERATIONS.
- UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE THE BOOM IN A MANNER THAT WILL PREVENT SILTATION OF THE WATERBODY.

SILT CURTAIN REMOVAL

- ALL SUSPENDED SEDIMENT MUST BE REMOVED FROM CONTAINED AREA BY VACUUM OR EQUIVALENT APPROPRIATE MEASURE.
- ONCE SEDIMENT IS REMOVED START REMOVING THE CURTAIN BY PULLING THE ENDS TOWARDS EACH OTHER WHILE MAINTAINING A TIGHT EDGE BETWEEN THE CURTAIN AND THE SHORE.
- ONCE THE CURTAIN IS PULLED IN TO A POINT THAT THE CONTAINED AREA IS EASILY ACCESSIBLE, REMOVE ANY ADDITIONAL SUSPENDED SEDIMENT BY VACUUM OR EQUIVALENT.
- WHEN THE CURTAIN IS REMOVED THE AREA EXPOSED TO THE CONTAINMENT AREA MUST BE RINSED OFF INTO A CONCRETE WASHOUT AREA TO CONTAIN ANY SEDIMENT ATTACHED TO THE CURTAIN FROM CONTAMINATING THE WATERWAY.
- DISPOSE RINSE WATER TO AN APPROPRIATE LOCATION.

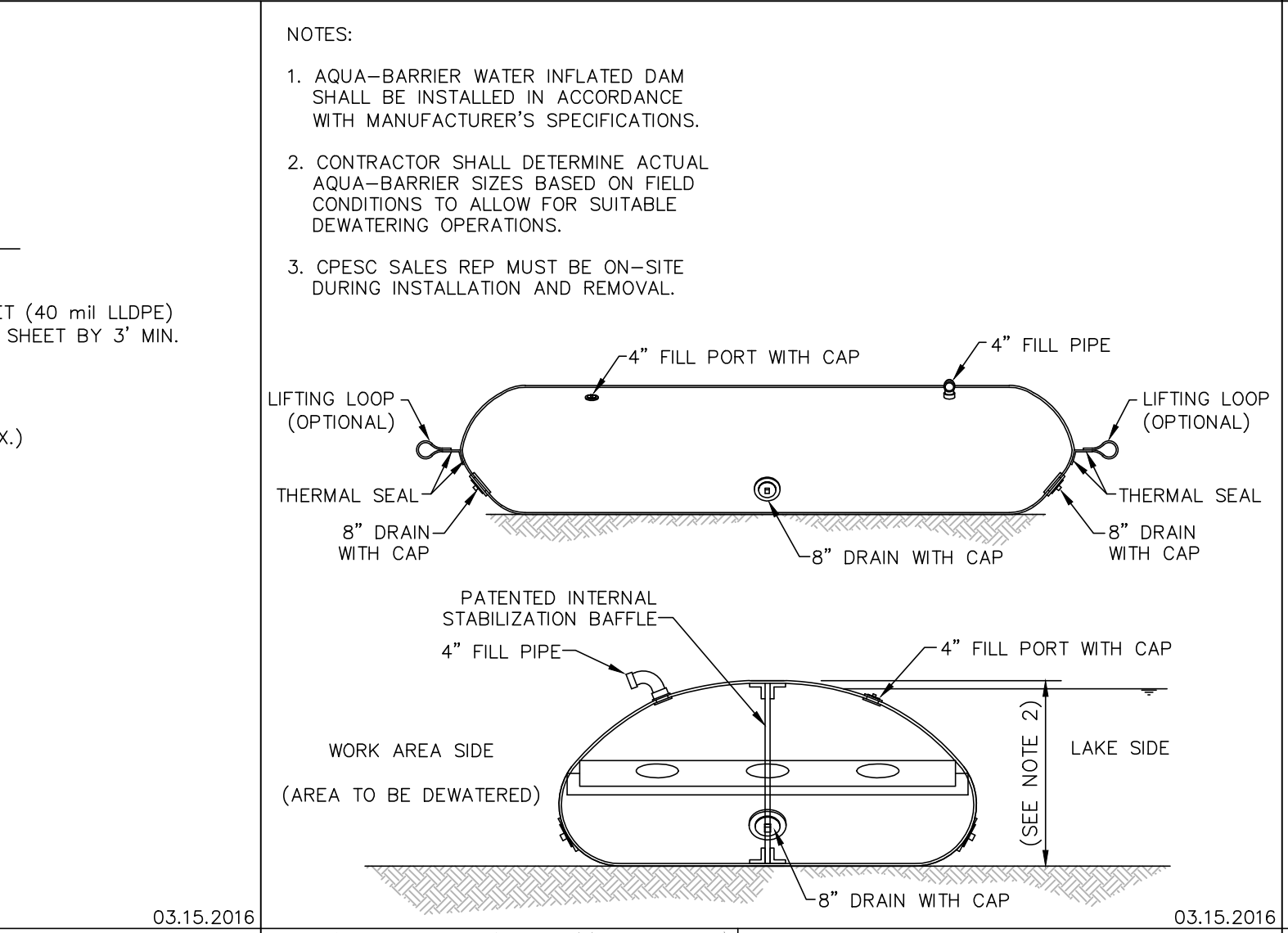
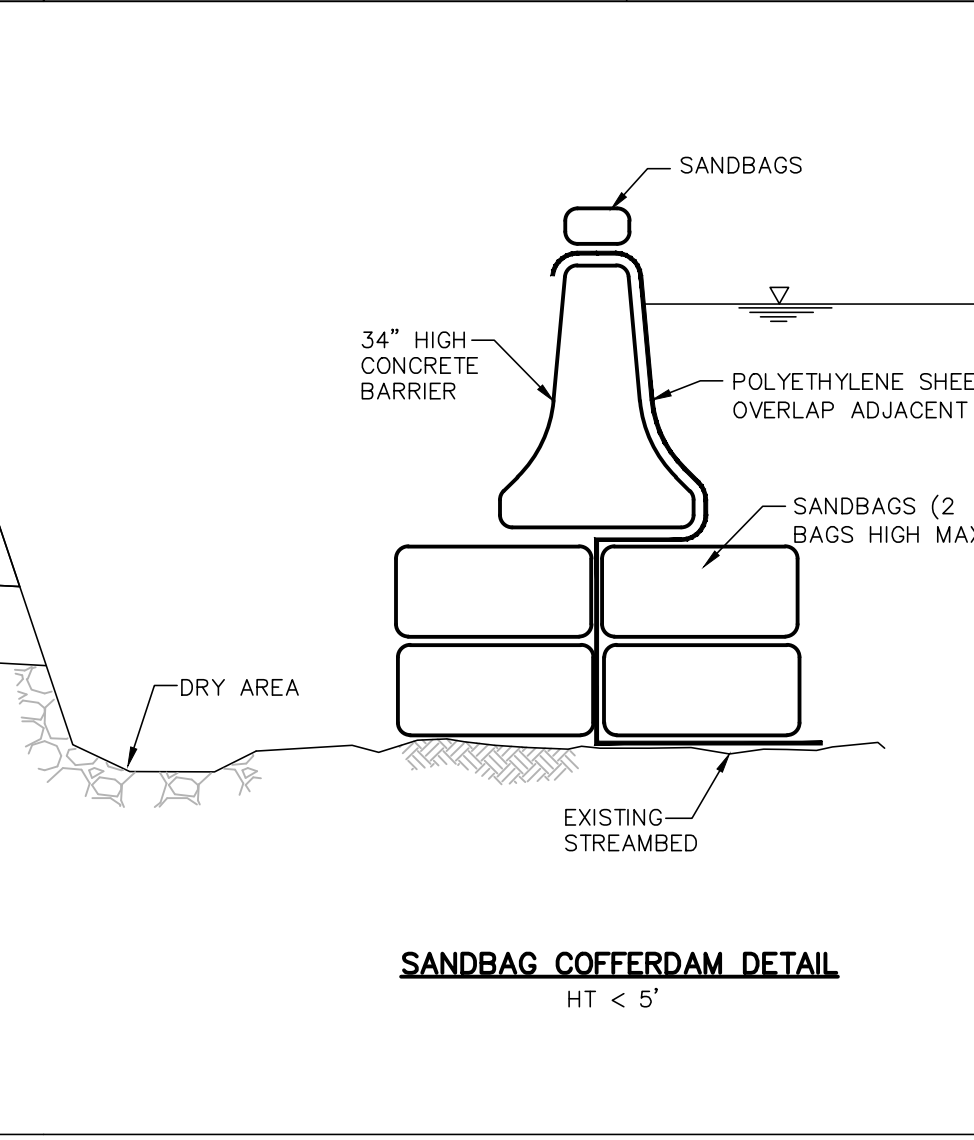
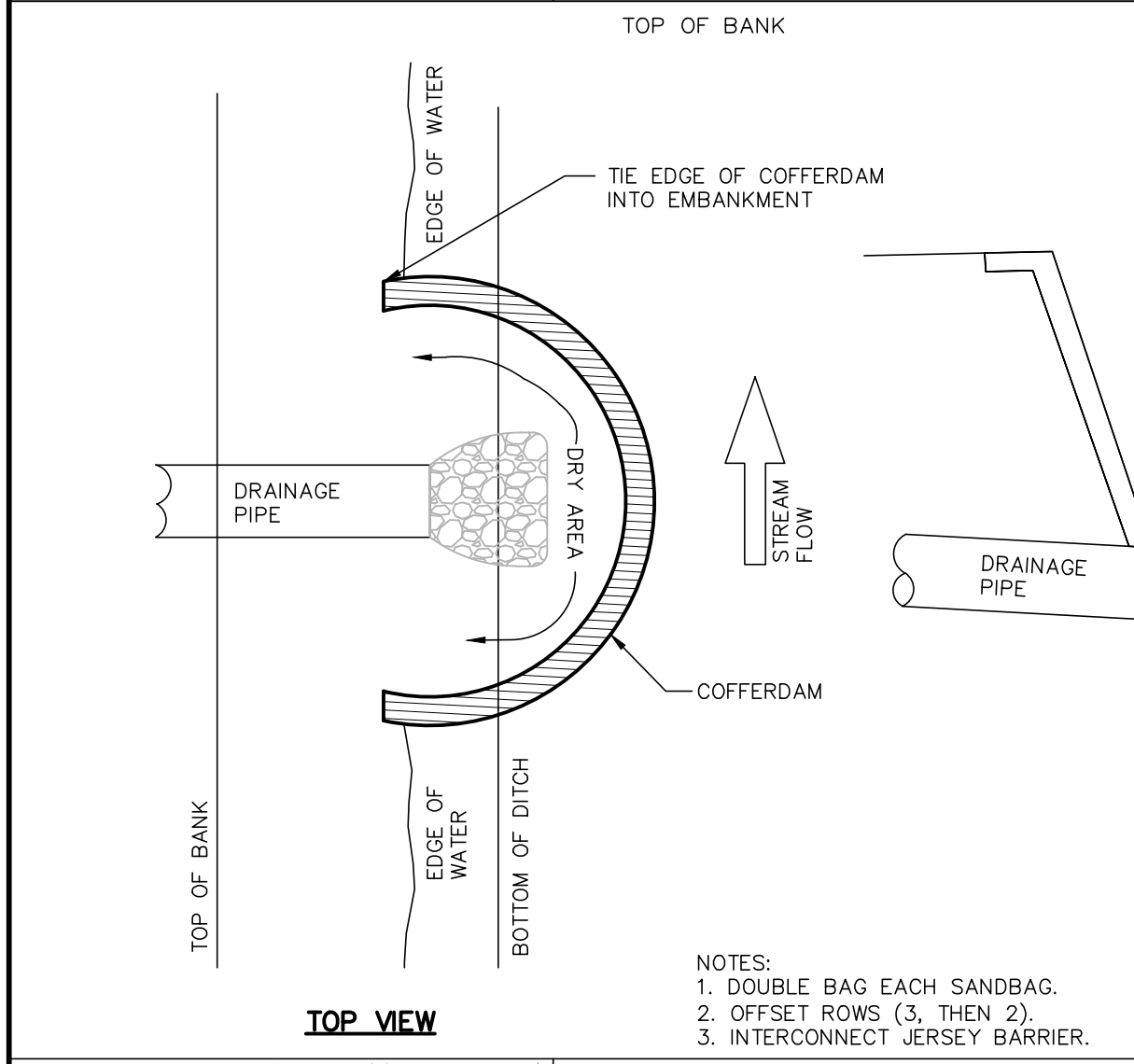
PROPERTY	TEST METHOD	VALUE
Grab Tensile Strength (lbs)	ASTM D 4833	204
Elongation (%)	ASTM D 4833	>50
Trapezoid Tear (lbs)	ASTM D 4533	80
Puncture (lbs)	ASTM D 4833	100
Mullen Burst (psi)	ASTM D 3786	330
AOS (U.S. sieve no.)	ASTM D 4751	81
Permittivity (sec-1)	ASTM D 4491	1.0

