

*PLANS FOR THE CONSTRUCTION OF
SEDIMENT REMOVAL
FOR
VITRUVIAN PARK
TOWN OF ADDISON, TEXAS
PUBLIC WORKS #19-77*



JOE CHOW
MAYOR

PAUL WALDEN
MAYOR PRO TEMPORE

TOM BRAUN
DEPUTY MAYOR PRO TEMPORE

IVAN HUGHES
GUILLERMO QUINTANILLA

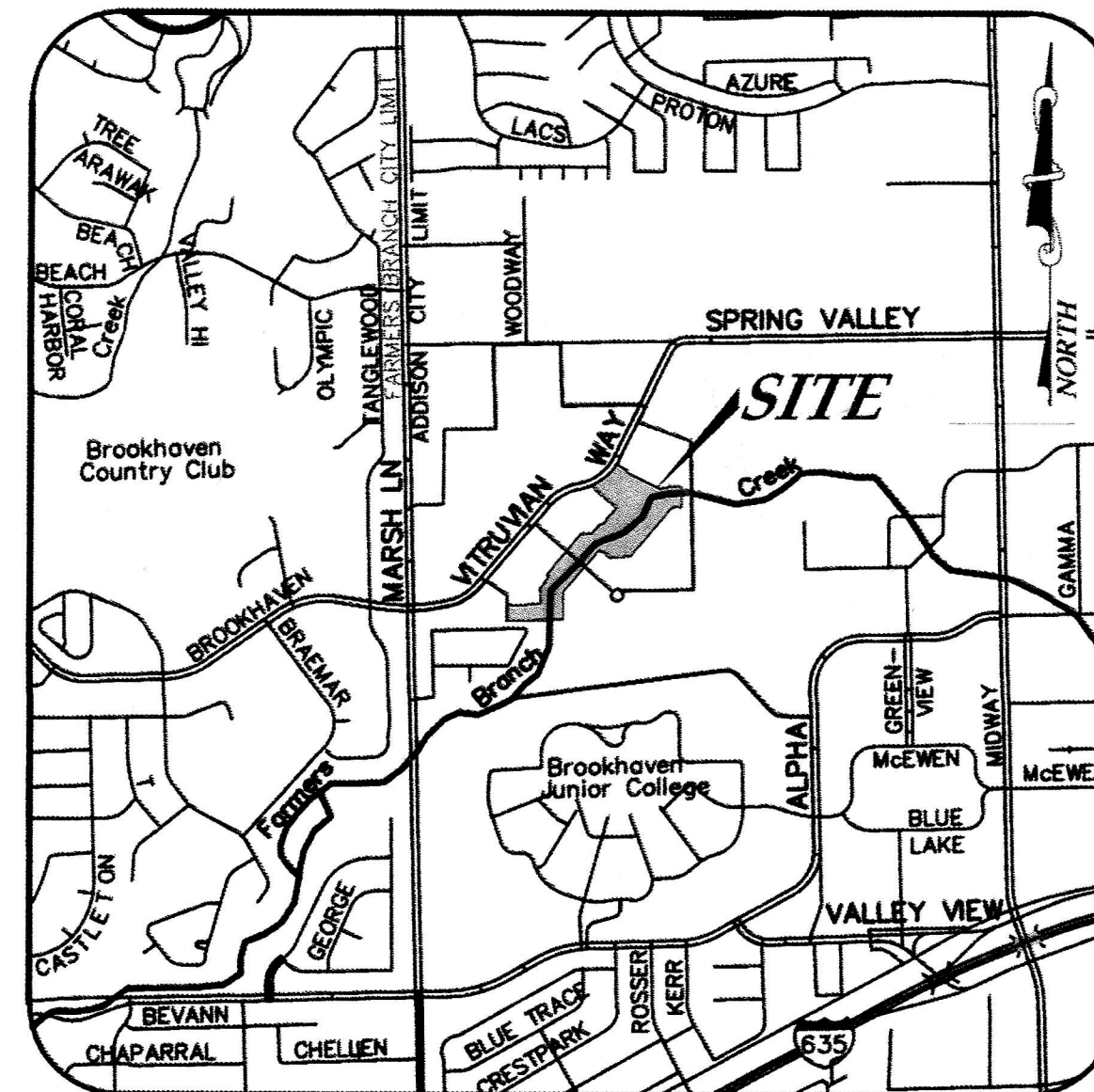
LORI WARD
MARLIN WILLESEN
COUNCIL MEMBERS

WESLEY S. PIERSON
CITY MANAGER

LISA A. PYLES
DIRECTOR OF INFRASTRUCTURE &
DEVELOPMENT SERVICES

JASON SHROYER, P.E.
ASSISTANT DIRECTOR OF INFRASTRUCTURE
& ENGINEERING SERVICES

TODD WEINHEIMER
STREETS AND STORMWATER MANAGER



VICINITY MAP
NOT TO SCALE

SHEET INDEX:

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2	PREVIOUS CONDITIONS
3	EXISTING CONDITIONS
4	MAIN CHANNEL SITE PLAN & BASELINE DATA STA. 1+00 TO STA. 11+50
5	MAIN CHANNEL SITE PLAN & BASELINE DATA STA. 11+50 TO STA. 19+50
6	GROTTO SITE PLAN & BASELINE DATA STA. 0+00 TO STA. 3+20
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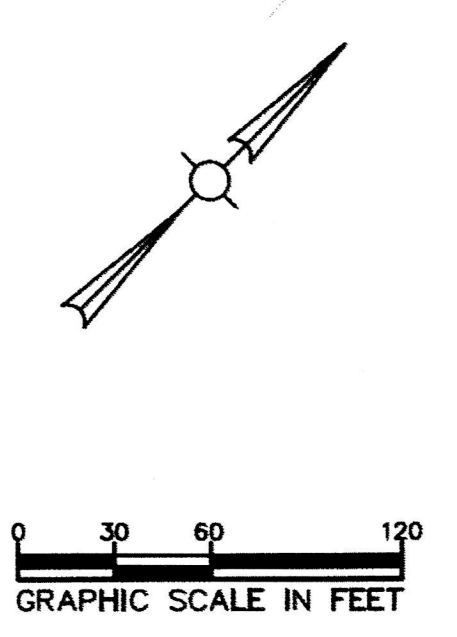
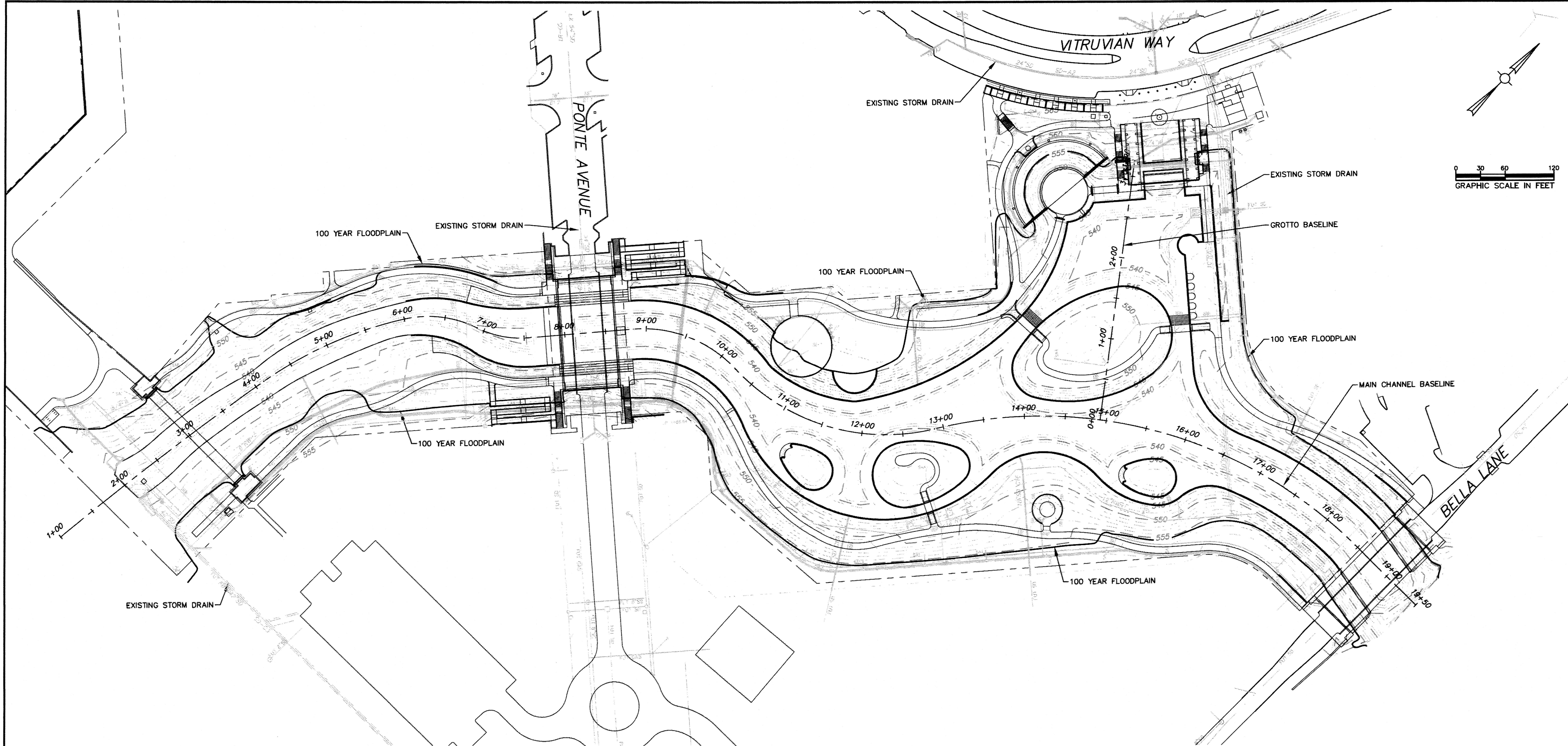
NDM NATHAN D. MAIER
CONSULTING ENGINEERS, INC.
TBPE NO: F-356 / TBPLS NO: 100189-00
12377 Merit Drive / Suite 700 / Dallas, Texas 75251
(214) 739-4741 / www.ndmce.com

February 5, 2019

William L. Wallace
2-5-19

CHECK PRINT NO. _____ PLOT DATE: 2/5/19
 REVIEWED BY: _____ DATE: _____
 CORRECTED BY: _____ DATE: _____
 VERIFIED BY: _____ DATE: _____

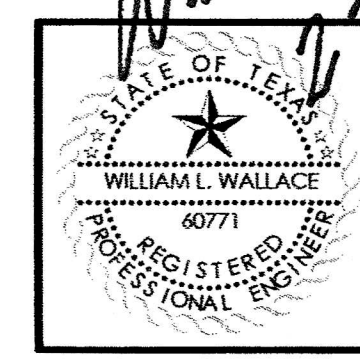
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NOTE:
 PREVIOUS CONDITIONS AND 100 YEAR FLOODPLAIN LIMITS BASED ON PLANS FOR THE CONSTRUCTION OF PARK AND STREETScape IMPROVEMENTS VITRUVIAN PARK FOR VITRUVIAN PARK PUBLIC INFRASTRUCTURE - PHASE 1C TOWN OF ADDISON, TEXAS PUBLIC WORKS #2009-04 BY ICON CONSULTING ENGINEERS, INC. DATED APRIL 26, 2010.

William L. Wallace
 2-5-19

BAR IS ONE INCH ON FULL-SIZE DRAWING ADJUST SCALE IF DRAWING IS REDUCED



revisions	date

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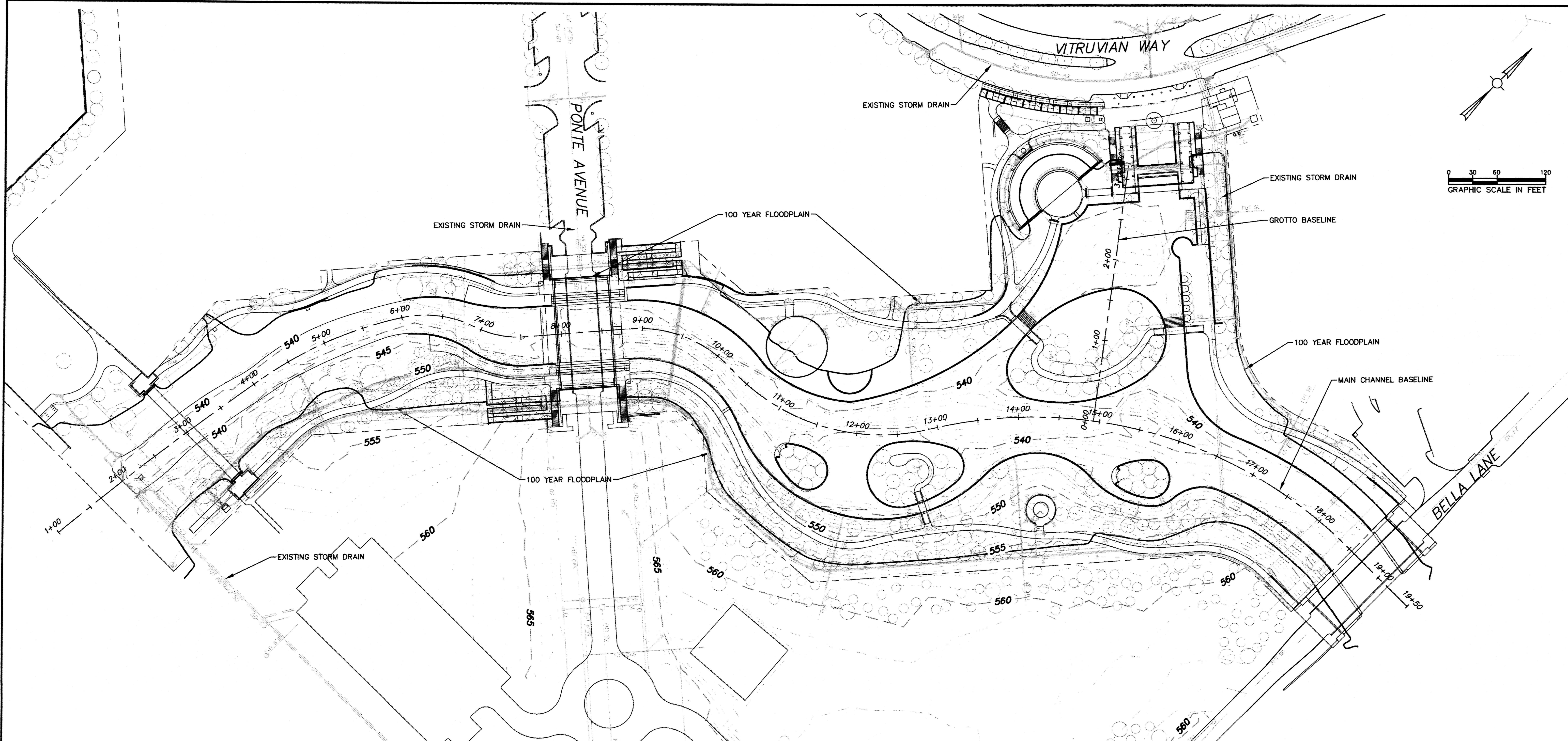
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ADDISON

VITRUVIAN PARK
 DREDGING
 TOWN OF ADDISON
 DALLAS COUNTY, TEXAS

PREVIOUS CONDITIONS				
design	drawn	checked	scale	date
NDM	NDM	NDM	NDM	2/5/19

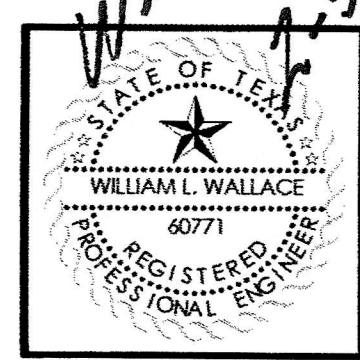
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22	
NDM job number	18-005



NOTES:
 1. EXISTING CONDITIONS BASED ON NDM SURVEY OF JULY 19, 2018 AND AUGUST 20, 2018.

William L. Wallace
 2-5-19

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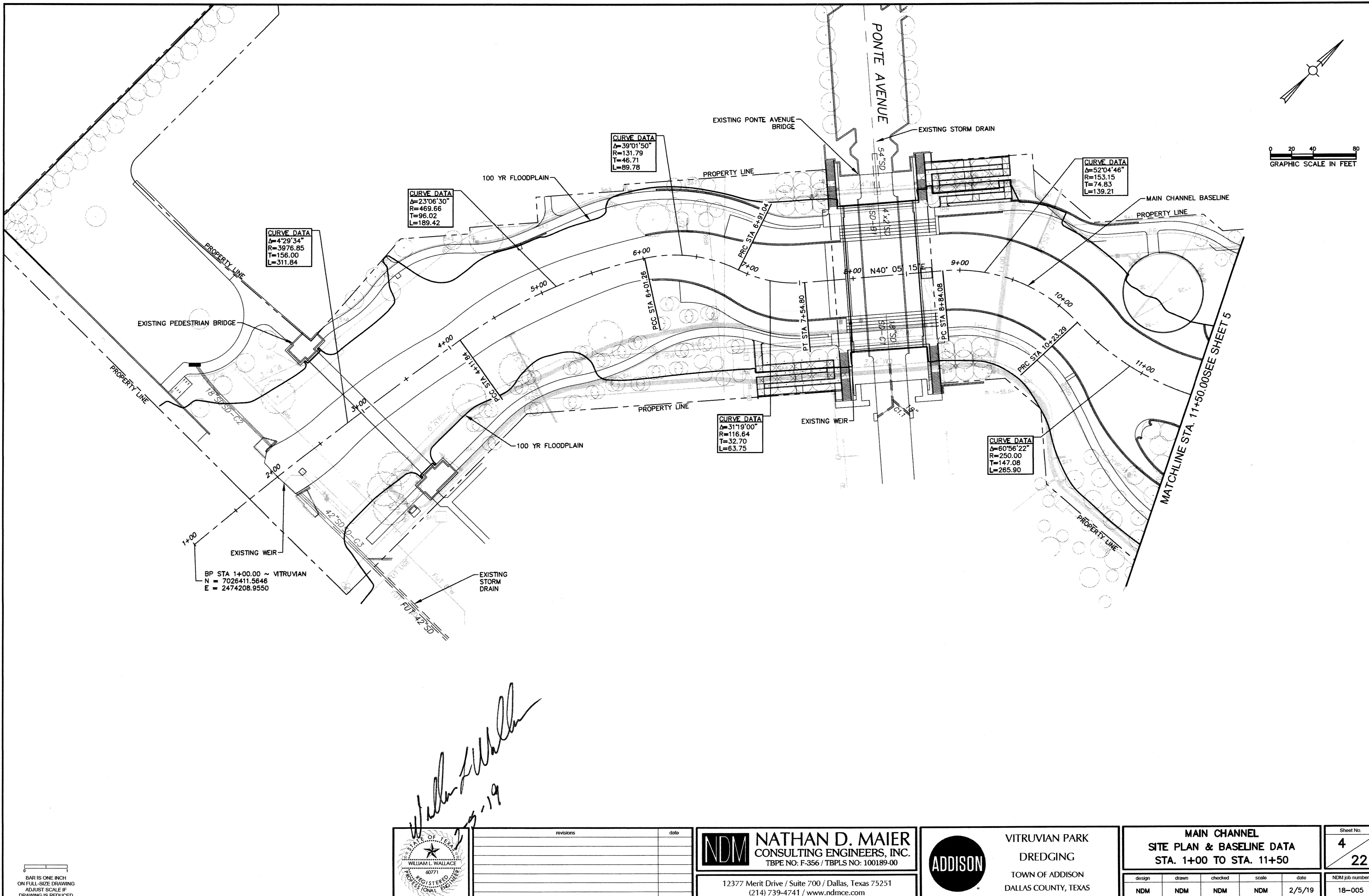
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EXISTING CONDITIONS					Sheet No.
design	drawn	checked	scale	date	3
NDM	NDM	NDM	NDM	2/5/19	22
NDM job number					18-005

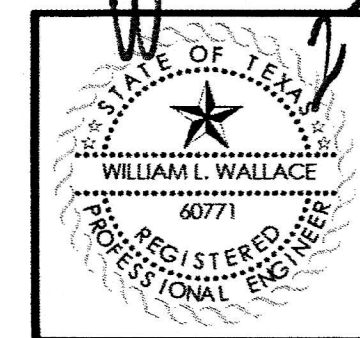
CHECK PRINT NO. _____ PLOT DATE: 2/5/19 DATE: _____
 REVIEWED BY: _____ VERIFIED BY: _____
 DATE: _____



BP STA 1+00.00 ~ VITRUVIAN
 N = 7026411.5646
 E = 2474208.9550

William L. Wallace
 2-5-19

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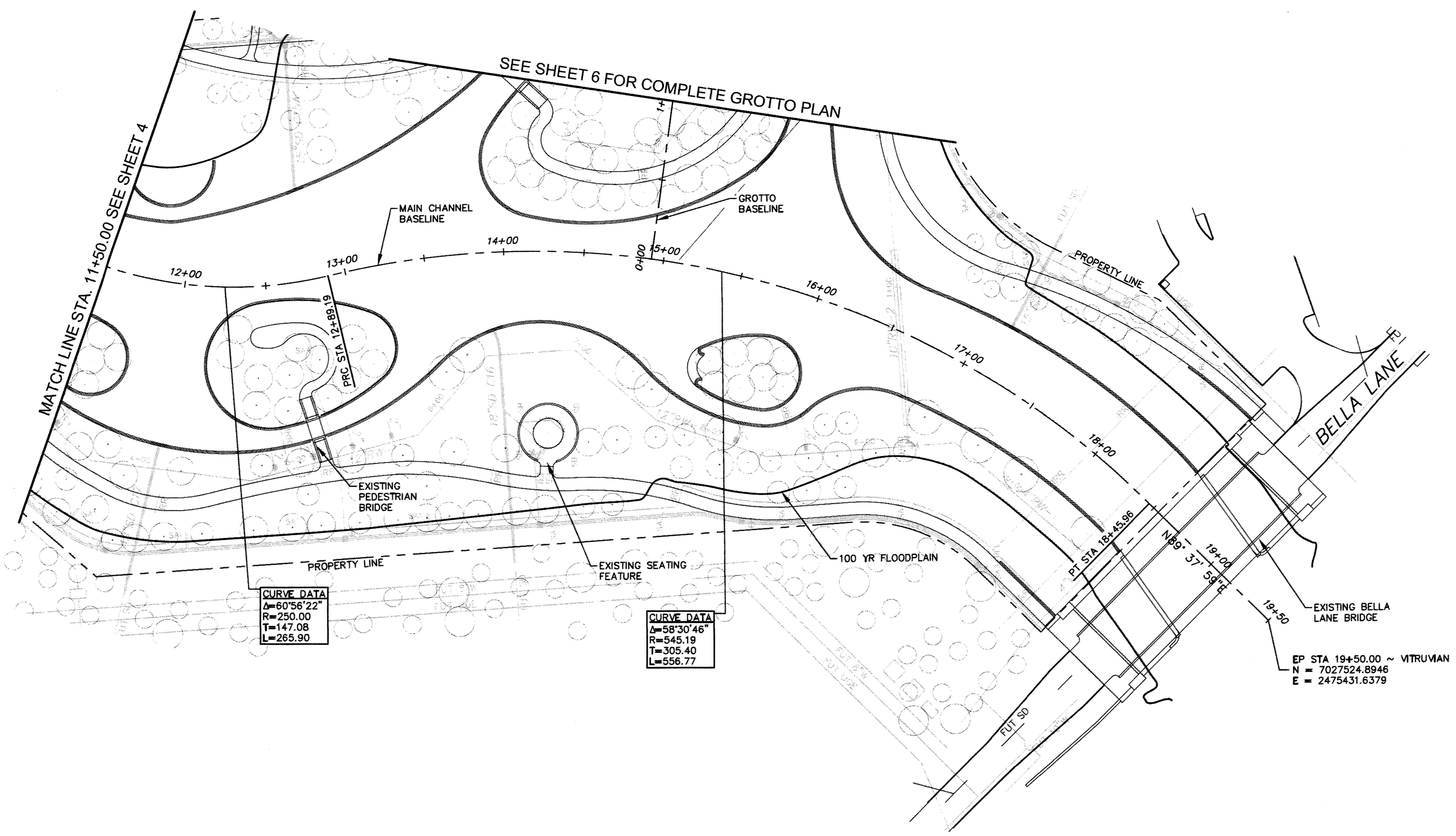
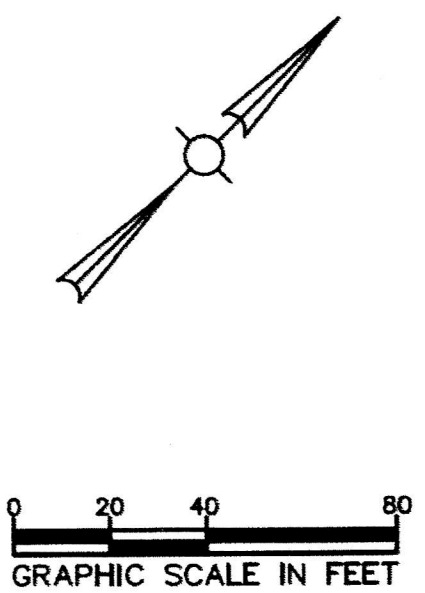
ADDISON

VITRUVIAN PARK
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 DALLAS COUNTY, TEXAS

**MAIN CHANNEL
 SITE PLAN & BASELINE DATA
 STA. 1+00 TO STA. 11+50**

design	drawn	checked	scale	date
NDM	NDM	NDM	NDM	2/5/19

Sheet No.	4
	22
NDM job number	18-005



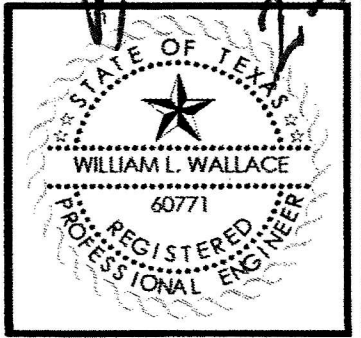
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William Wallace
 2-5-19

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ADDISON

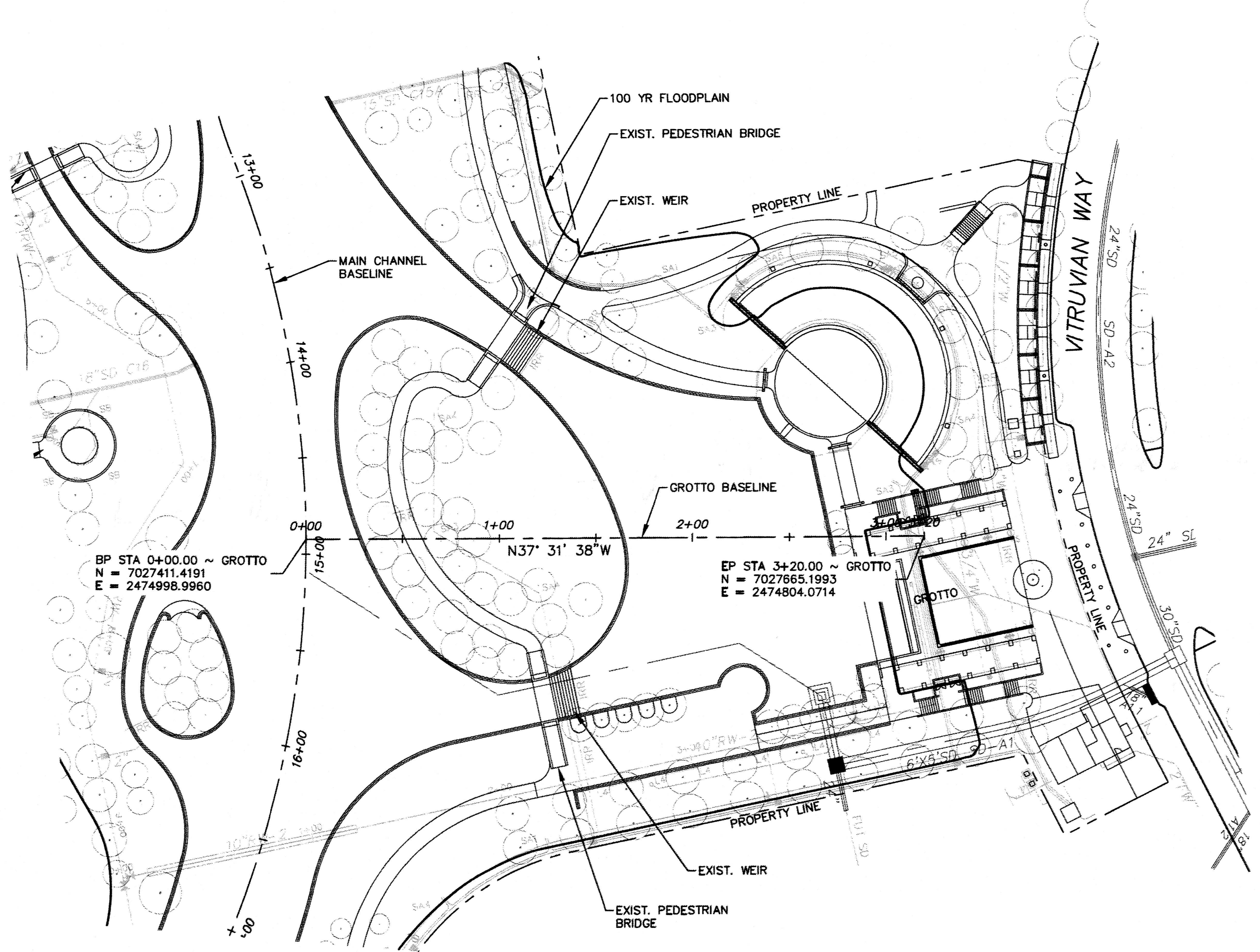
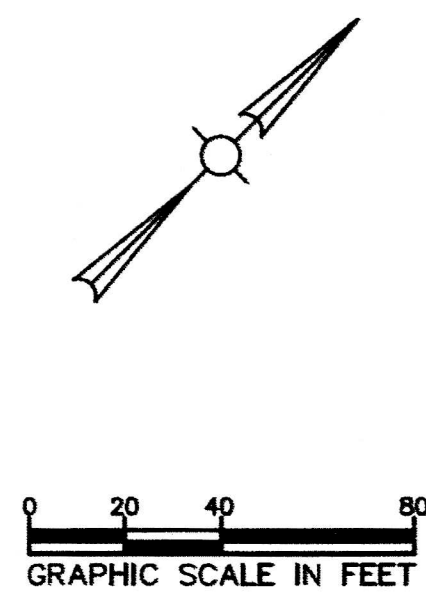
VITRUVIAN PARK
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**MAIN CHANNEL
 SITE PLAN & BASELINE DATA
 STA. 11+50 TO STA. 19+50**

design	drawn	checked	scale	date
NDM	NDM	NDM	NDM	2/5/19

Sheet No.
5
22

NDM job number
 18-005



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 E = 2474998.9960

EP STA 3+20.00 ~ GROTTO
 N = 7027665.1993
 E = 2474804.0714

William L. Wallace
 2-5-19

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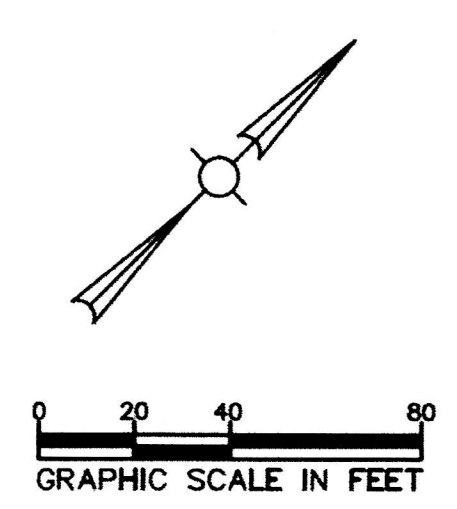
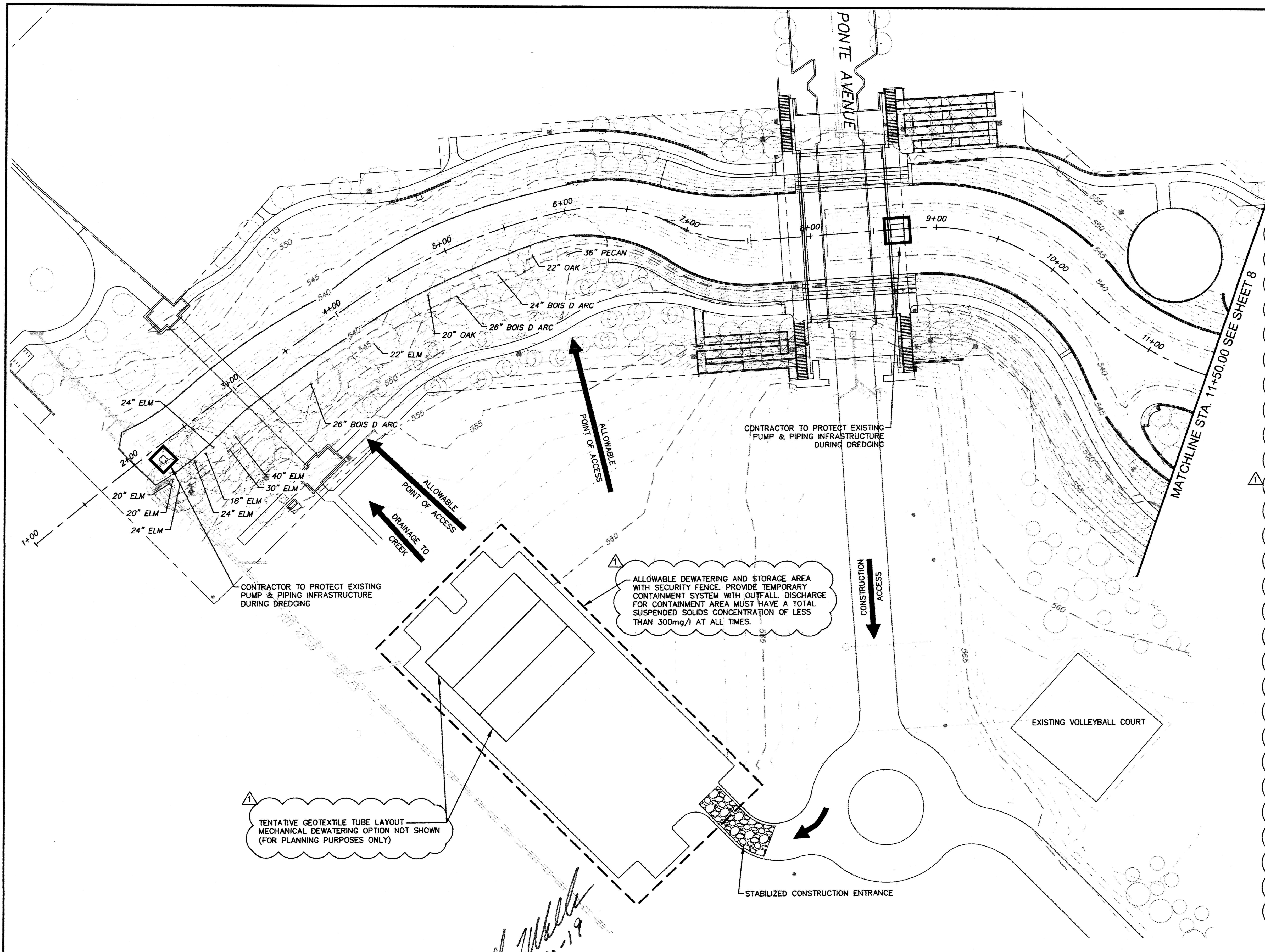
ADDISON

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 DALLAS COUNTY, TEXAS

**GROTTO
 SITE PLAN & BASELINE DATA
 STA. 0+00 TO STA. 3+20**

design	drawn	checked	scale	date
NDM	NDM	NDM	NDM	2/5/19

Sheet No. 6
22
NDM job number 18-005



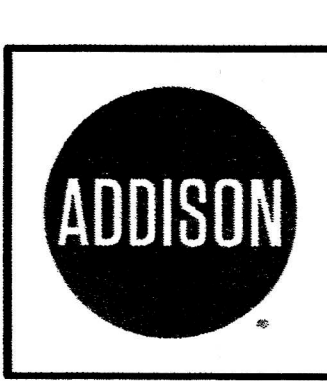
- NOTES:
- PREVIOUS CONDITIONS BASED ON PLANS FOR THE CONSTRUCTION OF PARK AND STREETSCAPE IMPROVEMENTS VITRUVIAN PARK FOR VITRUVIAN PARK PUBLIC INFRASTRUCTURE - PHASE 1C TOWN OF ADDISON, TEXAS PUBLIC WORKS #2009-04 BY ICON CONSULTING ENGINEERS, INC. DATED APRIL 26, 2010.
 - CONTRACTOR'S MEANS AND METHODS SHALL NOT OBSTRUCT PEDESTRIAN TRAILS AND FACILITIES.
 - CONTRACTOR SHALL PLACE THE CONSTRUCTION ENTRANCES PRIOR TO BEGINNING WORK. CONSTRUCTION ENTRANCE LOCATIONS SHALL BE STAKED AND APPROVED BY TOWN BEFORE PLACEMENT. EACH CONSTRUCTION ENTRANCE SHALL BE REMOVED AT THE COMPLETION OF WORK.
 - NO EQUIPMENT STORAGE OR PARKING OR MATERIAL STORAGE SHALL BE PERMITTED UNDER THE DRIP LINE OF EXISTING TREES. CONTRACTOR TO PROTECT EXISTING TREES.
 - EXISTING TREES SHALL NOT BE DAMAGED BY THE CONSTRUCTION ACTIVITIES. ANY TREES REQUIRING TRIMMING TO AVOID DAMAGE SHALL BE FLAGGED BY THE CONTRACTOR AND THE EXTENT OF TRIMMING SHALL BE MARKED. TRIMMING SHALL BE PERFORMED BY SAWING BRANCHES CLEANLY. TOWN SHALL REVIEW AND APPROVE ALL TRIMMING PRIOR TO WORK. TREE TRIMMING SHALL BE PERFORMED BY A PROFESSIONAL LANDSCAPER.
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 - CONTRACTOR SHALL REMOVE SEDIMENT TO THE APPROXIMATE ELEVATIONS TO THE "PREVIOUS CONDITIONS" SHOWN ON THESE PLANS.
 - CONTRACTOR SHALL SUBMIT A REMOVAL, DEWATERING, CONTAINMENT AND DISPOSAL PLAN PRIOR TO BEGINNING CONSTRUCTION. THE PLAN SHALL BE CONSISTENT WITH SECURED PERMITS.
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BAR IS ONE INCH ON FULL-SIZE DRAWING ADJUST SCALE IF DRAWING IS REDUCED

