

# **PART V**

## **DRAWINGS**

### **Plum Creek Watershed - REPAIRS**

**Floodwater Retarding Structure Sites 2, 5, 7, 10, 11, 14**

**Hays and Caldwell Counties, Texas**

**SITE 2     Drawing No. TX-EN-0700, 2 sheets, sealed 2/17/17**

**SITE 5     Drawing No. TX-EN-0703, 1 sheet, sealed 3/6/17**

**SITE 7     Drawing No. TX-EN-0701, 2 sheets, sealed 2/1/17**

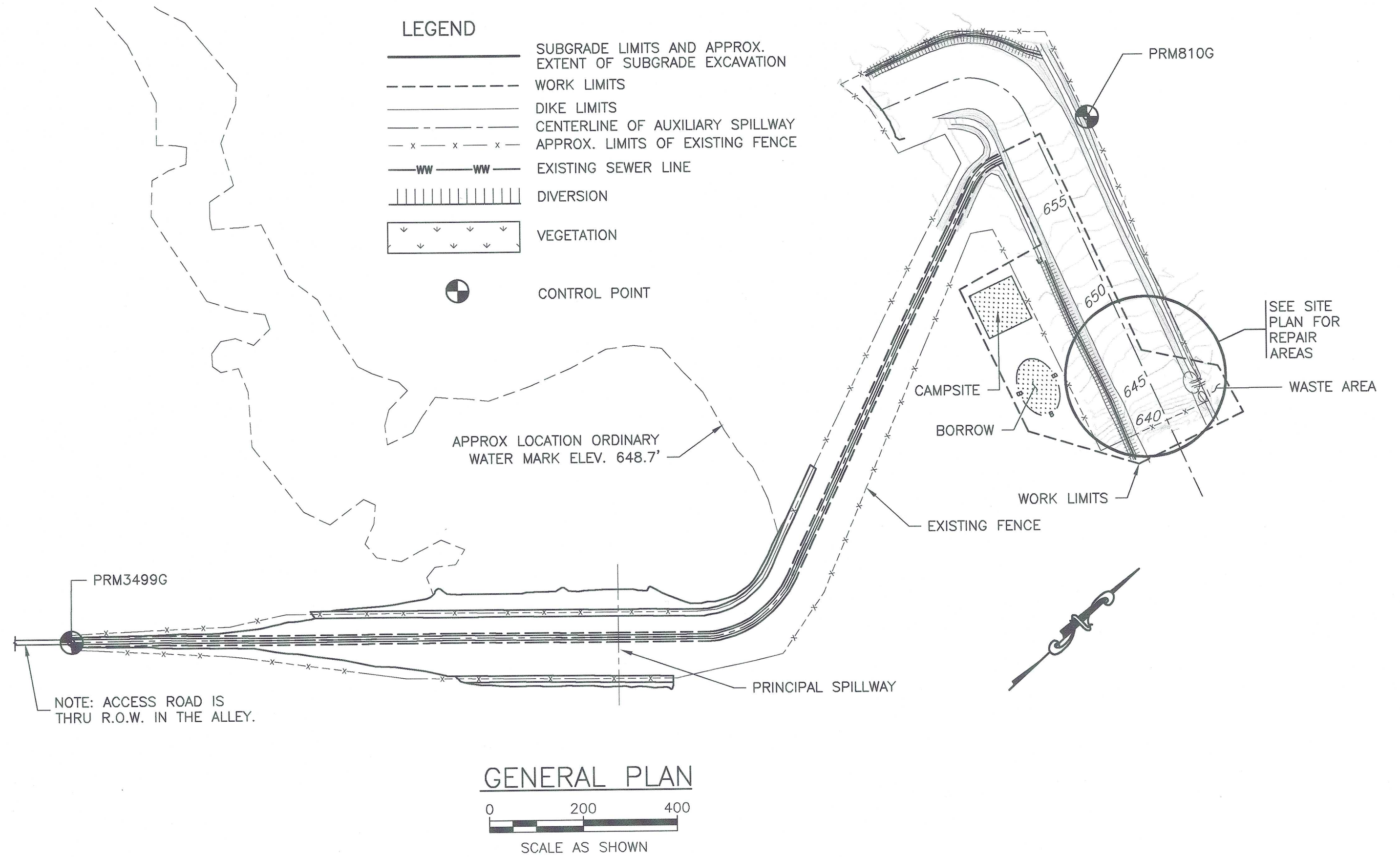
**SITE 10    Drawing No. TX-EN-0705, 2 sheets, sealed 3/10/17**

**SITE 11    Drawing No. TX-EN-0704, 2 sheets, sealed 2/17/17**

**SITE 14    Drawing No. TX-EN-0702, 1 sheet, sealed 3/6/17**

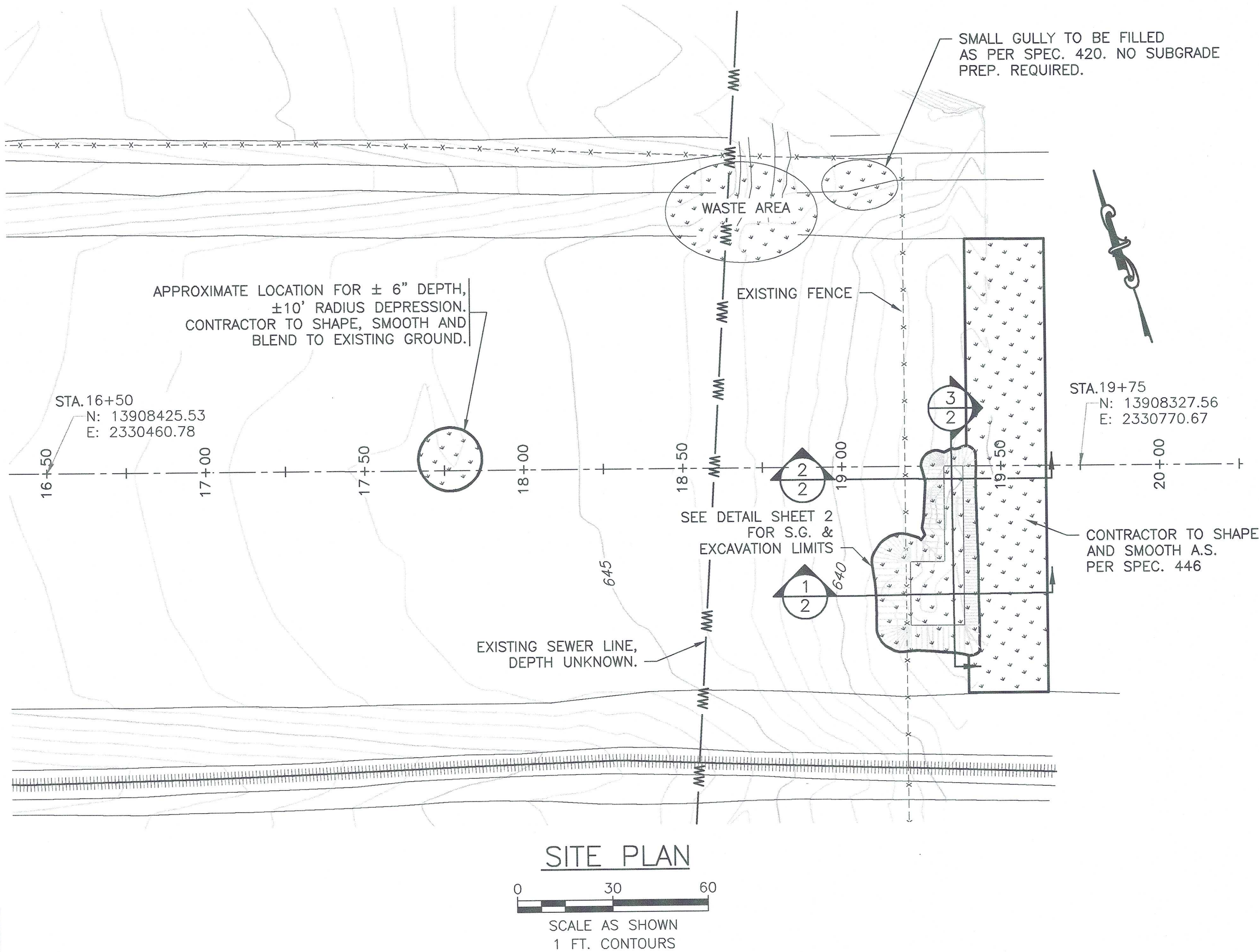


V:\EWP\2015 Fall Floods EWP\Plum Creek 2\drawings\PLUM CREEK SITE 2 (recovery).dwg