Ballast Chain to be 3/8" chain
Cable to be 5/8" thick cable
Foam Floats to be 7"x7"x4" long

GHA GEWALT HAMILTON ASSOCIATES, INC. TEMPORARY CONSTRUCTION ENTRANCE

GHA GEWALT HAMILTON ASSOCIATES, INC. EROSION CONTROL BLANKET SLOPE INSTALLATION

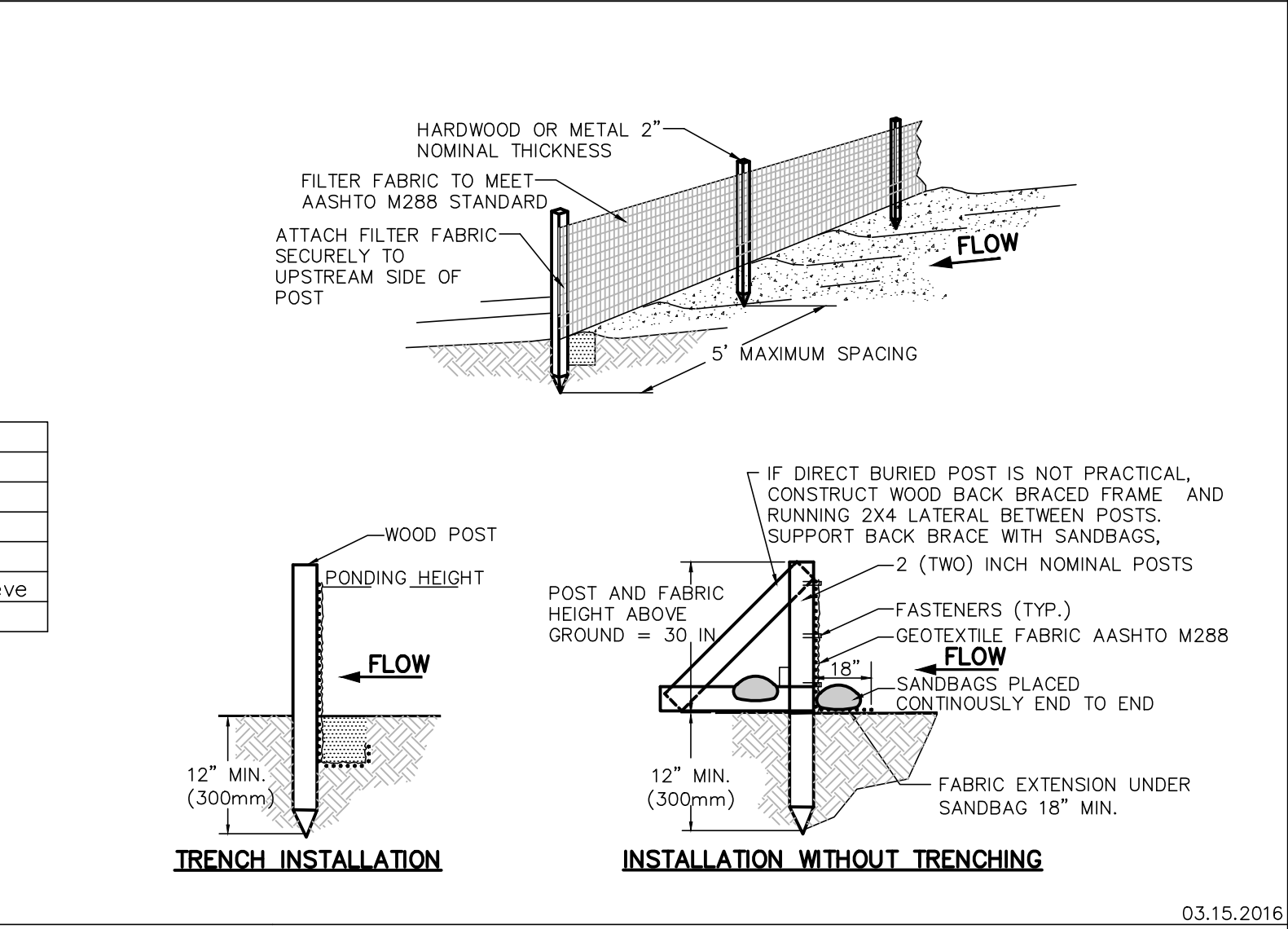
GHA GEWALT HAMILTON ASSOCIATES, INC. SILT CURTAIN



NOTES:

1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
4. FABRIC AND INSTALLATION SHALL MEET THE REQUIREMENTS OF ASSHTO STANDARD SPECIFICATION M-288-00.
5. SLICING METHOD IS PREFERRED.

PROPERTY	TEST PROCEDURE	VALUE
Grab Elongation		
Machine Direction	ASTM D-4533	123 lbs
X-Machine Direction	ASTM D-4833	101 lbs
Permittivity	ASTM D-4491	0.05 sec ⁻¹
A.S.O.	ASTM D-4751	30 u.s. Sieve
UV Stability	ASTM D-4355	70%



GHA GEWALT HAMILTON ASSOCIATES, INC. COFFERDAM DETAIL

GHA GEWALT HAMILTON ASSOCIATES, INC. INFLATABLE BLADDER COFFERDAM DETAIL

GHA GEWALT HAMILTON ASSOCIATES, INC. SILT FENCE INSTALLATION DETAIL

GHA GEWALT HAMILTON ASSOCIATES, INC. SOIL EROSION AND SEDIMENT CONTROL DETAILS

OWEN COURT FLOOD CONTROL
CITY OF PROSPECT HEIGHTS, ILLINOIS
PROSPECT HEIGHTS, ILLINOIS

FILE: 4755.077-DT2-Owen.dwg
DRAWN BY: WR
DATE: 02.06.25
GHA PROJECT #: 4755.077
CHECKED BY: DJS
DATE: 02.06.25
SCALE: N.A.