William L. Wallace
 2/20/19
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF TEXAS
 WILLIAM L. WALLACE
 60771

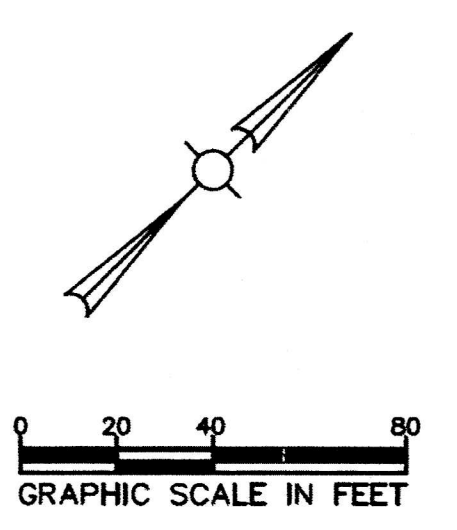
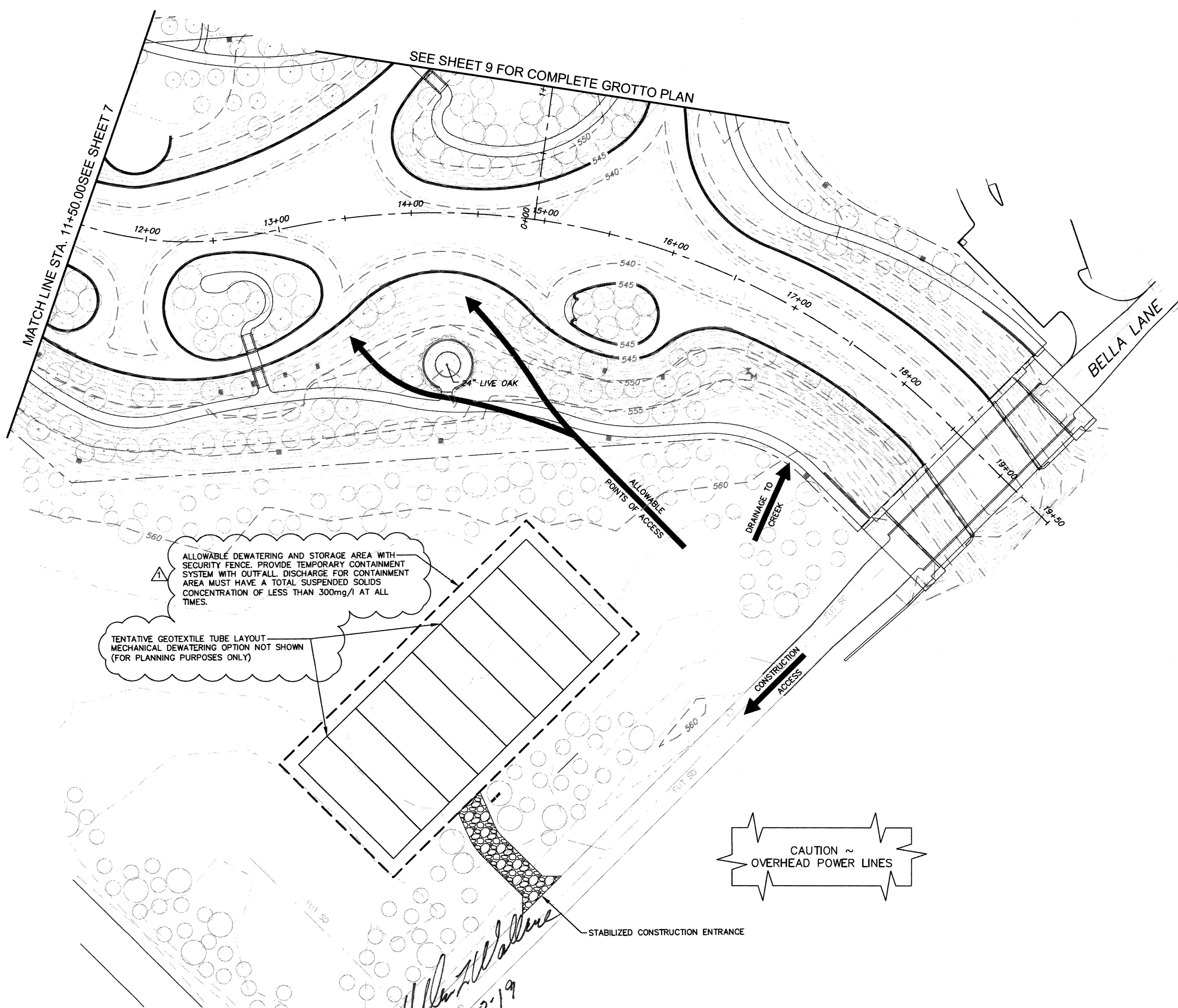
revisions	date
1 ADDENDUM 3	2/20/2019

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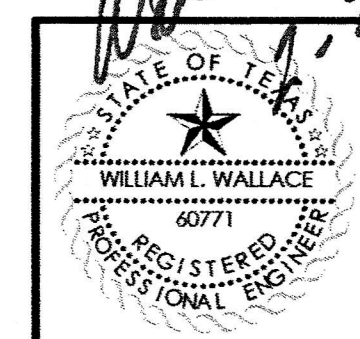
VITRUVIAN PARK
 DREDGING
 TOWN OF ADDISON
 DALLAS COUNTY, TEXAS

DEWATERING AND STORAGE LOCATION					Sheet No.
STA. 1+00 TO STA. 11+50					7
					22
design	drawn	checked	scale	date	NDM job number
NDM	NDM	NDM	NDM	2/20/19	18-005



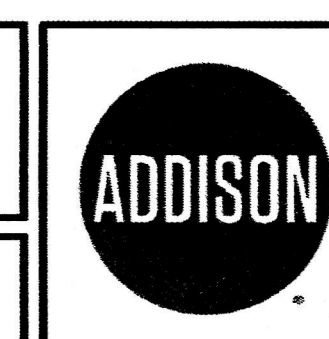
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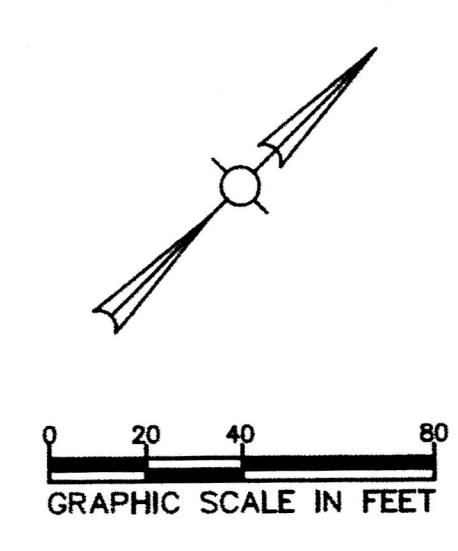
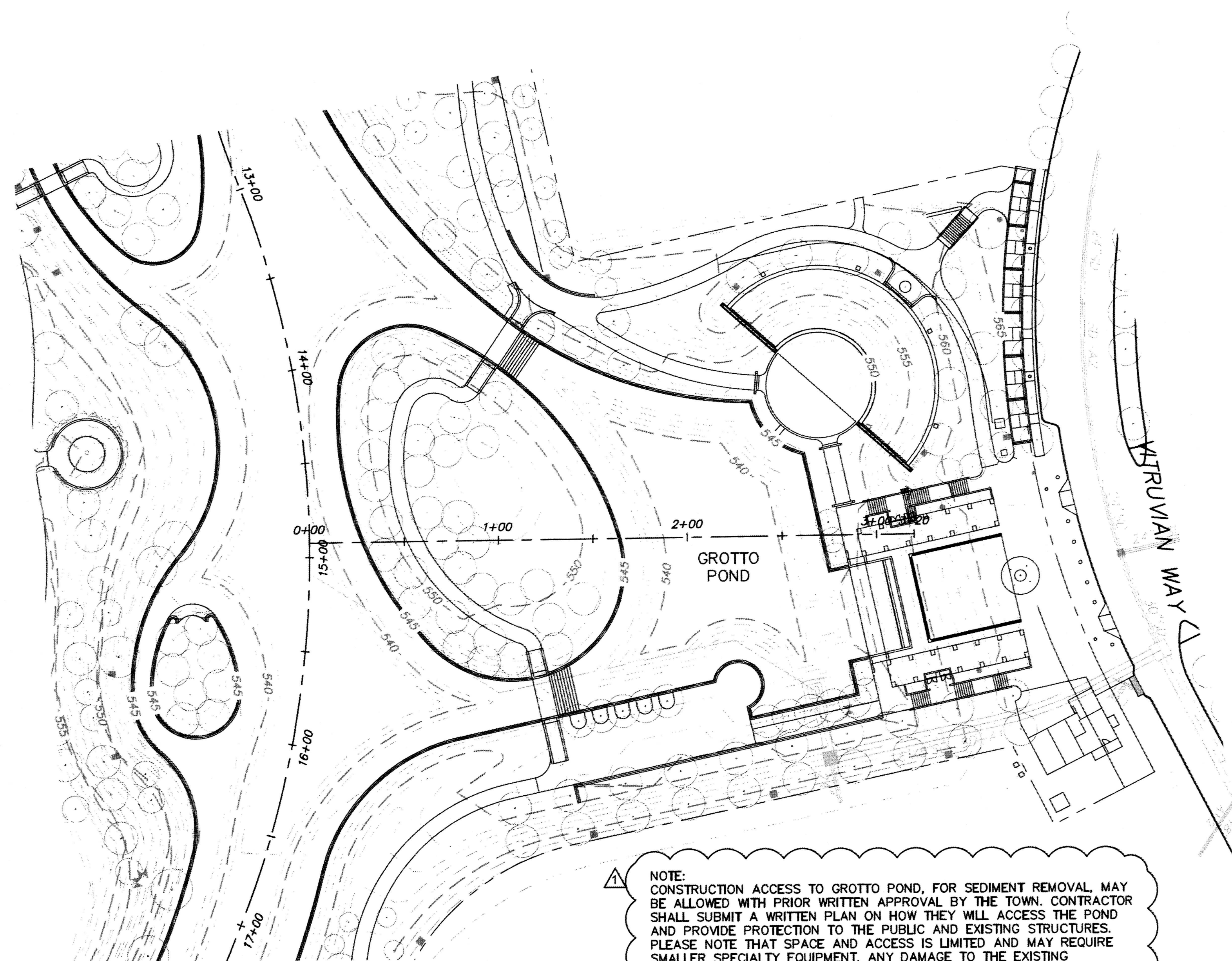
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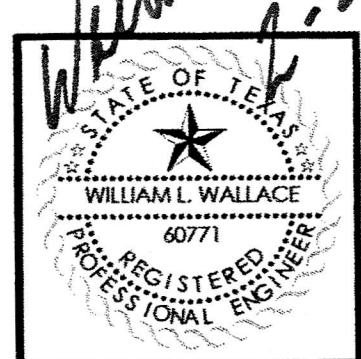
DEWATERING AND STORAGE LOCATION					Sheet No.
STA. 11+50 TO STA. 19+50					8
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NOTE:
 CONSTRUCTION ACCESS TO GROTTO POND, FOR SEDIMENT REMOVAL, MAY BE ALLOWED WITH PRIOR WRITTEN APPROVAL BY THE TOWN. CONTRACTOR SHALL SUBMIT A WRITTEN PLAN ON HOW THEY WILL ACCESS THE POND AND PROVIDE PROTECTION TO THE PUBLIC AND EXISTING STRUCTURES. PLEASE NOTE THAT SPACE AND ACCESS IS LIMITED AND MAY REQUIRE SMALLER SPECIALTY EQUIPMENT. ANY DAMAGE TO THE EXISTING STRUCTURES THAT OCCURS AS A RESULT OF THE CONTRACTOR'S ACTIONS IS TO BE REPLACED AT THE CONTRACTOR'S EXPENSE.

William L. Wallace
 2-20-19



revisions	date
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ADDISON

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DEWATERING AND STORAGE LOCATION
 STA. 0+00 TO STA. 3+20

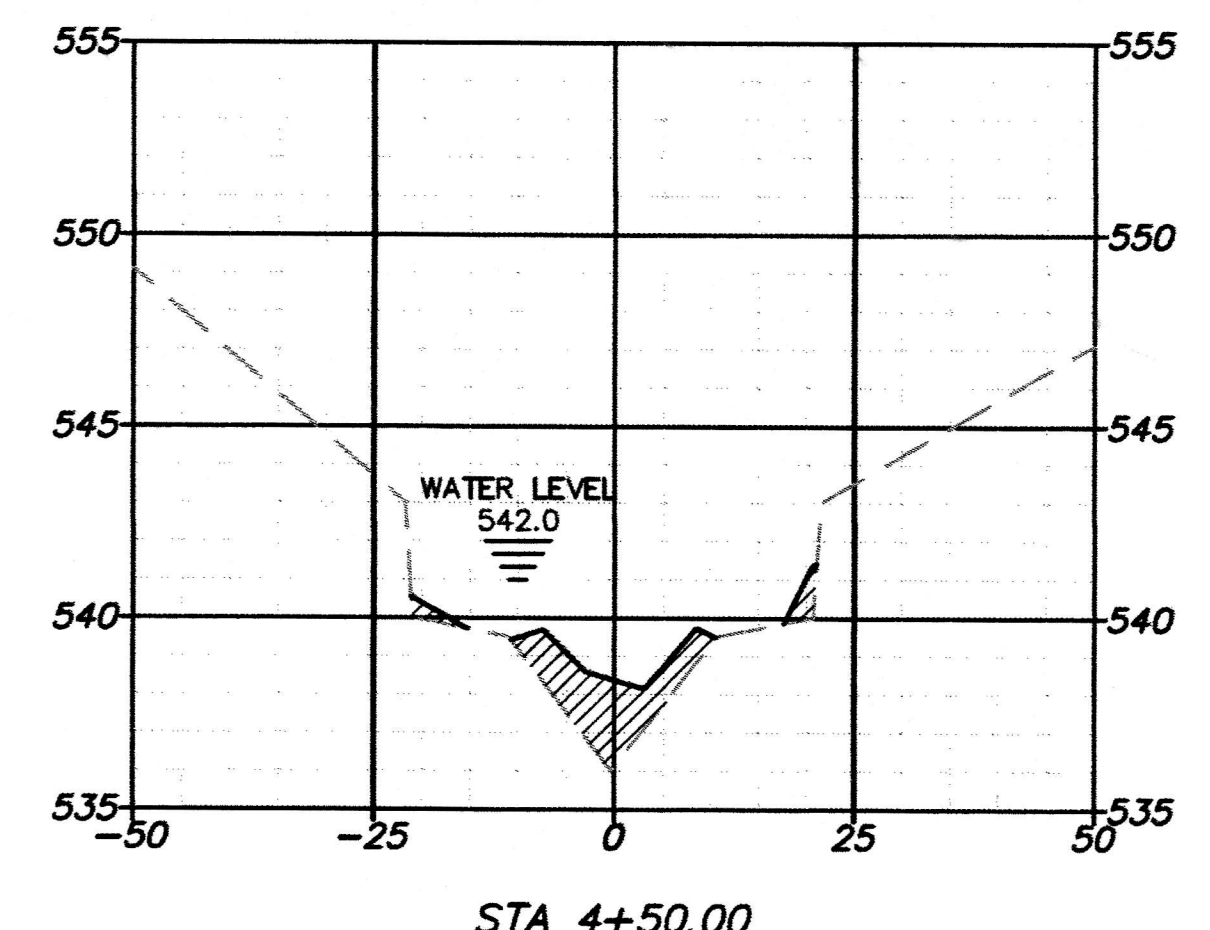
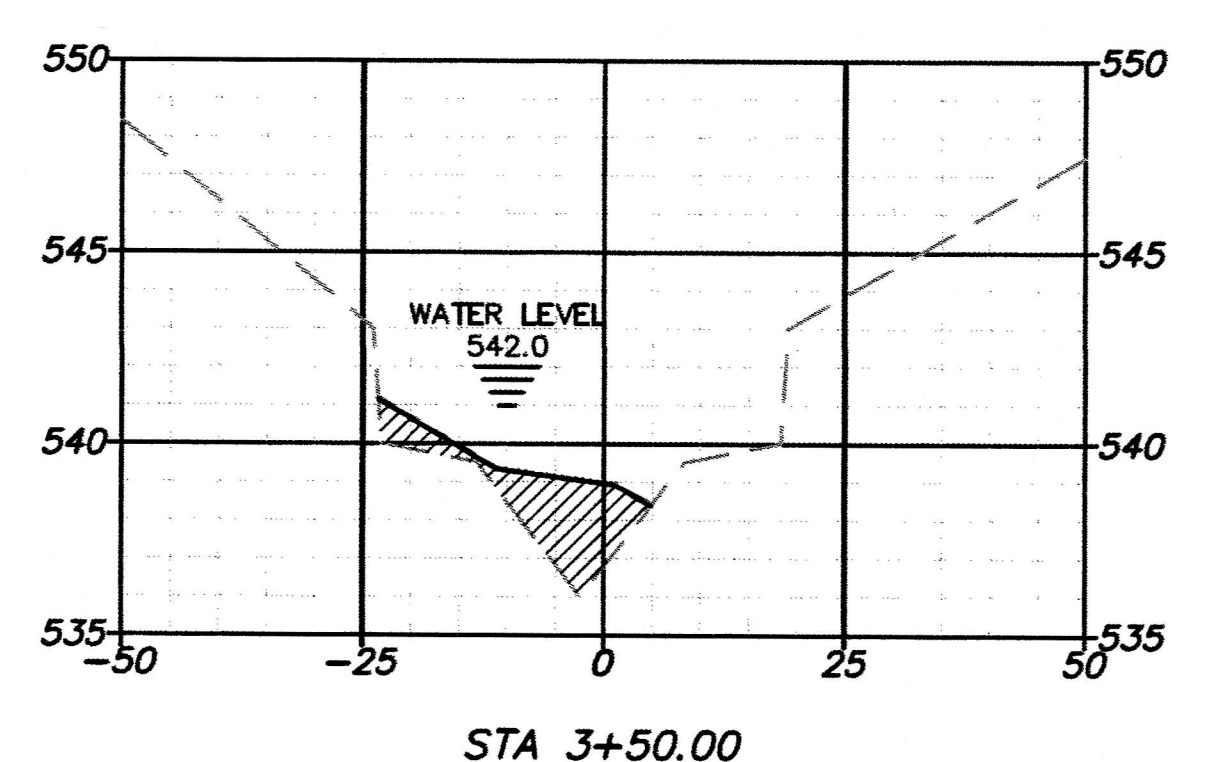
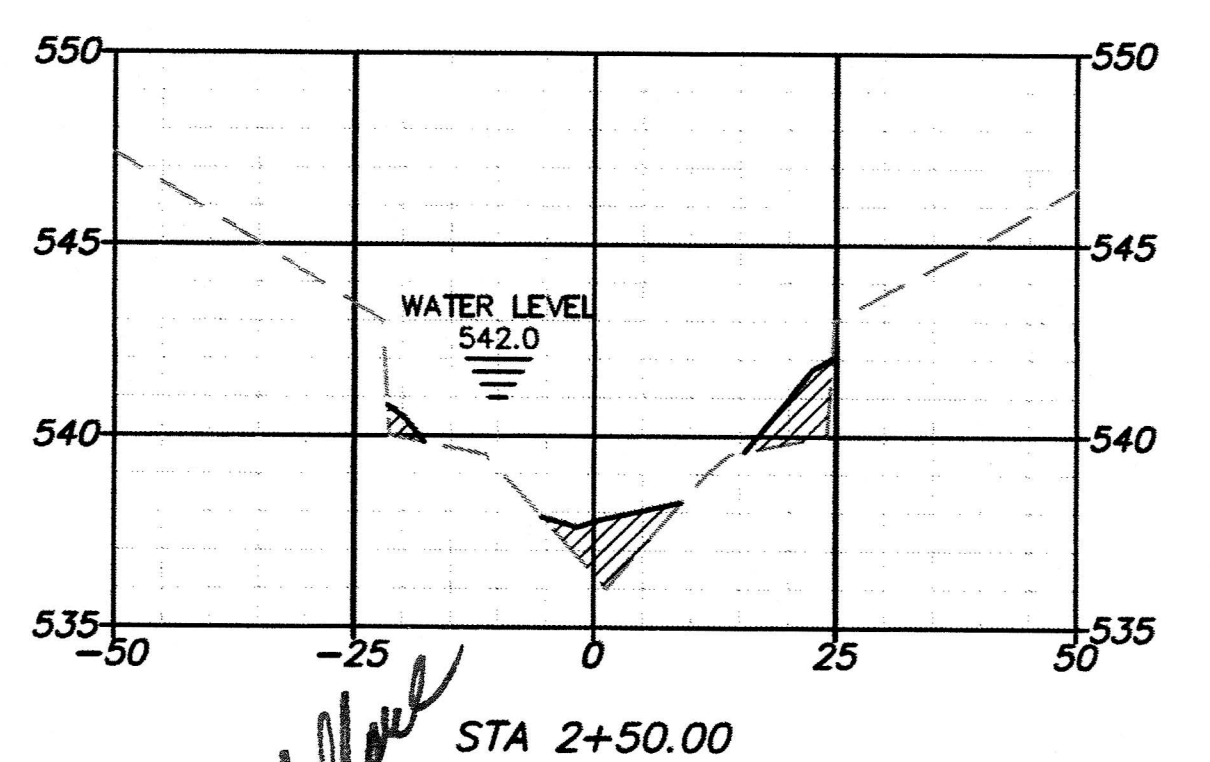
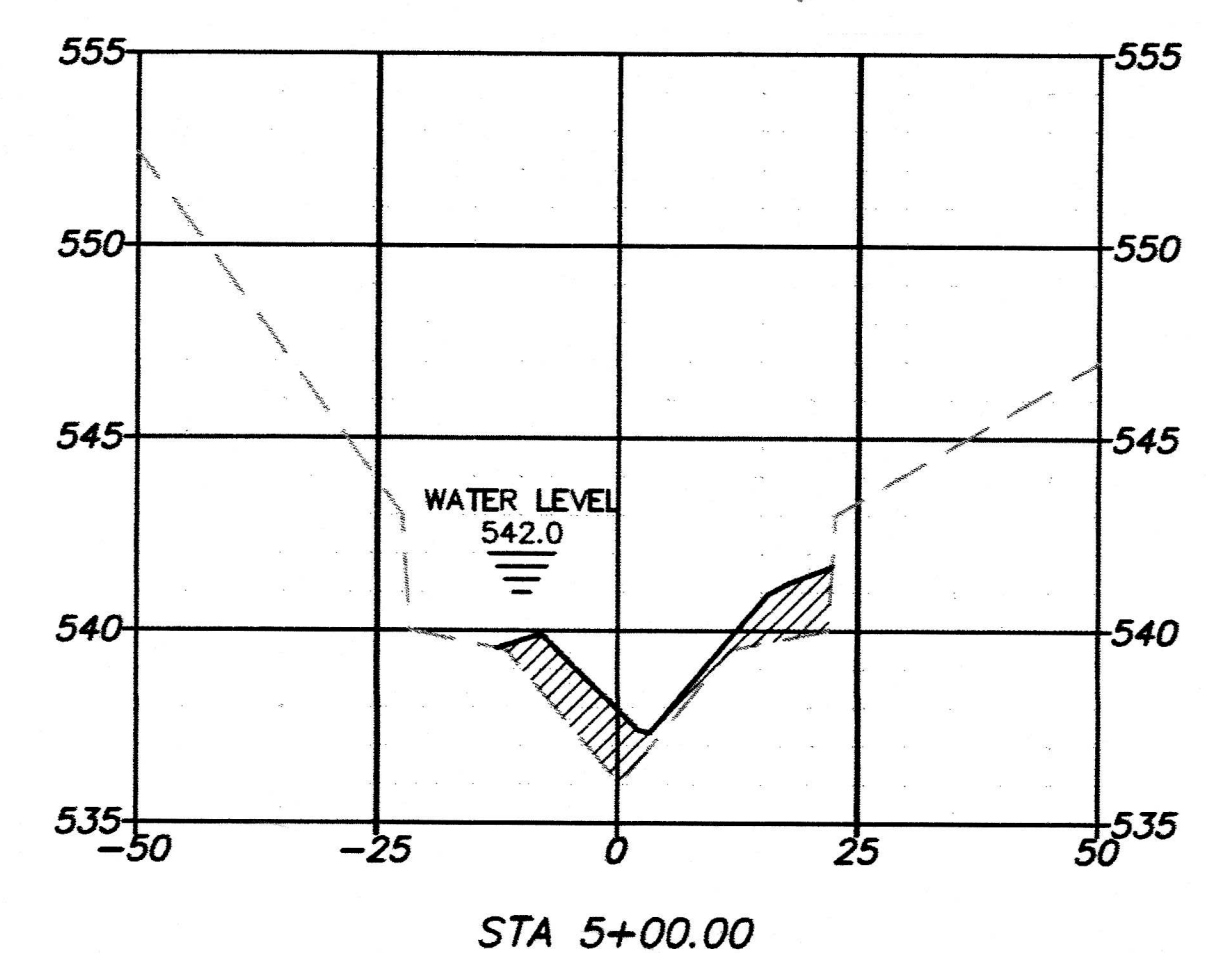
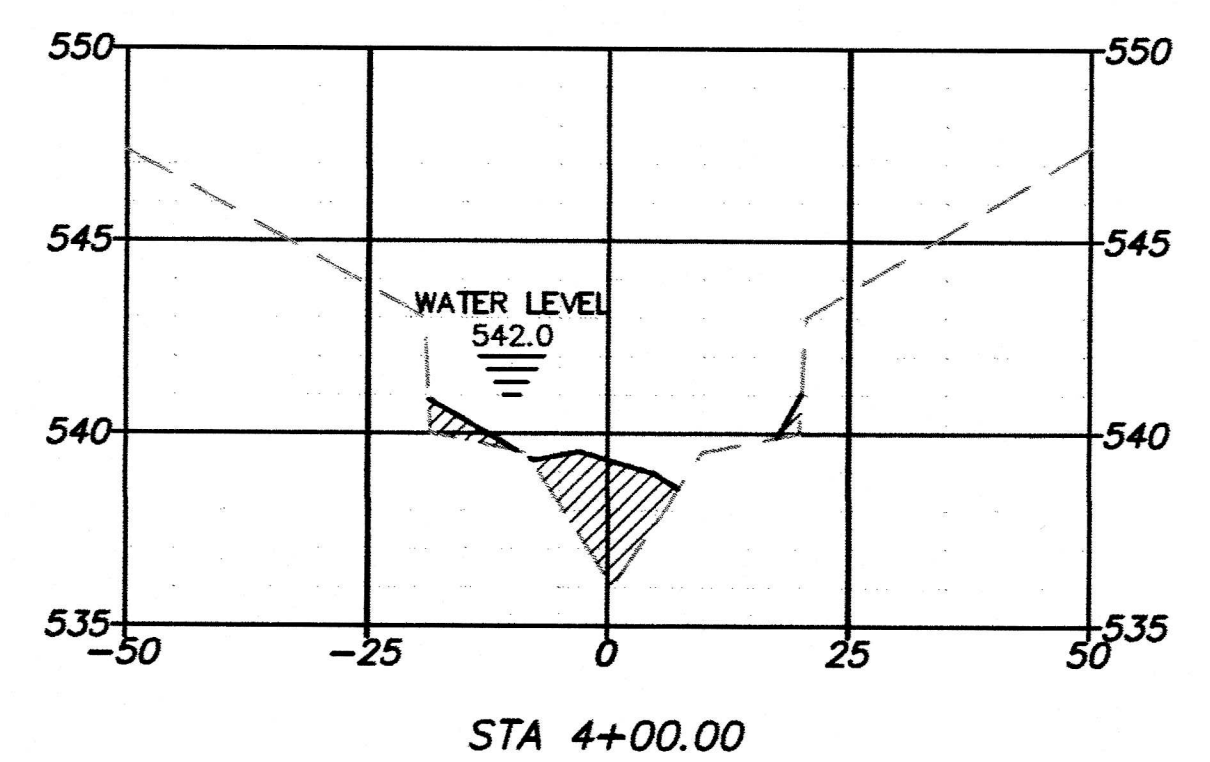
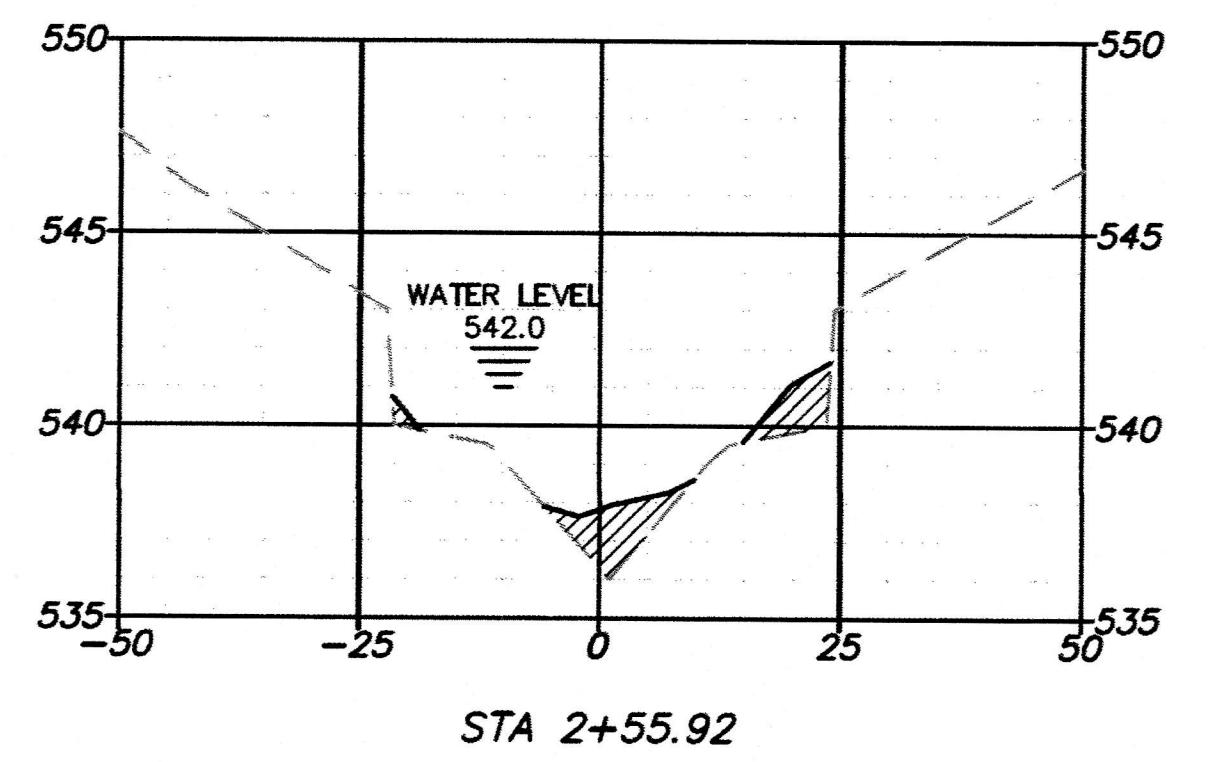
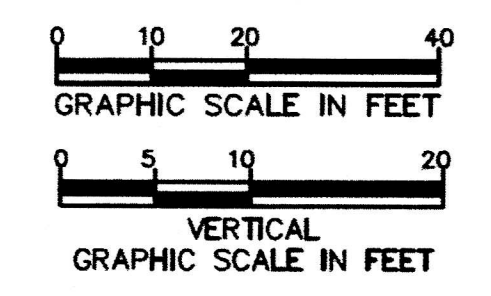
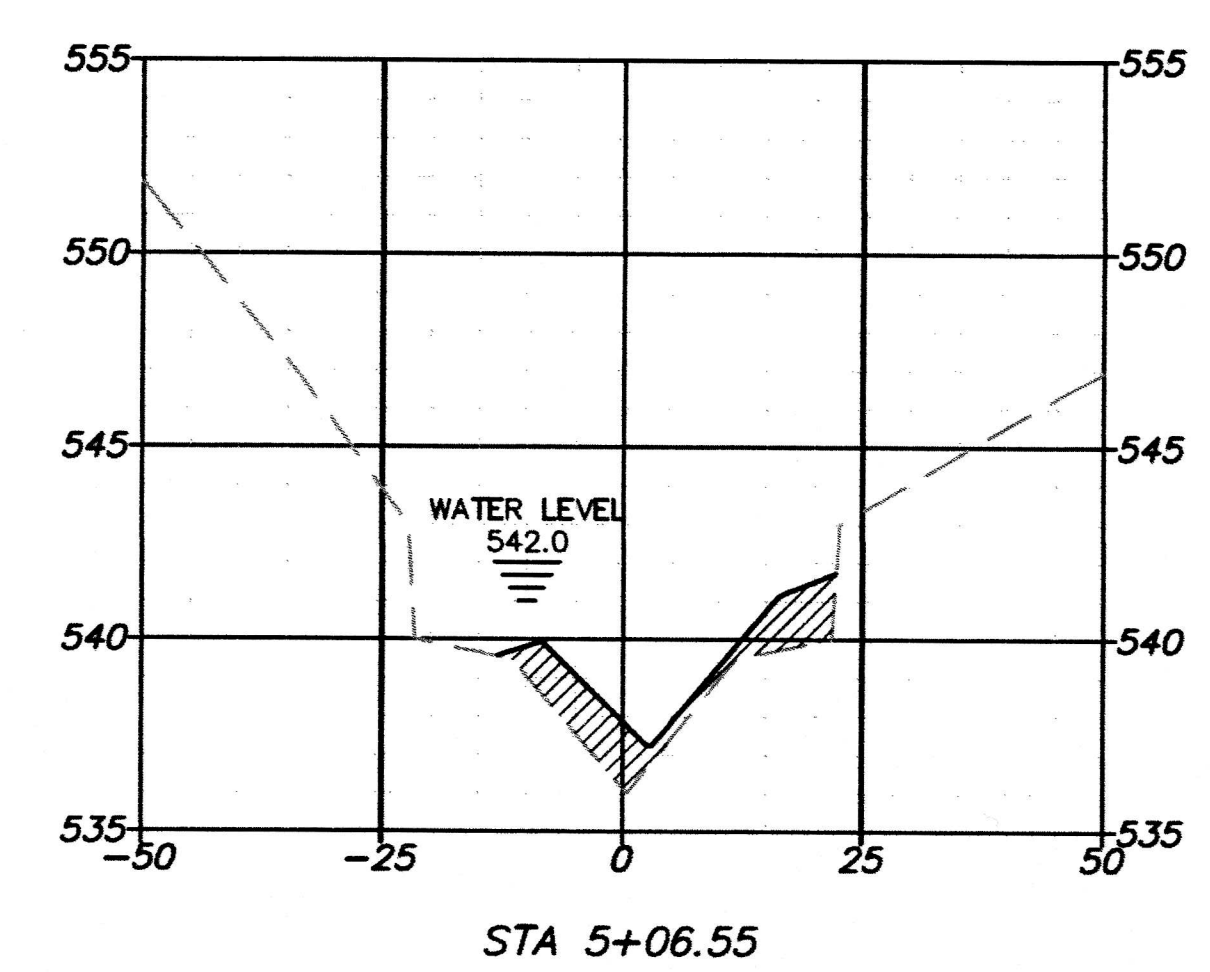
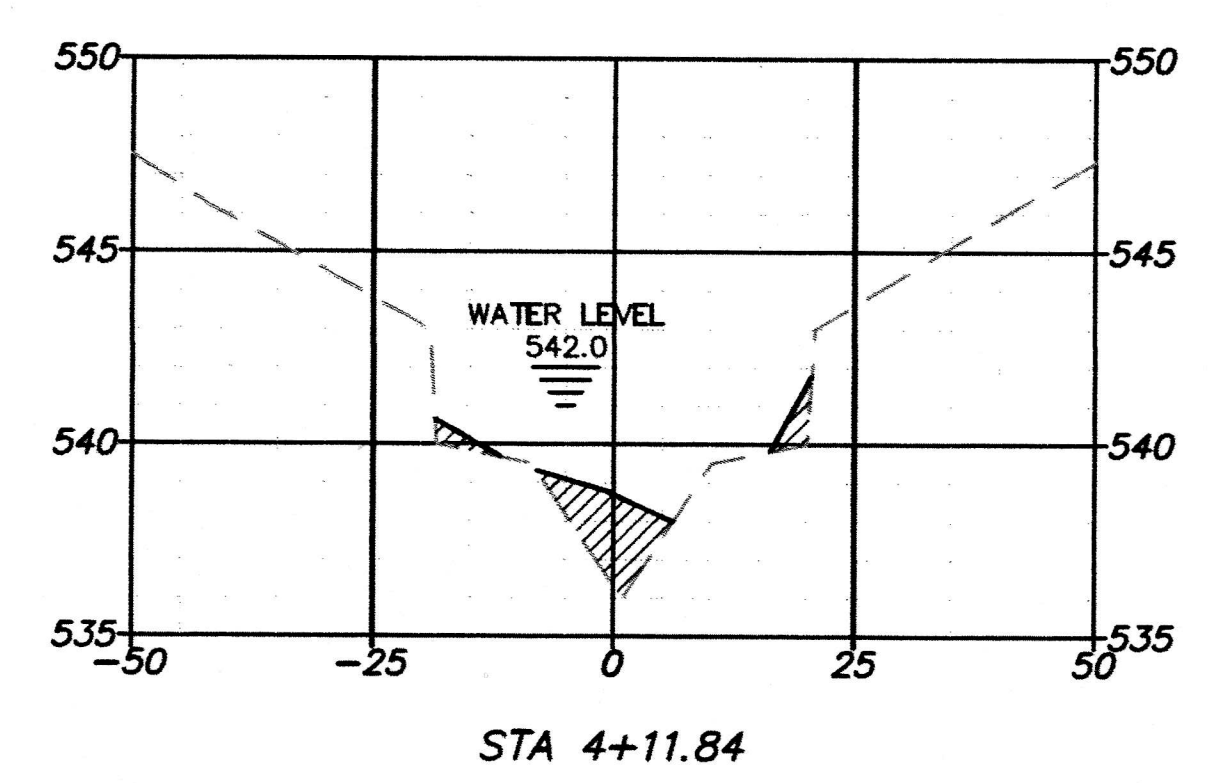
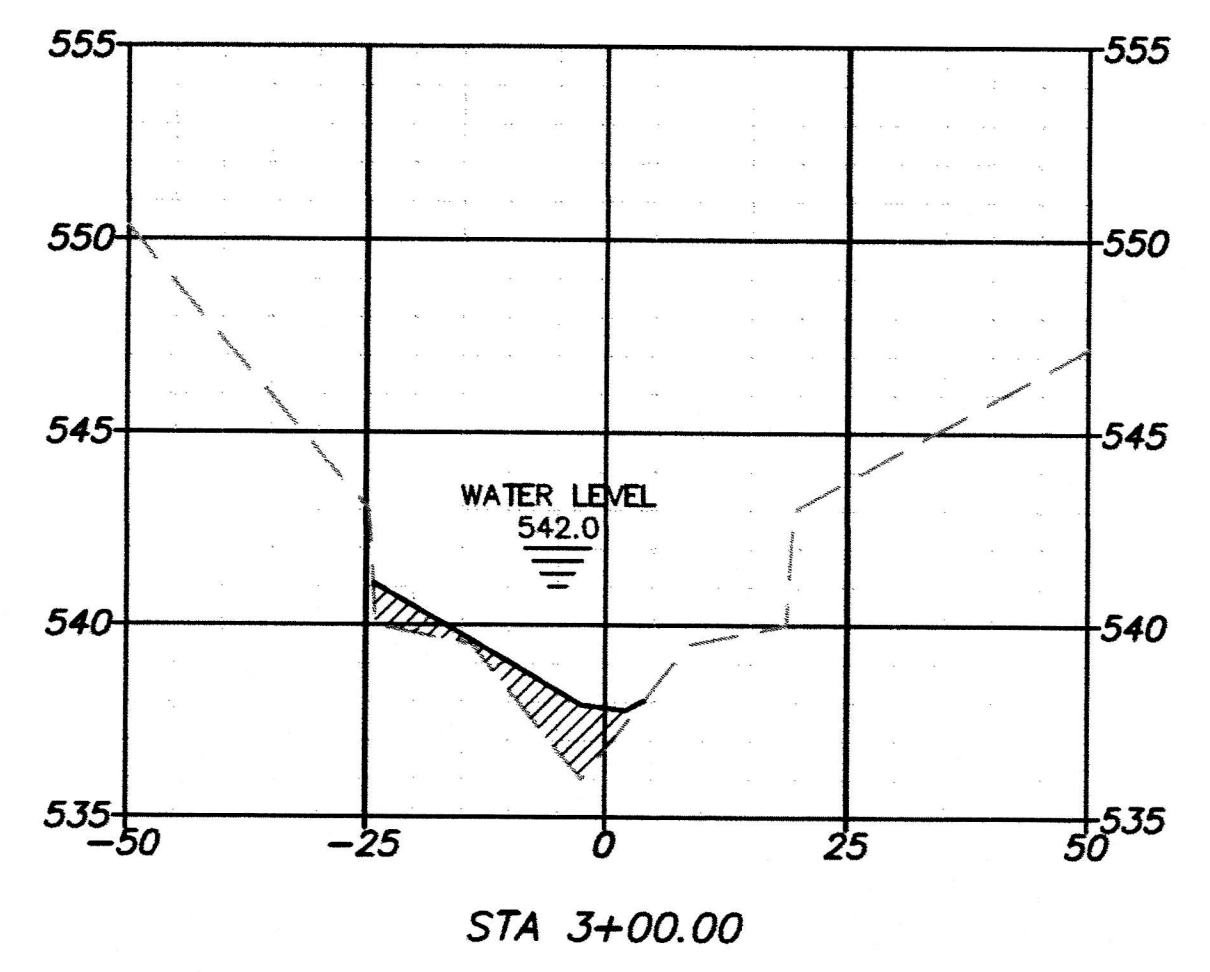
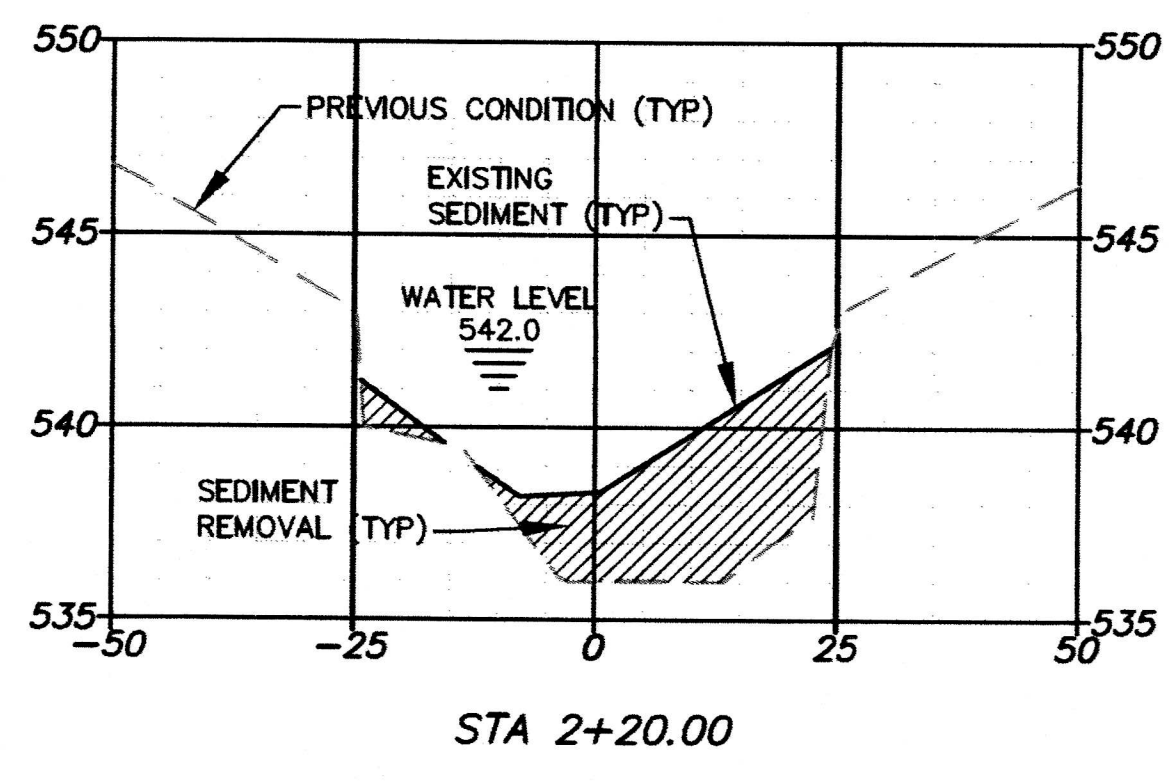
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NDM	NDM	NDM	NDM	2/20/19