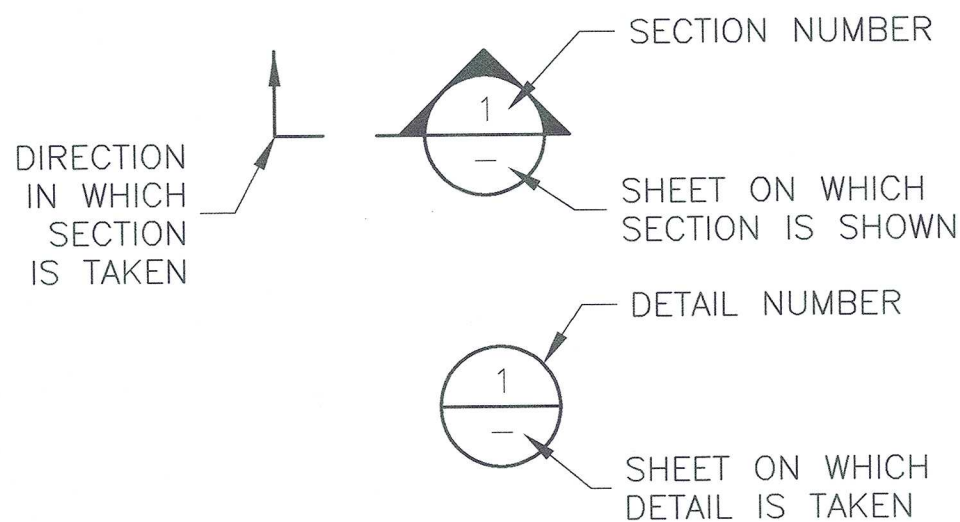
ALIGNMENT CURVE DATA							
CURVE #	DELTA (Δ)	D	R	L	P.C.	P.I.	P.T.
C1	88° 00' 00"	043' 50" 03"	130.7	200.76	STA. 9+99.2 N: 13908480.28 E: 2329869.14	STA. 11+25.5 N: 13908599.24 E: 2329911.36	STA. 12+00 N: 13908561.19 E: 2330031.72

CONTROL POINTS			
ELEVATION	NORTHING	EASTING	DESCRIPTION
662.60	13906394.58	2329518.22	PRM3499G
657.60	13908654.02	2330124.95	PRM810G