SHEET NUMBER: 29
OF 33 SHEETS

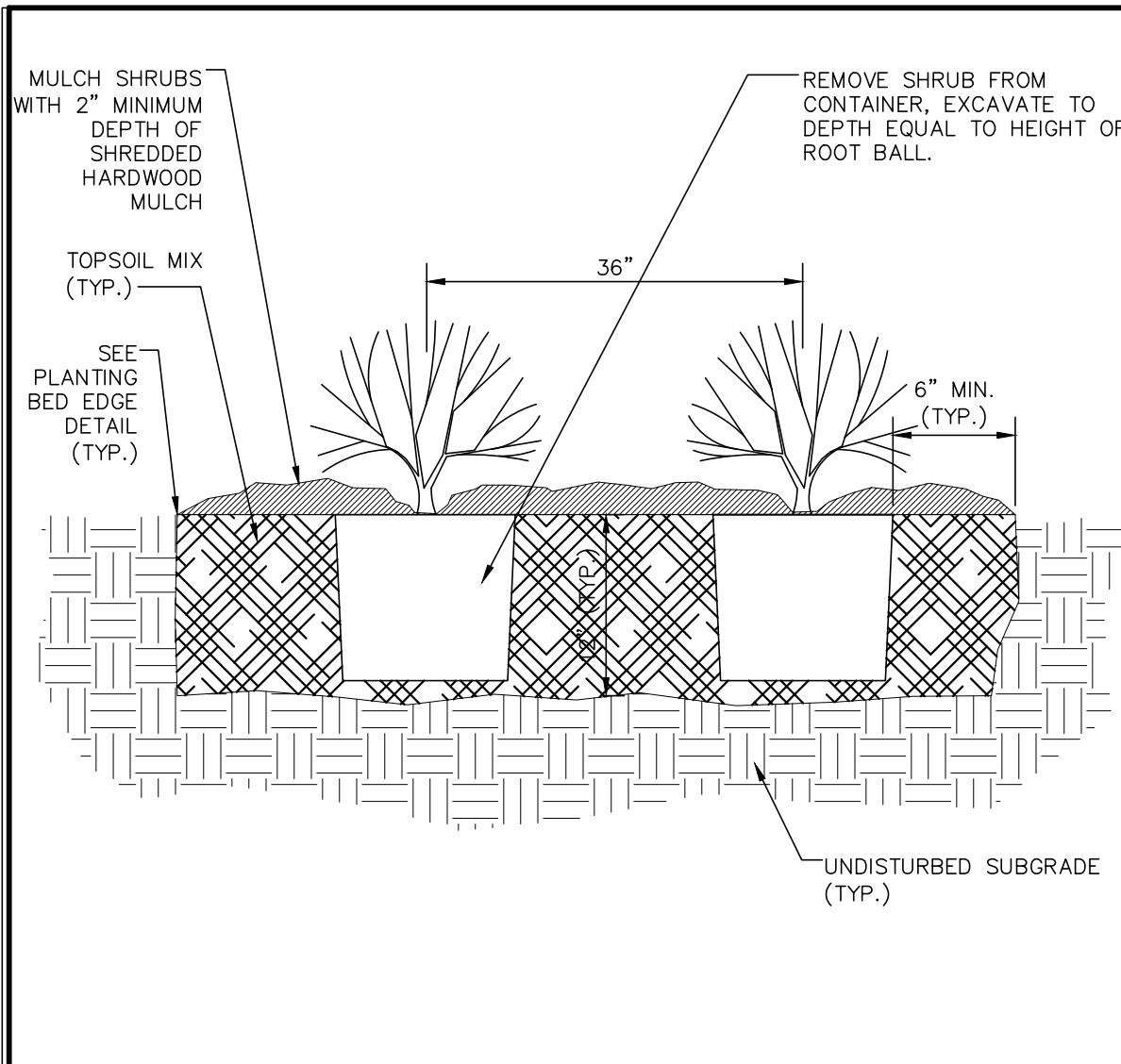
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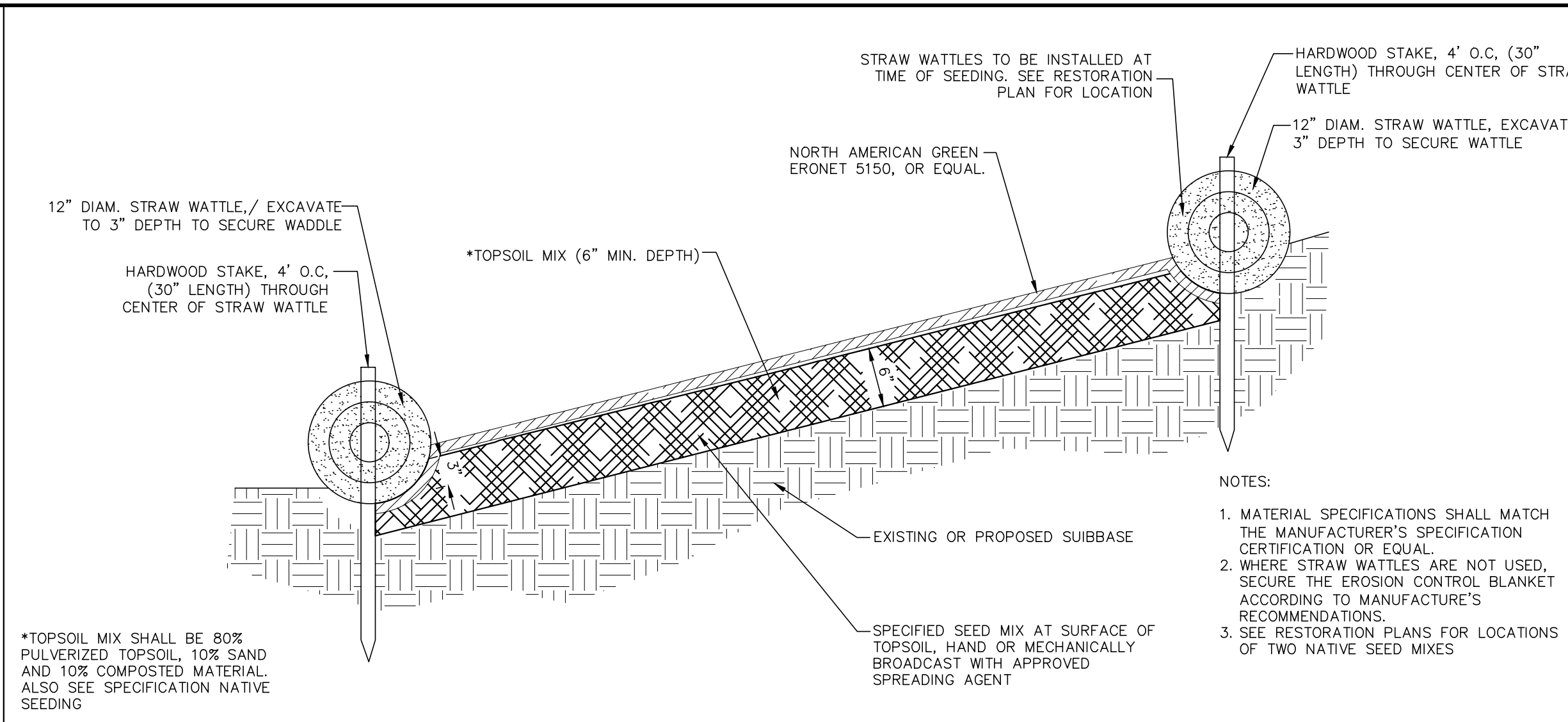
NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

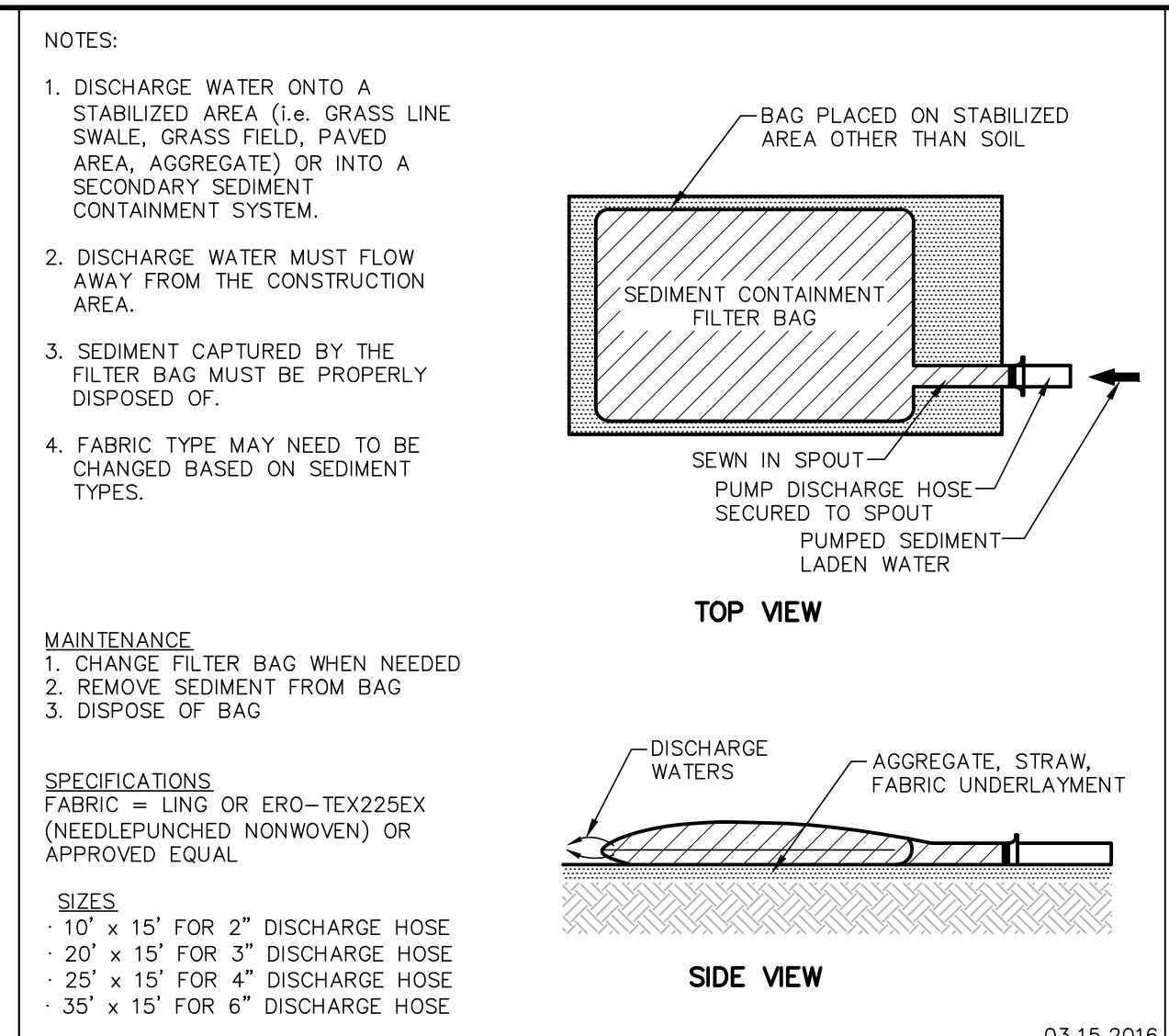
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GEWALT HAMILTON ASSOCIATES, INC. SHRUB PLANTING DETAIL



GEWALT HAMILTON ASSOCIATES, INC. SLOPE PLANTING DETAIL



GEWALT HAMILTON ASSOCIATES, INC. SEDIMENT CONTAINMENT FILTER BAG

Stabilization Type:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Permanent Seeding			A			X	X	X	X	X		
Dormant Seeding	B											
Temporary Seeding			C			X	X	X	X	X		
Sodding			E	X	X							
Mulching	F											

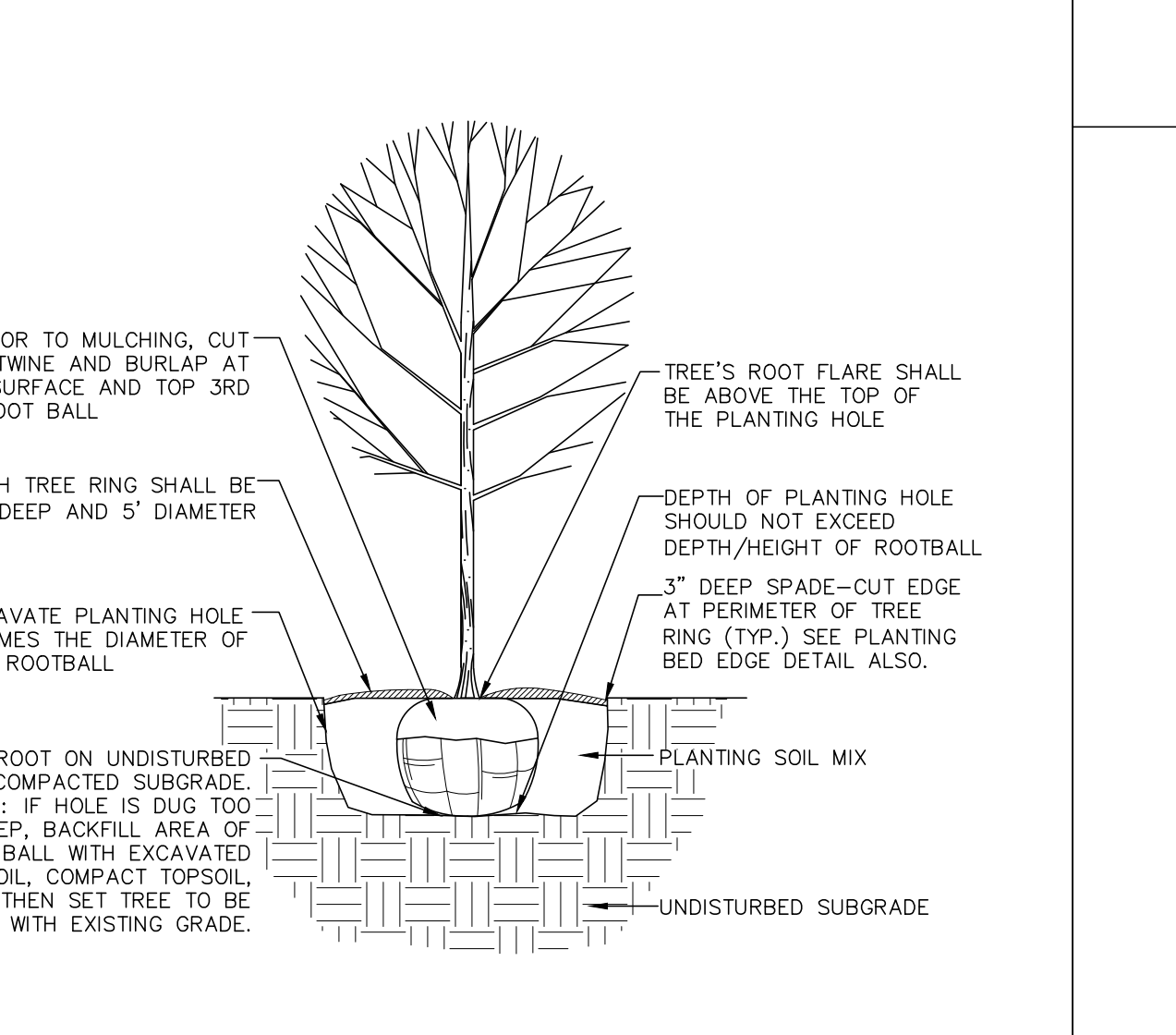
A = KENTUCKY BLUEGRASS @ 90 LBS./AC. MIXED WITH PERENNIAL RYEGRASS @ 30 LBS./AC.
 B = KENTUCKY BLUEGRASS @ 135 LBS./AC. MIXED WITH PERENNIAL RYEGRASS @ 45 LBS./AC.
 C = SPRING OATS @ 100 LBS./AC.
 D = WHEAT OR CEREAL RYE @ 150 LBS./AC.
 E = SOD
 F = STRAW MULCH (HYDROMULCH OR USE STRAW BLANKET) @ 2 TONS/AC.
 XXX = IRRIGATION NEEDED
 IRRIGATION SHOULD BE PROVIDED AS NECESSARY TO THOROUGHLY ESTABLISH INTENDED GROWTH.
 NOTE: SPRAYED ON PRODUCTS CANNOT BE USED NOV.-FEB.