Sheet No.	9
NDM job number	18-005

BAR IS ONE INCH
 ON FULL-SIZE DRAWING
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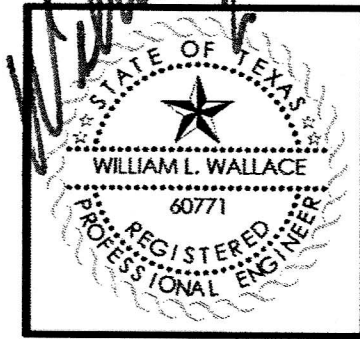
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NOTE: SEDIMENT AMOUNTS AND LOCATIONS AS SURVEYED ON 07/19/2018 AND 08/20/2018.

▲ WATER SURFACE ADDED BASED ON SURVEY OF 2/18/2019.

BAR IS ONE INCH ON FULL-SIZE DRAWING ADJUST SCALE IF DRAWING IS REDUCED



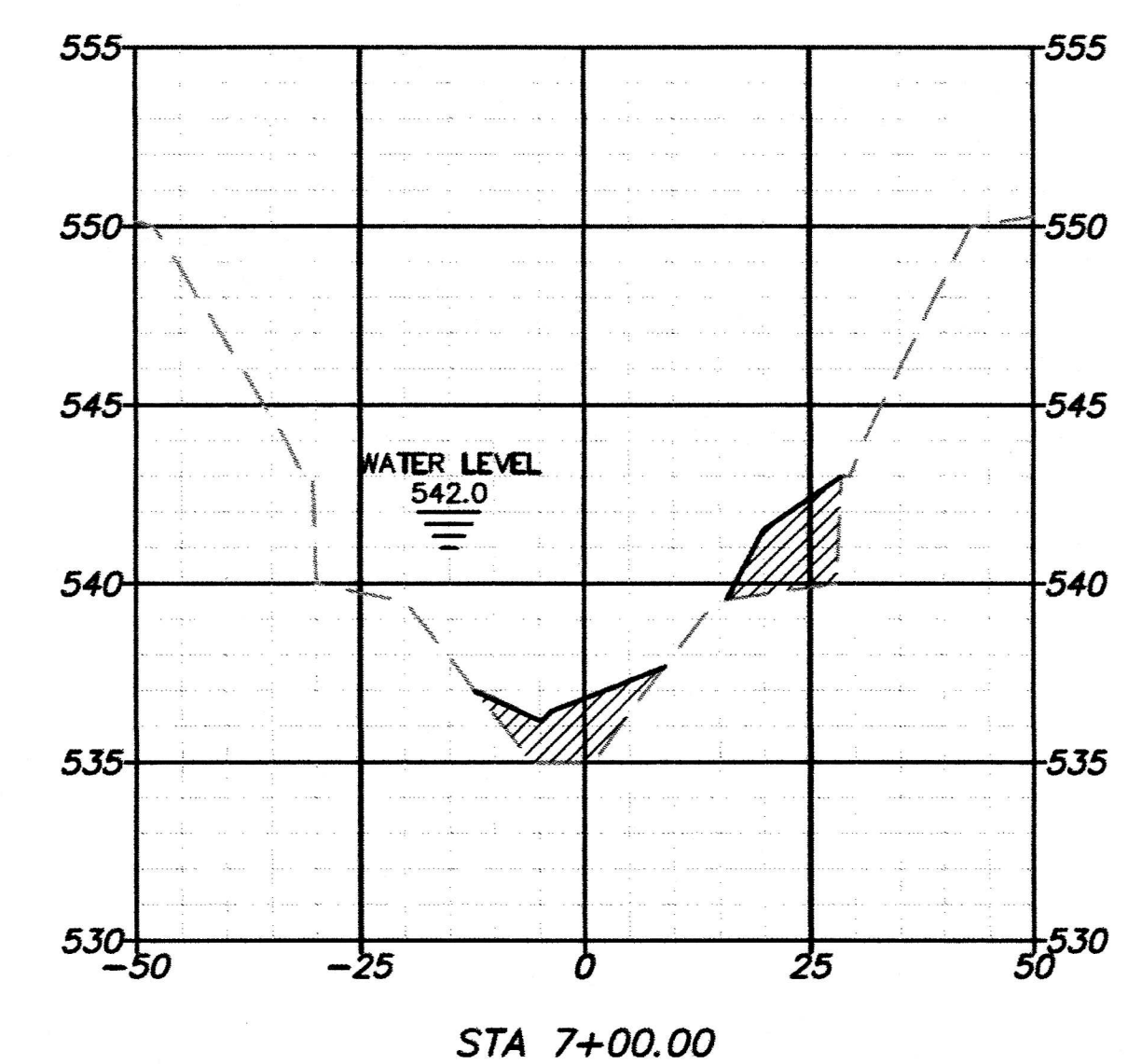
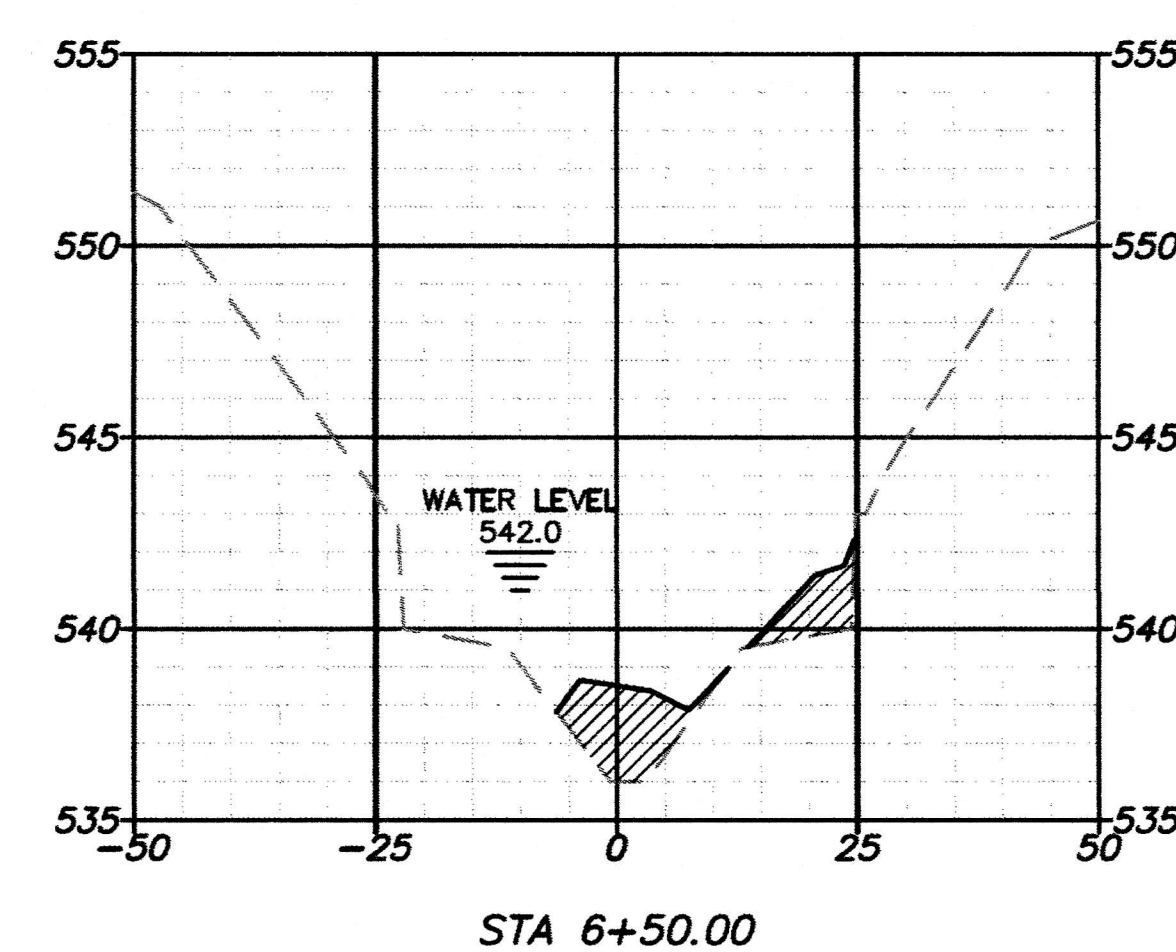
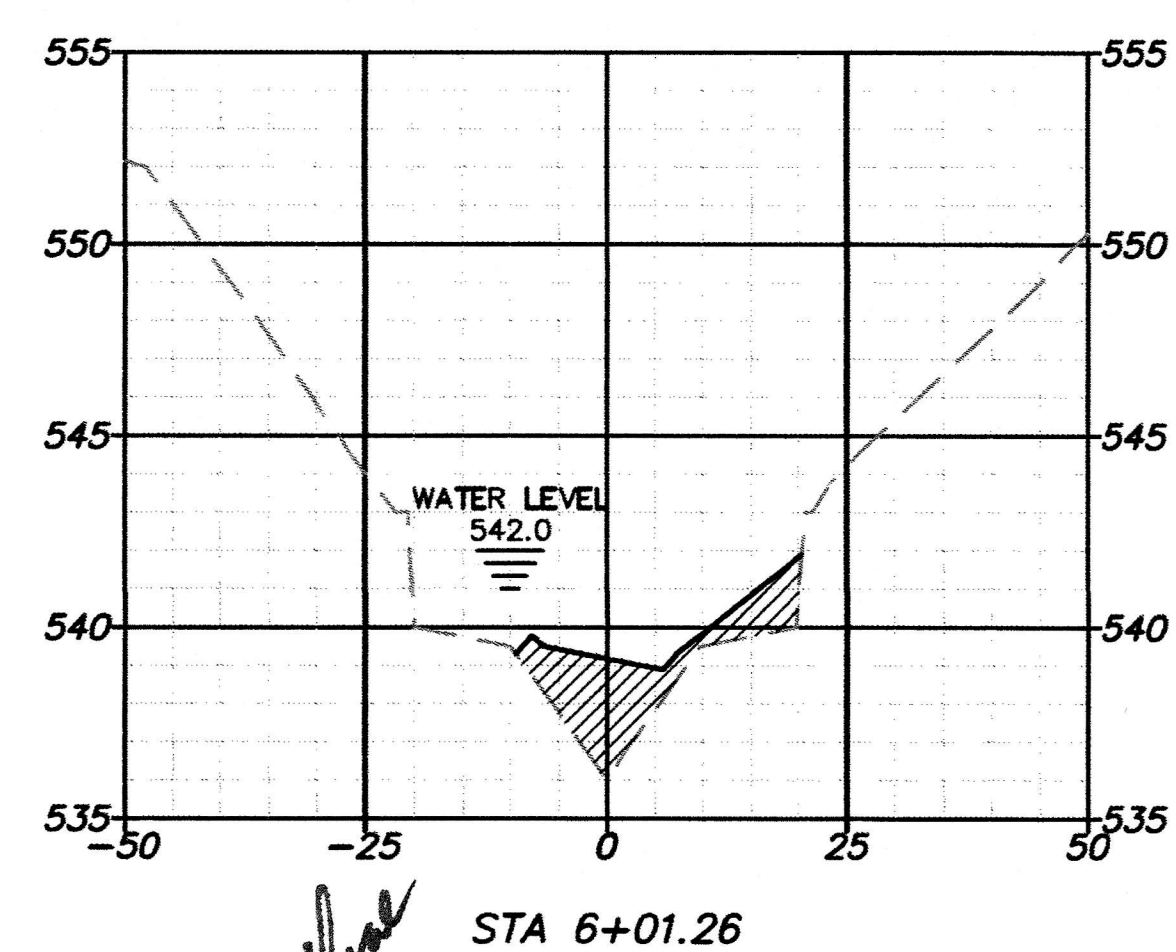
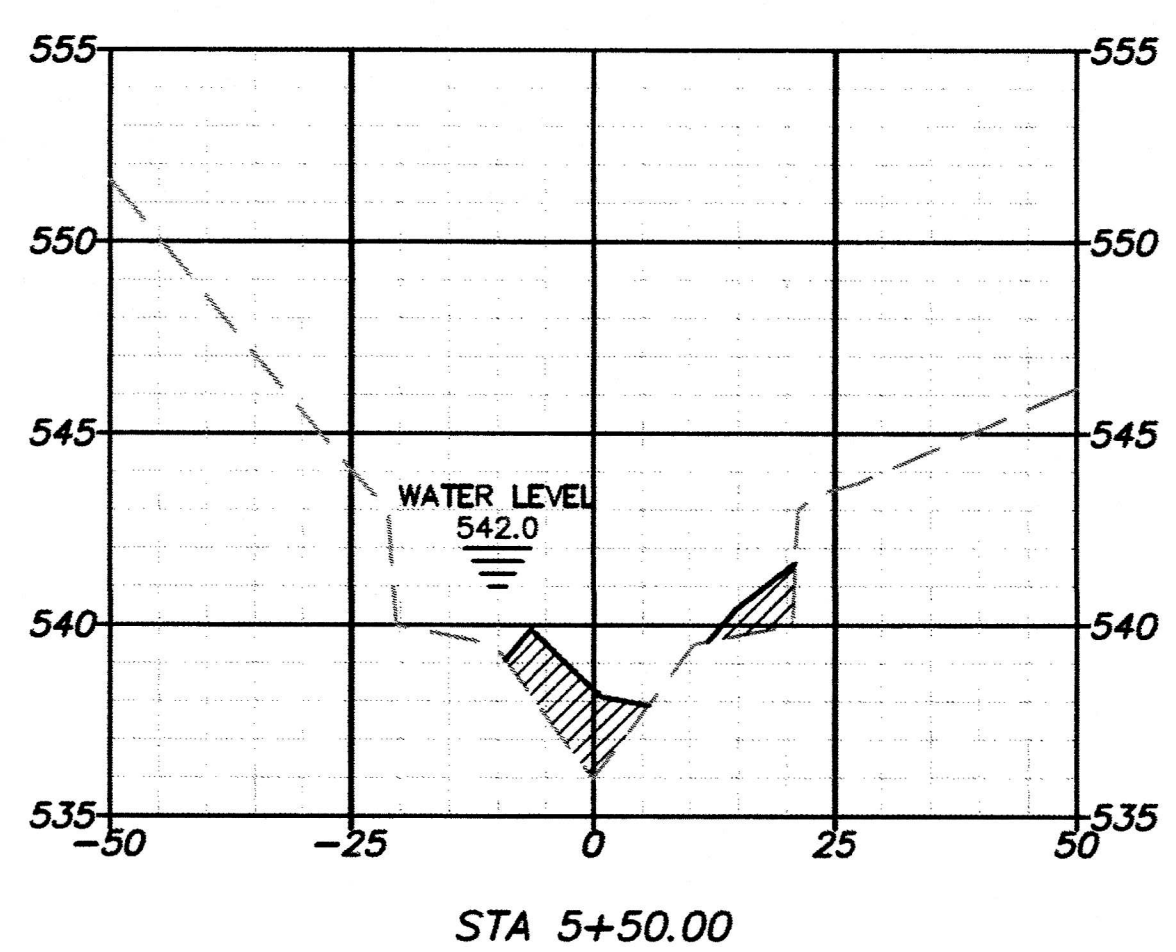
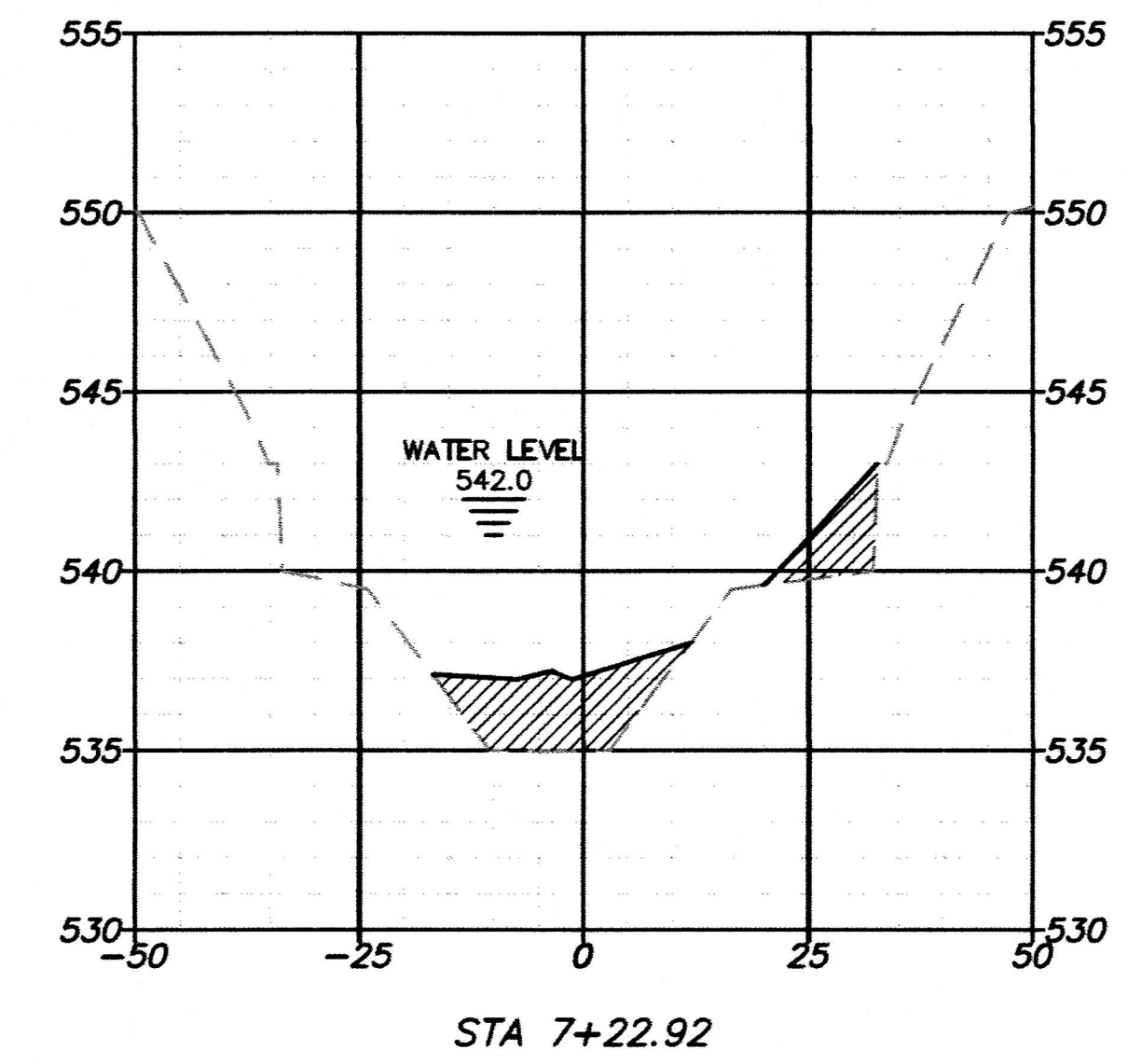
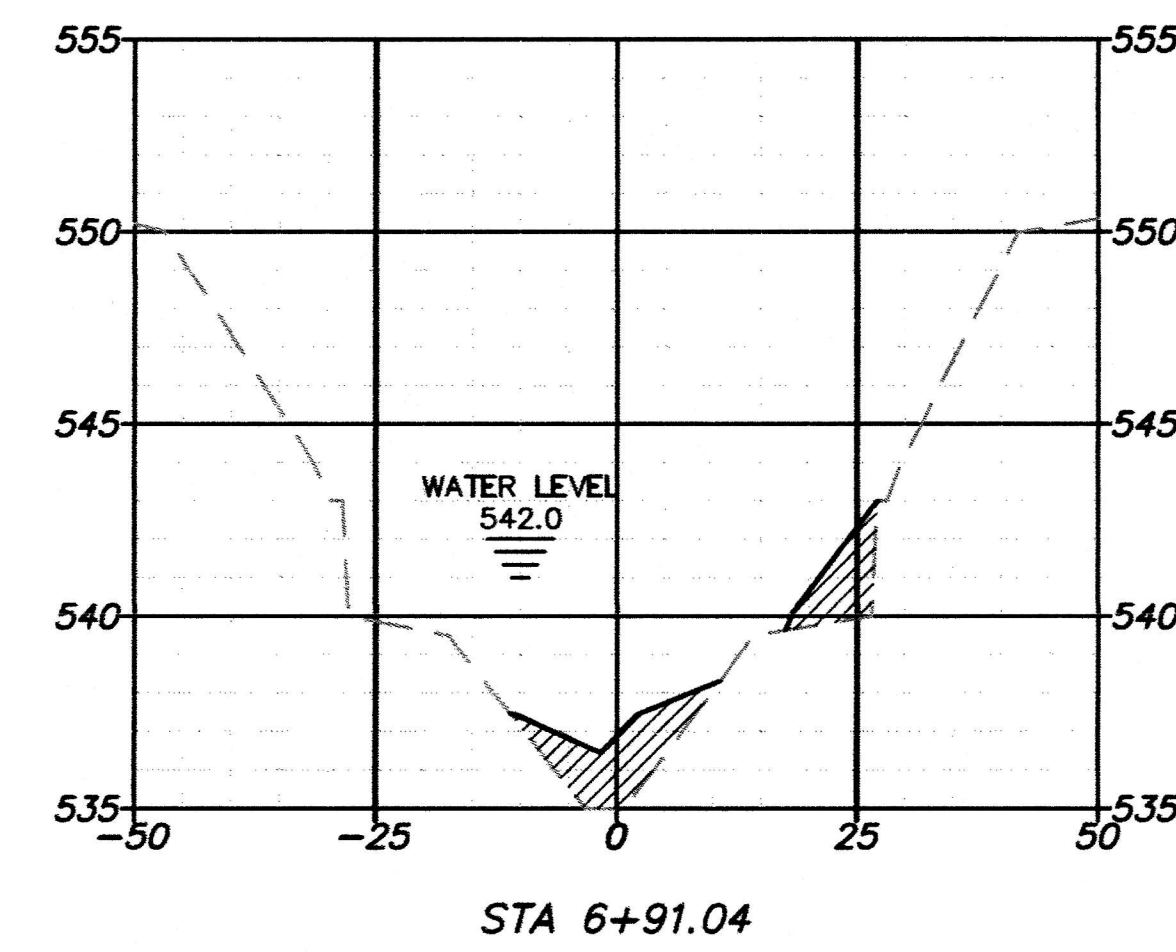
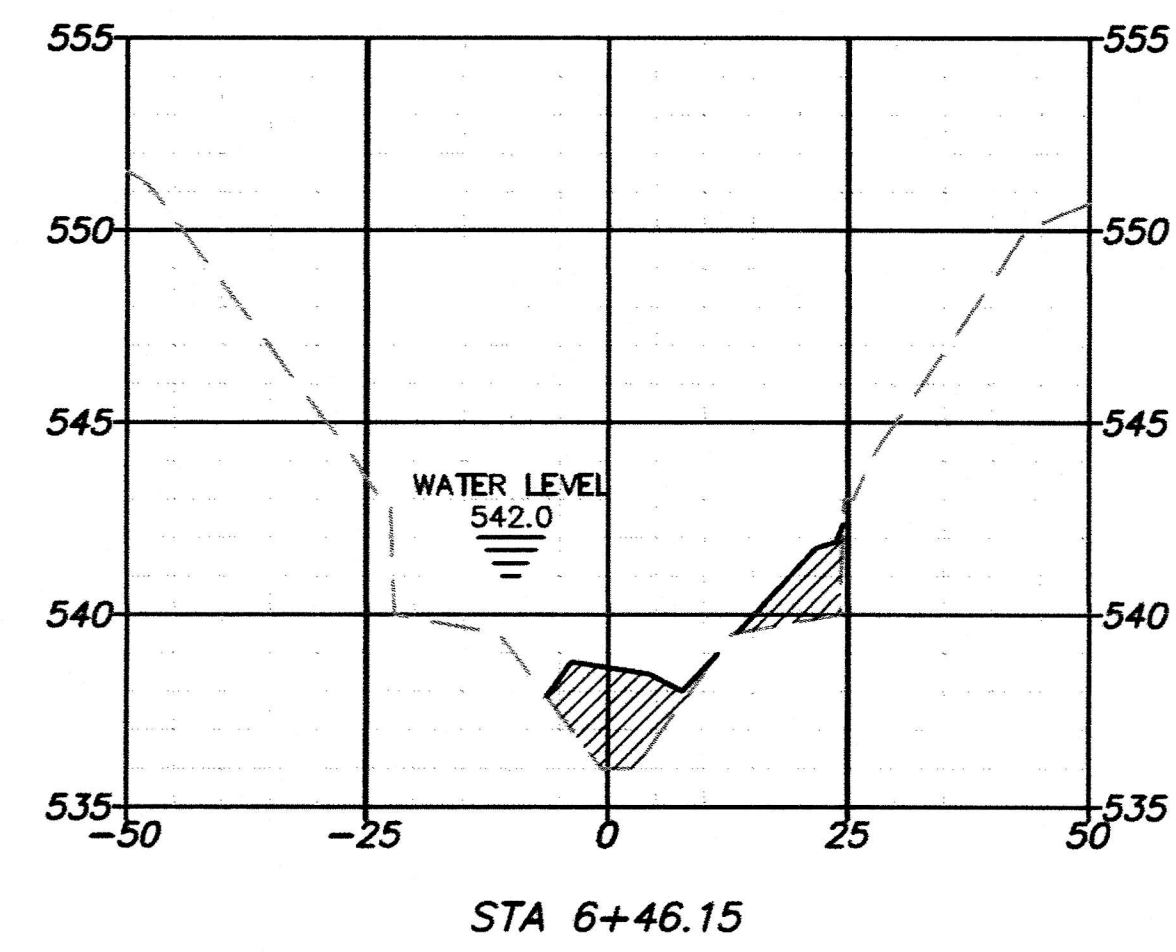
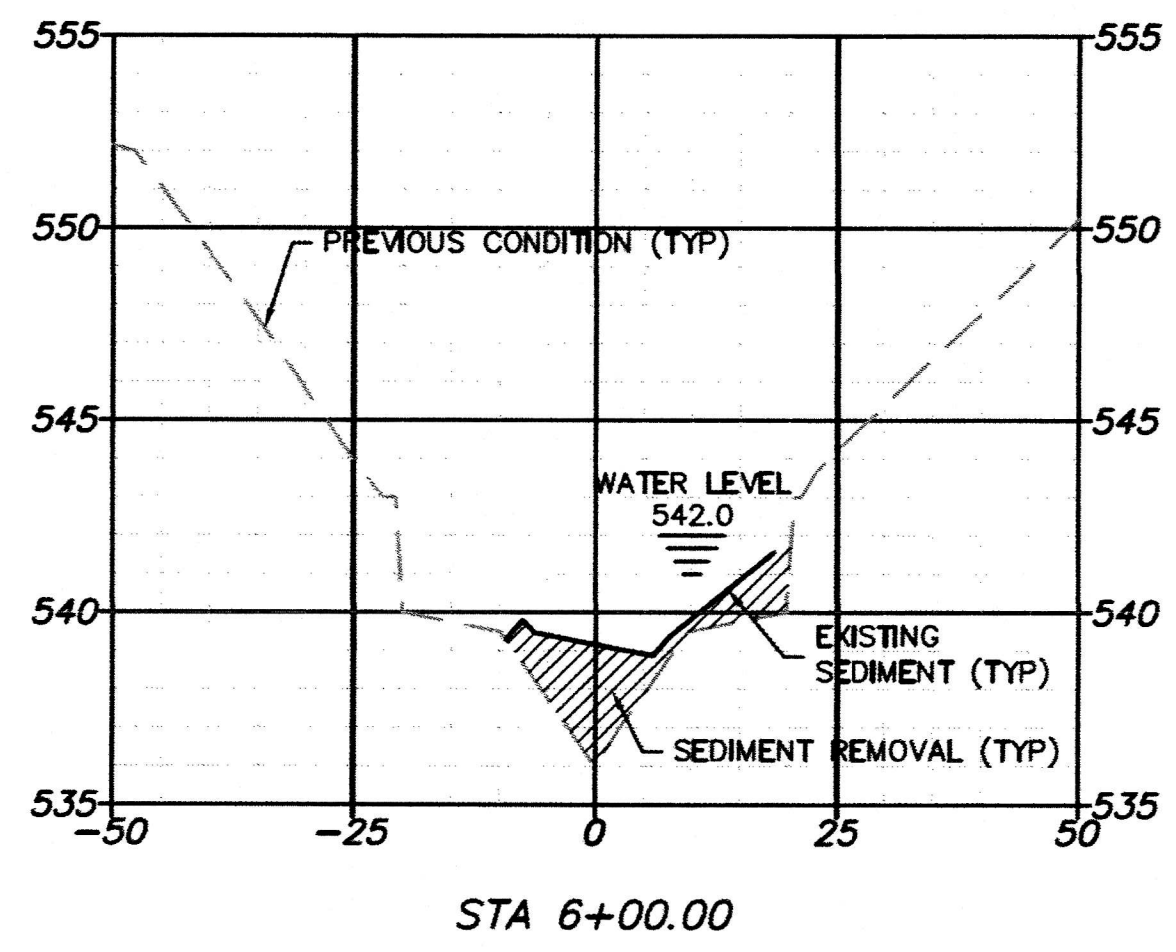
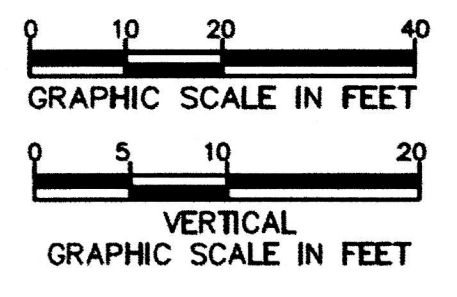
revisions	date
▲ ADDENDUM 3	2/20/2019

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MAIN CHANNEL CROSS SECTIONS				
design	drawn	checked	scale	date
NDM	NDM	NDM	NDM	2/20/19

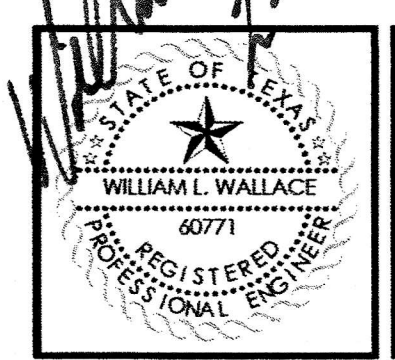
Sheet No.	10
	22
NDM job number	18-005



William L. Wallace
 2-20-19
 WATER SURFACE ADDED BASED ON SURVEY OF 2/18/2019.

NOTE:
 SEDIMENT AMOUNTS AND LOCATIONS AS SURVEYED ON 07/19/2018 AND 08/20/2018.