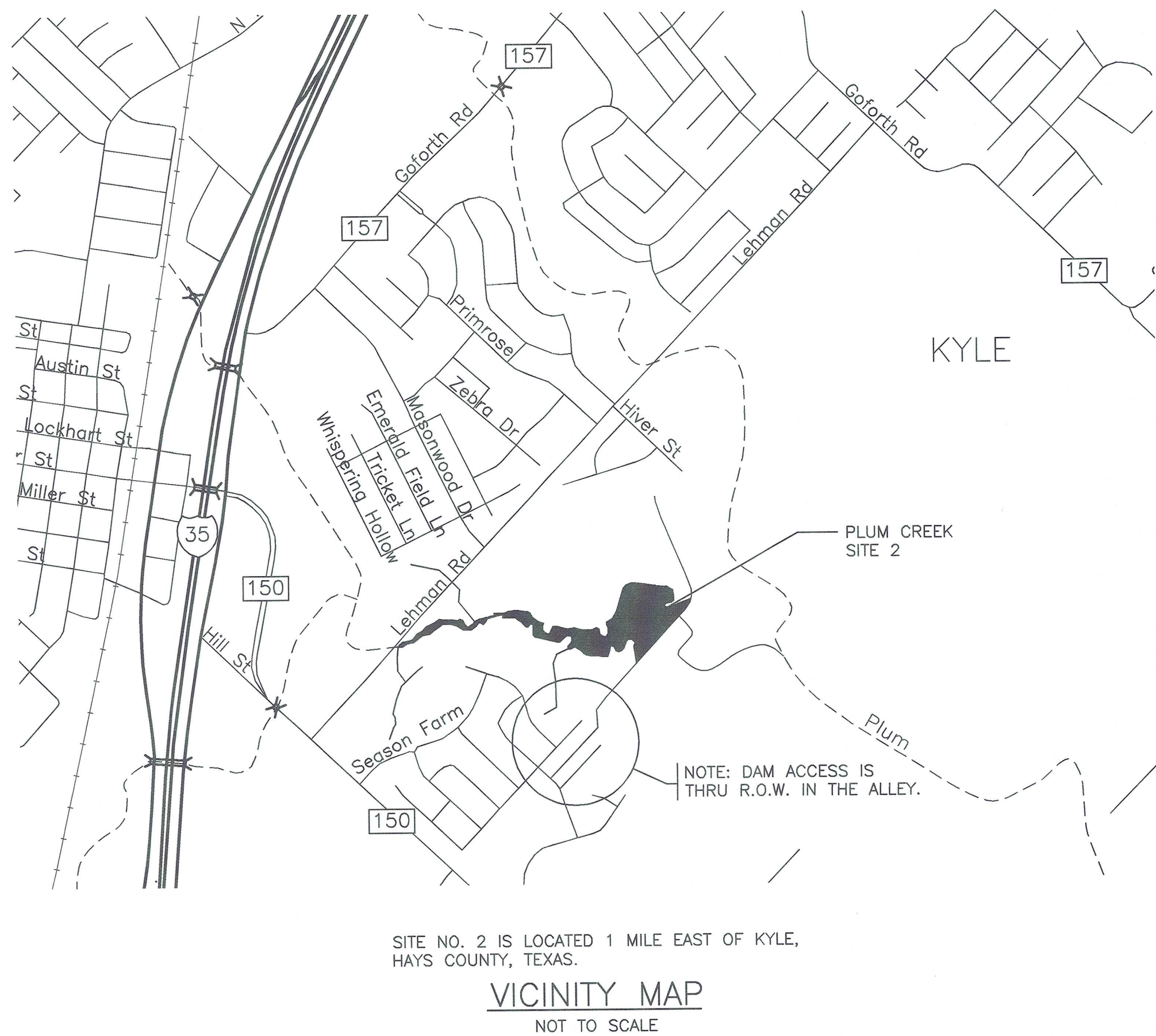
**NOTES:**

- THE CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO IMPROVEMENTS AND UTILITIES ALONG THE ACCESS ROUTE AND AT OR NEAR THE WORKSITE.
- THE CONTRACTOR SHALL NOTIFY THE OWNERS OF ALL UTILITIES A MINIMUM OF THREE (3) DAYS IN ADVANCE OF INTENT TO PERFORM WORK IN THE VICINITY OF THE AFFECTED UTILITY. THE NOTICE SHALL BE IN WRITING AND A COPY SHALL BE FURNISHED TO THE CONTRACTING OFFICER. UTILITIES MAY EXIST AND NOT BE SHOWN ON THE CONSTRUCTION DRAWINGS. THE SITE SHALL BE CAREFULLY SCRUTINIZED FOR EVIDENCE OF UTILITIES. AT A MINIMUM, PRIOR TO ANY GROUND DISTURBANCE, THE TELEPHONE NUMBER 811 SHALL BE CALLED TO ASCERTAIN IF UNDERGROUND UTILITIES EXIST IN THE GENERAL WORK AREA. CALLING THIS TELEPHONE NUMBER WILL ONLY ASCERTAIN THE EXISTENCE OF UNDERGROUND UTILITIES OWNED BY COMPANIES THAT SUBSCRIBE TO THIS ORGANIZATION. THERE MAY BE OTHER UNDERGROUND UTILITIES IN THE WORK AREA.
- THE APPROXIMATE LOCATIONS OF THE ACCESS ROAD, CONSTRUCTION CAMPSITE, STOCKPILE, BORROW AND WASTE AREAS ARE SHOWN. THE FINAL LOCATIONS OF THESE AREAS SHALL BE DESIGNATED AT THE TIME OF SHOWING OF THE WORKSITE TO PROSPECTIVE BIDDERS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING ALL BARRICADES, WARNING SIGNS, TRAFFIC CONTROL DEVICES, ETC. NECESSARY TO CONTROL TRAFFIC AND PROVIDE FOR PUBLIC SAFETY AT THE ENTRANCE TO THE SITE (SEE CONSTRUCTION SPECIFICATION 9).
- SUITABLE MATERIAL FROM EXCAVATIONS SHALL BE PROCESSED AND USED FOR THE EARTHFILL MATERIALS. UNSUITABLE MATERIALS SHALL BE PLACED IN A WASTE AREA OR OTHER AREAS APPROVED BY THE ENGINEER. EARTH MATERIALS NEEDED IN EXCESS OF REQUIRED EXCAVATIONS SHALL BE OBTAINED FROM THE BORROW AREA(S). (SEE CONSTRUCTION SPECIFICATIONS 21, 23, 420, AND 446).
- A MINIMUM OF 6" OF TOPSOIL SHALL BE PLACED ON ALL EARTHWORK REPAIR AREAS (SEE CONSTRUCTION SPECIFICATION 26).
- CONSTRUCTION ACTIVITIES SHALL NOT OCCUR OUTSIDE THE DESIGNATED WORK LIMITS, UNLESS OTHERWISE AUTHORIZED.
- REMOVAL OR STRIPPING OF SOIL MATERIALS INCLUDING TOPSOIL AND LOW DENSITY OR DISPLACED MATERIALS WILL BE NECESSARY TO PROVIDE A SUITABLE WORKING AREA FOR THE CONSTRUCTION EQUIPMENT. THE APPROXIMATE LIMITS OF THE REMOVAL ARE SHOWN ON THE DRAWINGS. REMOVAL OF ADDITIONAL MATERIALS BEYOND THE LIMITS SHOWN MAY BE REQUIRED TO ENSURE A SUITABLE FOUNDATION EXISTS ON WHICH TO PLACE EARTHFILL AND/OR ROCK. (SEE CONSTRUCTION SPECIFICATION 420.)
- THE EXISTING NATURAL GROUND SHOWN FOR THE SITE IS BASED ON SURVEYED CONDITIONS AS THEY EXISTED IN FEBRUARY 2016. CHANGES IN SITE CONDITIONS PRIOR TO CONSTRUCTION MAY NECESSITATE ADJUSTMENTS TO THE GRADES AND ELEVATIONS SHOWN. THE FINAL GRADES AND ELEVATIONS FOR ALL WORKS OF IMPROVEMENTS SHOWN ARE APPROXIMATE AND SHALL BE ADJUSTED IN THE FIELD BY THE ENGINEER TO BEST FIT THE TOPOGRAPHY OF THE SITE, IF NECESSARY.
- THE CONTROL POINTS SHOWN ARE TO BE USED TO ESTABLISH HORIZONTAL AND VERTICAL CONTROL.



**PEDESTRIAN SAFETY NOTES:**

- CAMP SITE AND BORROW AREA SHALL NOT ENCRoACH UPON DIRT HIKING TRAILS.
- HIKING TRAILS ARE TO BE LOCATED AT THE TIME OF THE SITE SHOWING AND SHALL BE MAINTAINED TO PRE-CONSTRUCTION CONDITIONS AT ALL TIMES.
- PEDESTRIAN TRAFFIC IS TO BE EXPECTED IN THE AREA AND PRECAUTIONS SHOULD BE TAKEN TO ENSURE PEDESTRIAN SAFETY.



GENERAL PLAN, SITE PLAN & VICINITY MAP  
FLOODWATER RETARDING STRUCTURE SITE NO. 2  
PLUM CREEK WATERSHED  
OF THE  
PLUM CREEK, UPPER BASIN, TEXAS



REVISIONS	DATE
N.A.	N.A.
N.A.	N.A.
N.A.	N.A.

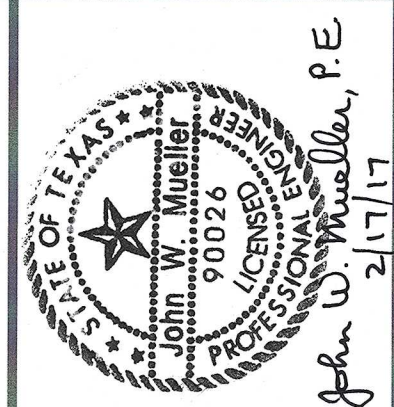
DRAWING NO.  
TX-EN-0700

SHEET  
1



DESIGNED BY: J. HREBK  
DRAWN BY: S.M.D.  
CHECKED BY: G.E.G.  
FILE NAME: PLUM CREEK SITE 2 (recovery).dwg  
DATE CHECKED: 01/2017





DESIGNED BY: J HREBIK  
DRAWN BY: SMD  
CHECKED BY: GEG  
FILE NAME: PLUM CREEK SITE 2.dwg  
DATE CHECKED: 01/2017

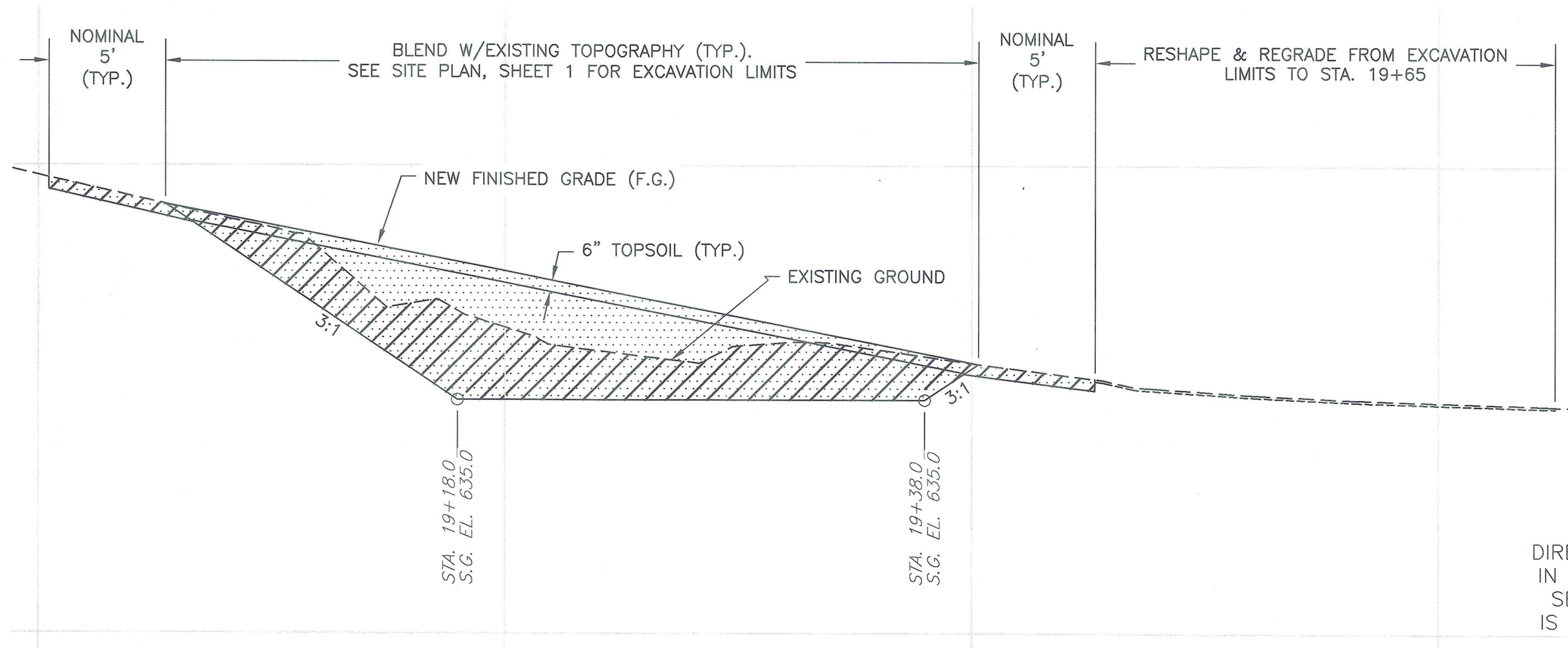
PLAN, PROFILE & SECTION  
FLOODWATER RETARDING STRUCTURE SITE NO. 2  
PLUM CREEK WATERSHED  
OF THE  
PLUM CREEK, UPPER BASIN, TEXAS