CREEKSIDE MEADOW SEED MIX			
Species	Common Name	Percent	Rate
(Grasses/ Sedges)			
Andropogon gerardii	Big Bluestem		4.00
Carex cristatella	Crested Oval Sedge		0.50
Carex lurida	Bottlebrush Sedge		3.00
Carex spp.	Prairie Sedge Species		3.00
Carex stipata	Common Fox Sedge		2.00
Carex vulpinoidea	Brown Fox Sedge		6.00
Elymus canadensis	Canada Wild Rye		16.00
Elymus virginicus	Virginia Wild Rye		16.00
Juncus effusus	Common Rush		1.00
Panicum virgatum	Switch Grass		3.00
Scirpus atrovirens	Dark Green Rush		2.00
Scirpus cyperinus	Wool Grass		0.50
Spartina pectinata	Prairie Cord Grass		3.00
	Total		60.00
(Temporary Cover)			
Avena sativa	Common Oats		512.00
(Forbs)			
Alisma subcordatum	Common Water Plantain		1.00
Asclepias incarnata	Swamp Milkweed		3.00
Coreopsis tripteris	Tall Coreopsis		1.00
Euthamia graminifolia	Common Grass-Leaved Goldenrod		0.50
Eutrochium maculatum	Spotted Joe-Pye Weed		1.00
Iris ssp.	Blue Flag species		3.00
Liatris spicata	Marsh Blazing Star		1.00
Lycopus americanus	Common Water Horehound		0.50
Minimus ringens	Monkey Flower		0.50
Penthorum sedoides	Ditch Stonecrop		1.00
Pycnanthemum virginianum	Common Mountain Mint		0.50
Rudbeckia subtomentosa	Sweet Black-eyed Susan		1.00
Rudbeckia triloba	Brown-Eyed Susan		1.00
Senna hebecarpa	Wild Senna		1.00
Symphotrichum novae-angliae	New England Aster		0.50
Verbena hastata	Blue Vervain		1.50
Zizia aurea	Golden Alexander		2.00
	Total		20.00
			592.00

Apply at a rate of 37.0 PLS pounds per acre

SLOPED PRAIRIE SEED MIX			
Species	Common Name	Height	Rate
(Grasses)			
Andropogon gerardii	Big Bluestem	6-8'	18.00
Bouteloua curtipendula	Side-Oats Grama	2-3'	12.00
Carex spp.	Prairie Sedge Species	1-3'	4.00
Elymus canadensis	Canada Wild Rye	4-6'	24.00
Panicum virgatum	Switch Grass	4-6'	4.00
Schizachyrium scoparium	Little Bluestem	3-4'	28.00
Sorghastrum nutans	Indian Grass	4-6'	12.00
	Total		102.00
(Cover Crop)			
Avena sativa	Common Oats	2-3'	512.00
(Forbs)			
Asclepias syriaca	Common Milkweed	3-4'	2.00
Asclepias tuberosa	Butterfly Weed	2-3'	1.00
Baptisia bracteata	Cream Wild Indigo	2-2.5'	0.50
Baptisia lactea	White Wild Indigo	2-4'	2.00
Chamaecrista fasciculata	Partridge Pea	2-3'	10.00
Coreopsis lanceolata	Sand Coreopsis	2'	4.00
Coreopsis tripteris	Tall Coreopsis	6-8'	0.75
Desmanthus illinoensis	Illinois Sensitive Plant	3-4'	2.00
Desmodium illinoense	Illinois Tick Trefoil	2-5'	0.50
Drymocallis arguta	Prairie Cinquefoil	2-3'	0.50
Echinacea purpurea	Purple Coneflower	3-4'	8.00
Eryngium yuccifolium	Rattlesnake Master	3-4'	2.00
Lespedeza capitata	Round-Headed Bush Clover	3-4'	2.00
Liatris aspera	Rough Blazing Star	2-3'	1.00
Liatris pycnostachya	Prairie Blazing Star	4-6'	2.00
Monarda fistulosa	Wild Bergamot	3-4'	1.00
Oligoneuron rigidum	Stiff Goldenrod	3-4'	2.00
Parthenium integrifolium	Wild Quinine	3-4'	1.00
Penstemon digitalis	Foxglove Beard Tongue	2-3'	2.00
Pycnanthemum virginianum	Common Mountain Mint	2-3'	0.25
Ratibida pinnata	Yellow Coneflower	3-4'	4.00
Rudbeckia hirta	Black-Eyed Susan	2-3'	5.00
Silphium integrifolium	Rosin Weed	4-6'	3.00
Silphium laciniatum	Compass Plant	6-8'	4.00
Silphium terebinthinaceum	Prairie Dock	6-8'	2.00
Solidago nemoralis	Old-Field Goldenrod	2-3'	0.25
Solidago speciosa	Showy Goldenrod	2-3'	0.50
Symphotrichum laeve	Smooth Blue Aster	3-4'	1.00
Symphotrichum novae-angliae	New England Aster	3-4'	0.50
Symphotrichum oolentangiense	Sky-Blue Aster	2-3'	1.00
Tradescantia ohiensis	Spiderwort	2-3'	1.00
Veronicastrum virginicum	Culver's Root		0.25
Zizia aurea	Golden Alexanders		1.00
	Total		68.00

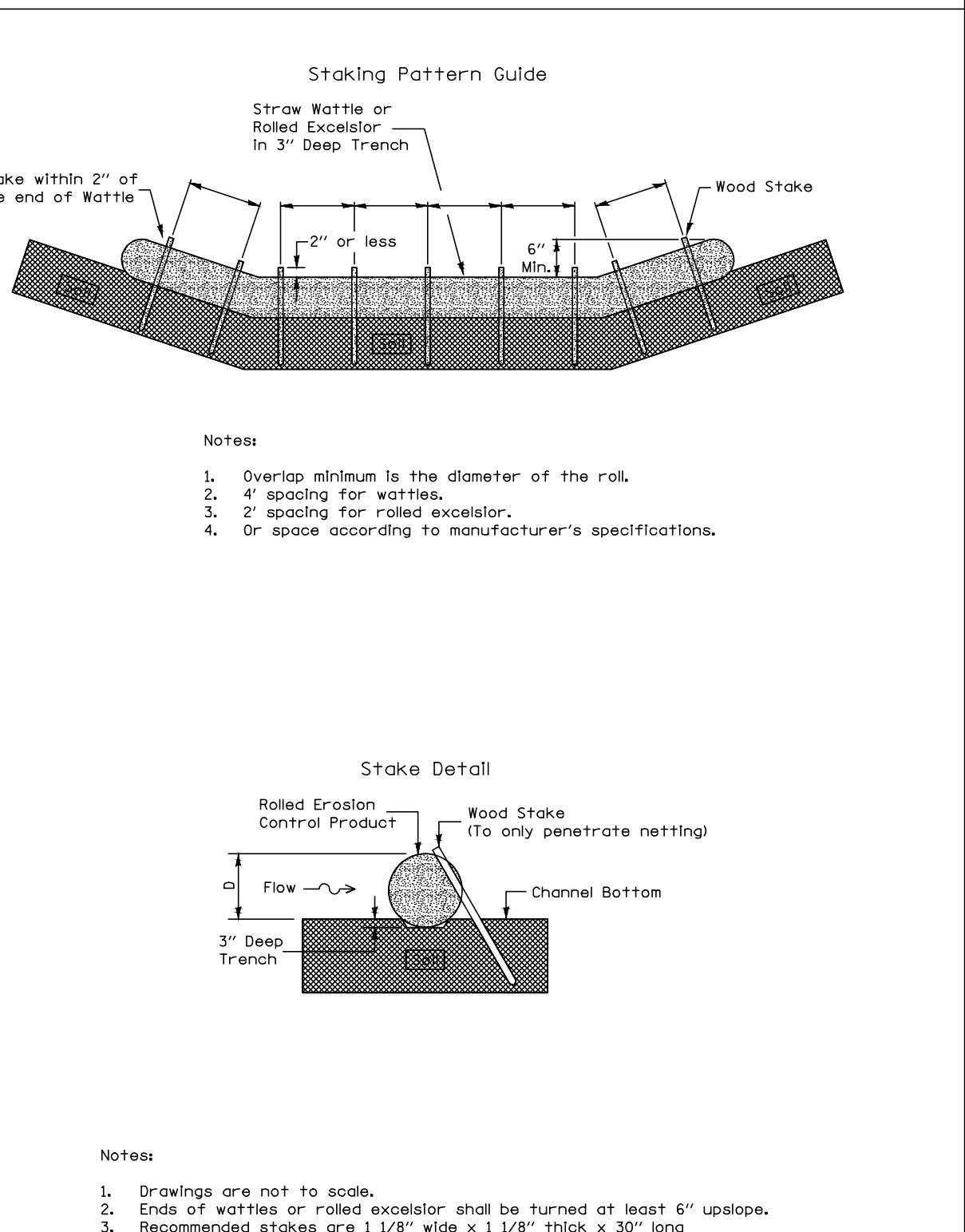
Apply Pure Live Seed (PLS) at rate of: **42.63 lb/ac**