BAR IS ONE INCH
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 DRAWING IS REDUCED



revisions	date
ADDENDUM 3	2/20/2019

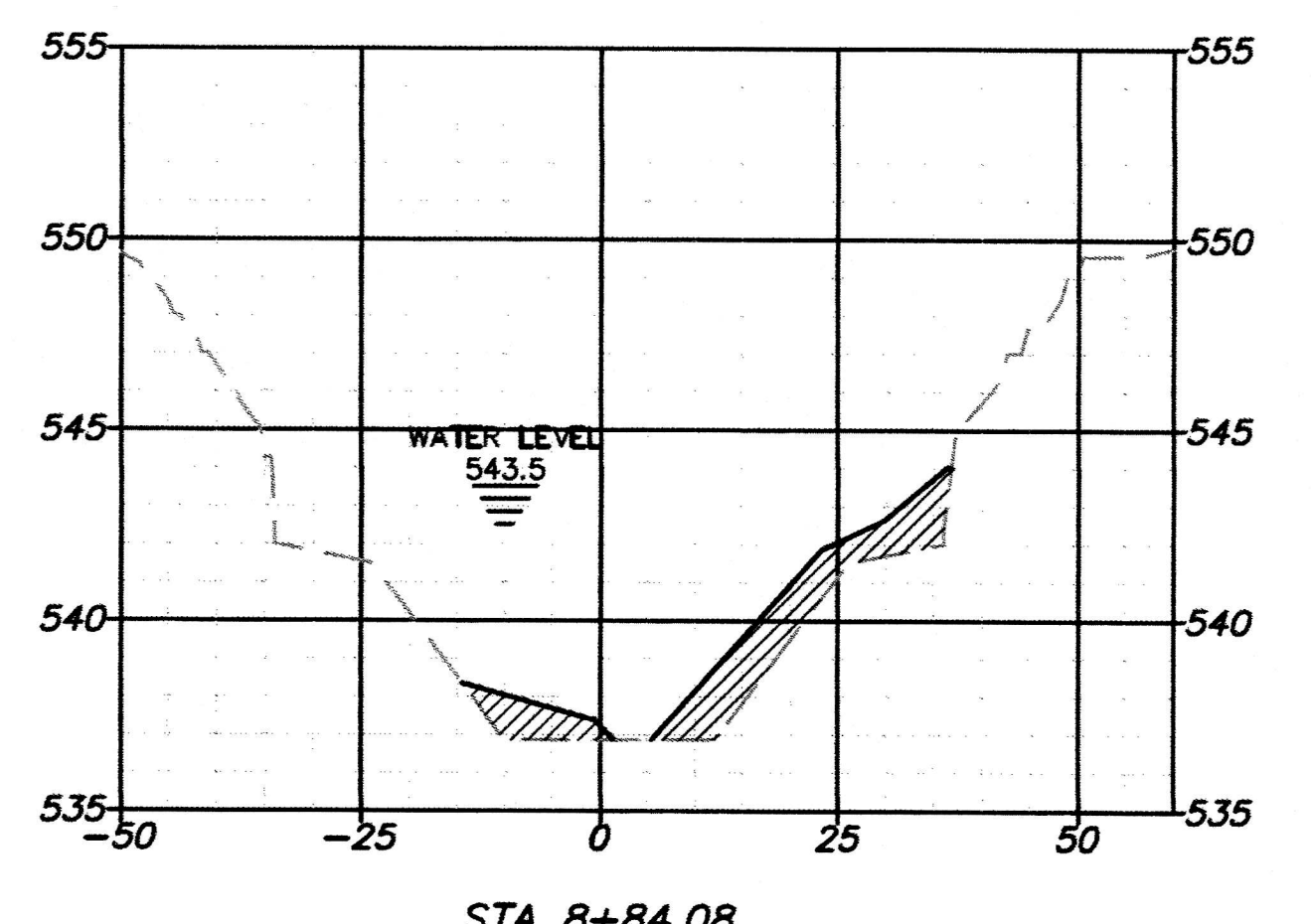
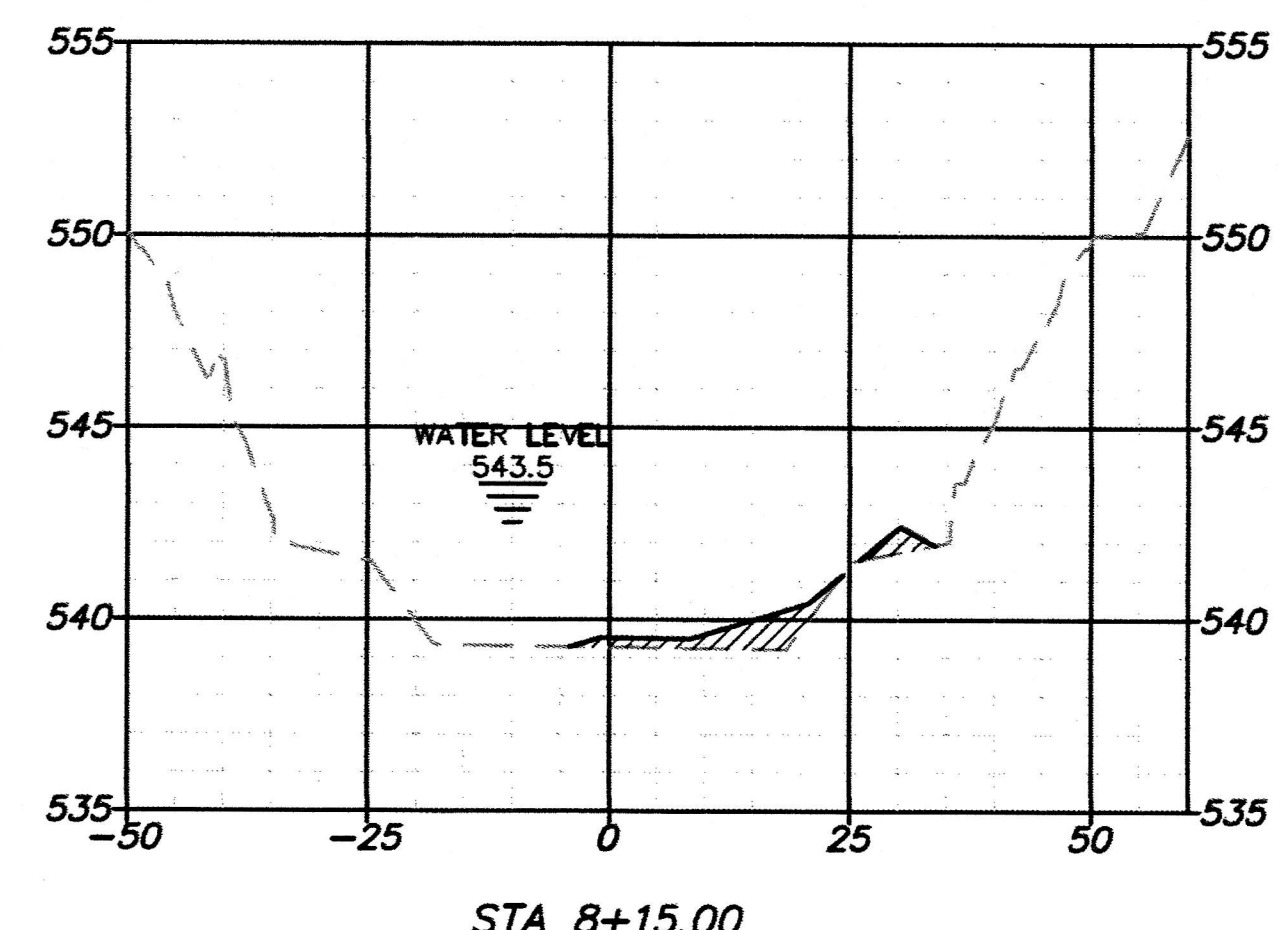
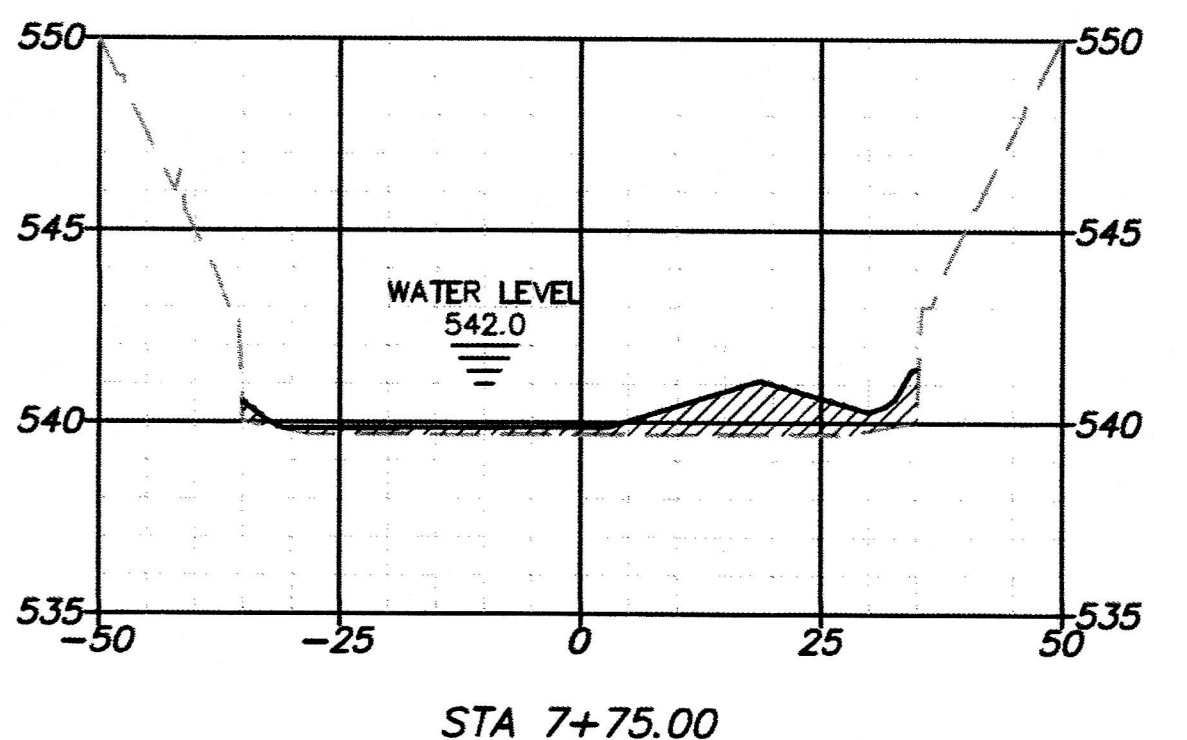
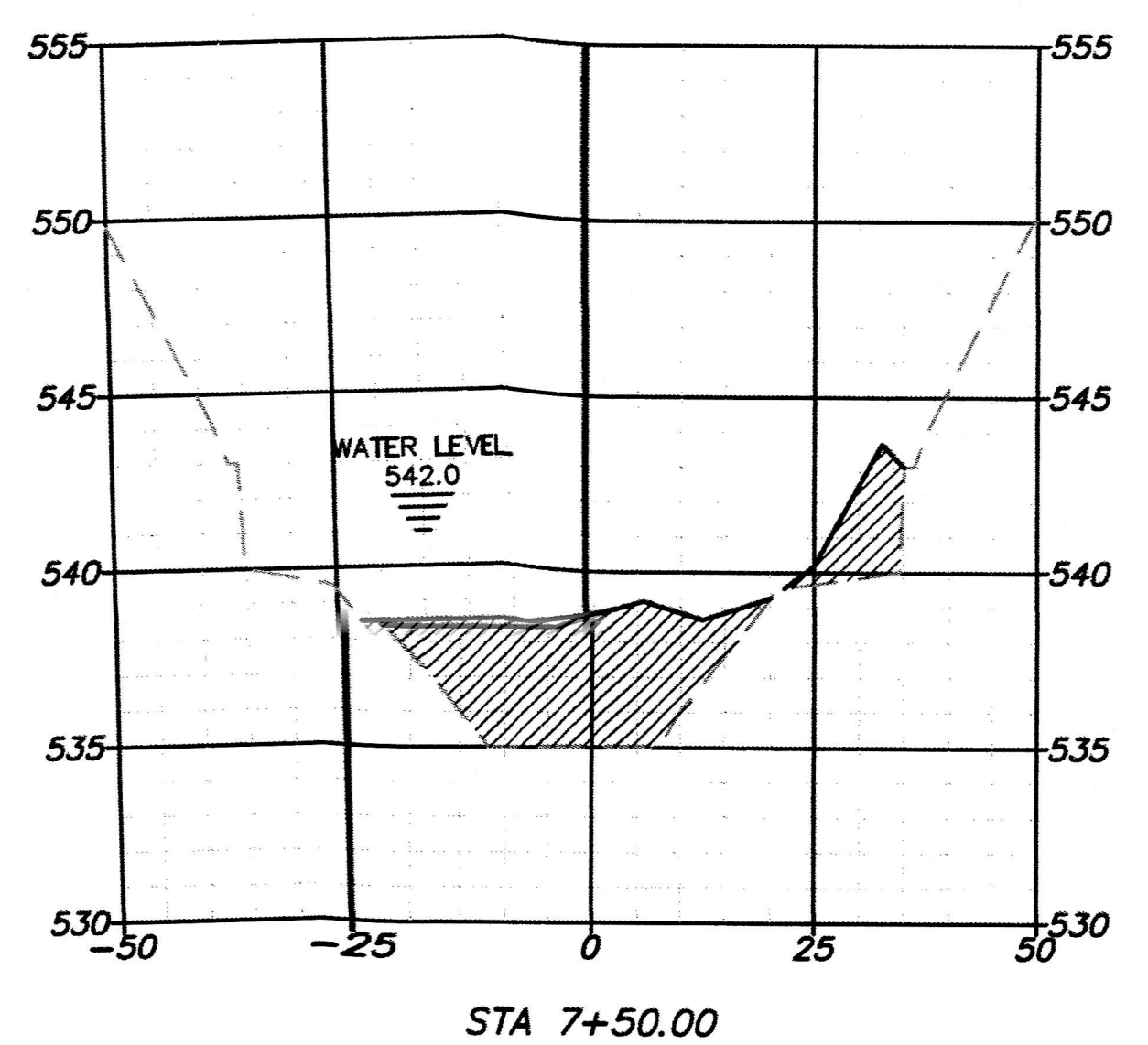
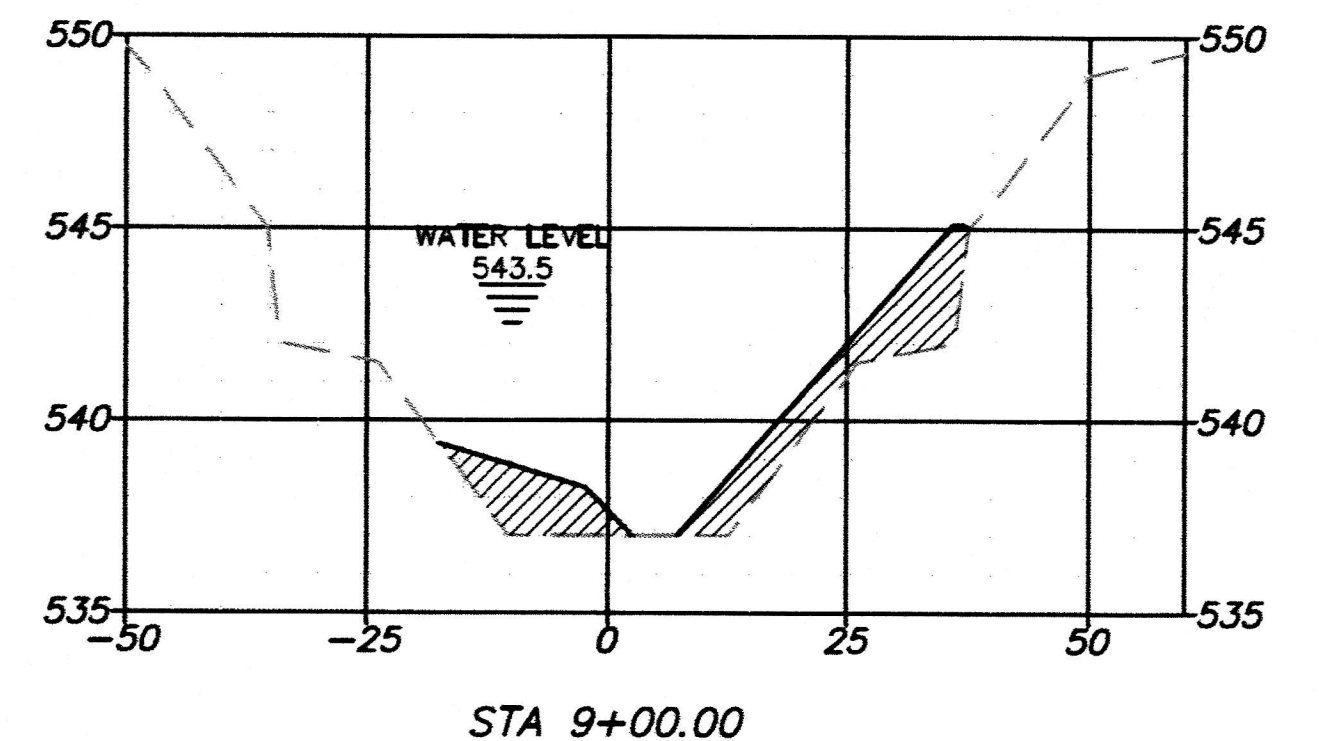
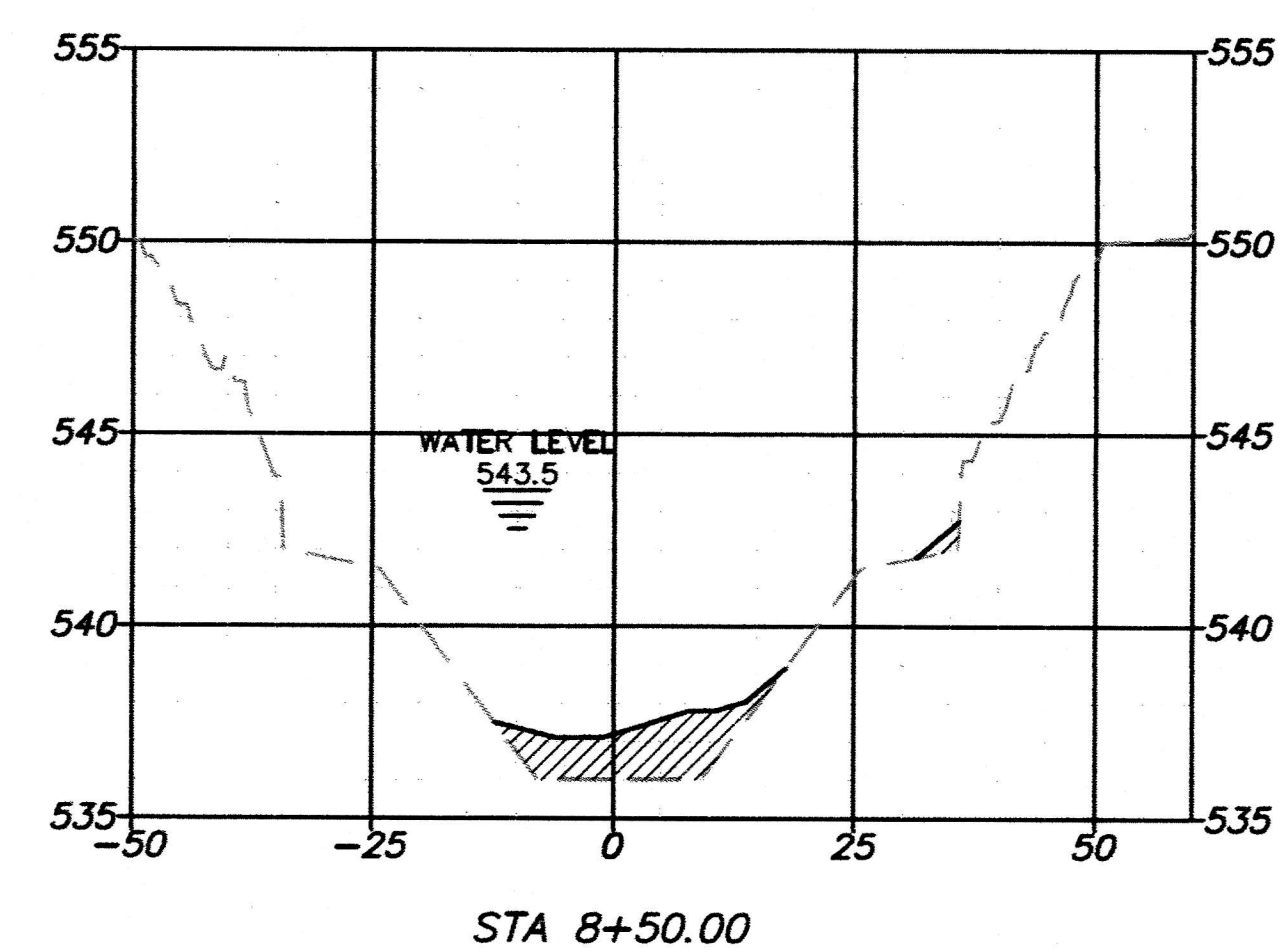
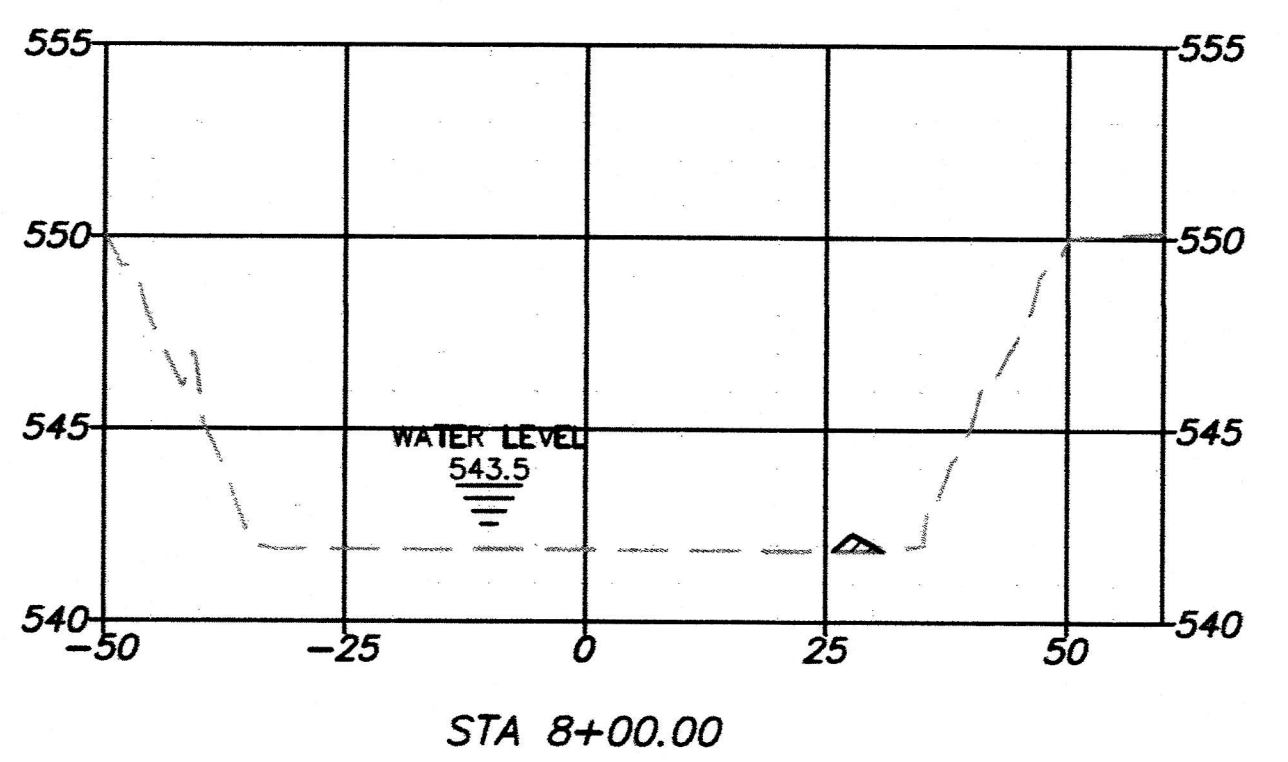
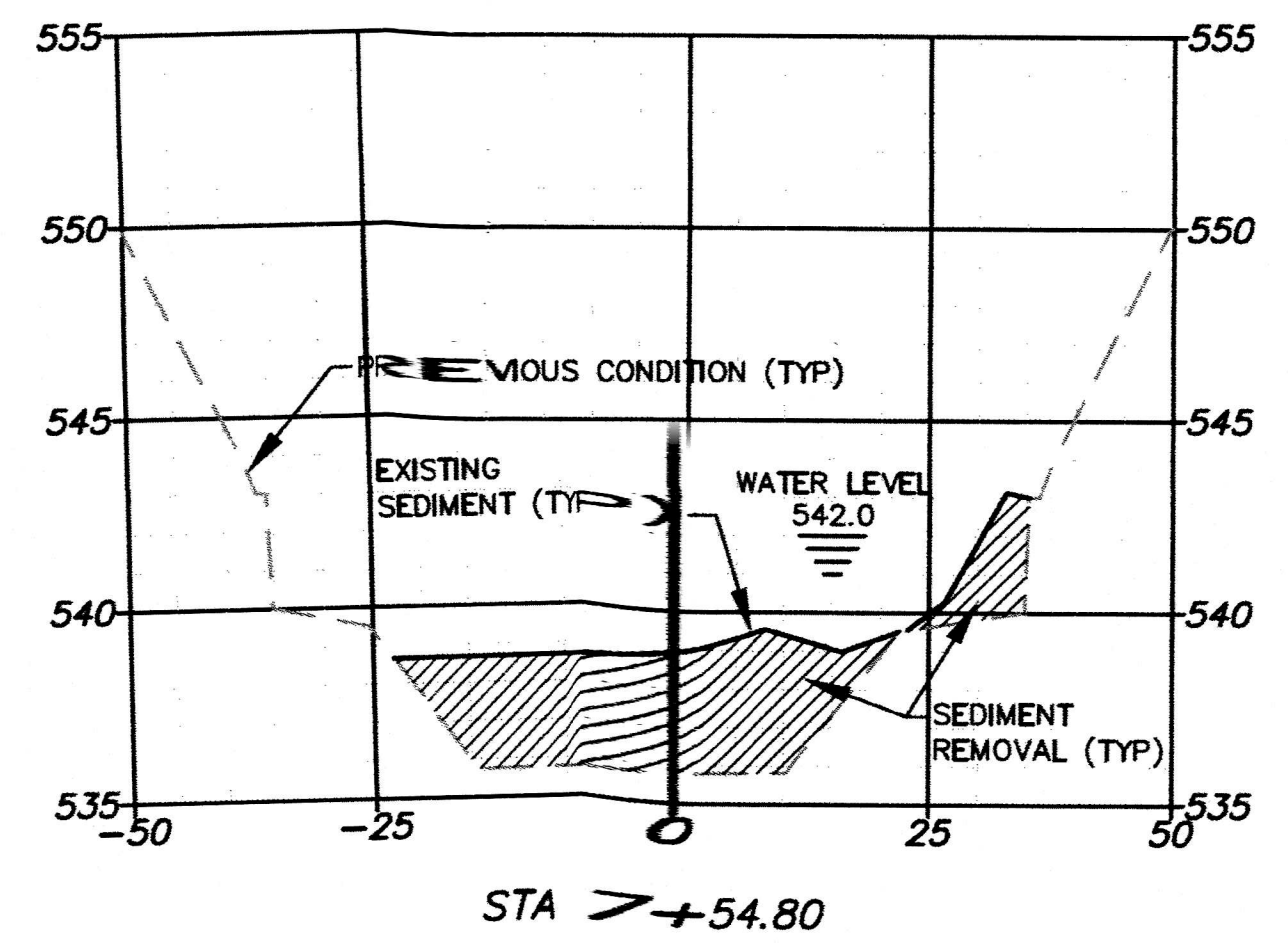
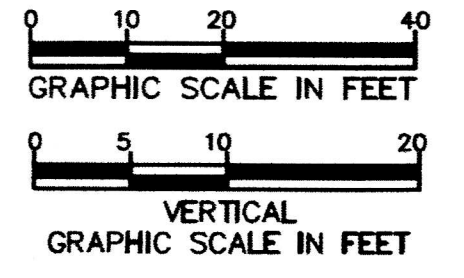
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MAIN CHANNEL CROSS SECTIONS					Sheet No.
design	drawn	checked	scale	date	11
NDM	NDM	NDM	NDM	2/20/19	22
NDM job number					18-005

CHECK PRINT NO. _____ PLOT DATE: 2/20/19
 REVIEWED BY: _____ DATE: _____
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 REGISTERED PROFESSIONAL ENGINEER
 STATE OF TEXAS
 WILLIAM L. WALLACE
 00771

▲ WATER SURFACE ADDED BASED ON SURVEY OF 2/18/2019.

NOTE:
 SEDIMENT AMOUNTS AND LOCATIONS AS SURVEYED ON 07/19/2018 AND 08/20/2018.

1" = 100'
 BAR IS ONE INCH ON FULL-SIZE DRAWING. ADJUST SCALE IF DRAWING IS REDUCED.