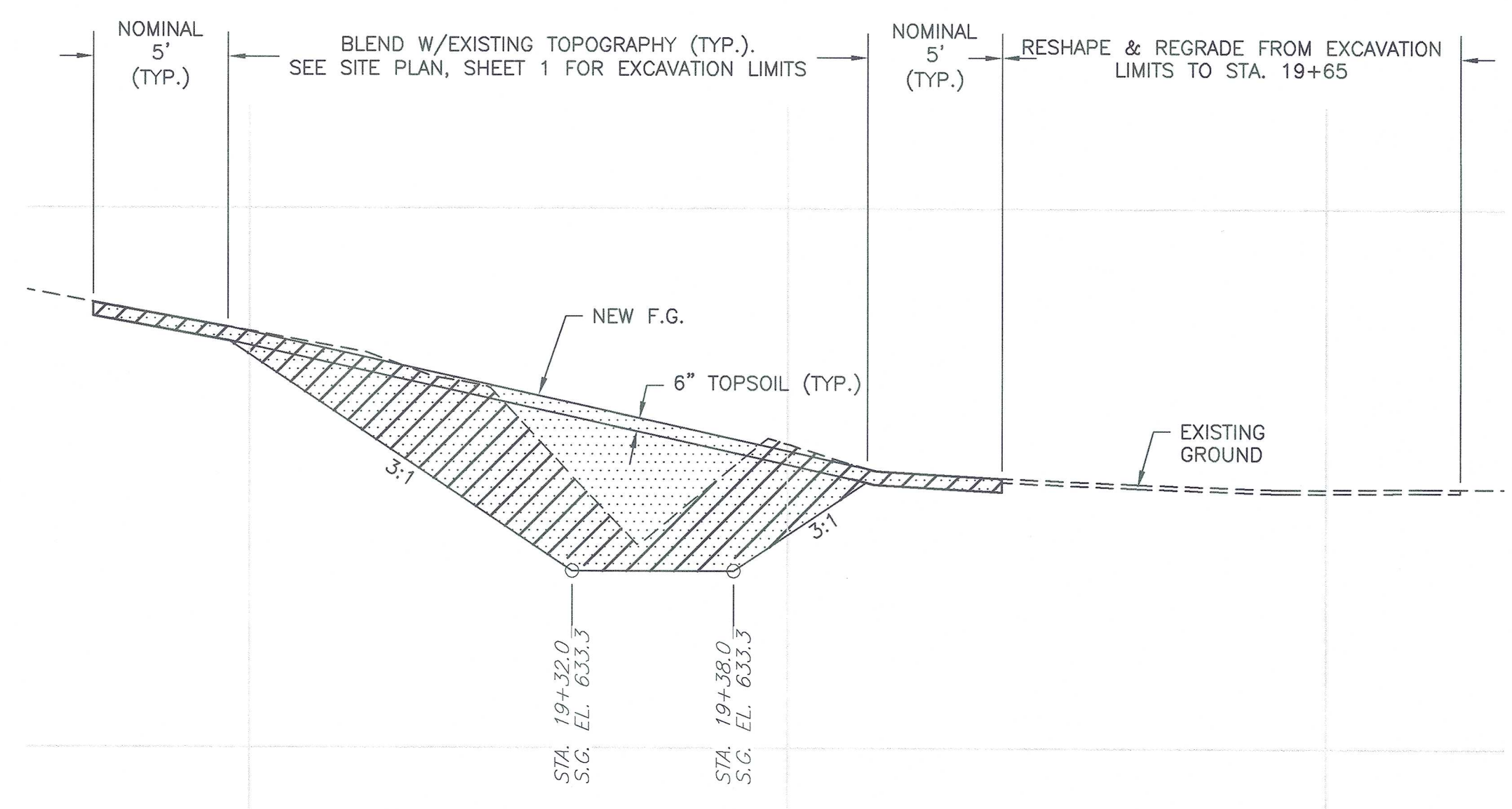
REVISIONS	DATE
NA	NA
NA	NA
NA	NA

DRAWING NO.  
TX-EN-0700

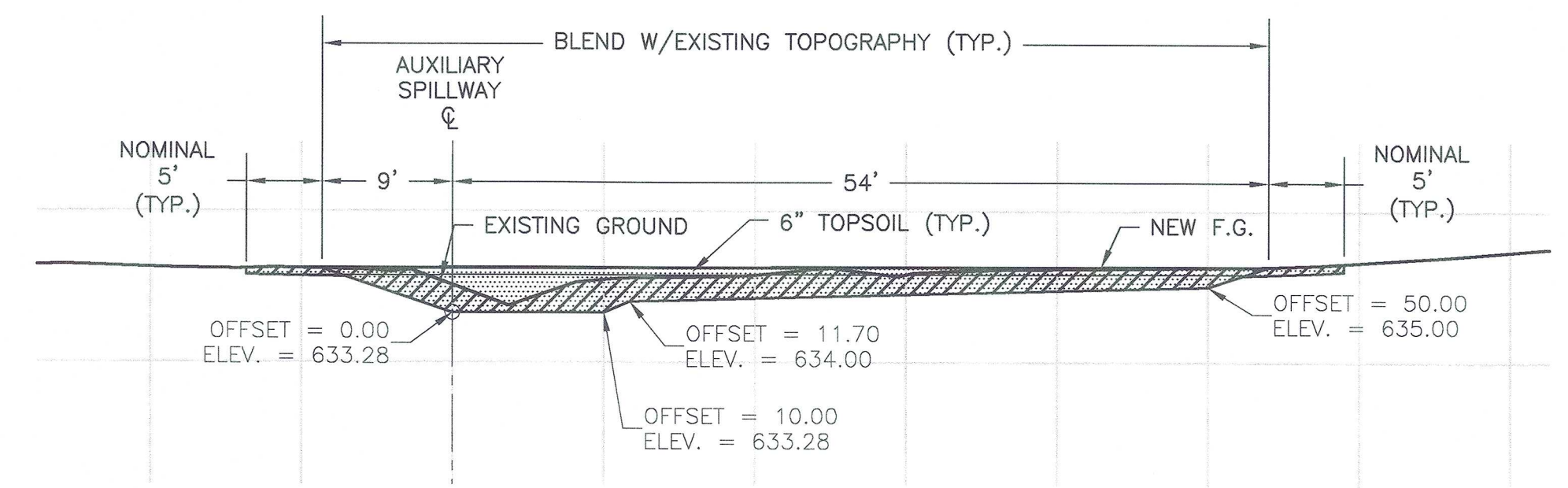
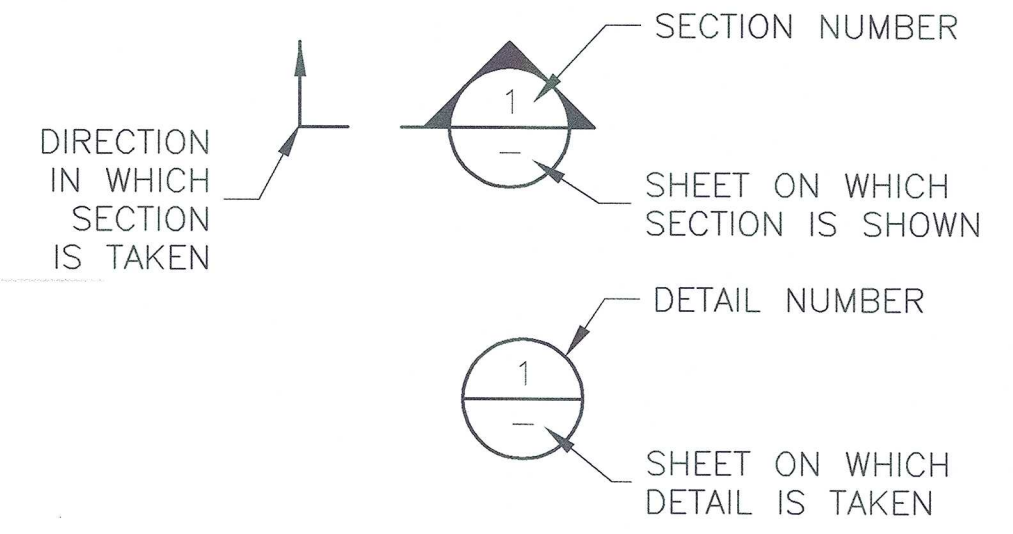
SHEET  
**2**