GEWALT HAMILTON ASSOCIATES, INC. TREE PLANTING DETAIL

Tree and Shrub Planting Schedule			
Qty.	Tree Species	Common Name	Size
6	Aesculus glabra	Ohio Buckeye	
2	Catalpa speciosa	Northern Catalpa	2.5' BB
3	Celtis occidentalis	Hackberry	2.5' BB
7	Corylus americana	American Filbert	3-4' BB
2	Quercus bicolor	Swamp White Oak	2.5' BB
4	Quercus imbricaria	Shingel Oak	2.5' BB
3	Robinia pseudoacacia	Black Locust	2.5' BB
6	Taxodium distichum	Bald Cypress	2.5' BB

ROLLED EROSION CONTROL PRODUCTS



GEWALT HAMILTON ASSOCIATES, INC. ROLLED EROSION CONTROL PRODUCTS

GEWALT HAMILTON ASSOCIATES, INC.
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061
 TEL 847.478.9700 ■ FAX 847.478.9701

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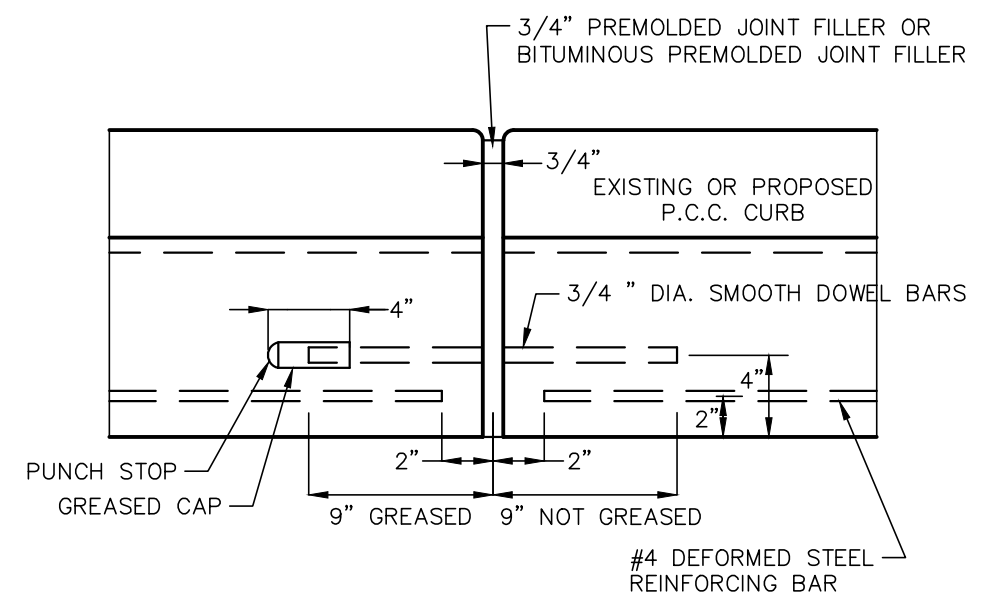
SOIL EROSION AND SEDIMENT CONTROL DETAILS
OWEN COURT FLOOD CONTROL
CITY OF PROSPECT HEIGHTS, ILLINOIS
PROSPECT HEIGHTS, ILLINOIS

NO.	BY	DATE	REVISION

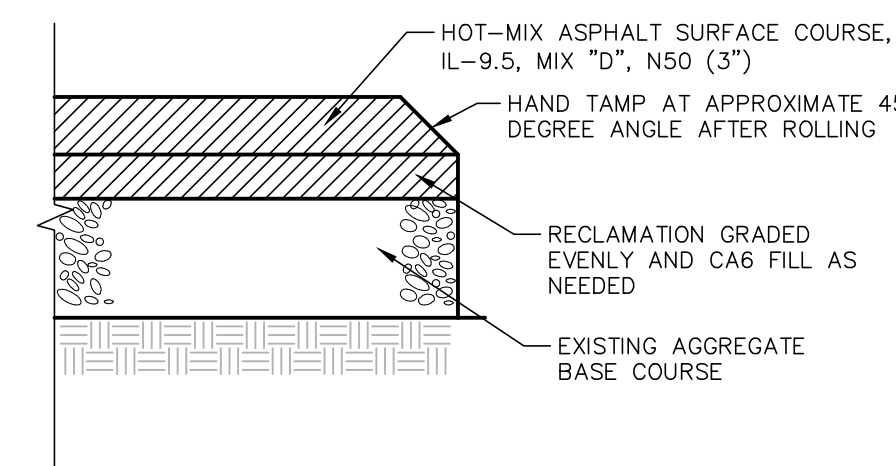
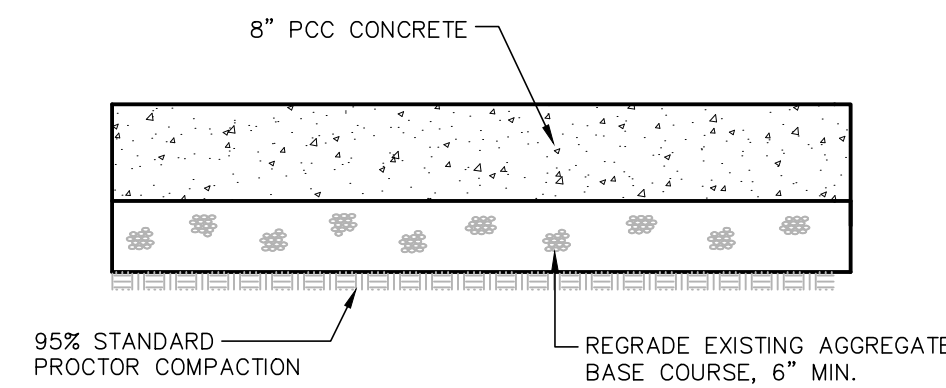
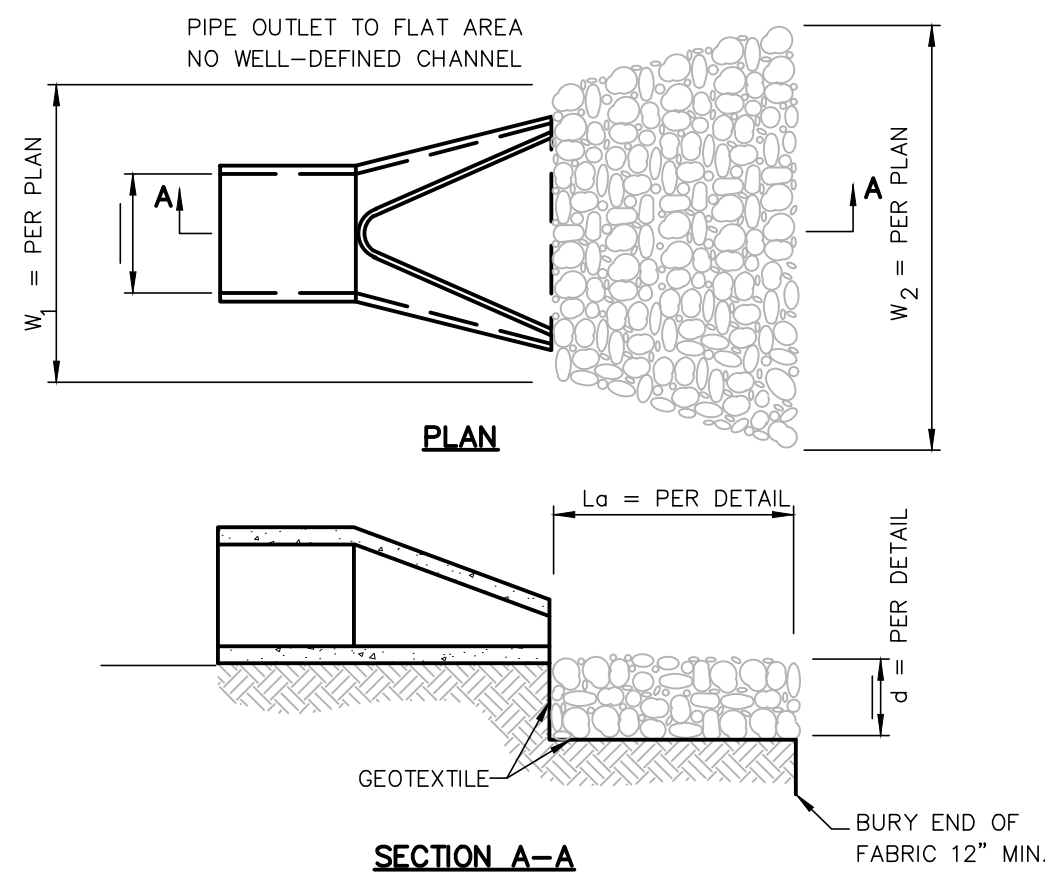
REFERENCE: Project _____, Date _____
 Designed _____, Date _____
 Checked _____, Date _____
 Approved _____, Date _____

STANDARD DWG. NO. IUM-514
 SHEET 1 OF 11
 DATE 2-19-18

FILE: 4755.077-DT2-Owen.dwg
 DRAWN BY: WR, GHA PROJECT # 4755.077
 DATE: 02.06.25
 CHECKED BY: DJS, SCALE: N.A.
 DATE: 02.06.25
 SHEET NUMBER: **30**
 OF 33 SHEETS



- NOTES:
1. ALL GEOTEXTILE SHALL BE NON-WOVEN TABLE 1, CLASS 2 MATERIAL.
 2. THE RIPRAP SHALL BE PLACED ACCORDING TO CONSTRUCTION SPECIFICATION 61 LOOSE ROCK RIPRAP. THE ROCK MAY BE EQUIPMENT PLACED.



RIP-RAP SIZING REQUIREMENTS

FES #1.2	12" Dia	RR-3	10"	3'	11'	10'	7.8

ALL GEOTEXTILE SHALL BE NON-WOVEN TABLE 1 CLASS 2 MATERIAL
 STONE RIP-RAP SHALL CONFORM TO QUALITY AND GRADATION AS NOTED IN SEC 1005 OF IDOT SSRB

GHA GEWALT HAMILTON ASSOCIATES, INC.

EXPANSION JOINT DETAIL

10.12.2018

GHA GEWALT HAMILTON ASSOCIATES, INC.

PIPE OUTLET TO FLAT AREA

03.15.2016

GHA GEWALT HAMILTON ASSOCIATES, INC.

PCC PAVEMENT DETAIL

02.01.2021

GHA GEWALT HAMILTON ASSOCIATES, INC.