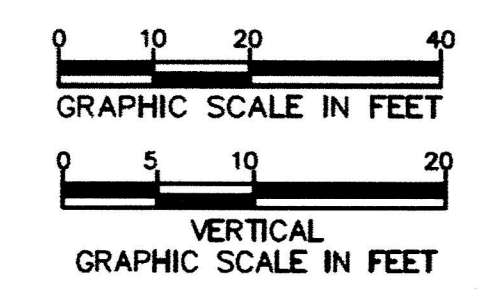
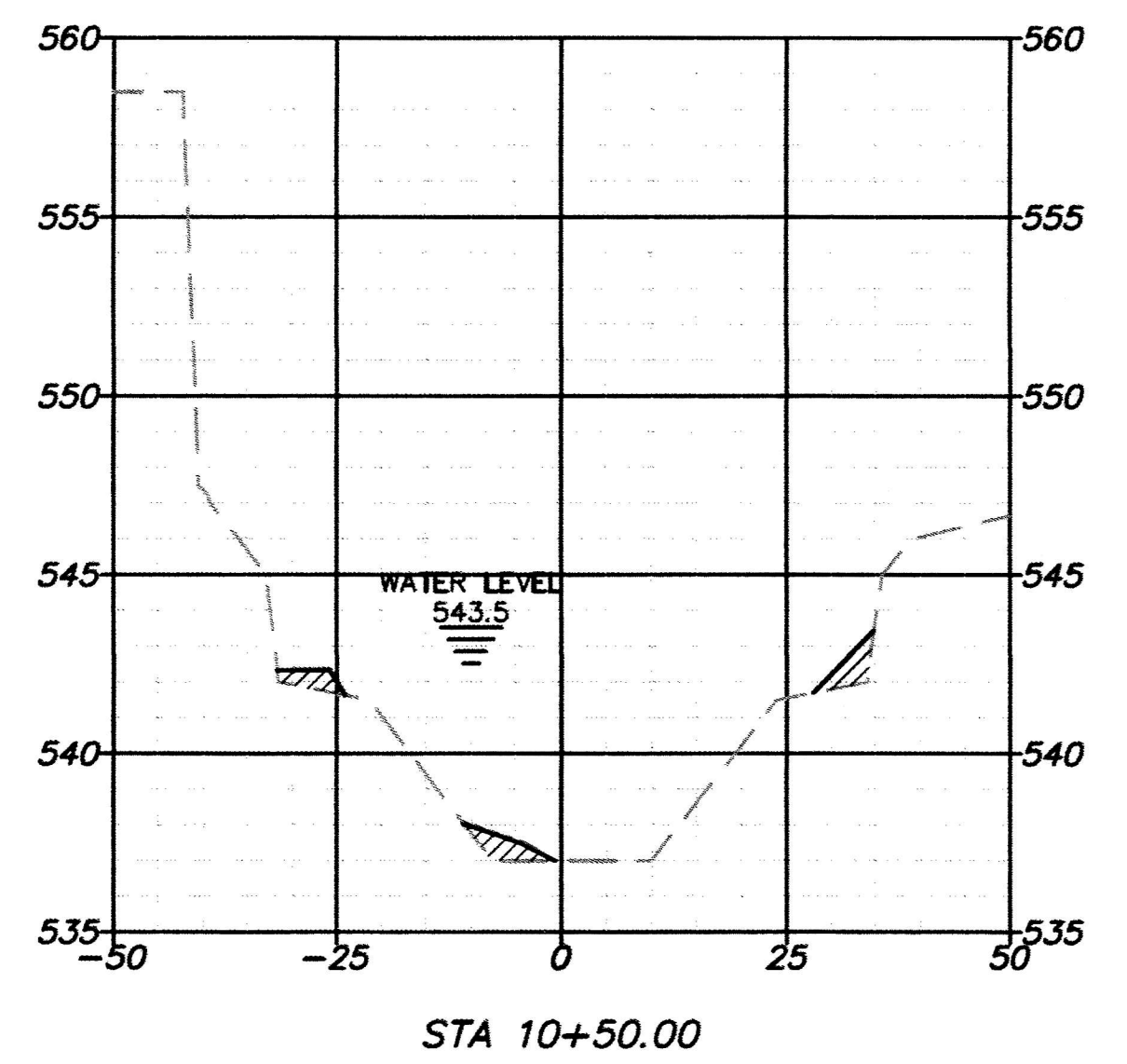
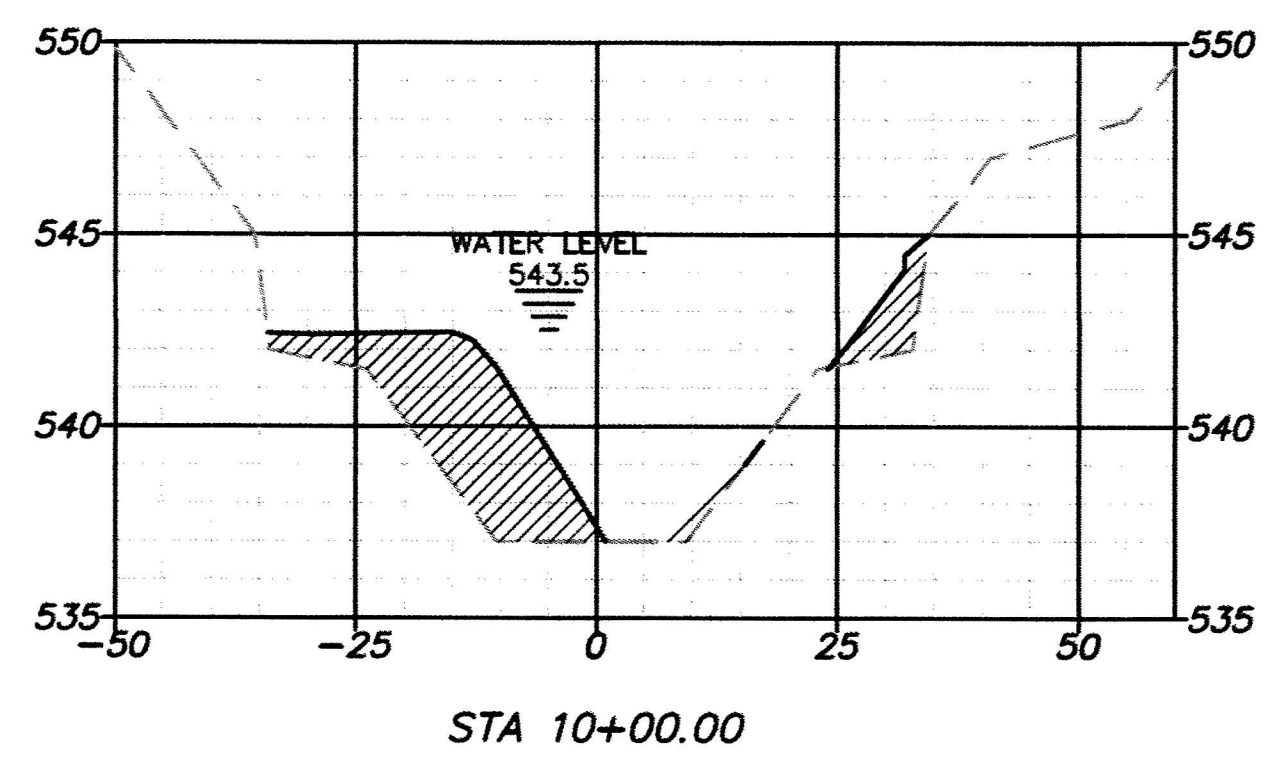
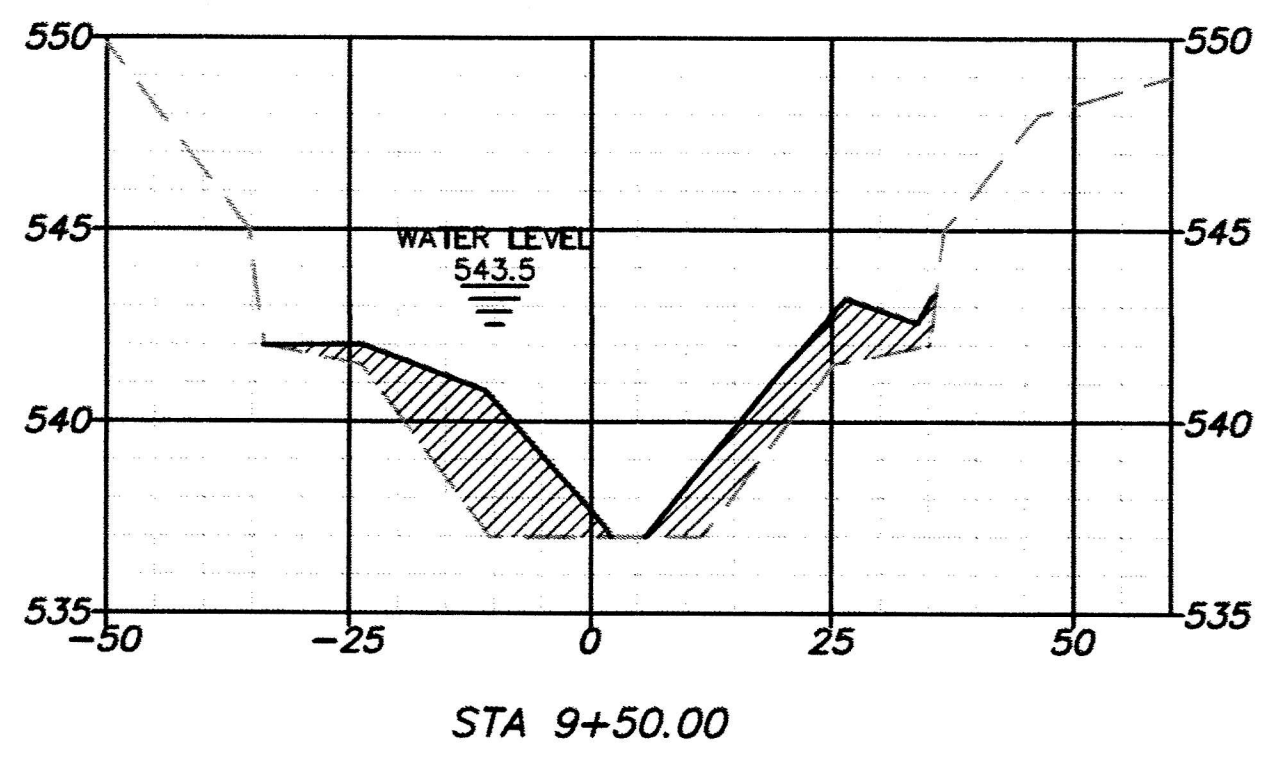
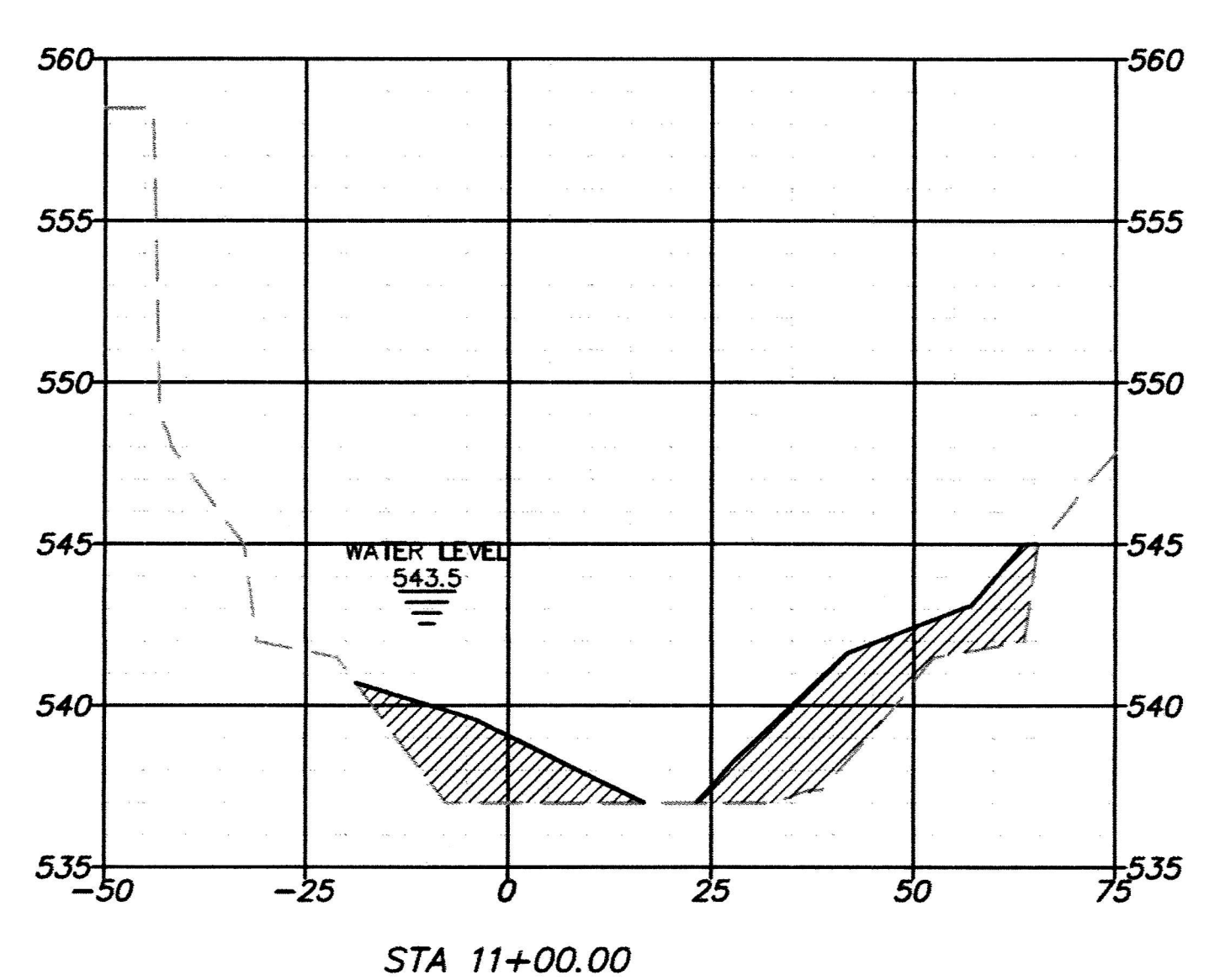
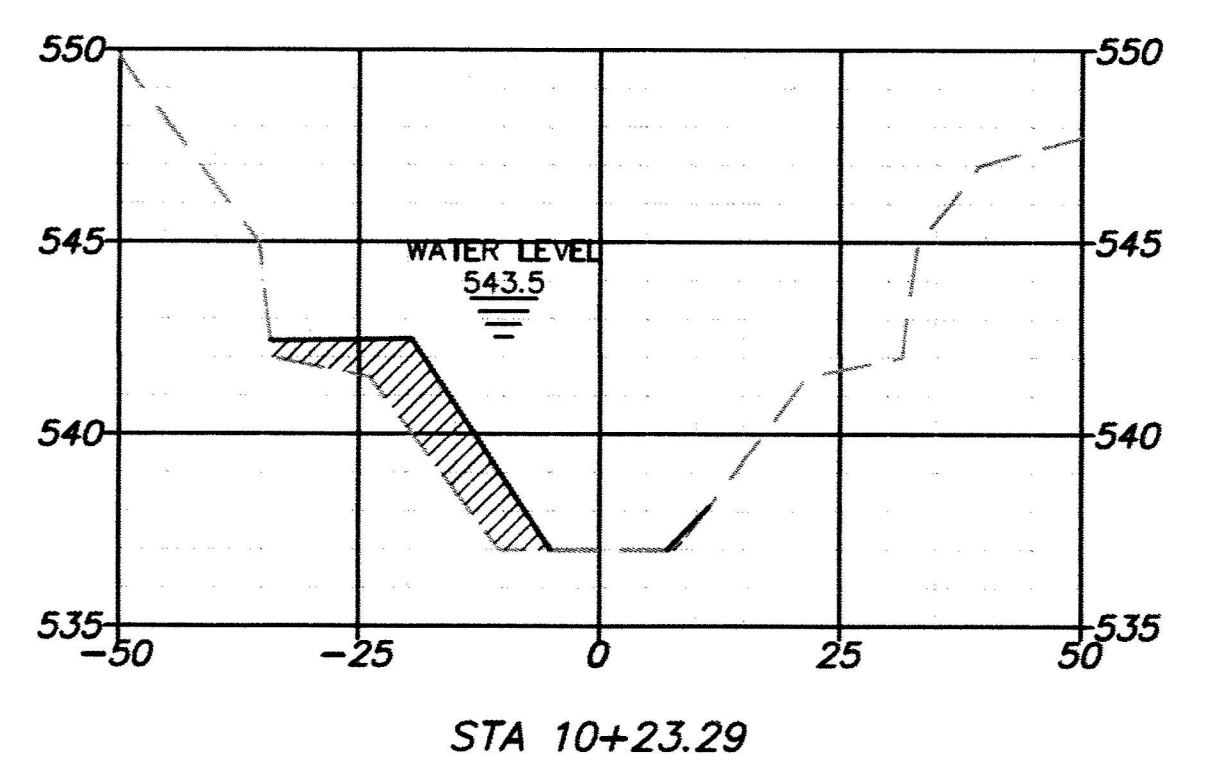
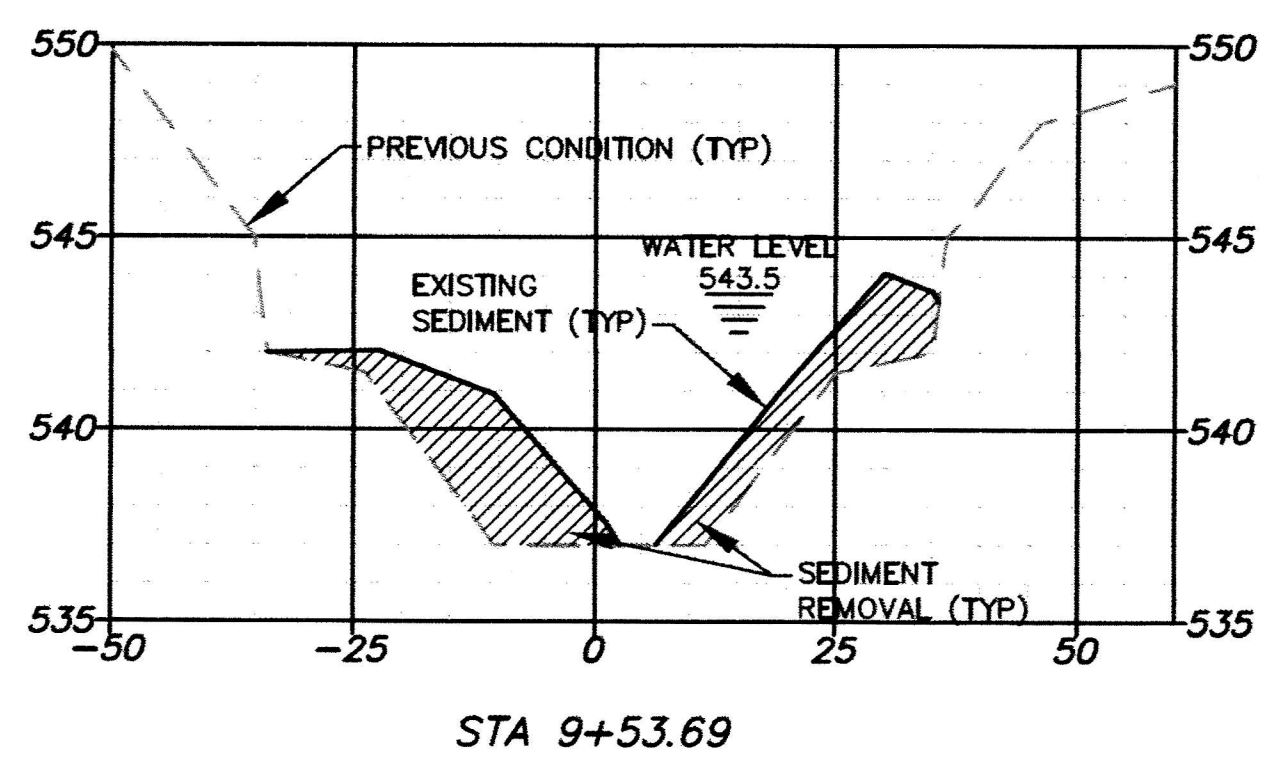
revisions	date
▲ ADDENDUM 3	2/20/2019

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MAIN CHANNEL CROSS SECTIONS				
design	drawn	checked	scale	date
NDM	NDM	NDM	NDM	2/20/19

Sheet No.	12
	22
NDM job number	18-005



William L. Wallace
 2-20-19
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF TEXAS
 WILLIAM L. WALLACE
 60771

▲ WATER SURFACE ADDED BASED ON SURVEY OF 2/18/2019.

NOTE:
 SEDIMENT AMOUNTS AND LOCATIONS AS SURVEYED ON 07/19/2018 AND 08/20/2018.

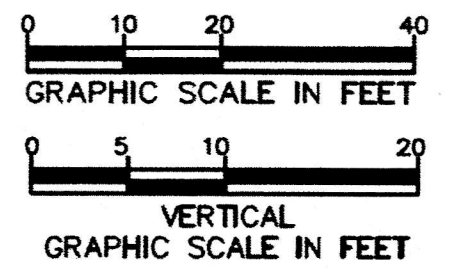
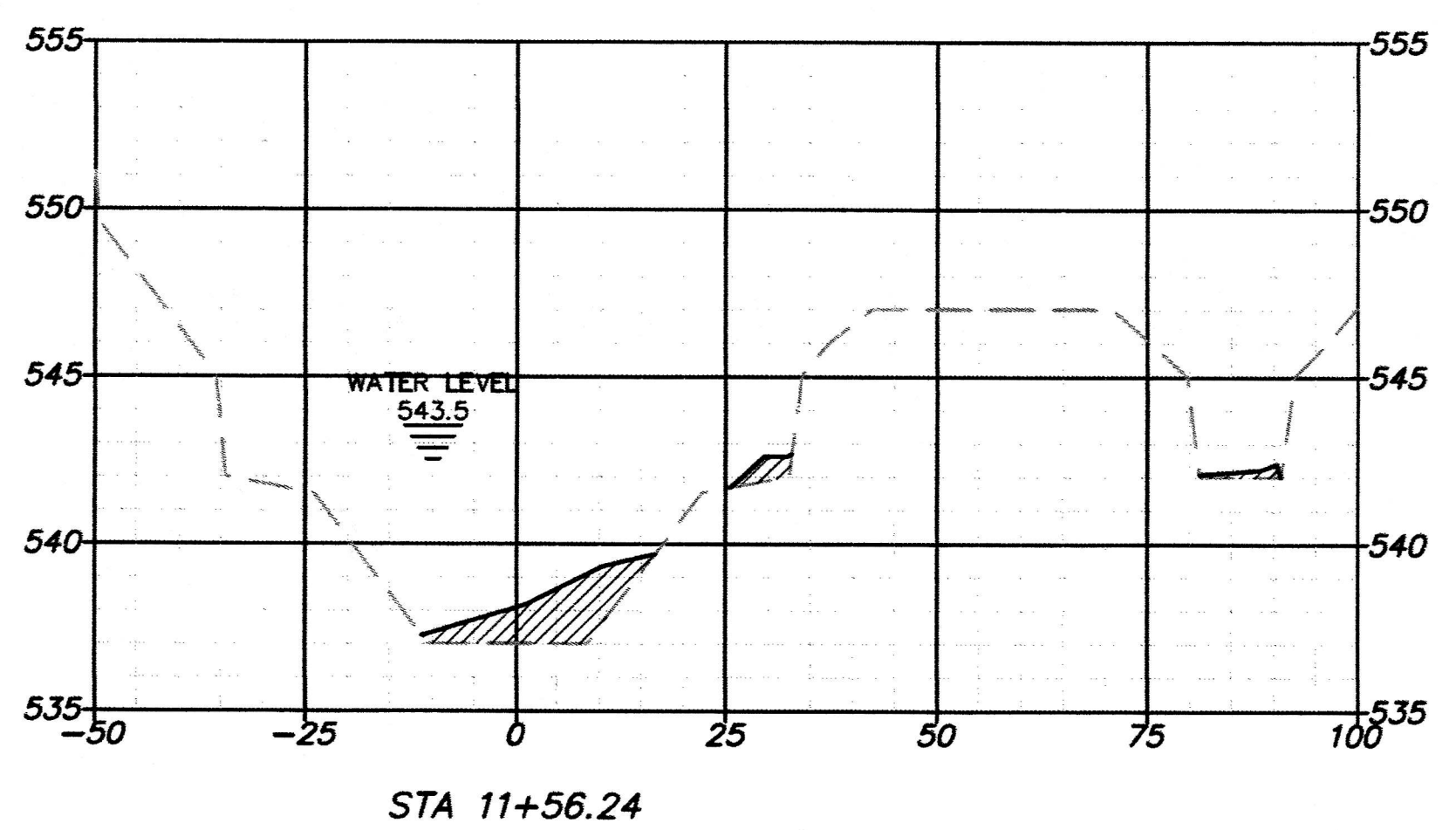
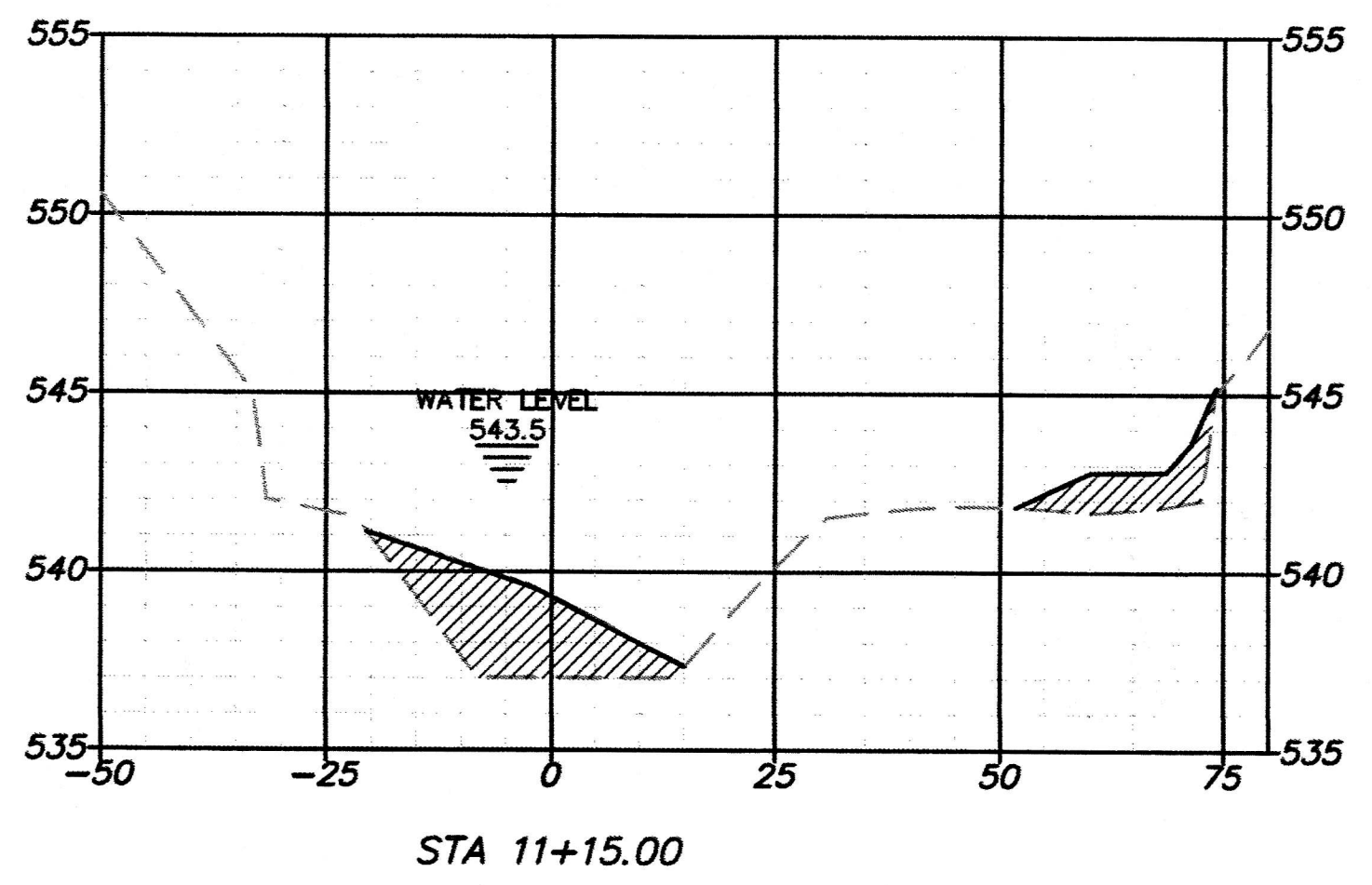
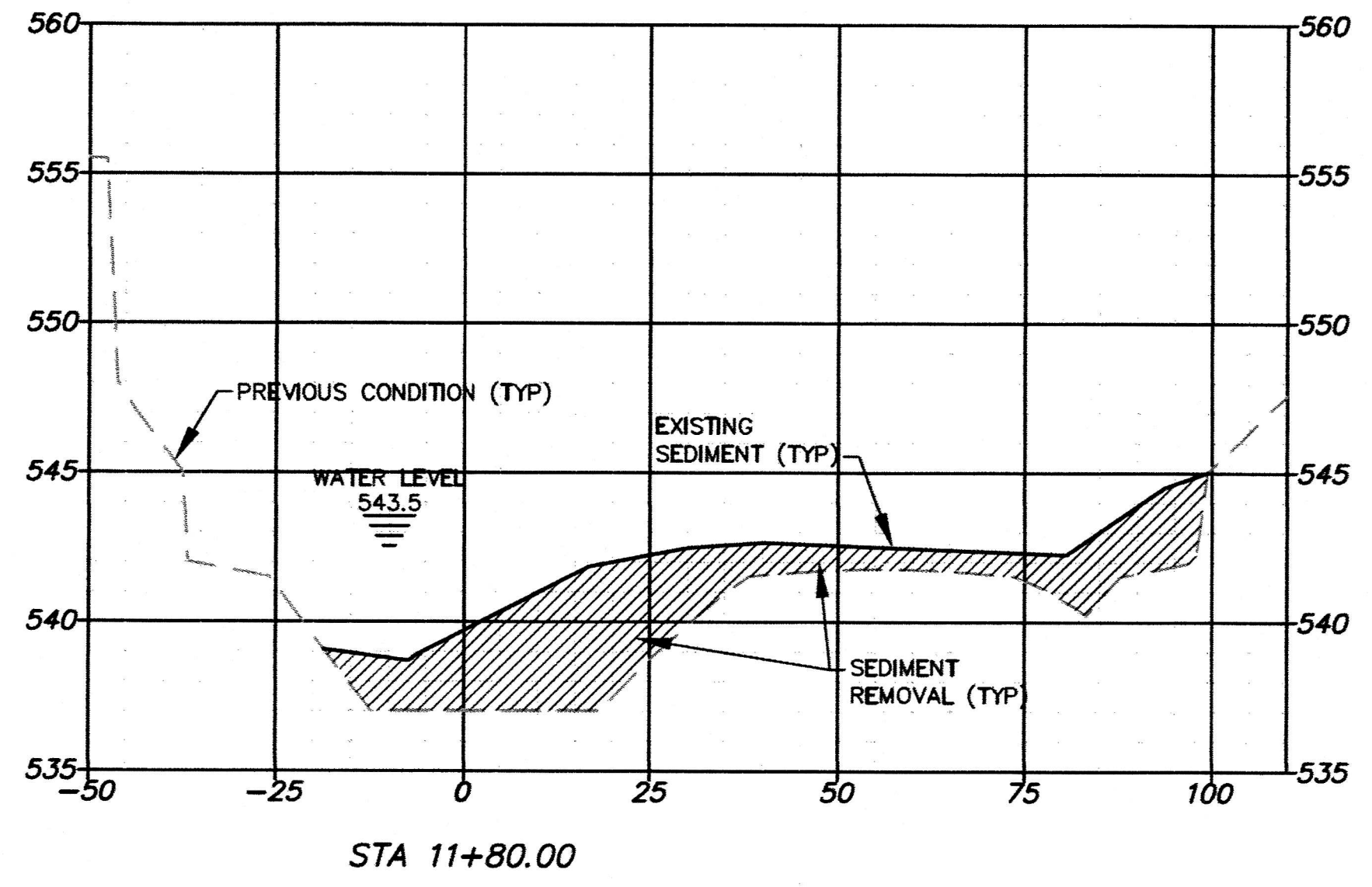
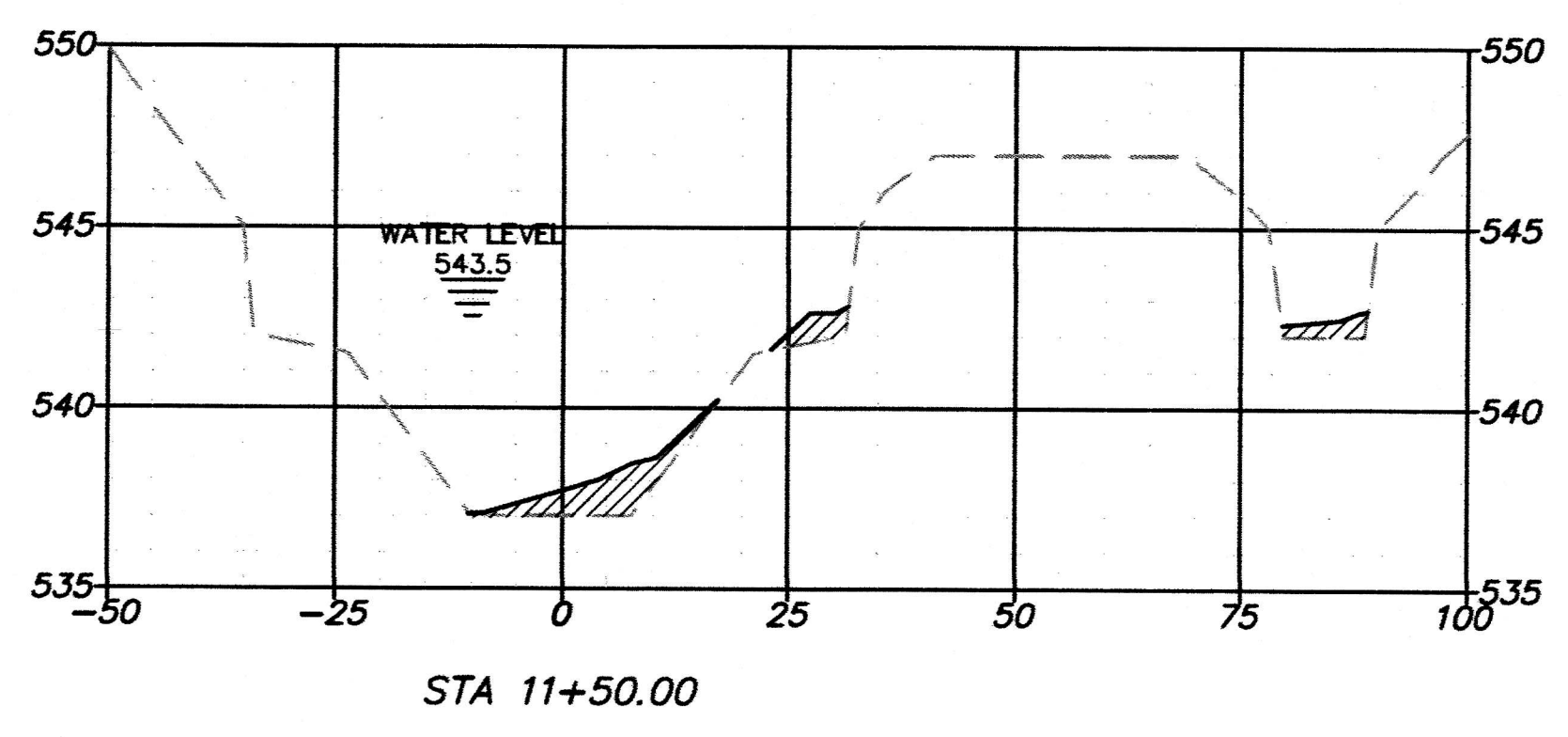
BAR IS ONE INCH ON FULL-SIZE DRAWING ADJUST SCALE IF DRAWING IS REDUCED

revisions	date
▲ ADDENDUM 3	2/20/2019

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MAIN CHANNEL CROSS SECTIONS					Sheet No.
design	drawn	checked	scale	date	13
NDM	NDM	NDM	NDM	2/20/19	22
NDM job number					18-005

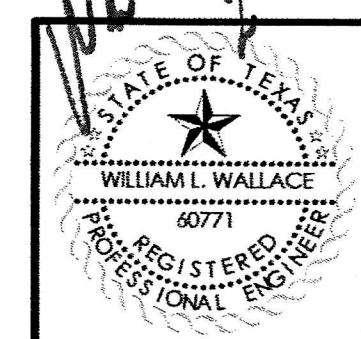


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▲ WATER SURFACE ADDED BASED ON SURVEY OF 2/18/2019.

NOTE:
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revisions	date
▲ ADDENDUM 3	2/20/2019

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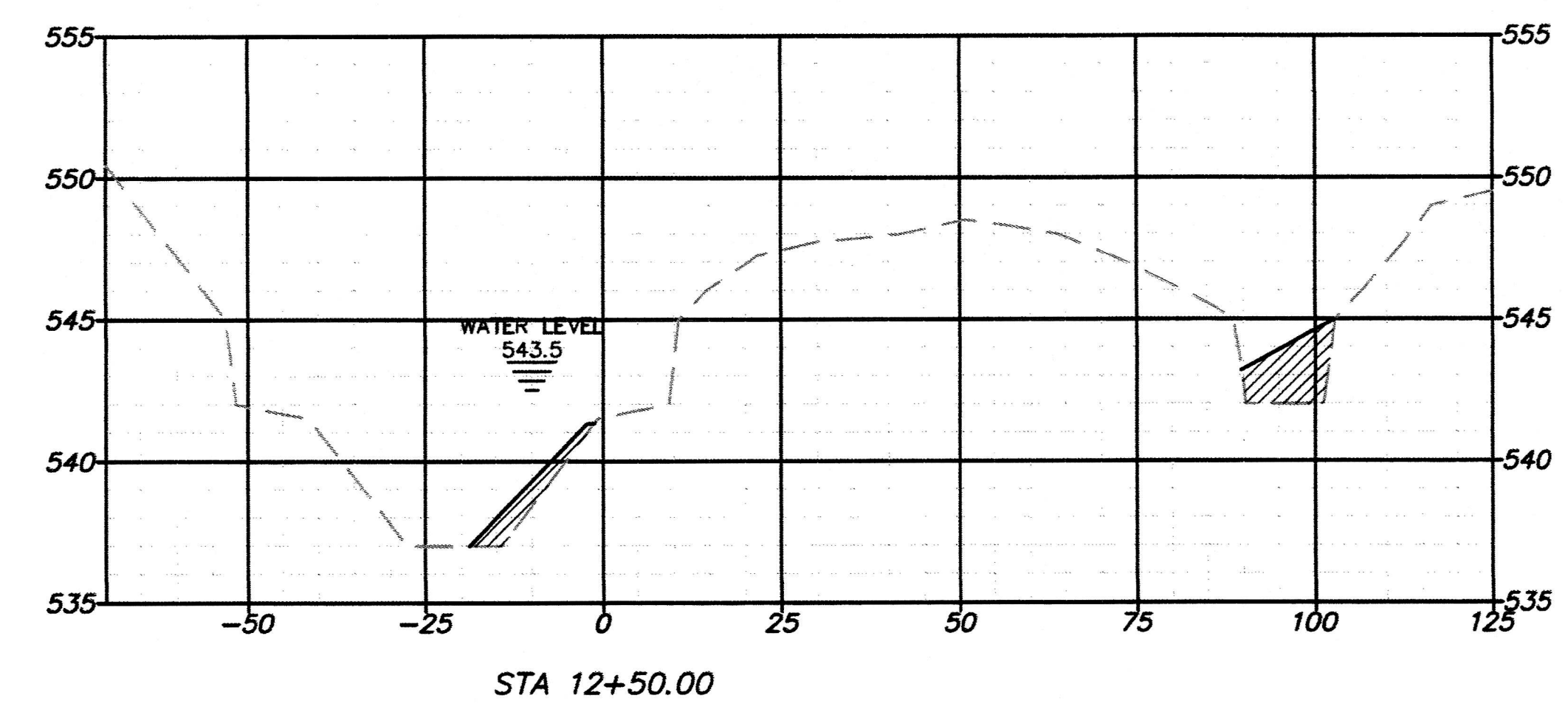
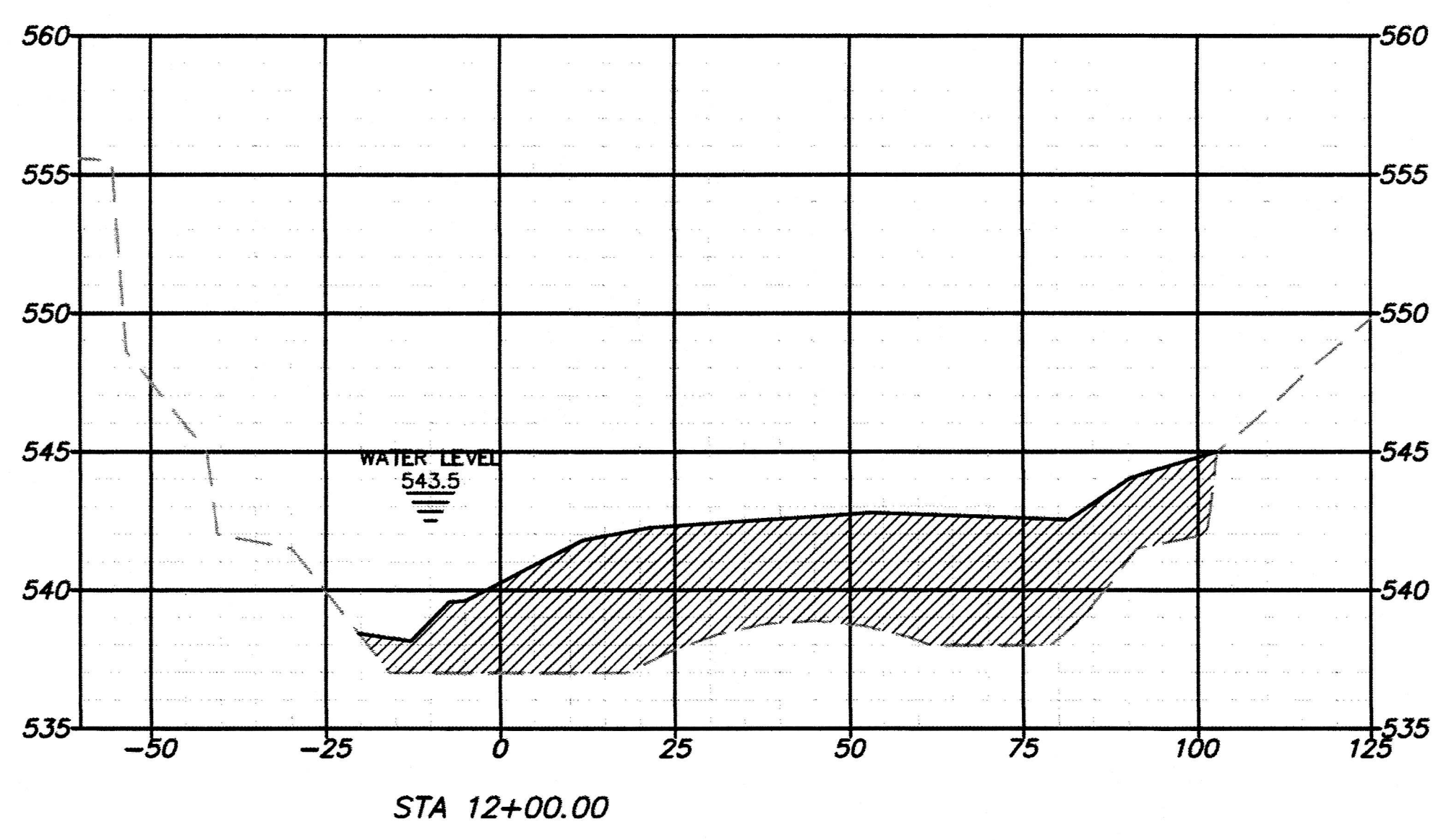
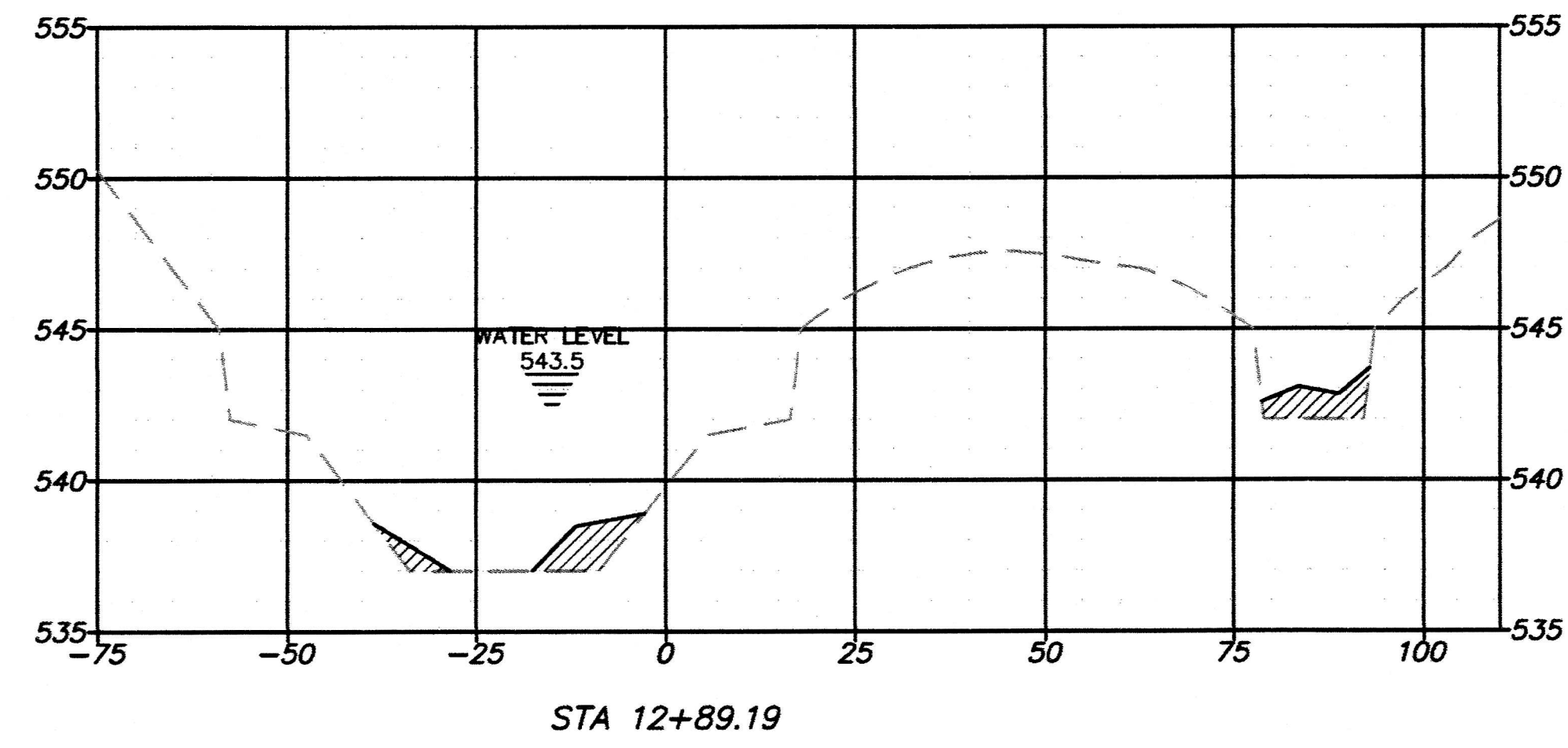
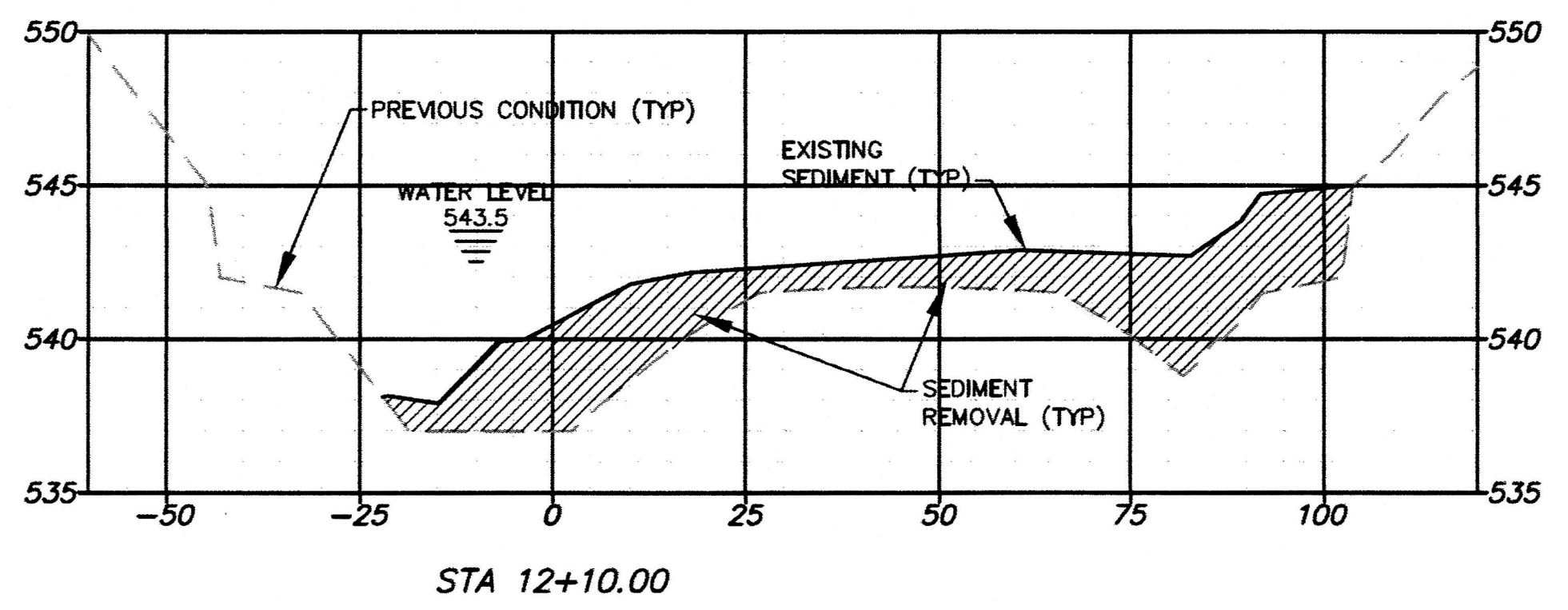
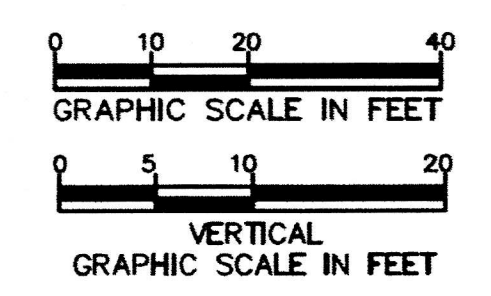
VITRUVIAN PARK
 DREDGING
 TOWN OF ADDISON
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MAIN CHANNEL CROSS SECTIONS				
design	drawn	checked	scale	date
NDM	NDM	NDM	NDM	2/20/19

Sheet No.	14
	22
NDM job number	18-005

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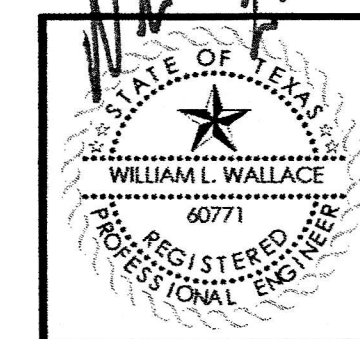


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▲ WATER SURFACE ADDED BASED ON SURVEY OF 2/18/2019.