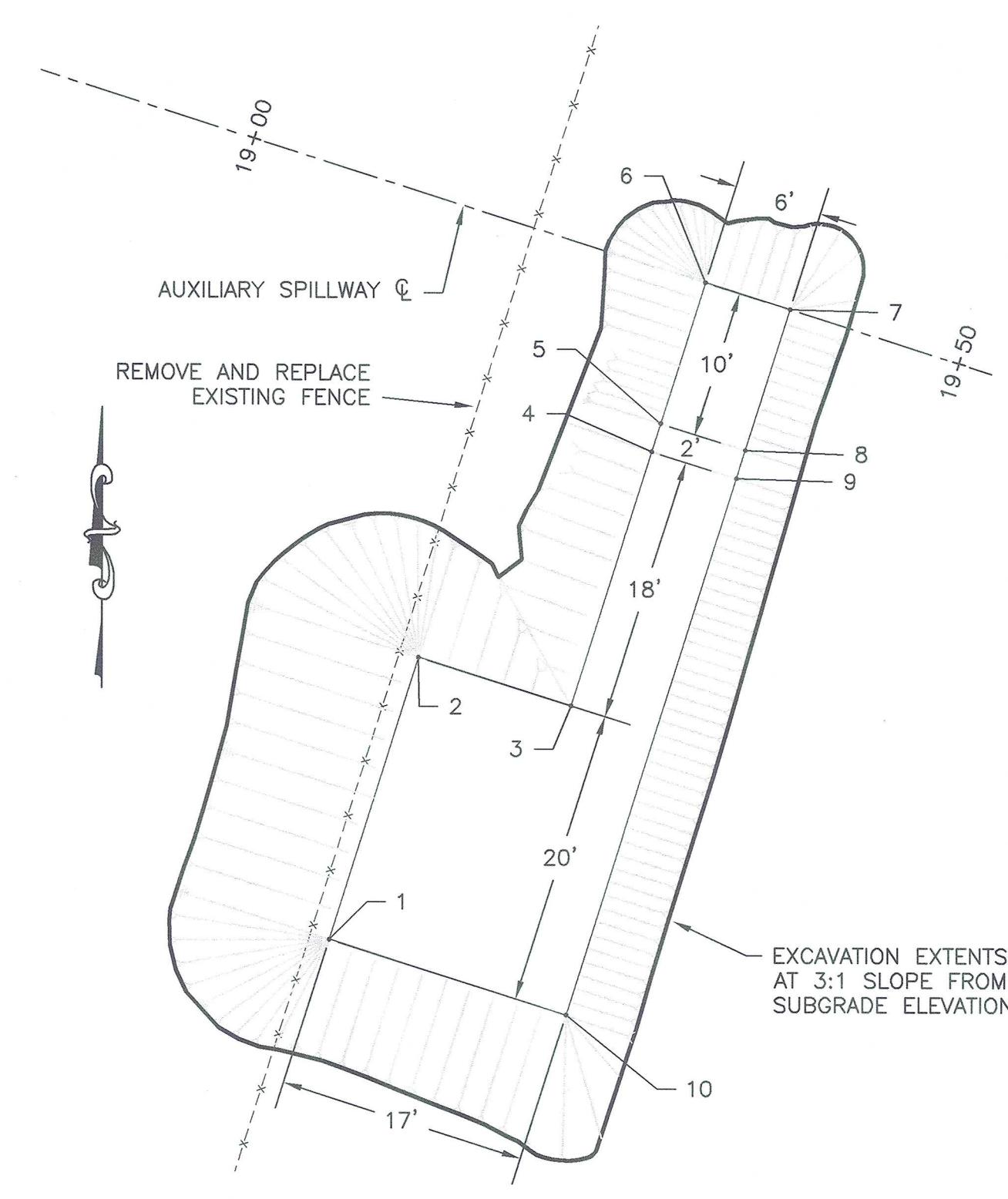
**1** MINOR GULLY REPAIR PROFILE  
SCALE AS SHOWN