HMA DRIVEWAY PAVEMENT DETAIL

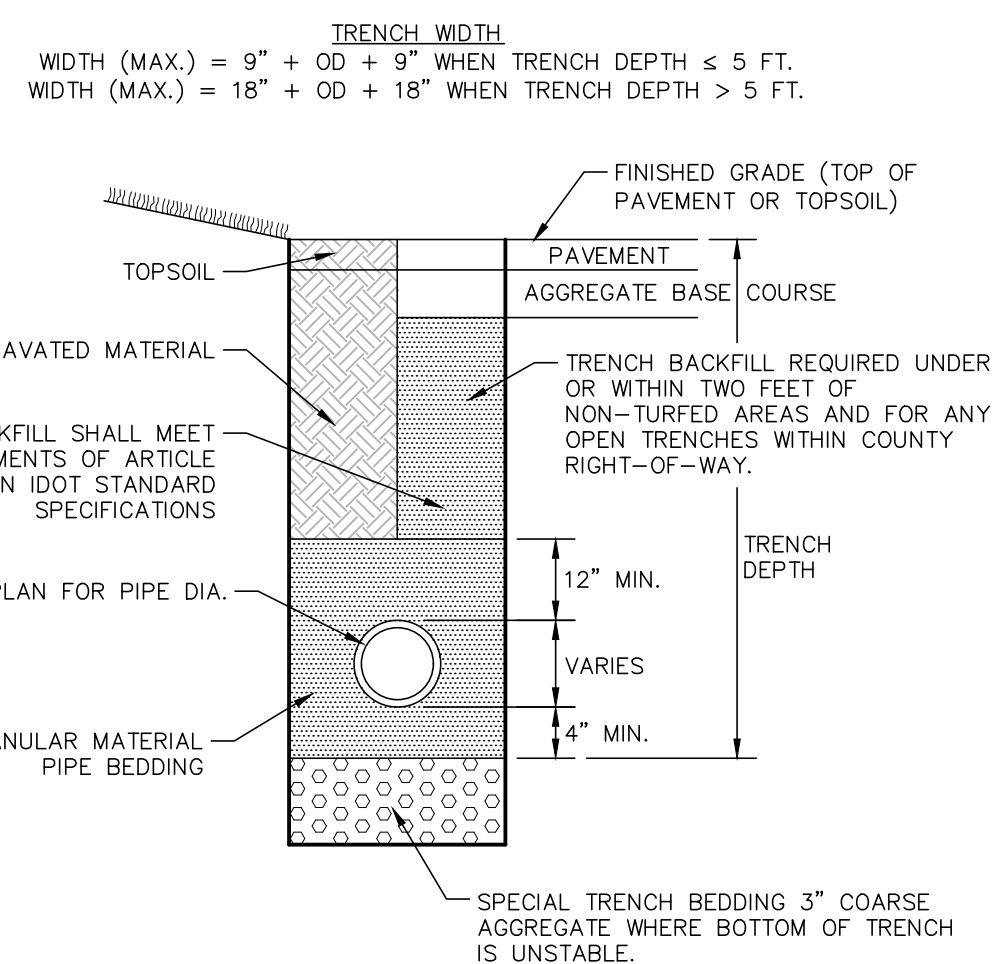
02.01.2021

GHA GEWALT HAMILTON ASSOCIATES, INC.

RIP-RAP SIZING REQUIREMENTS

03.15.2016

NOTE: SEE STORM TABLE FOR MATERIAL REQUIREMENTS.

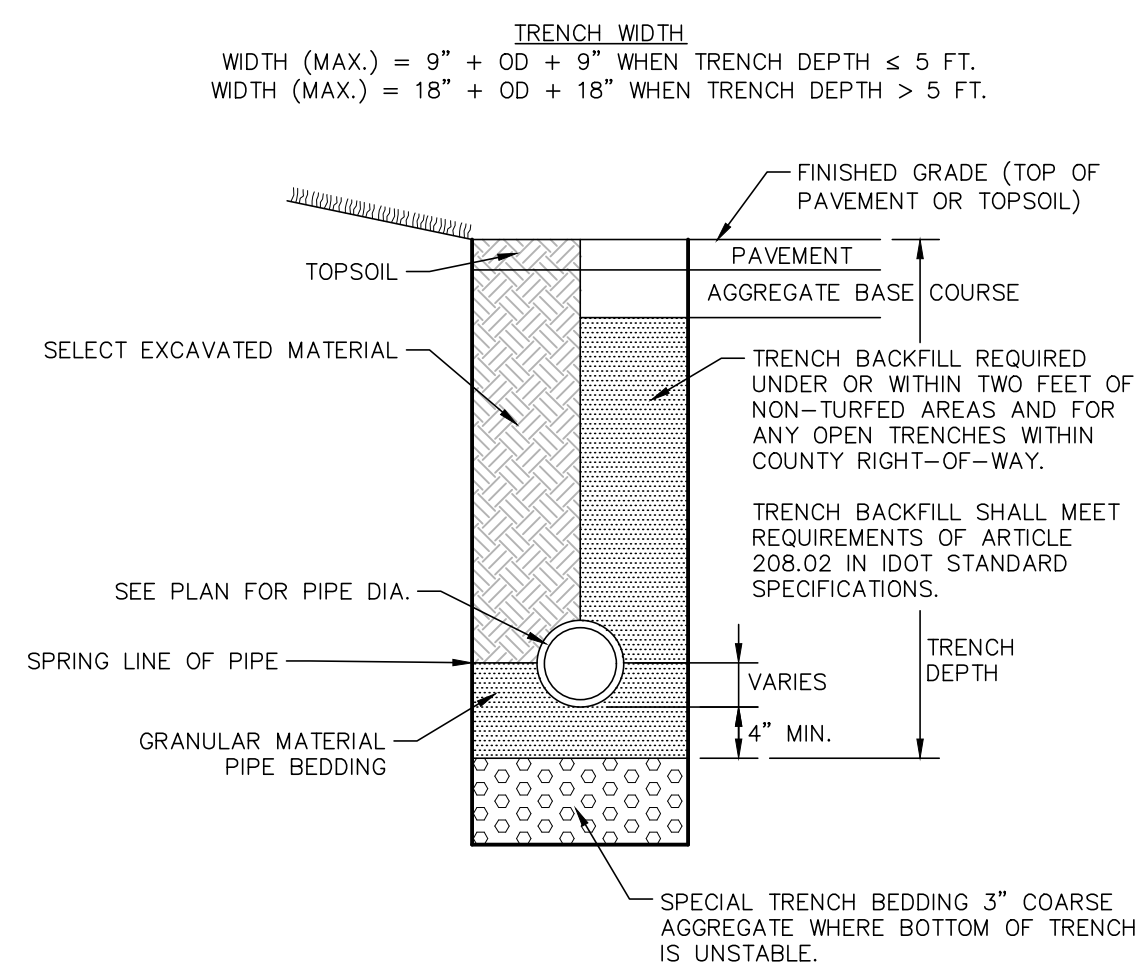


GHA GEWALT HAMILTON ASSOCIATES, INC.

STORM TRENCH DETAIL FLEXIBLE PIPE INSTALLATION

04.02.2021

NOTE: SEE STORM TABLE FOR MATERIAL REQUIREMENTS.



GHA GEWALT HAMILTON ASSOCIATES, INC.

STORM TRENCH DETAIL RIGID PIPE INSTALLATION

04.02.2021

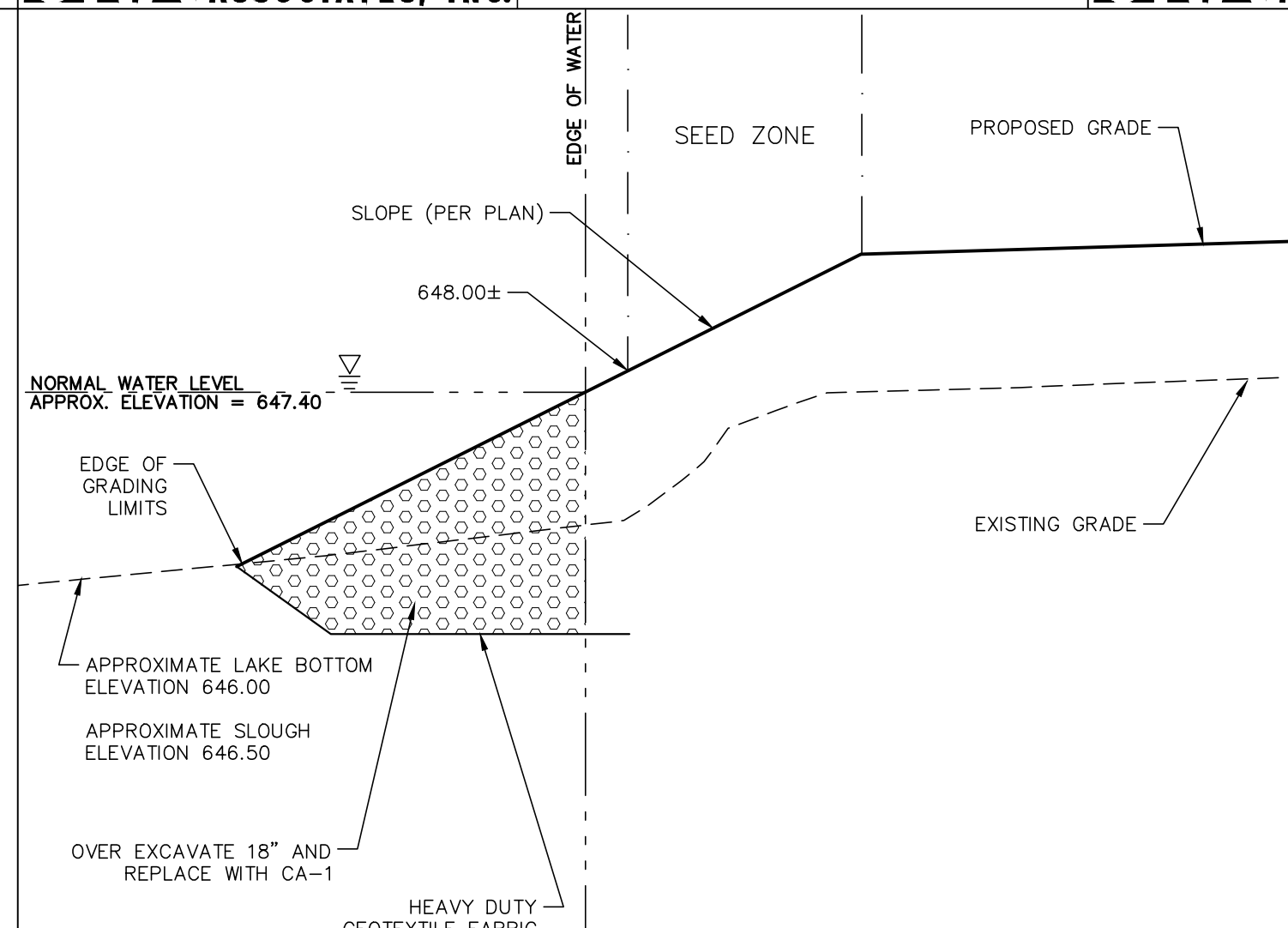
GHA GEWALT HAMILTON ASSOCIATES, INC.