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revisions	date
▲ ADDENDUM 3	2/20/2019

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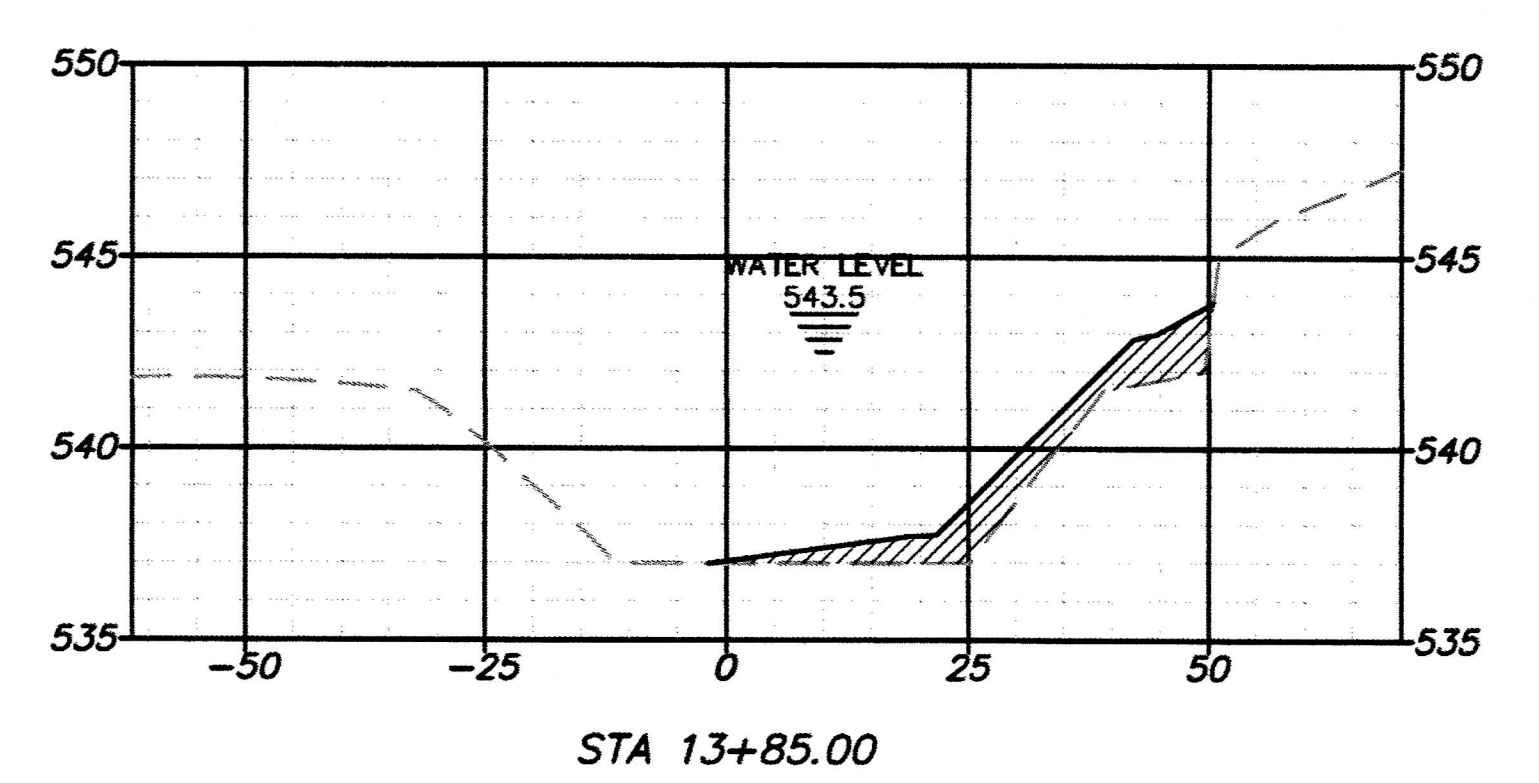
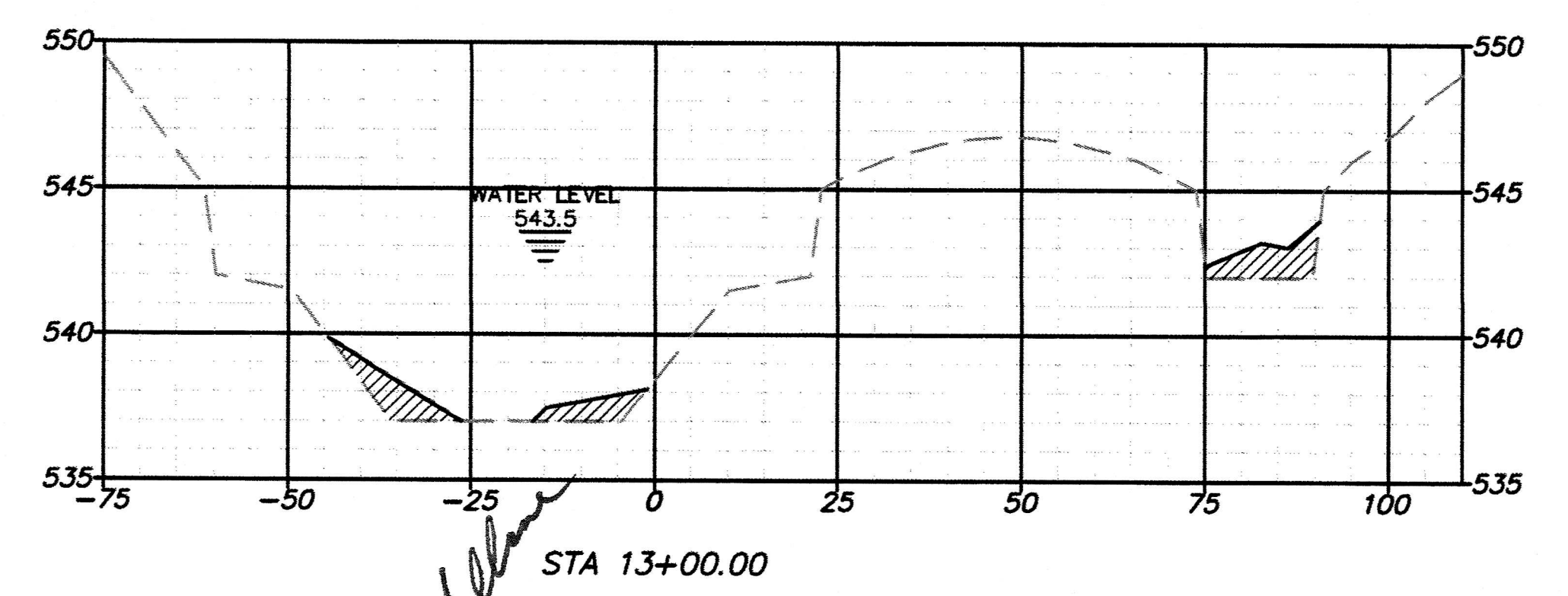
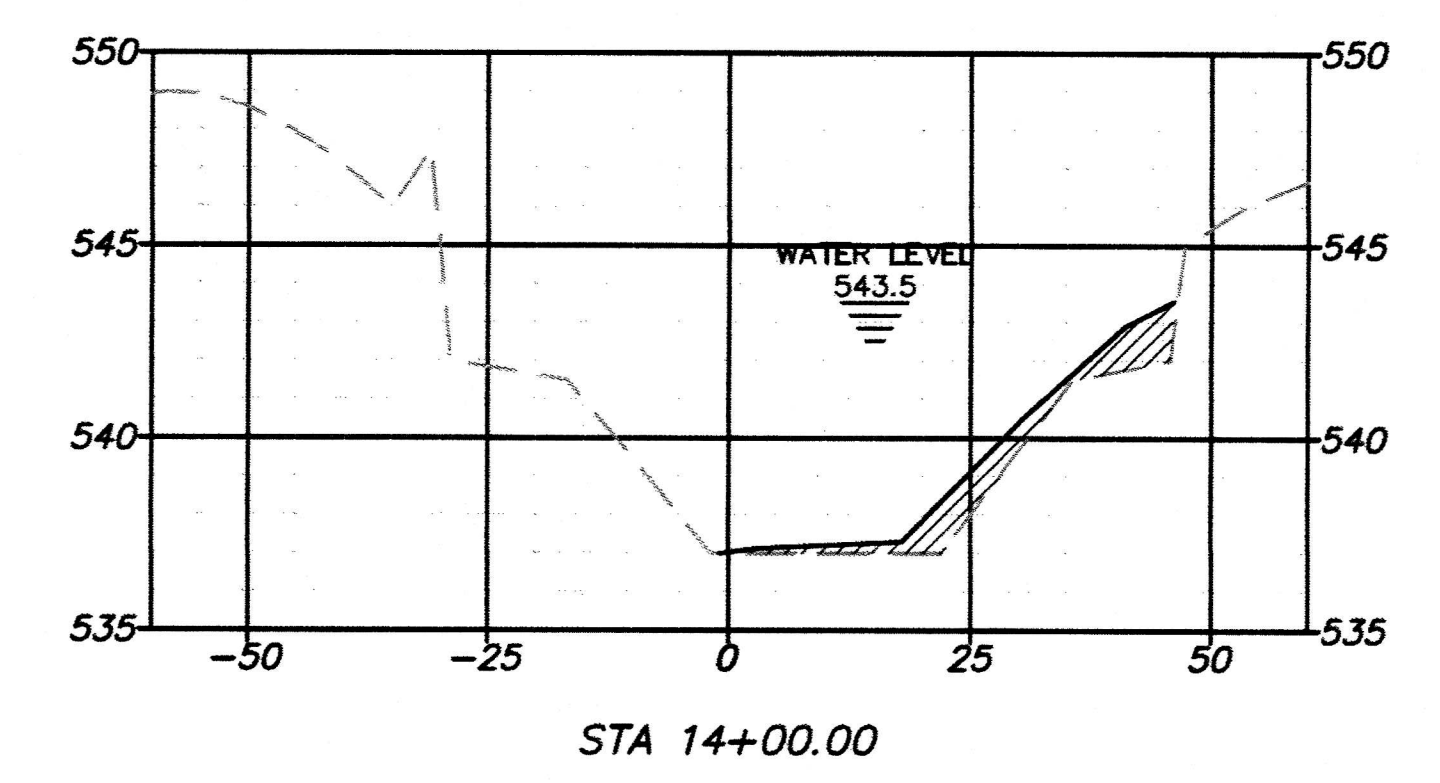
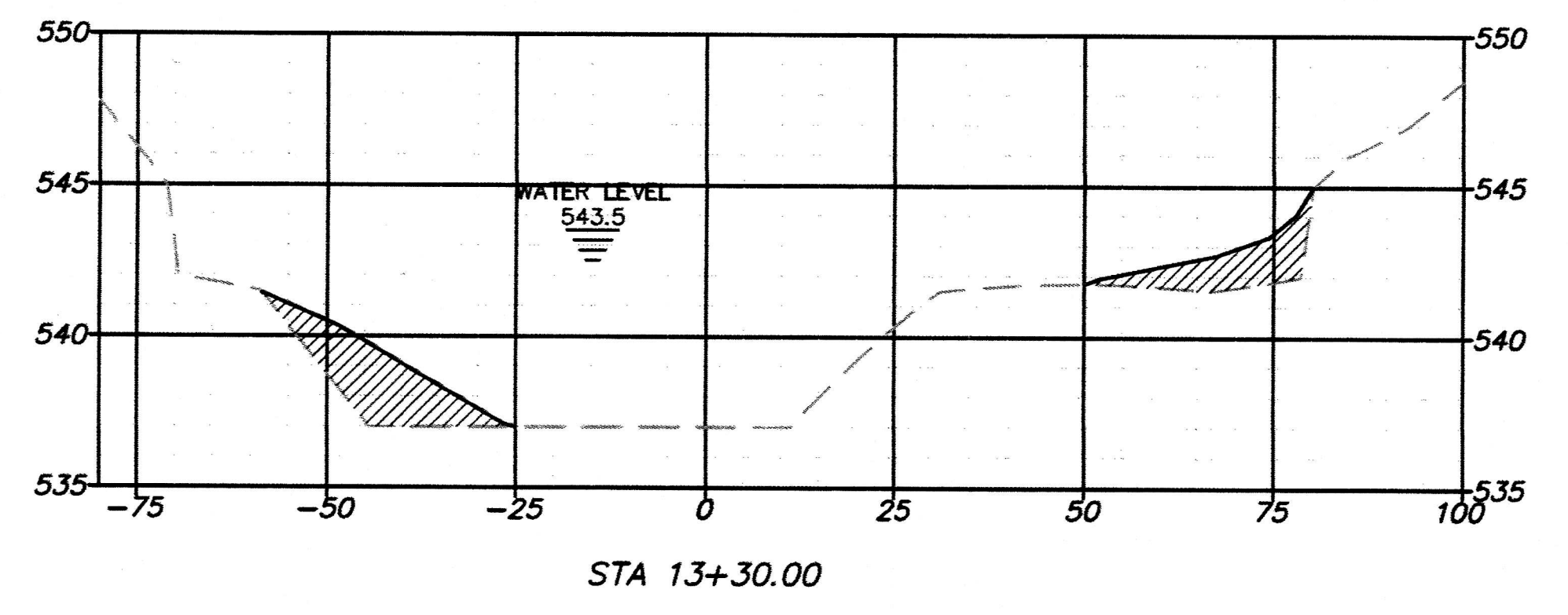
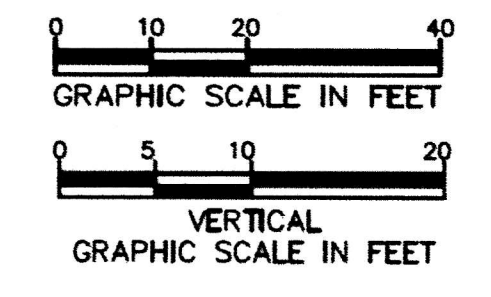
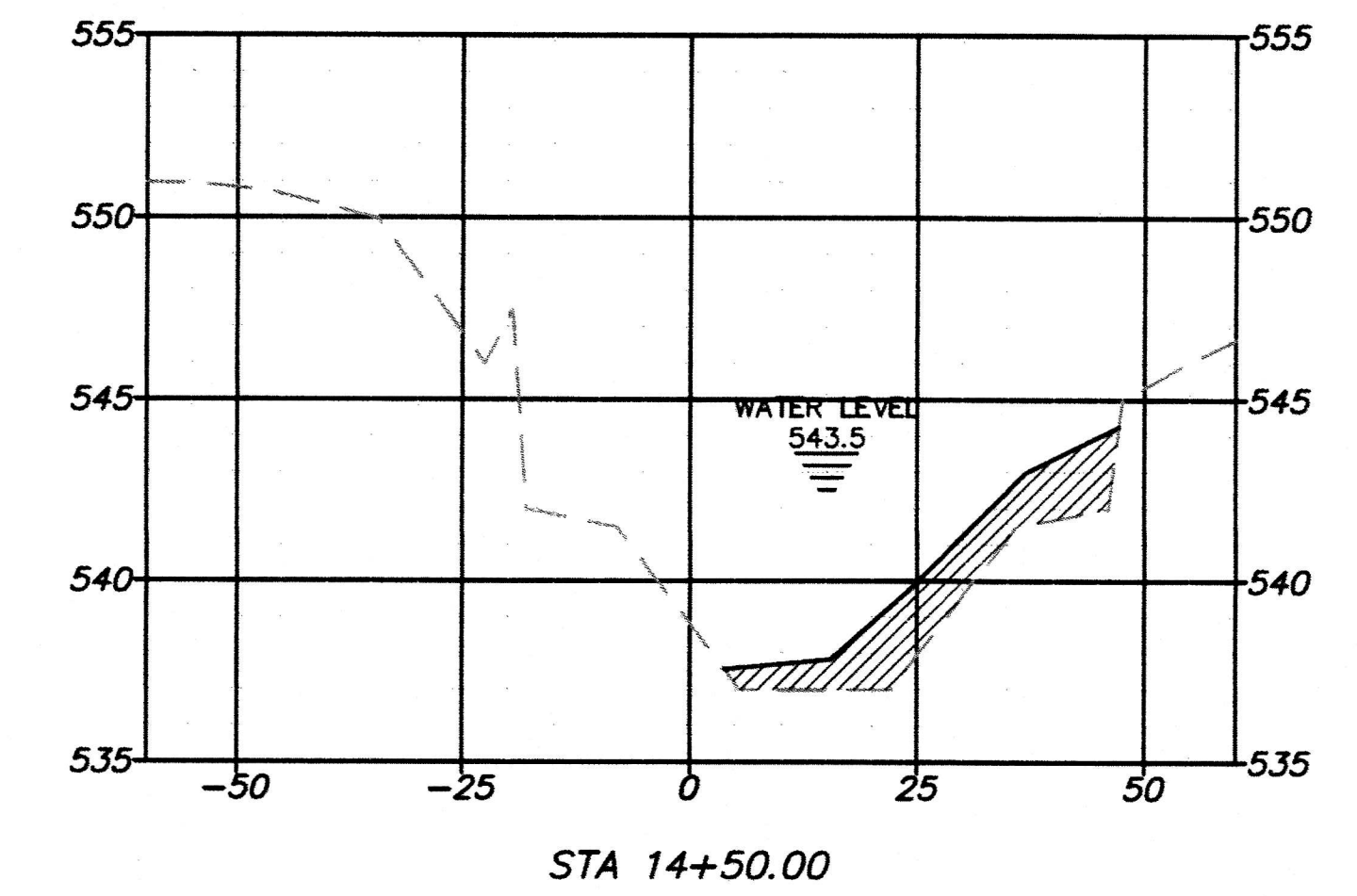
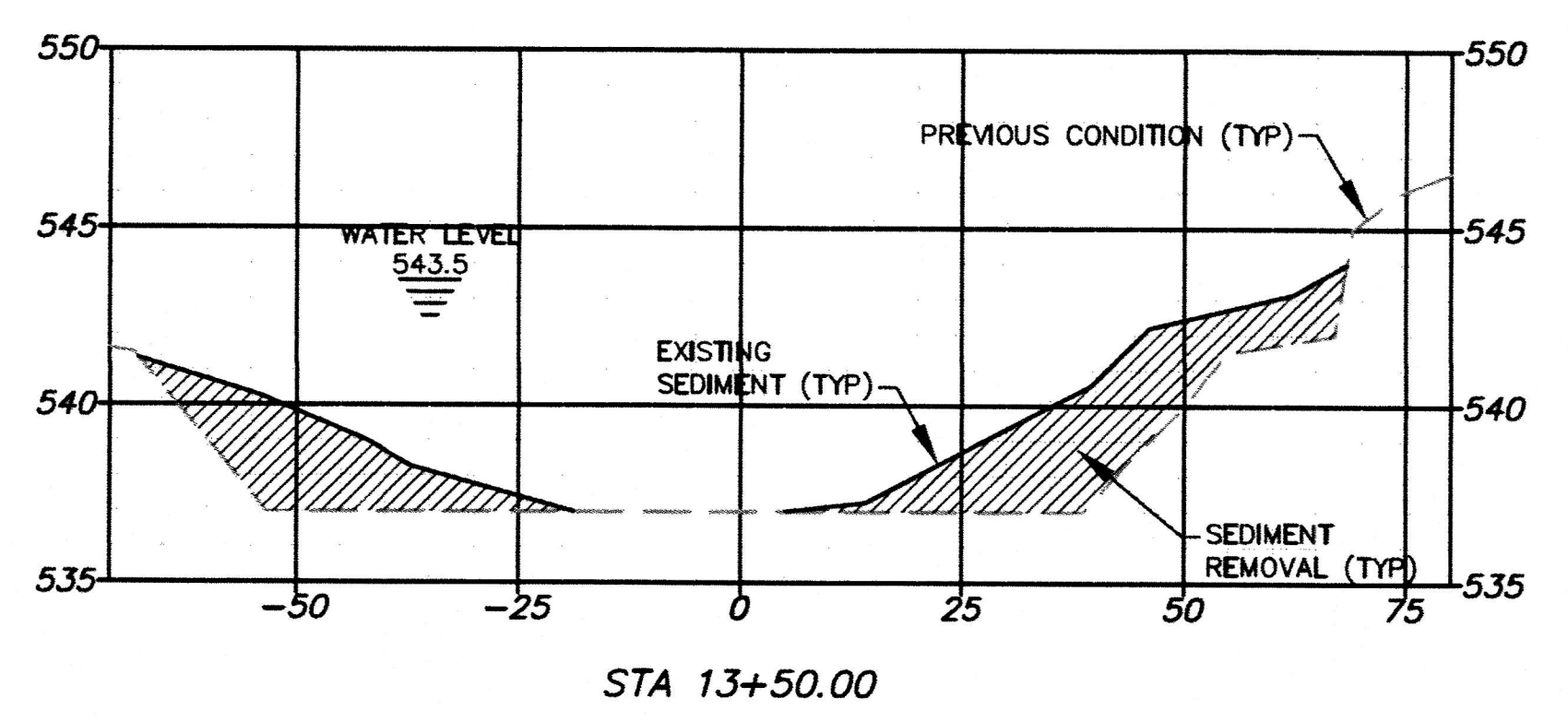
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MAIN CHANNEL CROSS SECTIONS					Sheet No.
design	drawn	checked	scale	date	15
NDM	NDM	NDM	NDM	2/20/19	22
NDM job number					18-005

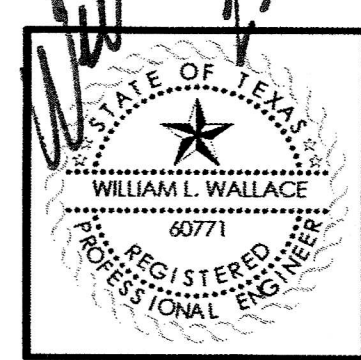
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▲ WATER SURFACE ADDED BASED ON SURVEY OF 2/18/2019.

NOTE:
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BAR IS ONE INCH
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revisions	date
▲ ADDENDUM 3	2/20/2019