**2** MINOR GULLY REPAIR PROFILE  
SCALE AS SHOWN



**3** MINOR GULLY REPAIR SECTION  
SCALE AS SHOWN

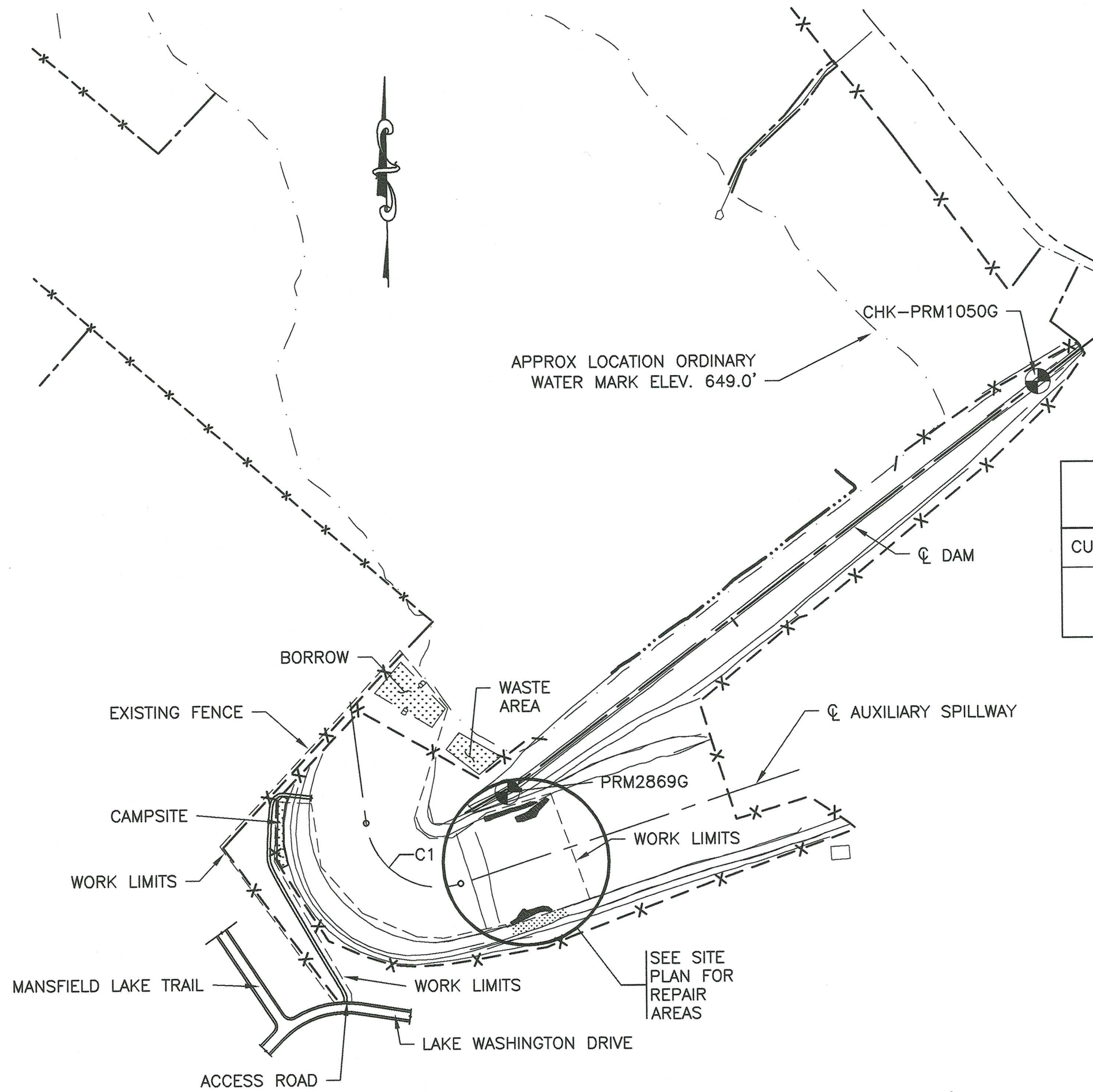


**1** PLAN OF SUBGRADE ELEV. & EXCAVATION EXTENTS  
SCALE AS SHOWN

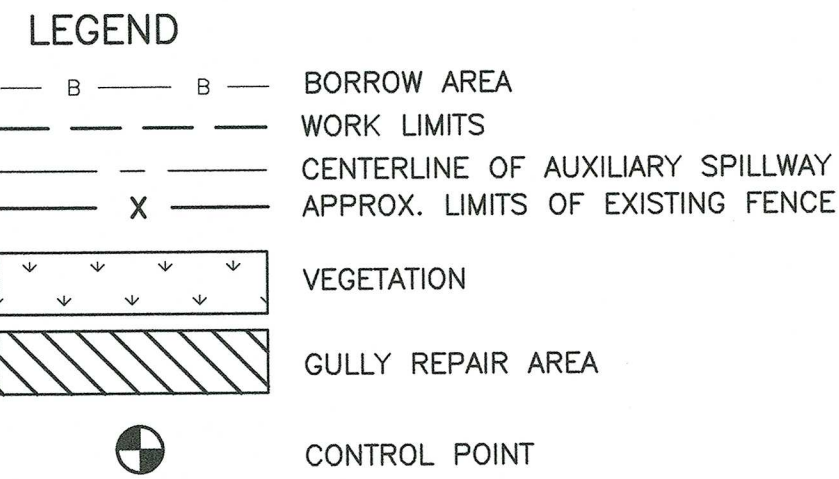
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
1	635.00	13908296.11	2330704.30	S.G.
2	635.00	13908315.18	2330710.33	S.G.
3	634.50	13908311.92	2330720.64	S.G.
4	634.00	13908329.08	2330726.06	S.G.
5	633.28	13908330.98	2330726.67	S.G.
6	633.28	13908340.52	2330729.68	S.G.
7	633.28	13908338.71	2330735.40	S.G.
8	633.28	13908329.18	2330732.39	S.G.
9	634.00	13908327.27	2330731.78	S.G.
10	635.00	13908291.04	2330720.33	S.G.

REPAIR TO EXCAVATION EXTENTS. TO BE  
REPAIRED IN ACCORDANCE WITH  
CONSTRUCTION SPECIFICATION 420.