TYPICAL TOE OF SLOPE DETAIL IN WATER (N.T.S.)

03.17.2023

NOTES:

1. THE CONTRACTOR SHALL SHAPE THE BANK TO THE REQUIRED SLOPE, AND CREATE THE TRENCH IN THE BANK TOE. THE TRENCH SHALL BE AT LEAST AS DEEP AS THE HEIGHT OF THE LARGEST STONE.
2. ALL GEOTEXTILE SHALL BE NON-WOVEN TABLE 1 CLASS 2 MATERIAL. PINS SHALL BE PLACED AT 2' SPACING.
3. CA-1 STONE IS TO BE USED PAST THE EDGE OF WATER



GHA GEWALT HAMILTON ASSOCIATES, INC.
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061
 TEL 847.478.9700 ■ FAX 847.478.9701

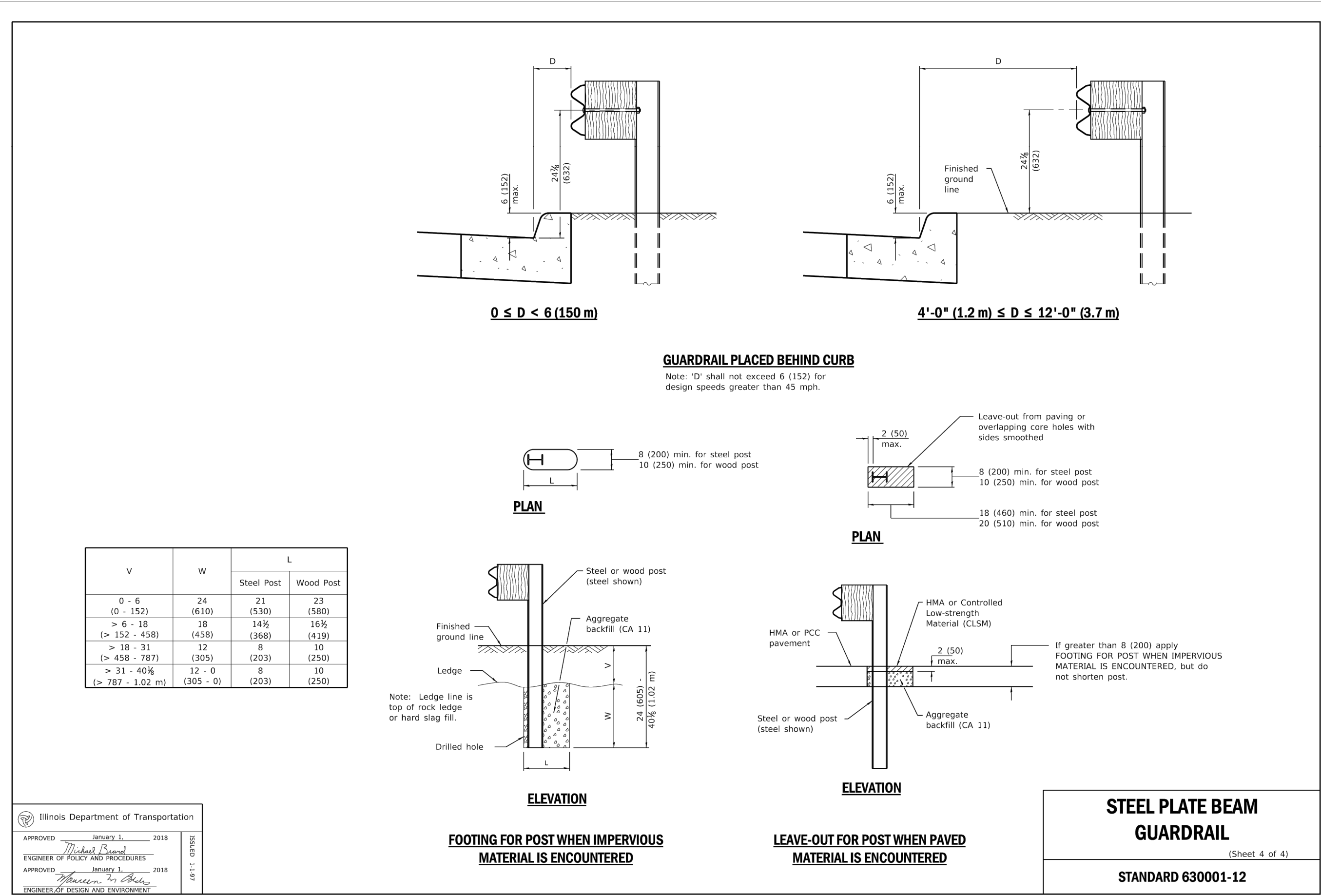
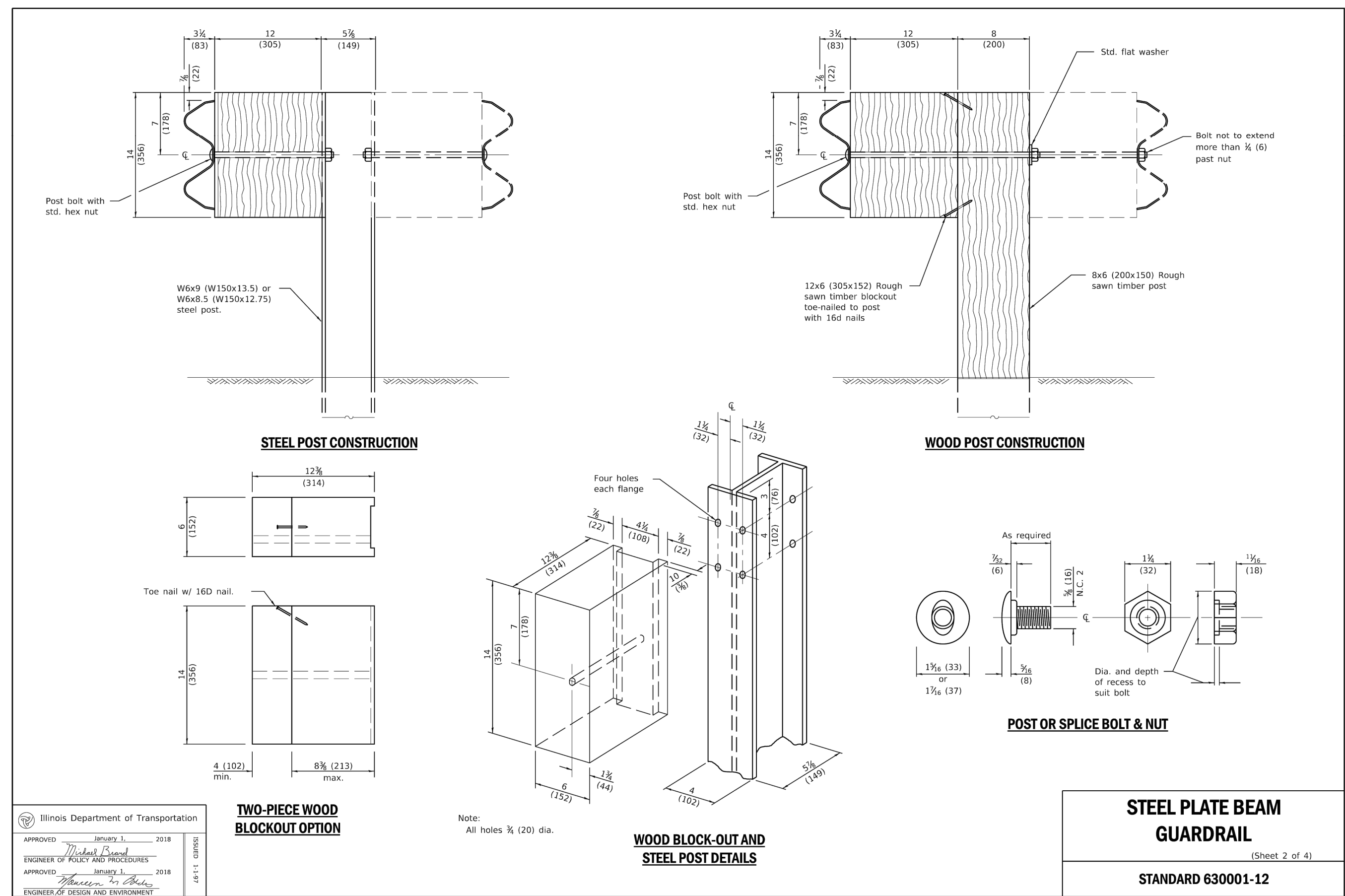
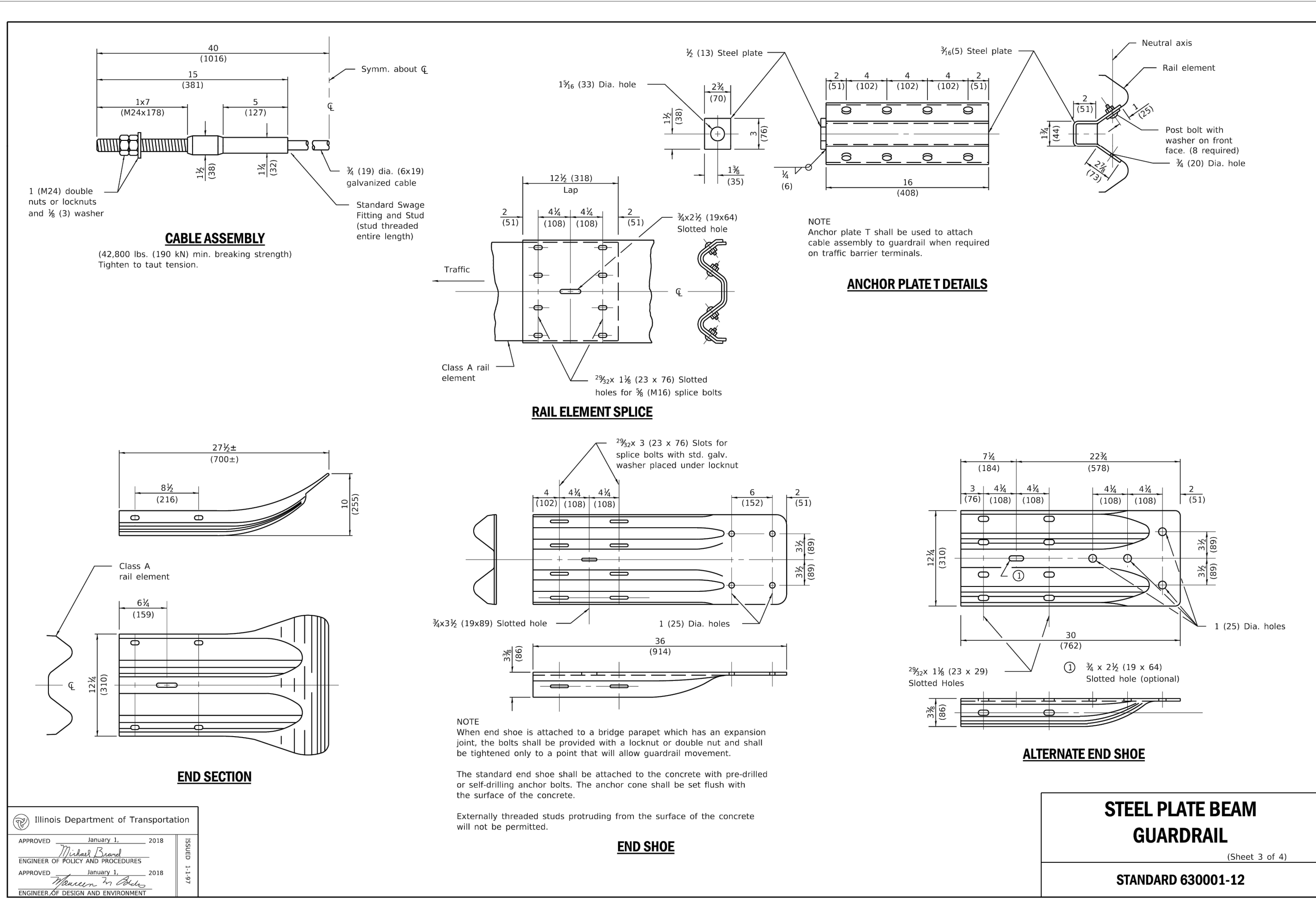
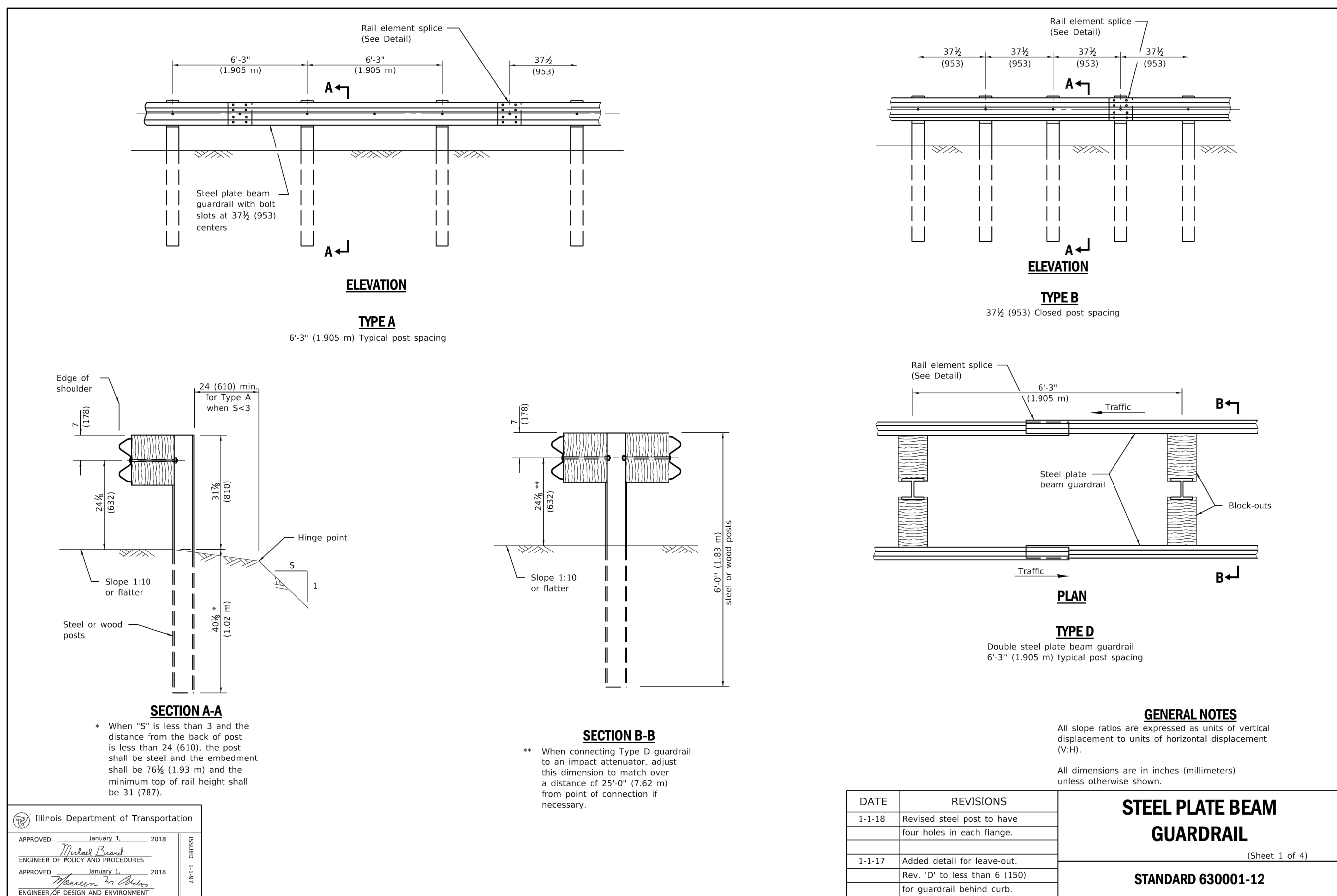
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DETAILS
OWEN COURT FLOOD CONTROL
CITY OF PROSPECT HEIGHTS, ILLINOIS
PROSPECT HEIGHTS, ILLINOIS