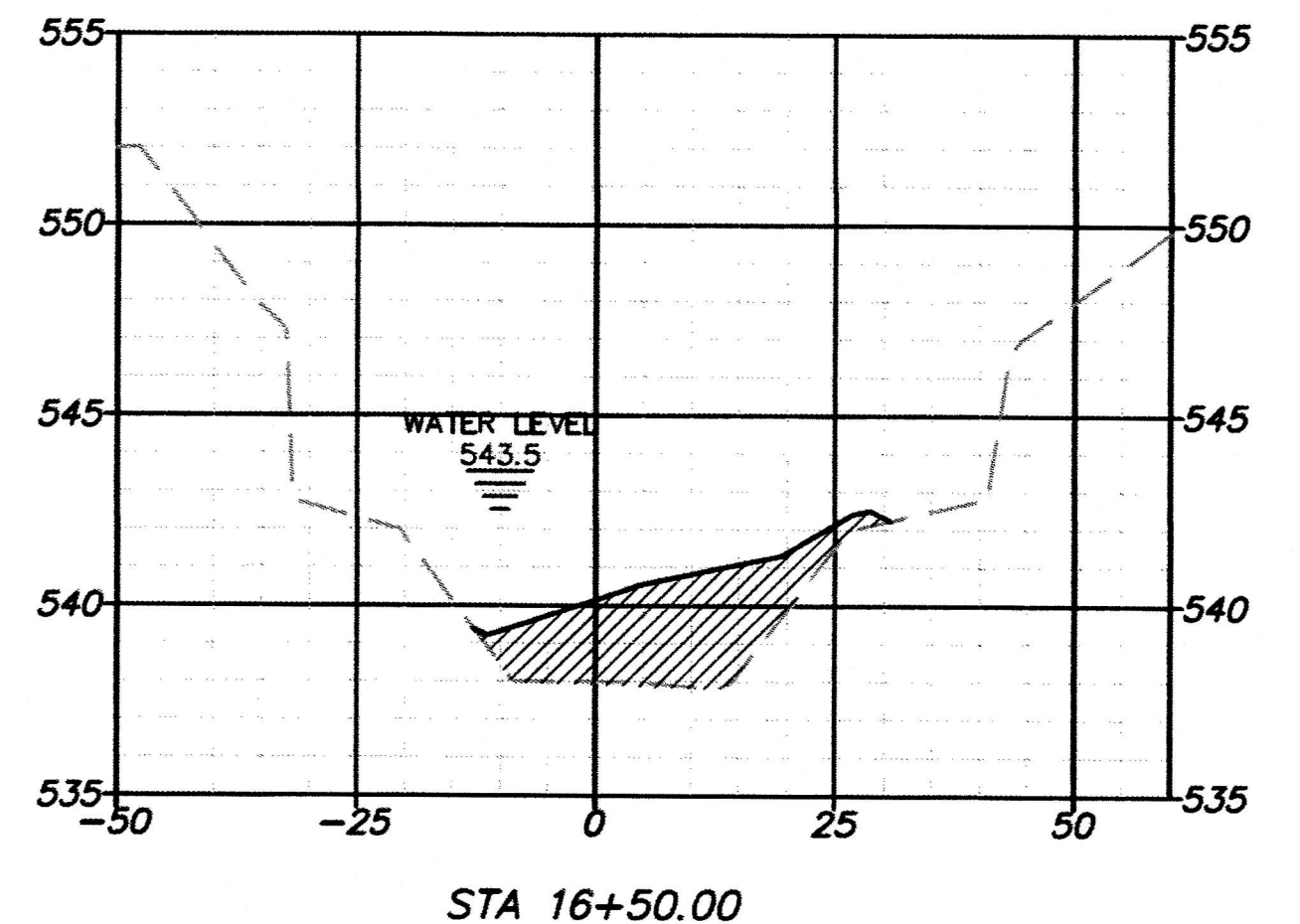
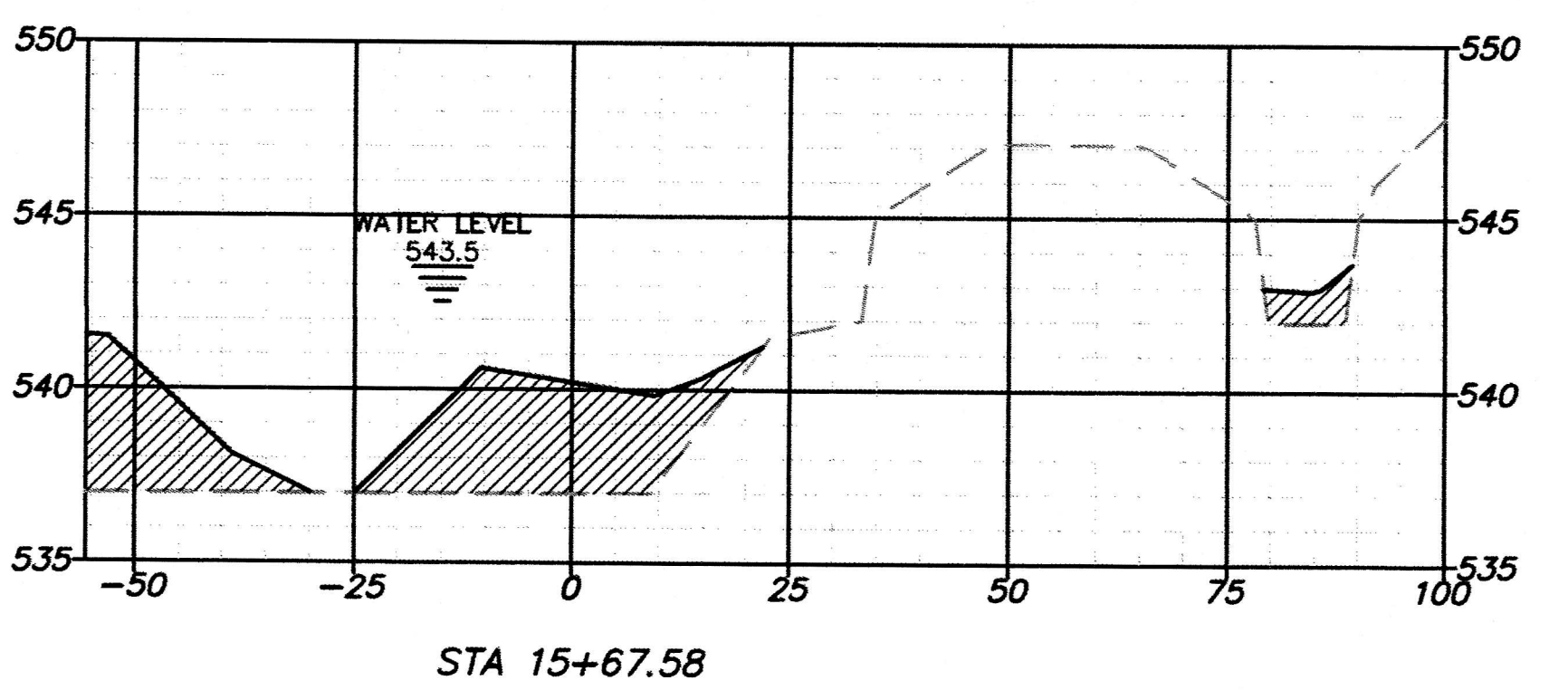
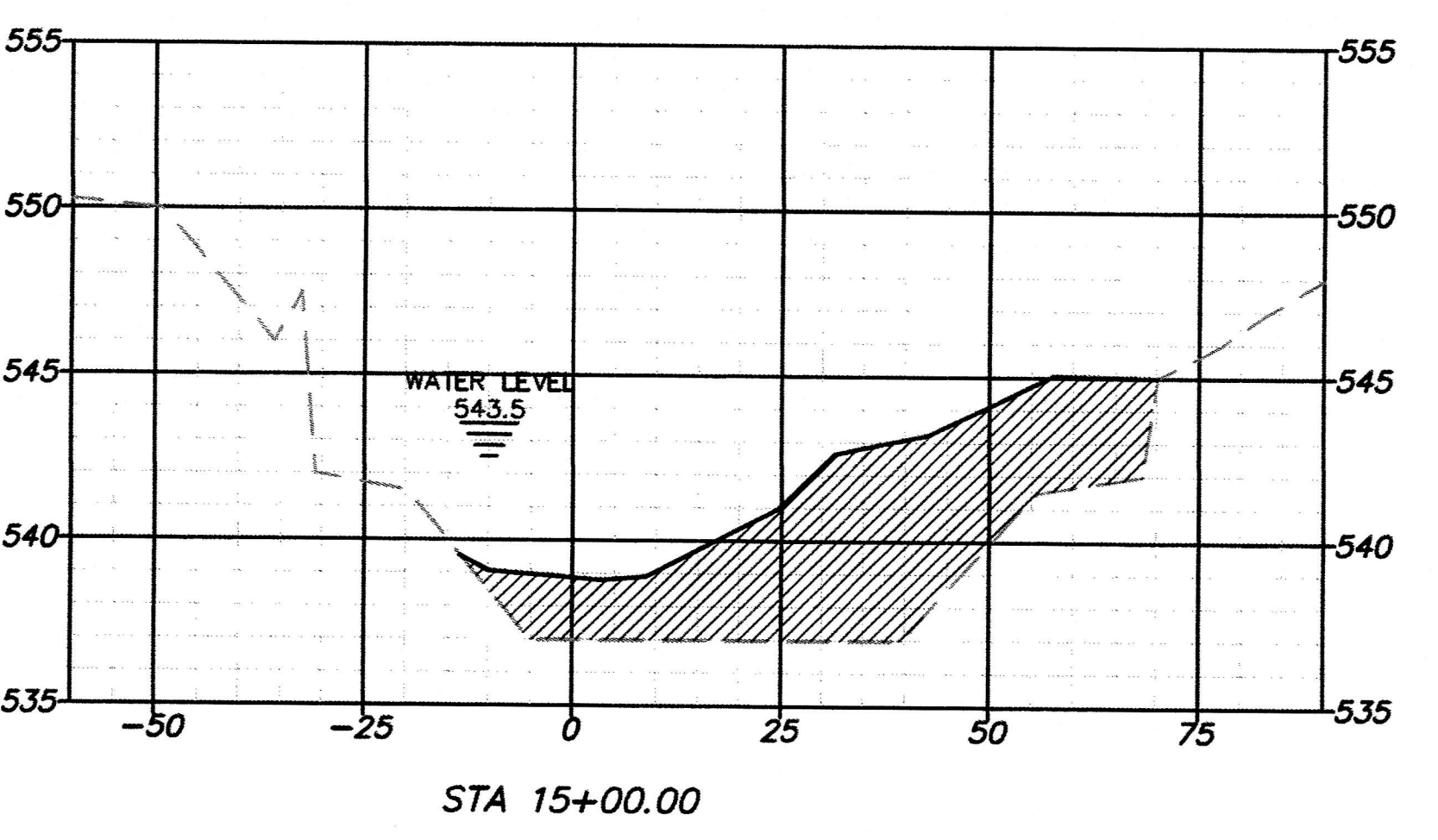
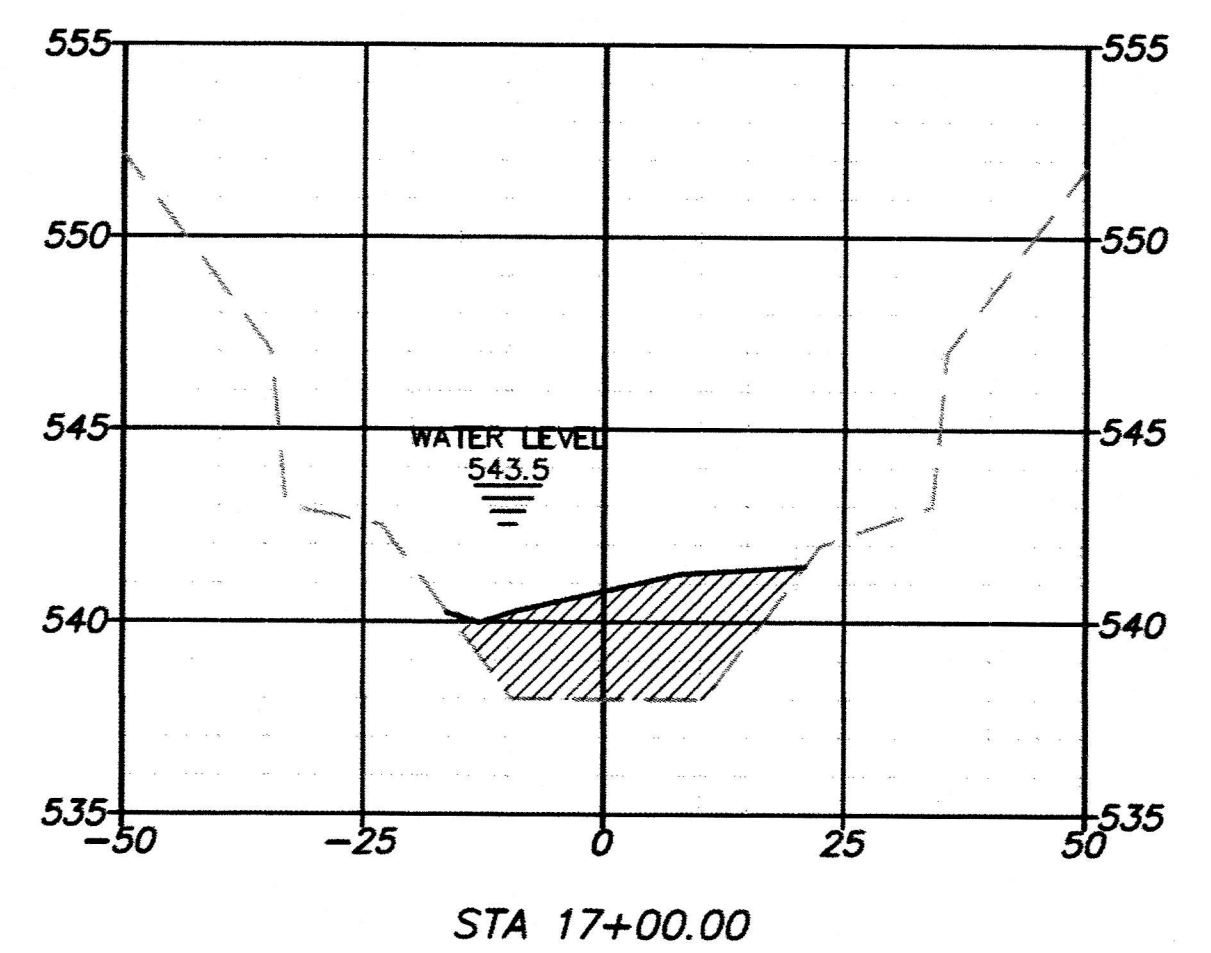
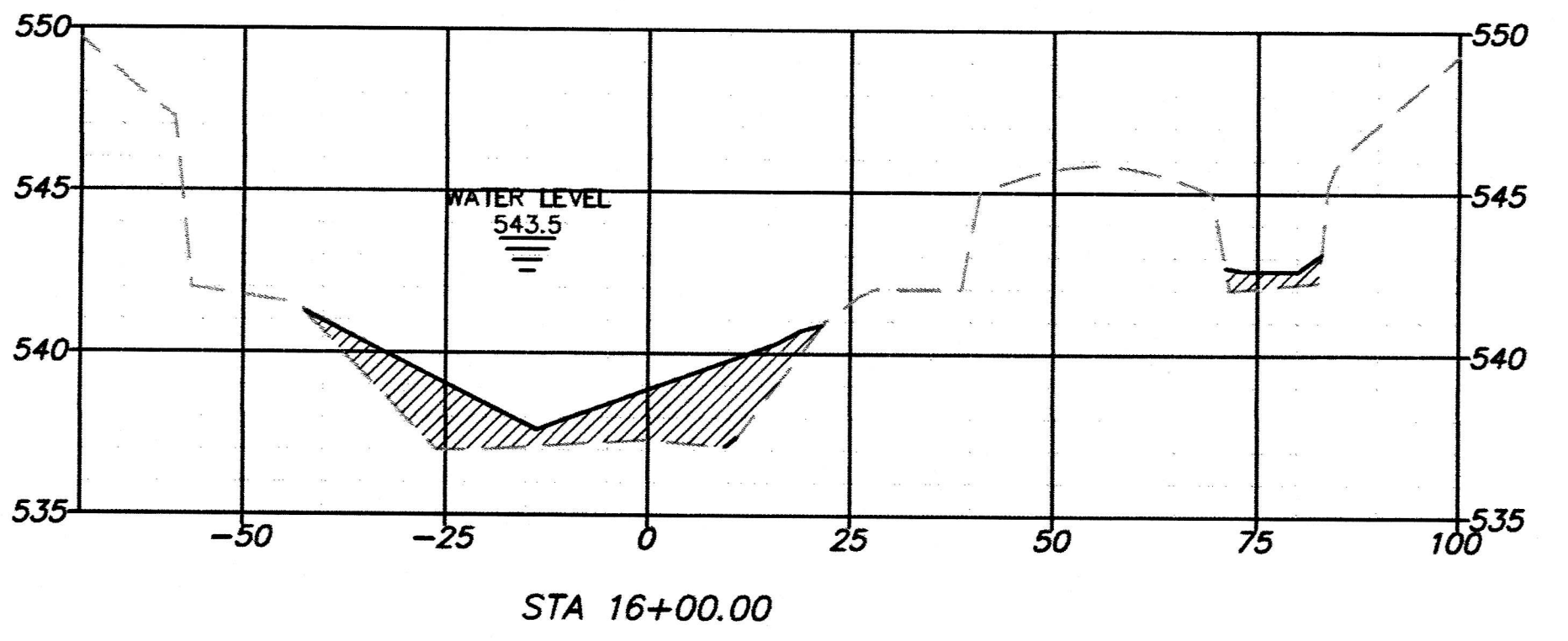
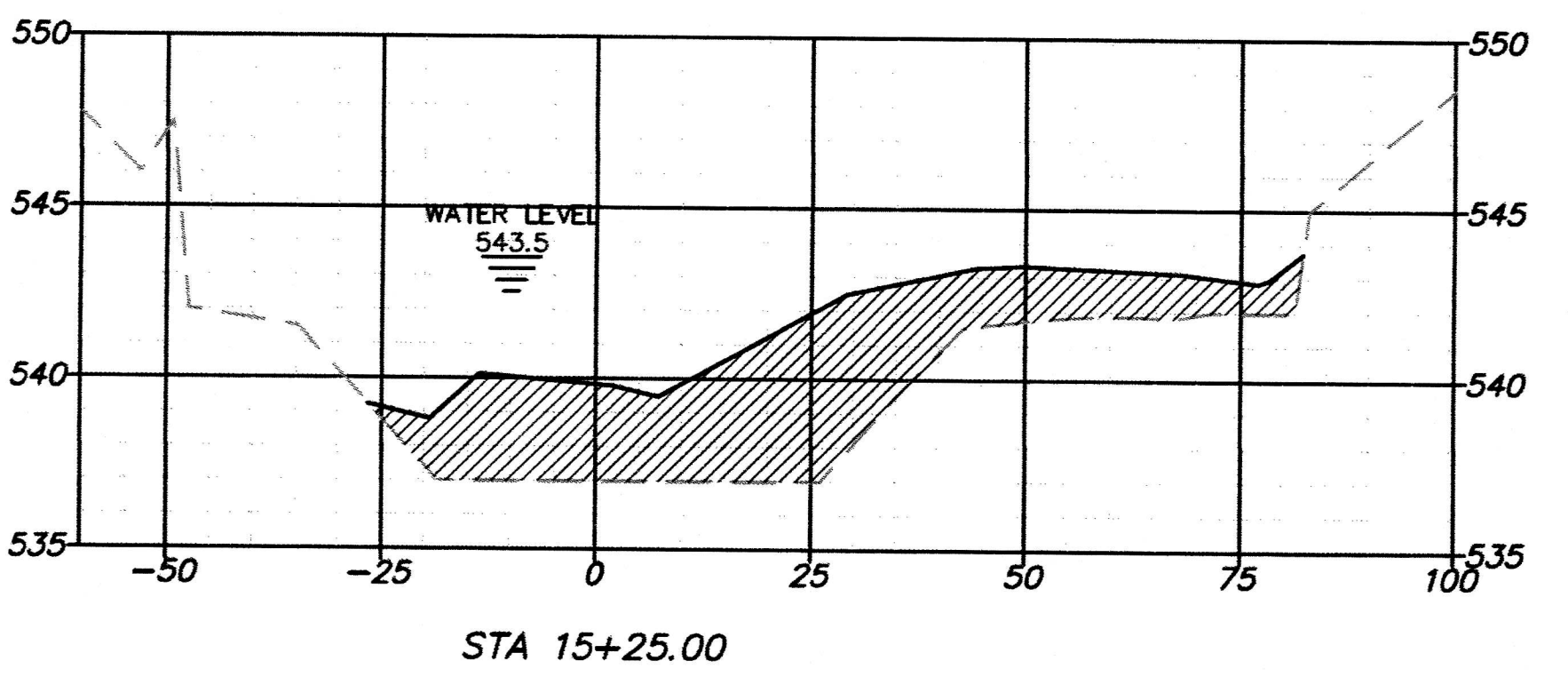
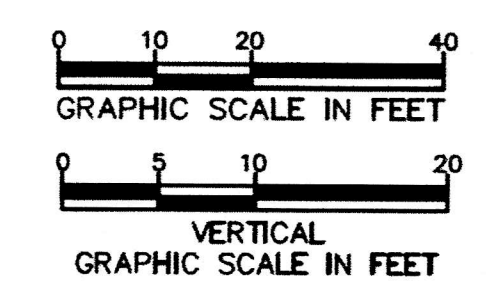
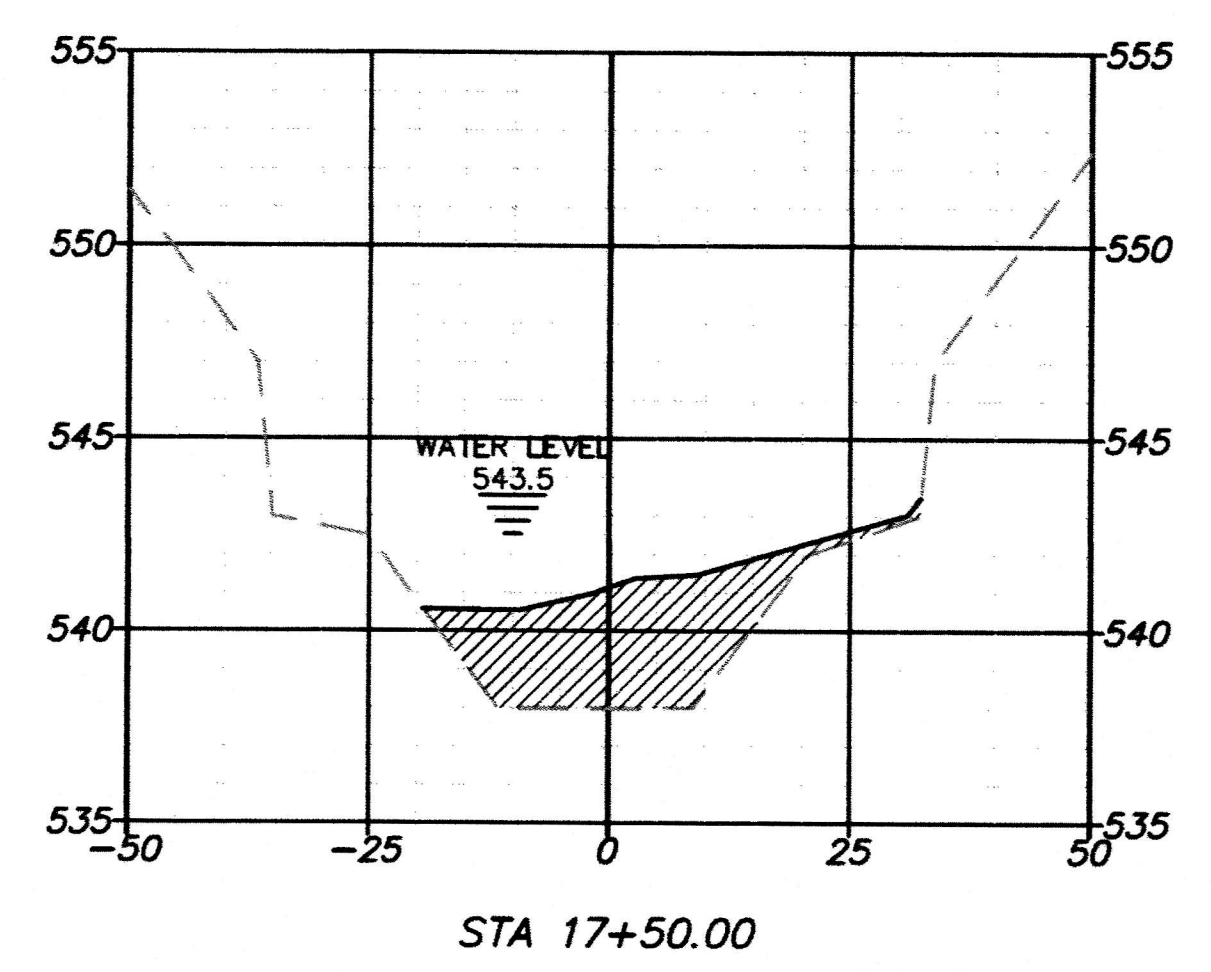
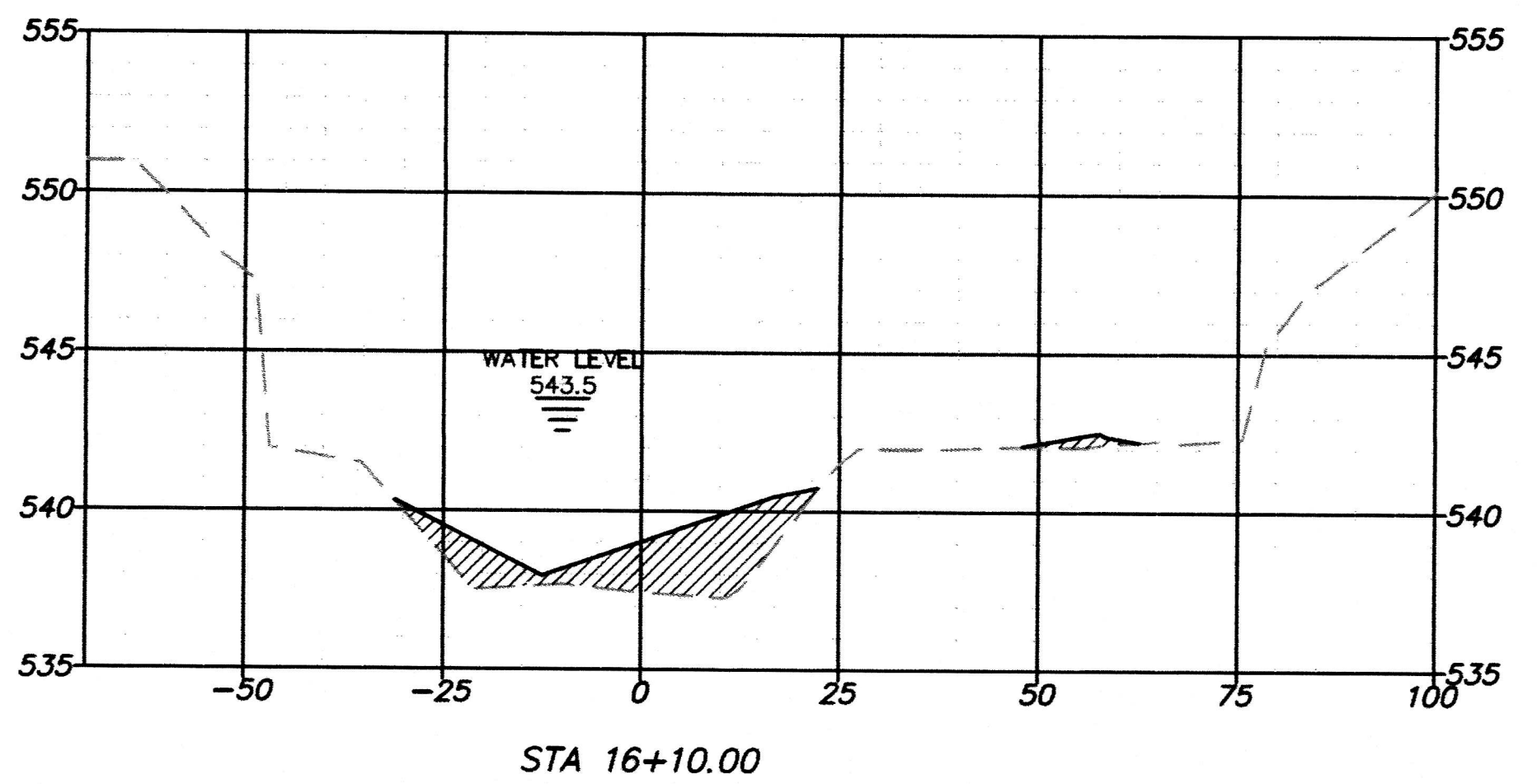
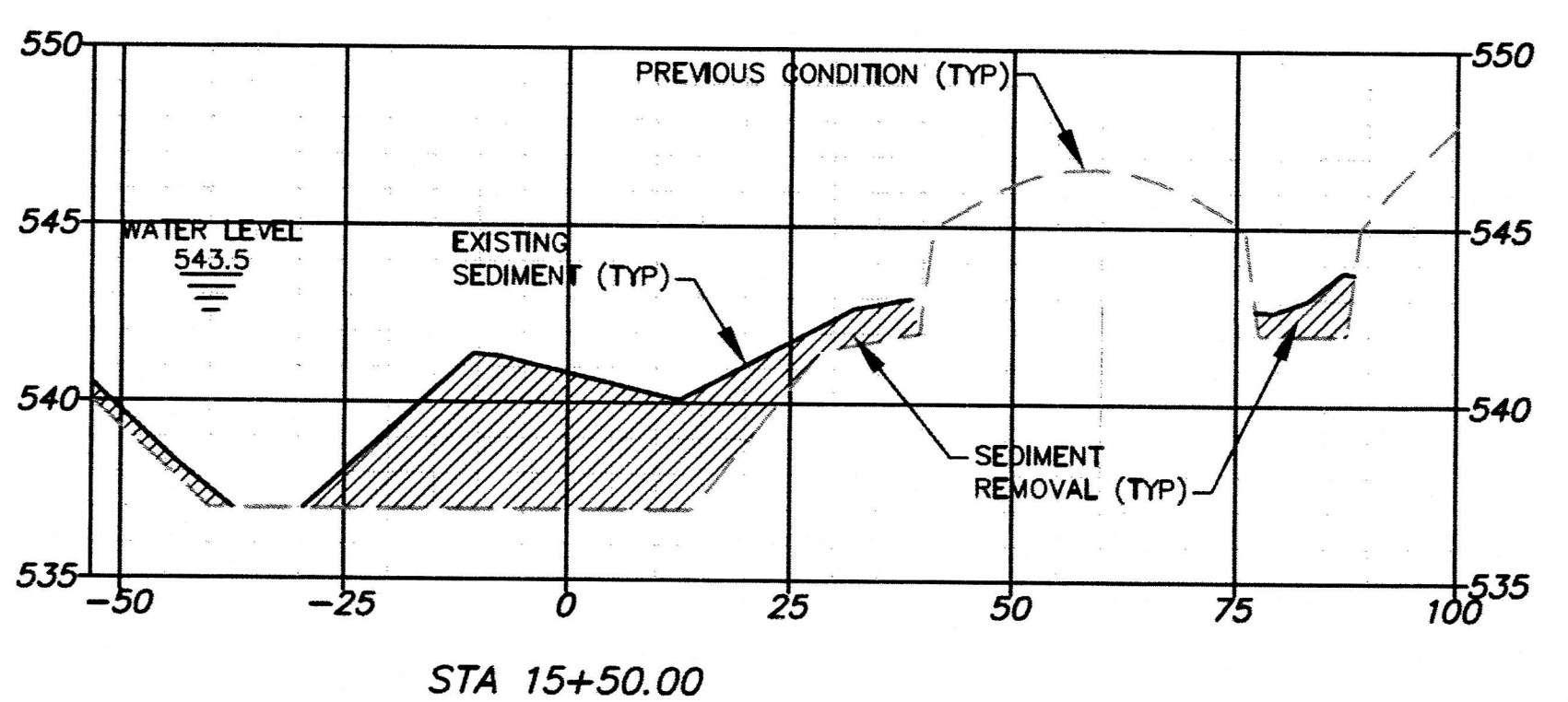
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MAIN CHANNEL CROSS SECTIONS				
design	drawn	checked	scale	date
NDM	NDM	NDM	NDM	2/20/19

Sheet No.	16
	22
NDM job number	18-005

CHECK PRINT NO. _____ PLOT DATE: 2/20/19 DATE: _____
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William L. Wallace
 2/20/19
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF TEXAS
 WILLIAM L. WALLACE
 60771

▲ WATER SURFACE ADDED BASED ON SURVEY OF 2/18/2019.

NOTE:
 SEDIMENT AMOUNTS AND LOCATIONS AS SURVEYED ON 07/19/2018 AND 08/20/2018.

BAR IS ONE INCH ON FULL-SIZE DRAWING ADJUST SCALE IF DRAWING IS REDUCED

REVISIONS	DATE
▲ ADDENDUM 3	2/20/2019

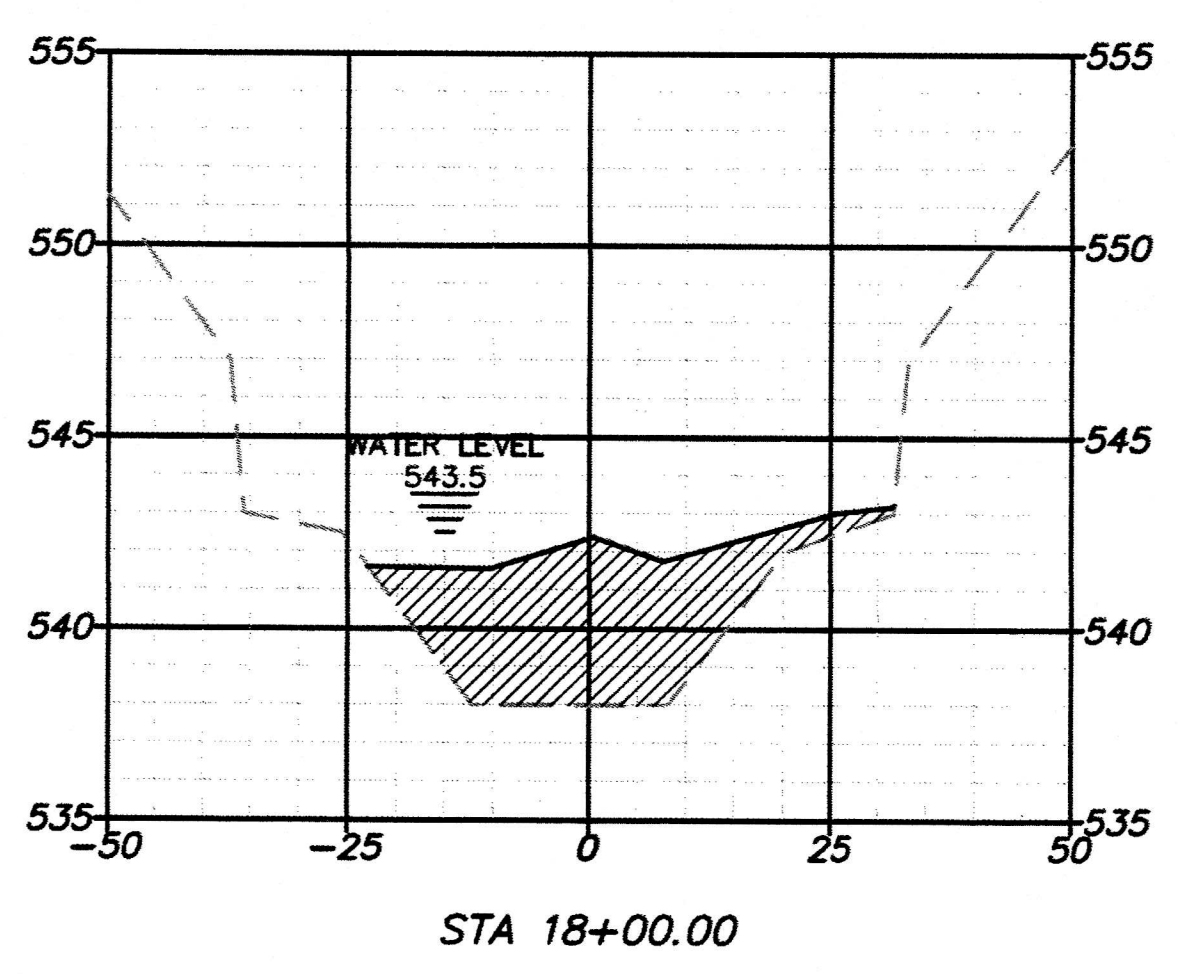
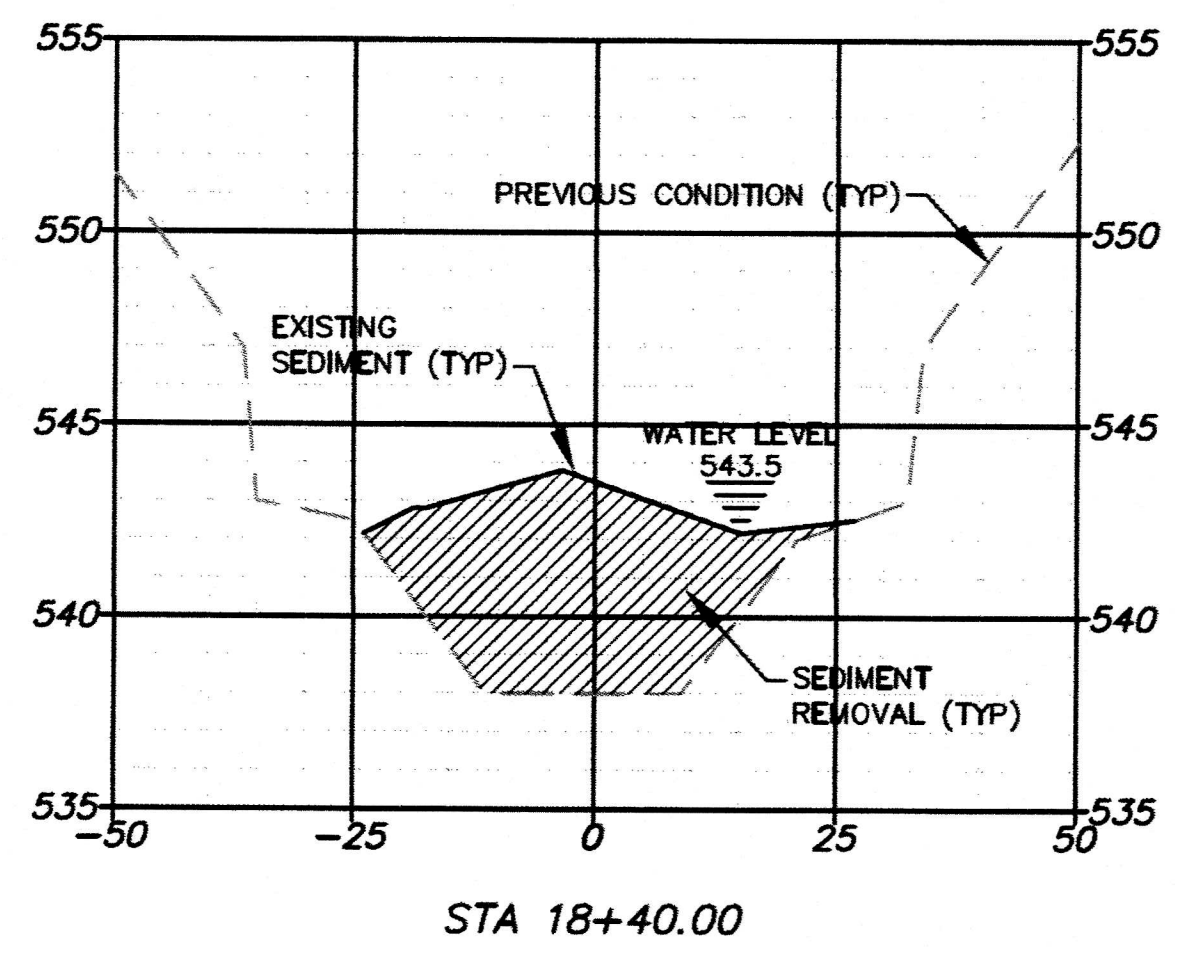
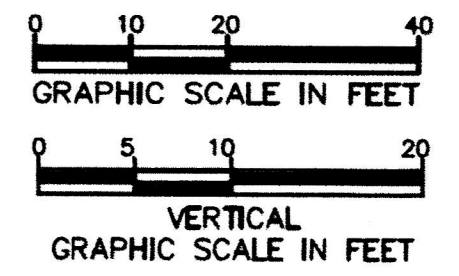
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ADDISON
 VITRUVIAN PARK
 DREDGING
 TOWN OF ADDISON
 DALLAS COUNTY, TEXAS

MAIN CHANNEL CROSS SECTIONS				
design	drawn	checked	scale	date
NDM	NDM	NDM	NDM	2/20/19

Sheet No.	17
	22
NDM job number	18-005

CHECK PRINT NO. _____ PLOT DATE: 2/20/19 DATE: _____
 REVIEWED BY: _____ DATE: _____
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 CORRECTED BY: _____ DATE: _____

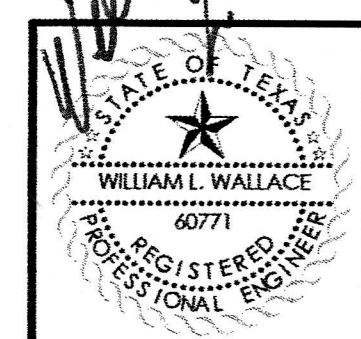


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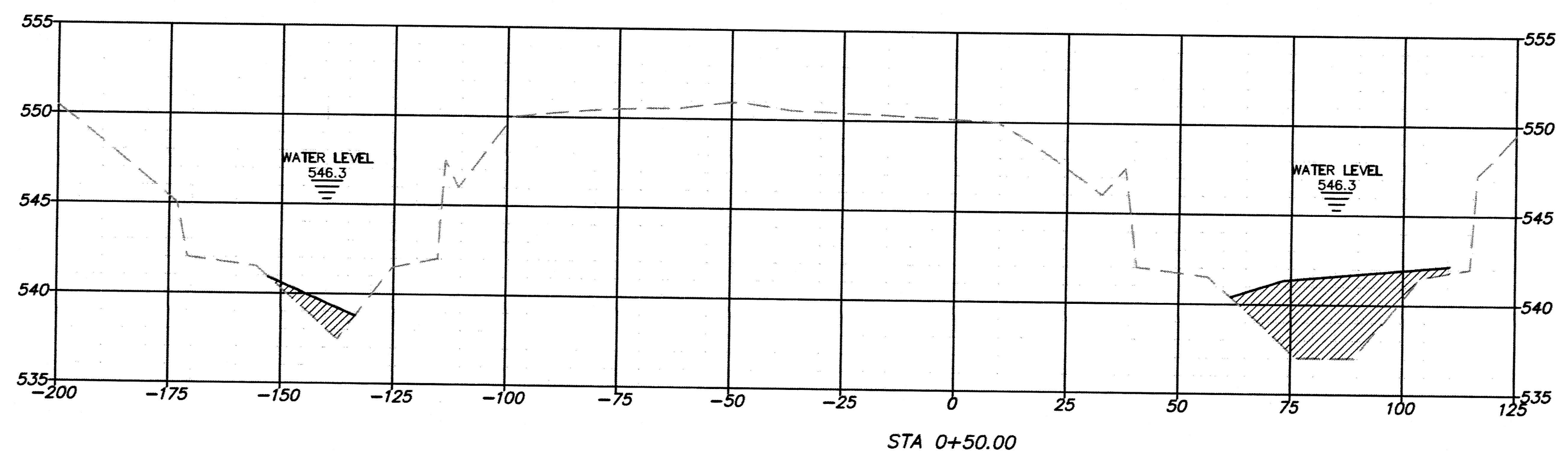
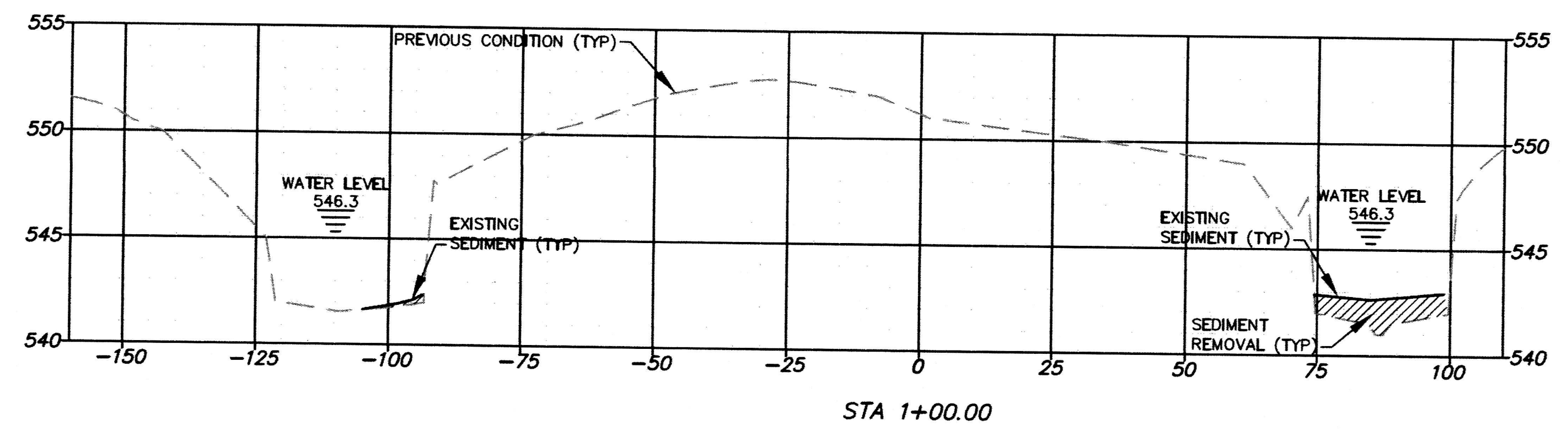
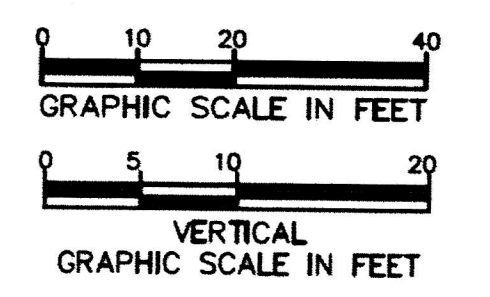
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MAIN CHANNEL CROSS SECTIONS				
design	drawn	checked	scale	date
NDM	NDM	NDM	NDM	2/20/19

Sheet No.	18
	22
NDM job number	18-005

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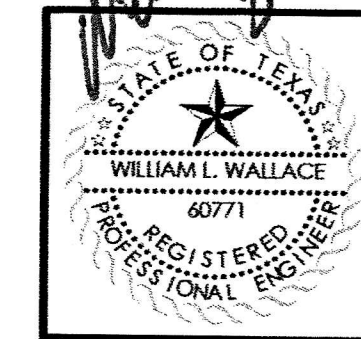