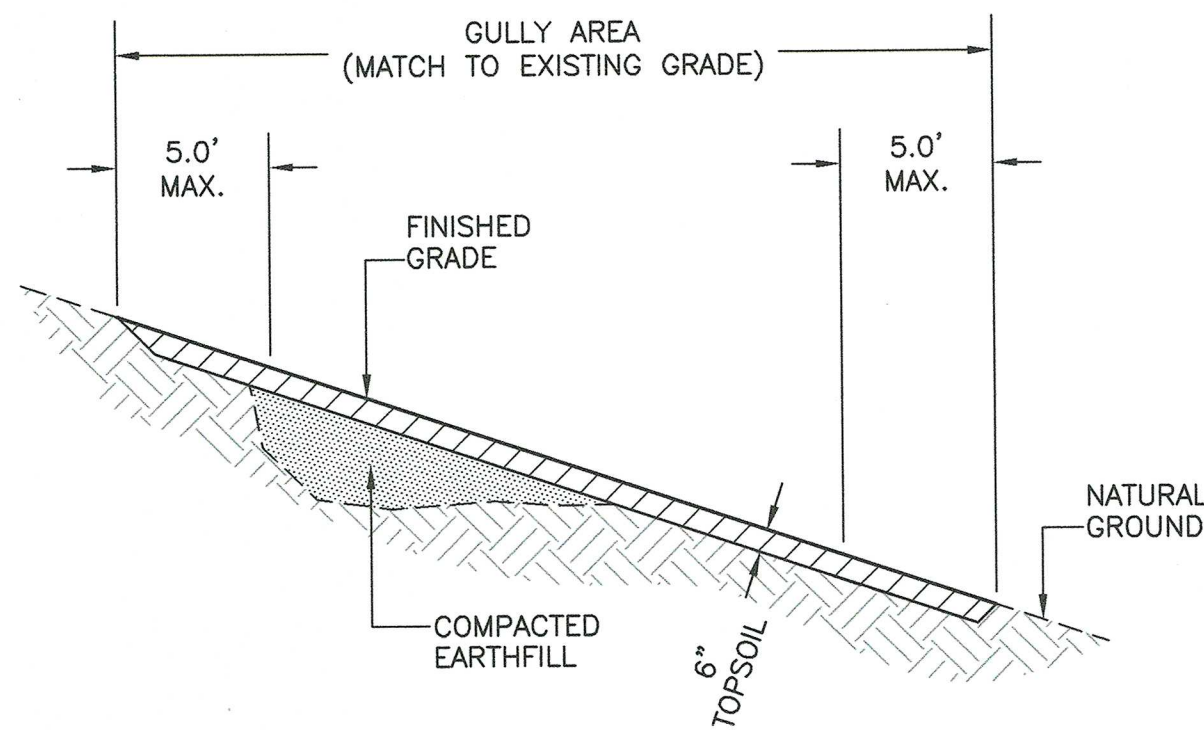


GENERAL PLAN  
0 300 600  
SCALE AS SHOWN



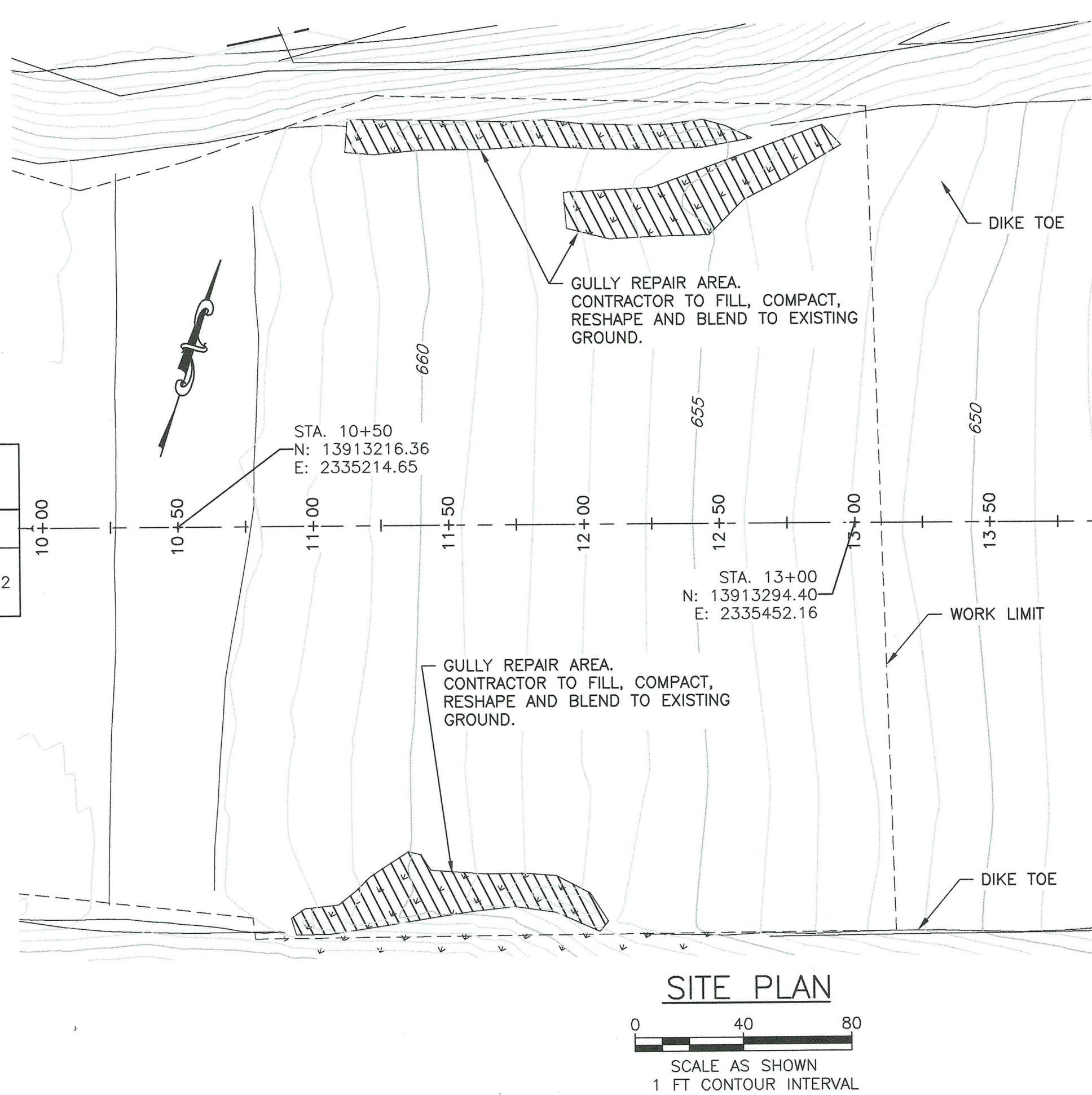
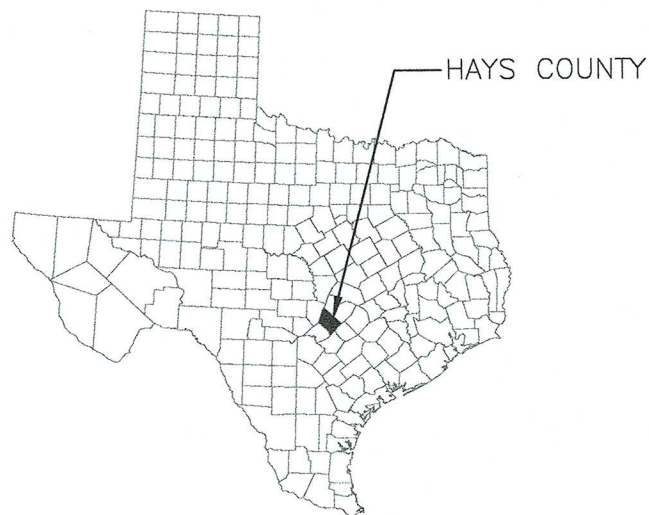
ALIGNMENT CURVE DATA								
CURVE #	DELTA (Δ)	D	R	L	P.C.	P.I.	P.T.	T
C1	100° 31' 05"	028° 57' 07"	197.9	347.19	STA. 6+49.8 N: 13913365.02 E: 2334908.66	STA. 8+87.8 N: 13913128.70 E: 2334937.11	STA. 9+97 N: 13913199.80 E: 2335164.26	238.02

COORDINATES			
POINT #	NORTHING	EASTING	ELEVATION
CHK-PRM1050G	13914548.18	2336739.67	671.06
PRM2869G	13913446.32	2335292.15	671.10