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE	4755.077-DT2-Owen.dwg	SHEET NUMBER:	31
DRAWN BY:	WR	GHA PROJECT #	
DATE:	02.06.25	4755.077	
CHECKED BY:	DJS	SCALE:	N.A.
DATE:	02.06.25		
OF 33 SHEETS			

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S:\2024\255 - PROSPECT HEIGHTS PROJECTS\255-077-DRAWINGS - 2/14/2025 - 2:23 PM

NO.	BY	DATE	REVISION

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PIPE DIA.	APPROX. QTY. lbs. (kg)	WALL	A	B	C	D	E	G	R	APPROX. SLOPE
12 (300)	530 (240)	2 (51)	24 (102)	4 (16)	4'-0 3/4" (1.241 m)	6'-0 3/4" (1.851 m)	24 (610)	2 (51)	9 (229)	1:2.4
15 (375)	740 (335)	2 1/2 (64)	6 (152)	6 (152)	3'-10" (1.168 m)	6'-1" (1.854 m)	30 (762)	2 1/2 (64)	11 (280)	1:2.4
18 (450)	990 (450)	3 (76)	9 (229)	9 (229)	3'-10" (1.168 m)	6'-1" (1.854 m)	36 (914)	3 (76)	12 (305)	1:2.4
21 (525)	1280 (580)	3 1/2 (91)	12 (305)	12 (305)	3'-10" (1.168 m)	6'-1" (1.854 m)	42 (1067)	3 1/2 (91)	13 (330)	1:2.4
24 (600)	1520 (690)	4 (102)	15 (381)	15 (381)	3'-10" (1.168 m)	6'-1" (1.854 m)	48 (1219)	4 (102)	14 (356)	1:2.4
27 (675)	1930 (875)	4 1/2 (114)	18 (457)	18 (457)	3'-10" (1.168 m)	6'-1" (1.854 m)	54 (1372)	4 1/2 (114)	15 (381)	1:2.5
30 (750)	2190 (995)	5 (127)	21 (533)	21 (533)	3'-10" (1.168 m)	6'-1" (1.854 m)	60 (1524)	5 (127)	16 (406)	1:2.5
33 (825)	2500 (1135)	5 1/2 (140)	24 (610)	24 (610)	3'-10" (1.168 m)	6'-1" (1.854 m)	66 (1677)	5 1/2 (140)	17 (430)	1:2.5
36 (900)	2800 (1270)	6 (152)	27 (686)	27 (686)	3'-10" (1.168 m)	6'-1" (1.854 m)	72 (1829)	6 (152)	18 (457)	1:2.5
42 (1050)	3380 (1530)	7 (178)	33 (838)	33 (838)	3'-10" (1.168 m)	6'-1" (1.854 m)	84 (2134)	7 (178)	22 (559)	1:2.5
48 (1200)	4000 (1815)	8 (203)	36 (914)	36 (914)	3'-10" (1.168 m)	6'-1" (1.854 m)	96 (2439)	8 (203)	24 (610)	1:2.5
54 (1350)	4700 (2135)	9 (229)	42 (1067)	42 (1067)	3'-10" (1.168 m)	6'-1" (1.854 m)	108 (2743)	9 (229)	27 (686)	1:2.0
60 (1500)	5400 (2450)	10 (255)	48 (1219)	48 (1219)	3'-10" (1.168 m)	6'-1" (1.854 m)	120 (3048)	10 (255)	30 (762)	1:1.9
66 (1650)	6100 (2770)	11 (280)	54 (1372)	54 (1372)	3'-10" (1.168 m)	6'-1" (1.854 m)	132 (3353)	11 (280)	33 (838)	1:1.7
72 (1800)	6900 (3130)	12 (305)	60 (1524)	60 (1524)	3'-10" (1.168 m)	6'-1" (1.854 m)	144 (3658)	12 (305)	36 (914)	1:1.8
78 (1950)	7700 (3490)	13 (330)	66 (1677)	66 (1677)	3'-10" (1.168 m)	6'-1" (1.854 m)	156 (3963)	13 (330)	39 (990)	1:1.8
84 (2100)	8600 (3890)	14 (356)	72 (1829)	72 (1829)	3'-10" (1.168 m)	6'-1" (1.854 m)	168 (4268)	14 (356)	42 (1067)	1:1.6

* Radius as furnished by manufacturer

GENERAL NOTES
 All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).
 All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-11	Clarified ref to pipe dia. on Section A-A. Changed 'inner' to 'outer' cage ref.
1-1-09	Switched units to English (metric).

PRECAST REINFORCED CONCRETE FLARED END SECTION
STANDARD 542301-03

TYPICAL BENCHING DETAIL FOR EMBANKMENT

GENERAL NOTES

- CONSTRUCT SUCCESSIVE BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPLETION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- EXISTING FORTIFICATIONS PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- TRIM TO FINAL SLOPE.
- EQUAL 8 INCH (200) LIFTS OF EMBANKMENT COMPLETED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.

BASIS OF PAYMENT

- EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD OR CUBIC METER OF EARTH EXCAVATION. THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

DATE	REVISIONS
1-1-11	Clarified ref to pipe dia. on Section A-A. Changed 'inner' to 'outer' cage ref.
1-1-09	Switched units to English (metric).

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BENCHING DETAIL FOR EMBANKMENT WIDENING

SHEET 1 OF 1 SHEETS

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DETAILS
OWEN COURT FLOOD CONTROL
CITY OF PROSPECT HEIGHTS, ILLINOIS
PROSPECT HEIGHTS, ILLINOIS

NO.	BY	DATE	REVISION

FILE 4755.077-DT2-Owen.dwg
 DRAWN BY: WR
 DATE: 02.06.25
 GHA PROJECT #: 4755.077
 CHECKED BY: DJS
 DATE: 02.06.25
 SCALE: N.A.
 SHEET NUMBER: **33**
 OF 33 SHEETS