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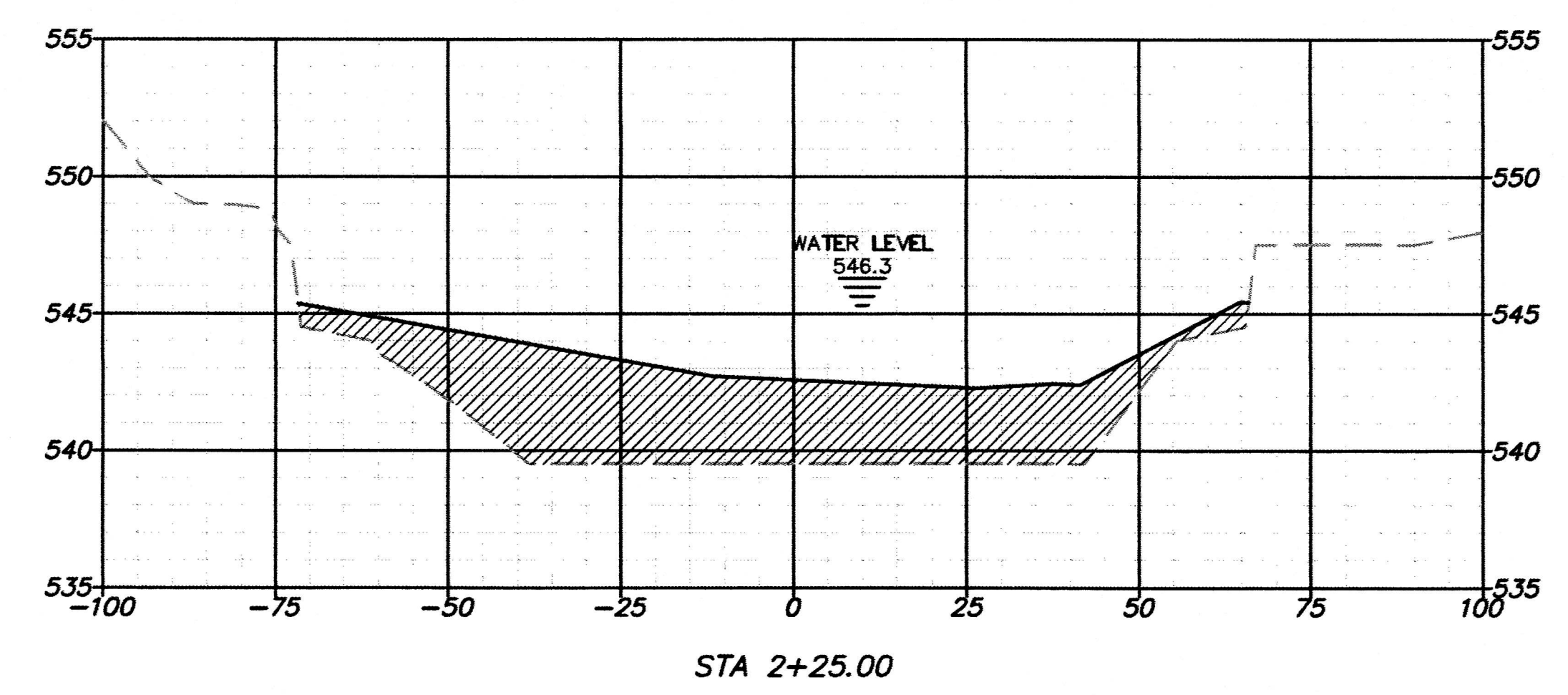
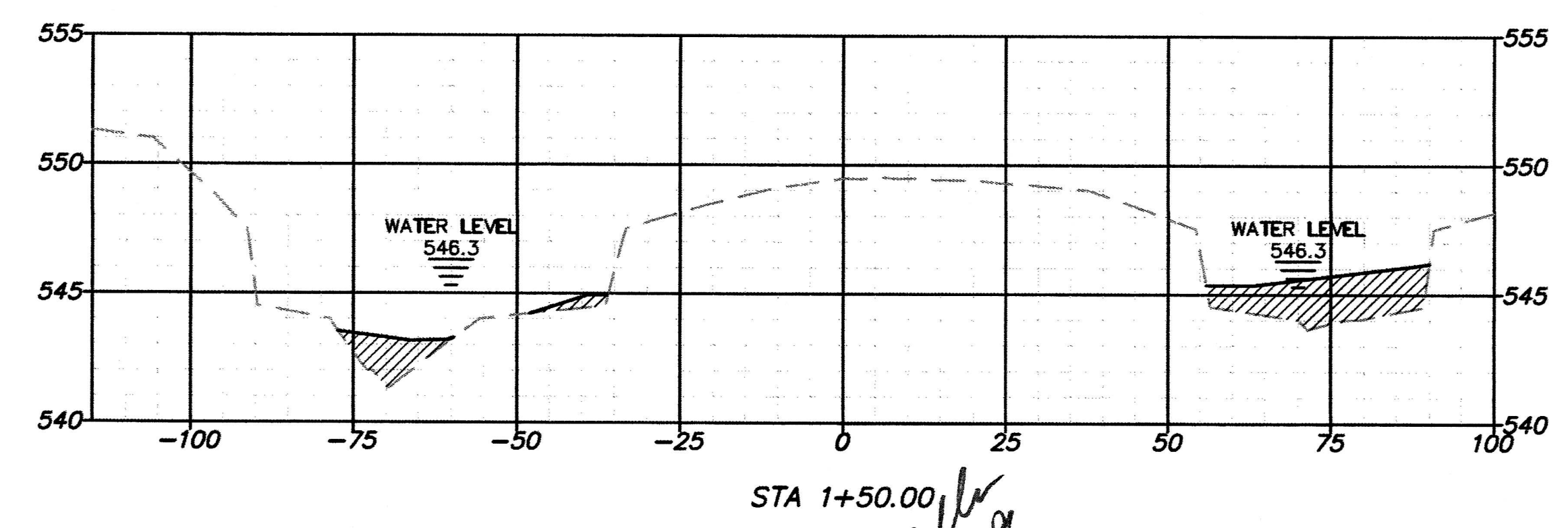
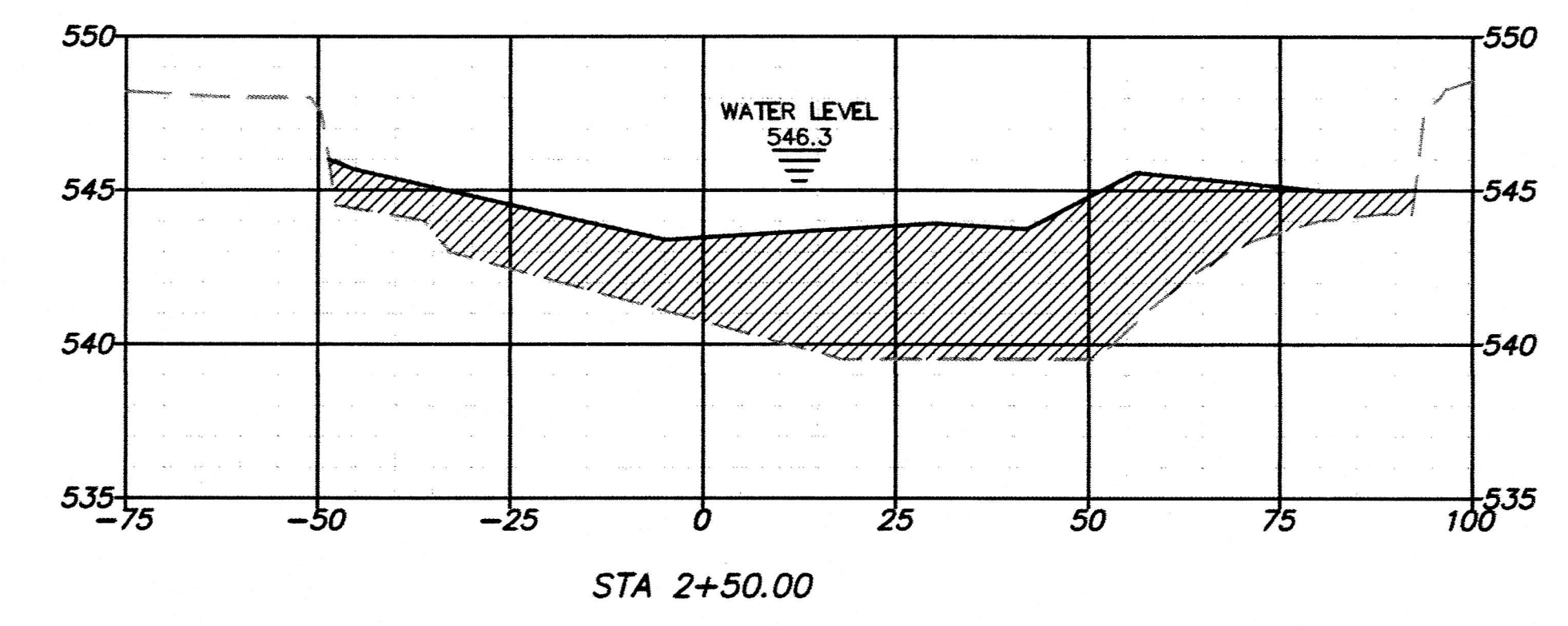
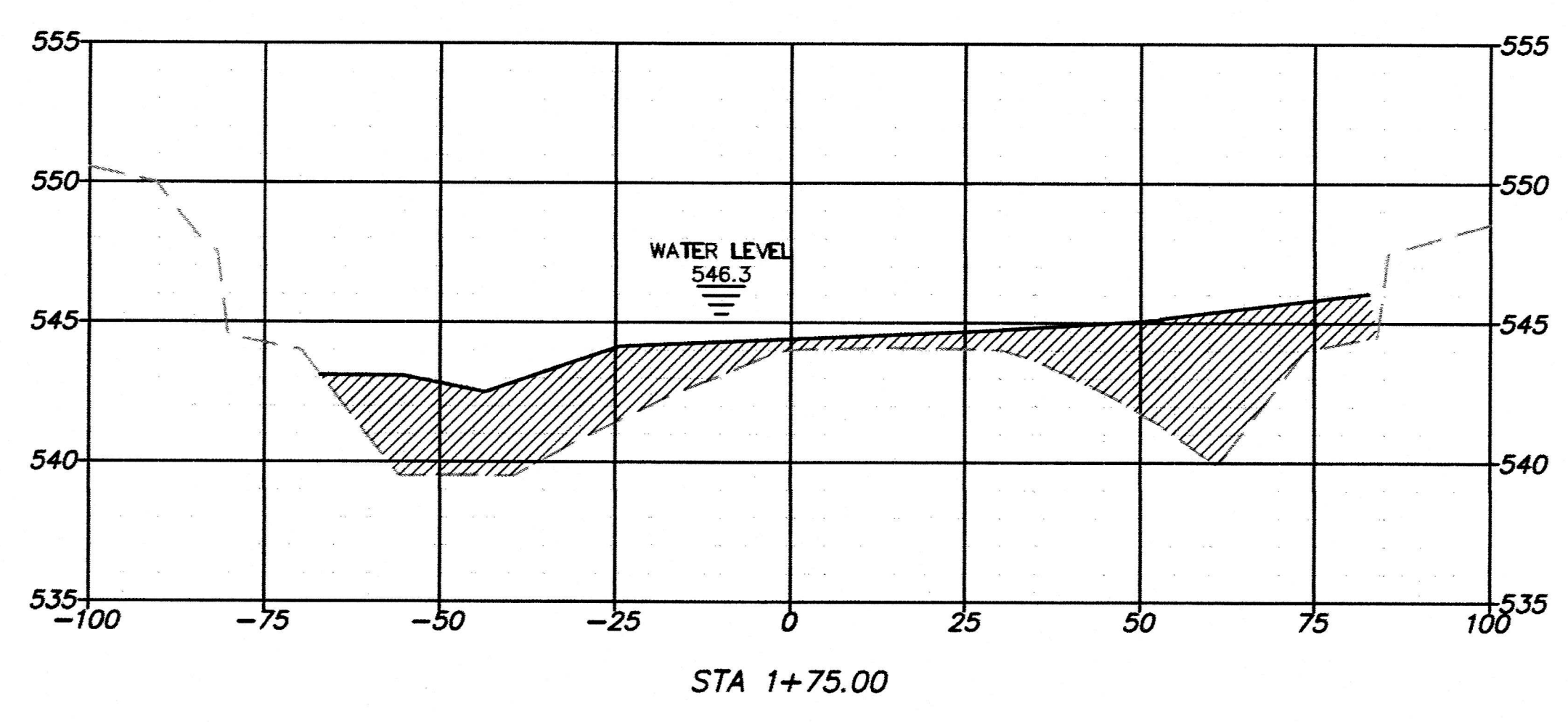
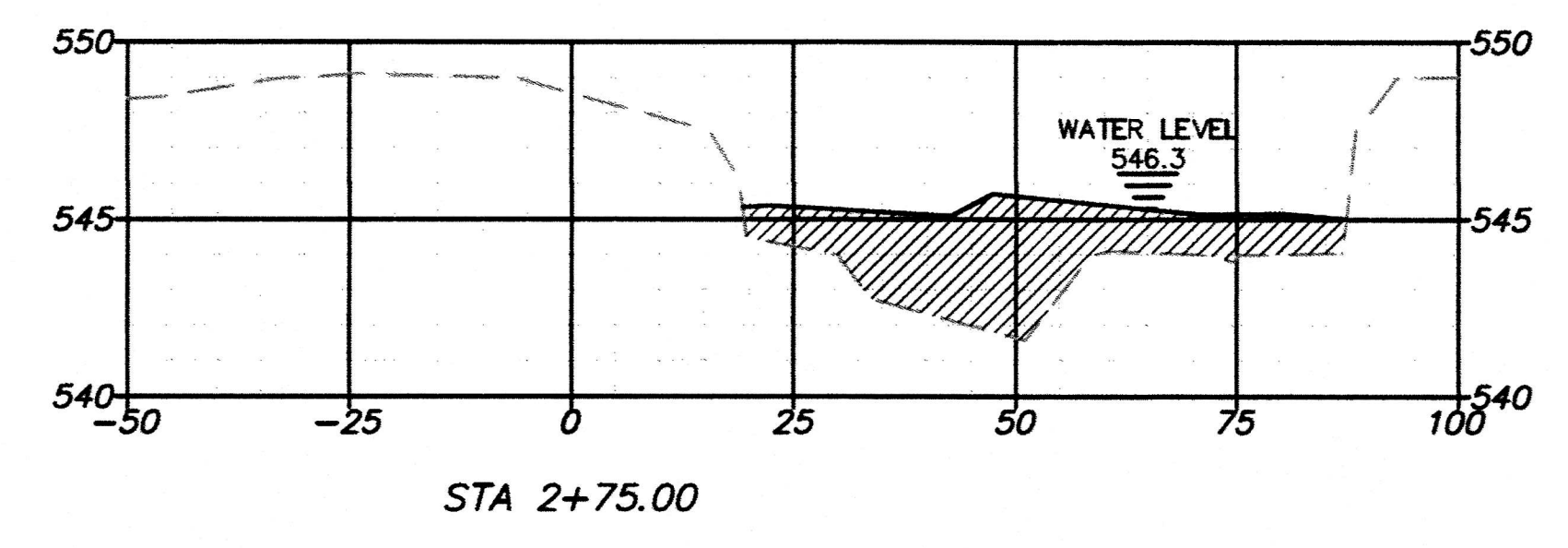
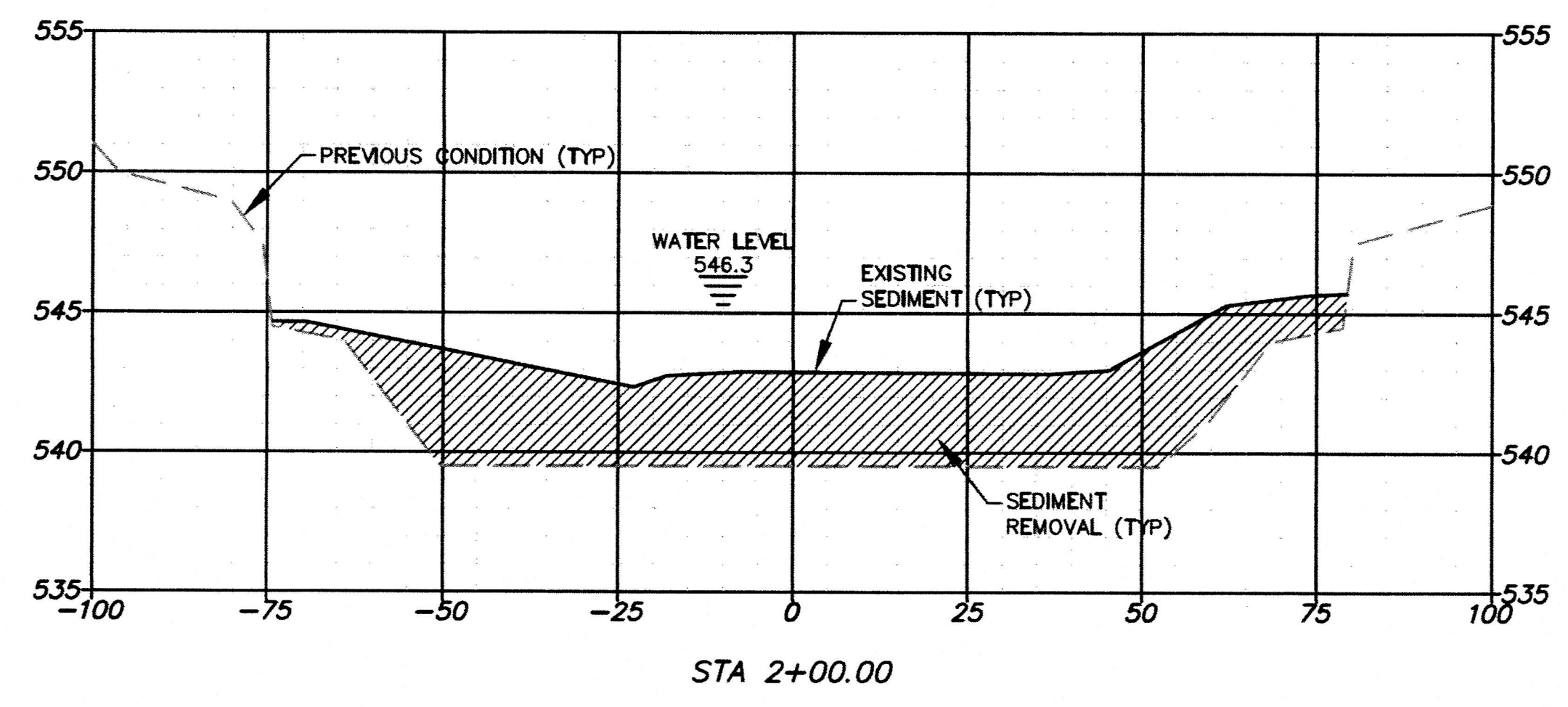
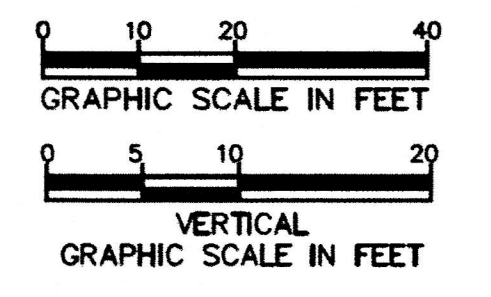
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GROTTO CROSS SECTIONS				
design	drawn	checked	scale	date
NDM	NDM	NDM	NDM	2/20/19

Sheet No.	19
	22
NDM job number	18-005

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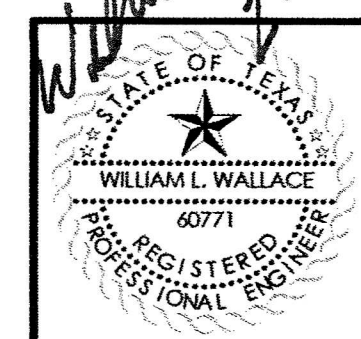
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revisions	date
ADDENDUM 3	2/20/2019

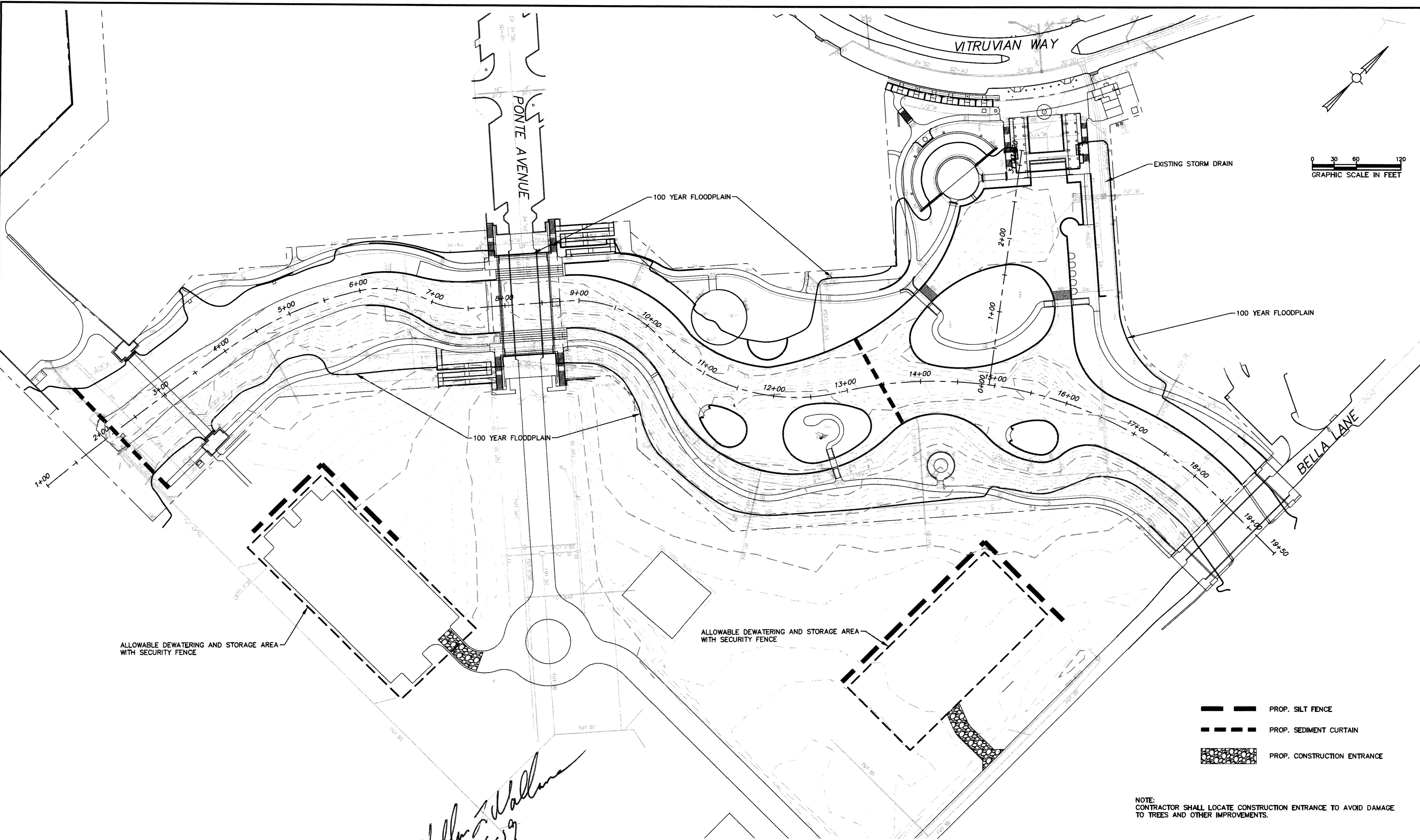
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GROTTO CROSS SECTIONS					Sheet No. 20
design	drawn	checked	scale	date	NDM job number
NDM	NDM	NDM	NDM	2/20/19	18-005

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ALLOWABLE DEWATERING AND STORAGE AREA WITH SECURITY FENCE

ALLOWABLE DEWATERING AND STORAGE AREA WITH SECURITY FENCE

- PROP. SILT FENCE
- PROP. SEDIMENT CURTAIN
- PROP. CONSTRUCTION ENTRANCE

NOTE:
 CONTRACTOR SHALL LOCATE CONSTRUCTION ENTRANCE TO AVOID DAMAGE TO TREES AND OTHER IMPROVEMENTS.

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William L. Wallace
 2-5-19

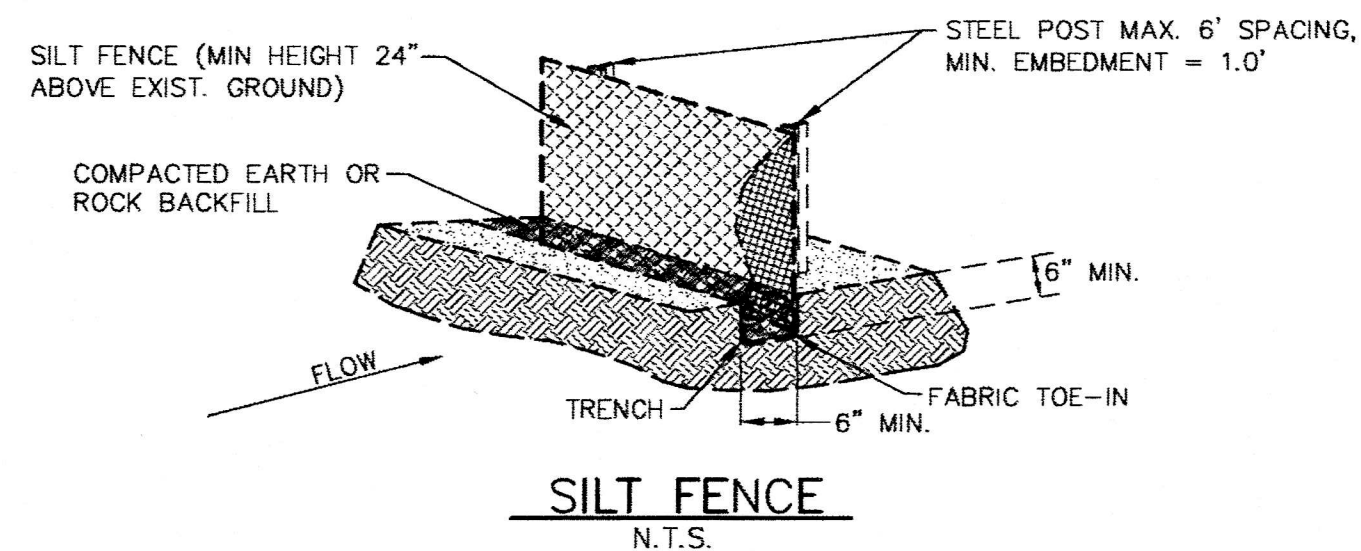
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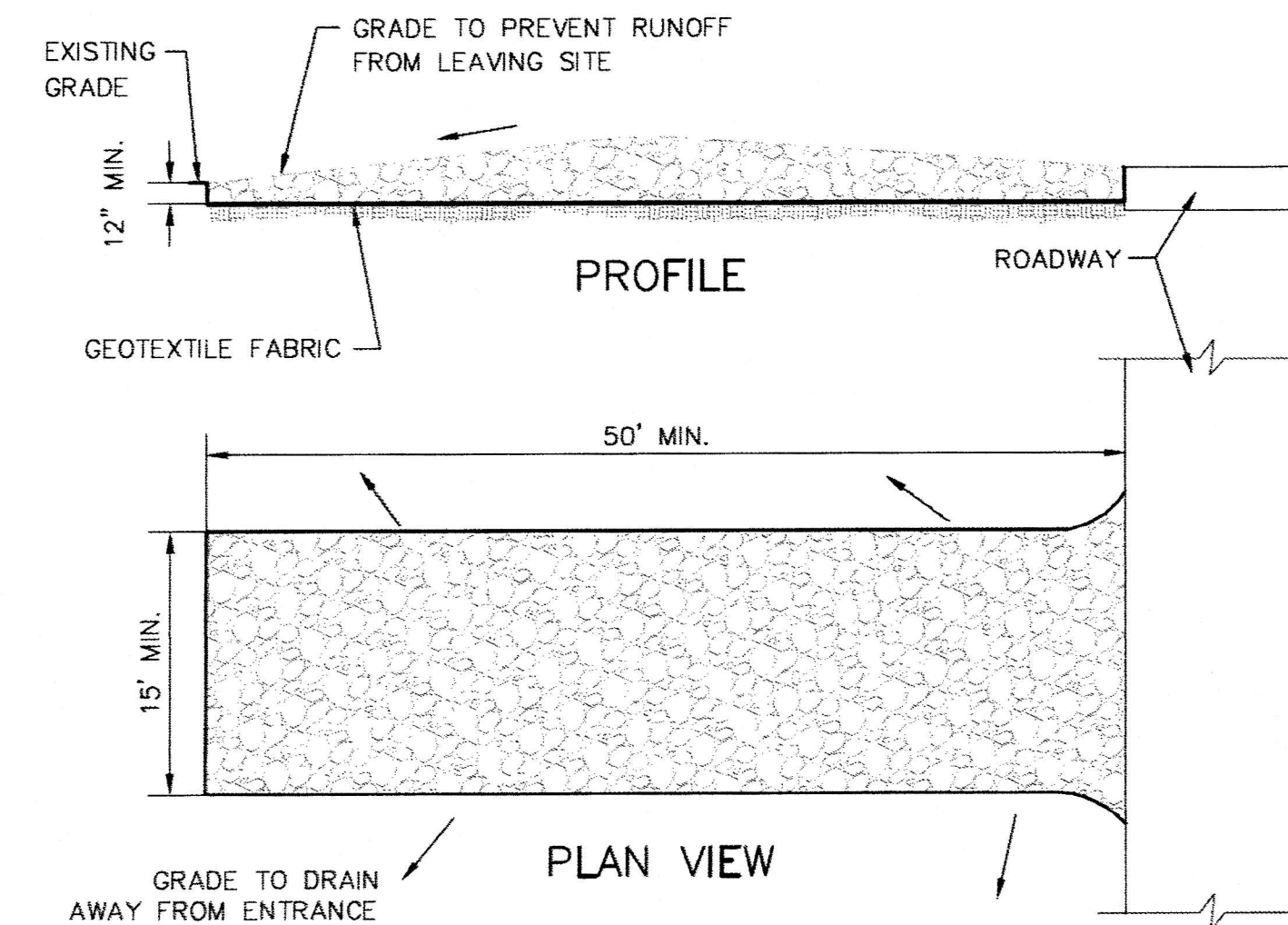
EROSION CONTROL PLAN				
design	drawn	checked	scale	date
NDM	NDM	NDM	NDM	2/5/19

Sheet No.	21
	22
NDM job number	18-005



SILT FENCE NOTES:

- DESCRIPTION: SILT FENCE CONSISTS OF GEOTEXTILE FABRIC SUPPORTED BY WIRE MESH STRETCHED BETWEEN METAL SUPPORT POSTS. THE FABRIC IS EXTENDED BELOW GRADE INTO AN EMBEDMENT TRENCH. SILT FENCE IS TYPICALLY LOCATED DOWNSTREAM OF DISTURBED AREAS TO INTERCEPT SHEET FLOW RUNOFF. SILT FENCE PROVIDES BOTH FILTRATION AND TIME FOR SEDIMENT TO SETTLE OUT OF RUNOFF BY REDUCING RUNOFF VELOCITY.
- PRIMARY USE: SILT FENCE IS TYPICALLY USED FOR PERIMETER CONTROL ON THE DOWNSTREAM SIDE OF DISTURBED AREAS. SILT FENCE SHOULD ONLY BE USED FOR NON-CONCENTRATED, SHEET FLOW CONDITIONS.
- APPLICATIONS: SILT FENCE IS AN ECONOMICAL MEANS TO TREAT OVERLAND, NON-CONCENTRATED FLOWS FOR ALL TYPES OF PROJECTS WHEN PROPERLY INSTALLED AND MAINTAINED. SILT FENCE IS MOST EFFECTIVE WITH COARSE TO SILTY TYPE SOILS. CAUTION SHOULD BE USED IN INSTALLING SILT FENCE IN CLAYEY SOIL TYPES DUE TO THE POSSIBILITY OF CLOGGING THE GEOTEXTILE MATERIAL.
- DESIGN CRITERIA: CONSTRUCT FENCE AT CONSTANT ELEVATION WHERE POSSIBLE. DO NOT EXCEED 0.25 ACRE DRAINAGE AREA PER 100 LF OF SILT FENCE. DO NOT EXCEED 1 CFS FLOW TO ANY 20 LF SECTION OF SILT FENCE. MAXIMUM DISTANCE OF FLOW TO SILT FENCE SHALL BE 200 LF. IF THE SLOPE FLOWING TOWARD THE SILT FENCE EXCEEDS 10%, MAXIMUM DISTANCE OF FLOW SHALL BE 50 LF. MAXIMUM SLOPE ADJACENT TO FENCE SHALL BE 2:1. IF 50% OR LESS OF SOIL BY WEIGHT PASSES THE US STANDARD SIEVE NO 200, SELECT THE APPARENT OPENING SIZE TO RETAIN 85% OF SOIL. IF 85% OR MORE OF SOIL BY WEIGHT PASSES THE US STANDARD SIEVE NO 200, SILT FENCES MUST BE APPROVED FOR USE BY GEOTECHNICAL ENGINEER OR SOILS SCIENTIST. SILT FENCE PLACEMENT MUST MAINTAIN ROOM FOR THE MAINTENANCE OF SILT FENCE. THE ENDS OF THE SILT FENCE SHOULD BE TURNED UPSTREAM. FENCE SHALL BE SECURELY FASTENED TO SUPPORT POSTS. ENDS OF FABRIC SHOULD BE OVERLAPPED A MINIMUM OF THREE FEET. OVERLAPS SHOULD BE SECURELY FASTENED.
- GEOTEXTILE MINIMUM CRITERIA: TENSILE STRENGTH ASTM D4632 90 LBS. PUNCTURE RATING ASTM D4833 60 LBS. MULLEN BURST RATING ASTM D3786 280 PSI. APPARENT OPENING SIZE ASTM D4751 70 (MAX.) TO 100 (MIN.). ULTRAVIOLET RESISTANCE ASTM D4355 MIN. 70 PERCENT.
- POST MINIMUM CRITERIA: POST SHALL BE GALVANIZED STEEL T-SECTION, 1.3 POUNDS PER LINEAR FOOT MIN., 4 LF MIN.
- FENCE SUPPORT MINIMUM CRITERIA: FENCE SHALL BE SUPPORTED BY 14 GA. GALVANIZED STEEL WIRE FABRIC WITH 4" WIRE SPACING., STANDARD 2" X 2" CHAIN LINK FENCE FABRIC, 12 GAUGE HOG WIRE, OR OTHER EQUAL WELDED OR WOVEN STEEL FABRIC.
- LIMITATIONS: SOME PONDING IS LIKELY TO OCCUR ON THE UPSTREAM SIDE OF THE SILT FENCE. SILT FENCES ARE NOT INTENDED FOR USE IN AREAS OF CONCENTRATED FLOW. SILT FENCES REQUIRE CONDITIONS WHICH ALLOW FOR TOE-IN TRENCH. SILT FENCE CAN INTERFERE WITH CONSTRUCTION OPERATIONS IF SCHEDULING AND/OR ACCESS IS NOT CONSIDERED. SILT FENCE CAN FAIL DURING HEAVY STORM FLOWS. SILT FENCE MUST REMAIN IN PLACE UNTIL THE DISTURBED AREA IS COMPLETELY STABILIZED.
- MAINTENANCE: SILT FENCE SHOULD BE INSPECTED REGULARLY. MINIMUM INSPECTION REQUIREMENTS ARE LISTED IN THE TPDES TXR 150000 CONSTRUCTION GENERAL PERMIT. INSPECTIONS MUST CONSIDER SEDIMENT BUILD-UP, UNDERCUTTING, SAGS, AND OTHER FAILURES. AT A MINIMUM, SEDIMENT SHOULD BE REMOVED WHEN IT REACHES ONE HALF THE FENCE HEIGHT. INSPECTION SHOULD ALSO CONSIDER THE USE OF ADDITIONAL BMPS OR USE OF OTHER BMPS IN LIEU OF SILT FENCE IF FENCE PROVES TO BE INEFFECTIVE.



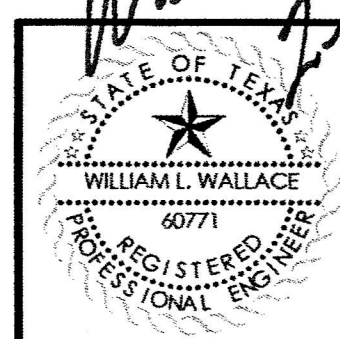
STABILIZED CONSTRUCTION ENTRANCE N.T.S.

STABILIZED CONSTRUCTION ENTRANCE NOTES:

- DESCRIPTION: A CONSTRUCTION ENTRANCE IS STABILIZED WITH ROCK PLACED OVER GEOTEXTILE FABRIC. A CONSTRUCTION ENTRANCE FACILITATES REMOVAL OF SEDIMENT AND OTHER DEBRIS FROM CONSTRUCTION EQUIPMENT PRIOR TO EXITING THE CONSTRUCTION SITE. THE CONSTRUCTION ENTRANCE PREVENTS MATERIAL FROM LEAVING THE CONSTRUCTION SITE AND ACCUMULATING ON ROADWAY.
- PRIMARY USE: CONSTRUCTION ENTRANCES ARE USED FOR ALL SITES WHERE VEHICLES ENTER AND LEAVE THE SITE. IT REDUCES SEDIMENT ACCUMULATION ON ROADWAYS. IT ALSO LIMITS TRAFFIC ROUTES TO REDUCE THE TOTAL DISTURBANCE.
- APPLICATIONS: CONSTRUCTION ENTRANCES ARE RECOMMENDED FOR ALL CONSTRUCTION SITES.
- DESIGN CRITERIA: CONSTRUCT SUCH THAT DRAINAGE ACROSS THE ENTRANCE IS DIRECTED TO A CONTROLLED LOCATION FOR TREATMENT AND REMOVAL OF COLLECTED SEDIMENT. SLOPE ENTRANCE TO RETAIN STORM WATER ON SITE. MINIMUM LENGTH SHALL BE 50'. MINIMUM WIDTH SHALL BE 15'. GEOTEXTILE FABRIC SHALL BE INSTALLED PRIOR TO PLACING STONE. STONE SHALL BE PLACED IN 12" LAYERS. MINIMUM STONE SIZE SHALL BE 3 TO 5 INCH COARSE AGGREGATE. INSTALL BARRIERS AS NECESSARY TO FORCE TRAFFIC TO USE THE CONSTRUCTION ENTRANCE. WHEN NECESSARY VEHICLES SHALL BE CLEANED PRIOR TO LEAVING THE SITE.
- LIMITATIONS: SELECTION OF CONSTRUCTION ENTRANCE LOCATION IS CRITICAL. IT MUST BE PLACED IN A LOCATION WHICH WILL ENCOURAGE USE AND AVOID RUNOFF LEAVING THE SITE.
- MAINTENANCE: CONSTRUCTION ENTRANCES SHOULD BE INSPECTED REGULARLY. MINIMUM INSPECTION REQUIREMENTS ARE LISTED IN THE TPDES TXR 150000 CONSTRUCTION GENERAL PERMIT. WHEN SEDIMENT HAS SUBSTANTIALLY CLOGGED THE VOID AREA BETWEEN THE ROCKS, THE AGGREGATE MAT MUST BE CLEANED OR REPLACED. PERIODIC REGRADING AND TOP DRESSING WITH ADDITIONAL STONE MUST BE DONE TO MAINTAIN EFFECTIVENESS.

William Wallace
 2-5-19

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design	drawn	checked	scale	date
NDM	NDM	NDM	NDM	2/5/19

Sheet No.	22
NDM job number	18-005