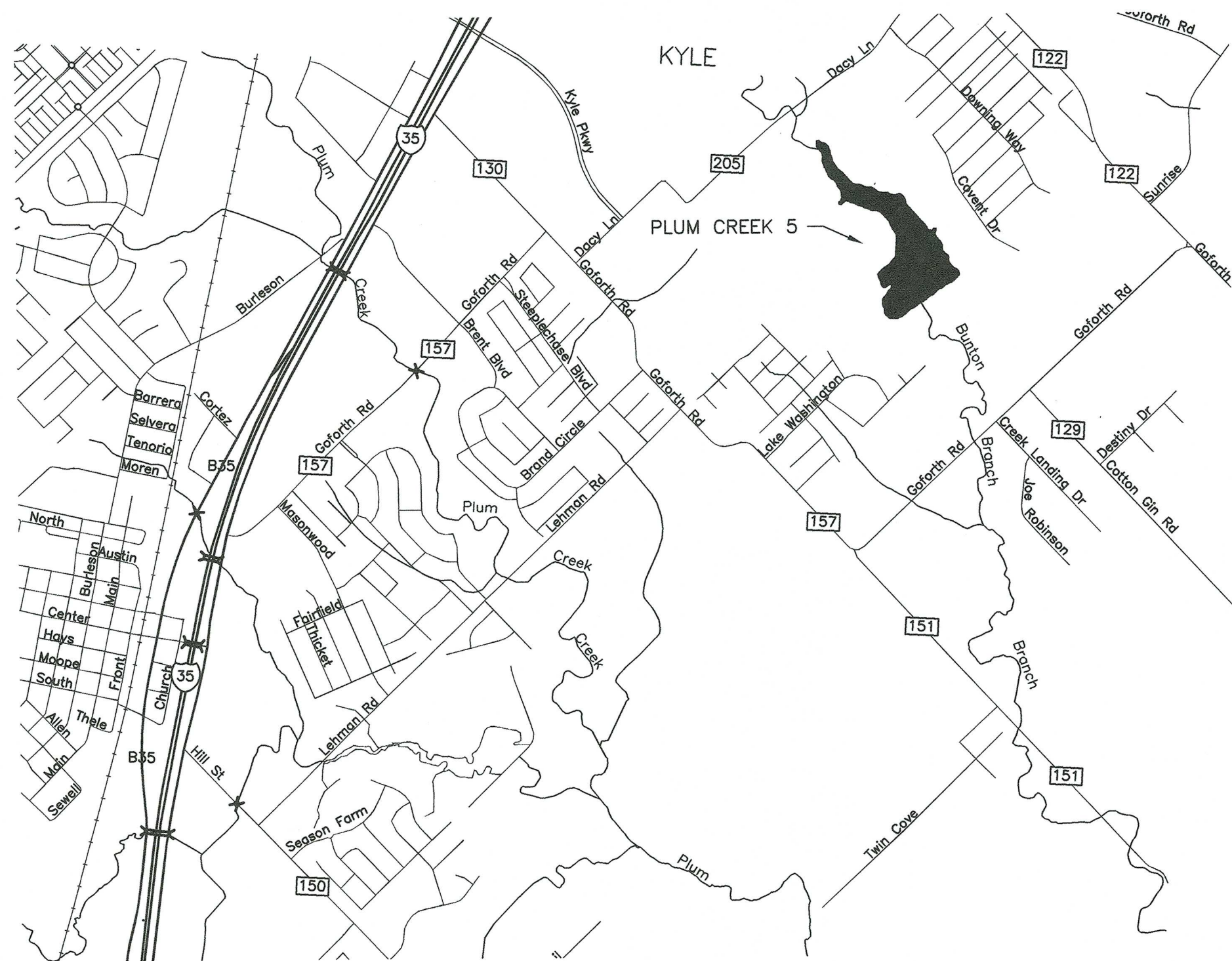


- CONSTRUCTION NOTES:
1. THE APPROXIMATE LOCATIONS AND AREAS OF THE GULLY AREAS TO BE REPAIRED BY SHAPING AND SMOOTHING ARE SHOWN IN THE DRAWINGS. THE FINAL EXTENTS SHALL BE STAKED BY THE ENGINEER.
  2. CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED TO MINIMIZE IMPACTS TO THE SURROUNDING VEGETATION. CARE SHALL BE TAKEN TO ENSURE THAT THE MINIMUM CONSTRUCTION FOOTPRINT REQUIRED TO ACCOMPLISH THE JOB IS USED AND DAMAGE TO THE SURROUNDING VEGETATION IS KEPT TO A MINIMUM.
  3. THE GULLY AREAS SHALL BE REPAIRED IN ACCORDANCE WITH CONSTRUCTION SPECIFICATION 420, BRINGING THE FINISHED SURFACE UP TO MATCH THE EXISTING GRADE.

TYP. GULLY REPAIR DETAIL  
NOT TO SCALE



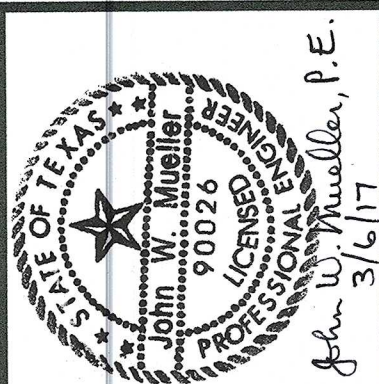
SITE PLAN  
0 40 80  
SCALE AS SHOWN  
1 FT CONTOUR INTERVAL



SITE NO. 5 IS LOCATED APPROX. 2.3 MILES  
NORTHEAST OF KYLE, HAYS COUNTY, TEXAS.  
VICINITY MAP  
NOT TO SCALE

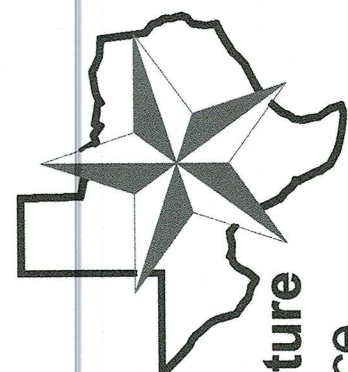
NOTES:

1. THE CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO IMPROVEMENTS AND UTILITIES ALONG THE ACCESS ROUTE AND AT OR NEAR THE WORKSITE.
2. THE CONTRACTOR SHALL NOTIFY THE OWNERS OF ALL UTILITIES A MINIMUM OF THREE (3) DAYS IN ADVANCE OF INTENT TO PERFORM WORK IN THE VICINITY OF THE AFFECTED UTILITY. THE NOTICE SHALL BE IN WRITING AND A COPY SHALL BE FURNISHED TO THE CONTRACTING OFFICER. UTILITIES MAY EXIST AND NOT BE SHOWN ON THE CONSTRUCTION DRAWINGS. THE SITE SHALL BE CAREFULLY SCRUTINIZED FOR EVIDENCE OF UTILITIES. AT A MINIMUM, PRIOR TO ANY GROUND DISTURBANCE, THE TELEPHONE NUMBER 811 SHALL BE CALLED TO ASCERTAIN IF UNDERGROUND UTILITIES EXIST IN THE GENERAL WORK AREA. CALLING THIS TELEPHONE NUMBER WILL ONLY ASCERTAIN THE EXISTENCE OF UNDERGROUND UTILITIES OWNED BY COMPANIES THAT SUBSCRIBE TO THIS ORGANIZATION. THERE MAY BE OTHER UNDERGROUND UTILITIES IN THE WORK AREA.
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5. SUITABLE MATERIAL FROM EXCAVATIONS SHALL BE PROCESSED AND USED FOR THE EARTHFILL MATERIALS. UNSUITABLE MATERIALS SHALL BE PLACED IN A WASTE AREA OR OTHER AREAS APPROVED BY THE ENGINEER. EARTH MATERIALS NEEDED IN EXCESS OF REQUIRED EXCAVATIONS SHALL BE OBTAINED FROM THE BORROW AREA(S). (SEE CONSTRUCTION SPECIFICATIONS 21, 23, AND 420).
6. A MINIMUM OF 6" OF TOPSOIL SHALL BE PLACED ON ALL EARTHWORK REPAIR AREAS (SEE CONSTRUCTION SPECIFICATION 26).
7. CONSTRUCTION ACTIVITIES SHALL NOT OCCUR OUTSIDE THE DESIGNATED WORK LIMITS, UNLESS OTHERWISE AUTHORIZED.
8. REMOVAL OR STRIPPING OF SOIL MATERIALS INCLUDING TOPSOIL AND LOW DENSITY OR DISPLACED MATERIALS WILL BE NECESSARY TO PROVIDE A SUITABLE WORKING AREA FOR THE CONSTRUCTION EQUIPMENT. THE APPROXIMATE LIMITS OF THE REMOVAL ARE SHOWN ON THE DRAWINGS. REMOVAL OF ADDITIONAL MATERIALS BEYOND THE LIMITS SHOWN MAY BE REQUIRED TO ENSURE A SUITABLE FOUNDATION EXISTS ON WHICH TO PLACE EARTHFILL AND/OR ROCK. (SEE CONSTRUCTION SPECIFICATION 420.)
9. THE EXISTING NATURAL GROUND SHOWN FOR THE SITE IS BASED ON SURVEYED CONDITIONS AS THEY EXISTED IN FEBRUARY 2016. CHANGES IN SITE CONDITIONS PRIOR TO CONSTRUCTION MAY NECESSITATE ADJUSTMENTS TO THE GRADES AND ELEVATIONS SHOWN. THE FINAL GRADES AND ELEVATIONS FOR ALL WORKS OF IMPROVEMENTS SHOWN ARE APPROXIMATE AND SHALL BE ADJUSTED IN THE FIELD BY THE ENGINEER TO BEST FIT THE TOPOGRAPHY OF THE SITE, IF NECESSARY.
10. THE CONTROL POINTS SHOWN ARE TO BE USED TO ESTABLISH HORIZONTAL AND VERTICAL CONTROL.



DESIGNED BY: JWH  
DRAWN BY: SMD  
CHECKED BY: GEG  
FILE NAME: PLUM CR 5.dwg  
DATE CHECKED: 02/2017  
John W. Mueller, P.E.

GENERAL PLAN, SITE PLAN & VICINITY MAP  
FLOODWATER RETAINING STRUCTURE SITE NO. 5  
PLUM CREEK WATERSHED  
IN  
HAYS COUNTY, TEXAS



United States Department of Agriculture  
Natural Resources Conservation Service

REVISIONS	DATE
N/A	N/A
N/A	N/A
N/A	N/A

DRAWING NO.  
TX-EN- 0703

SHEET  
1



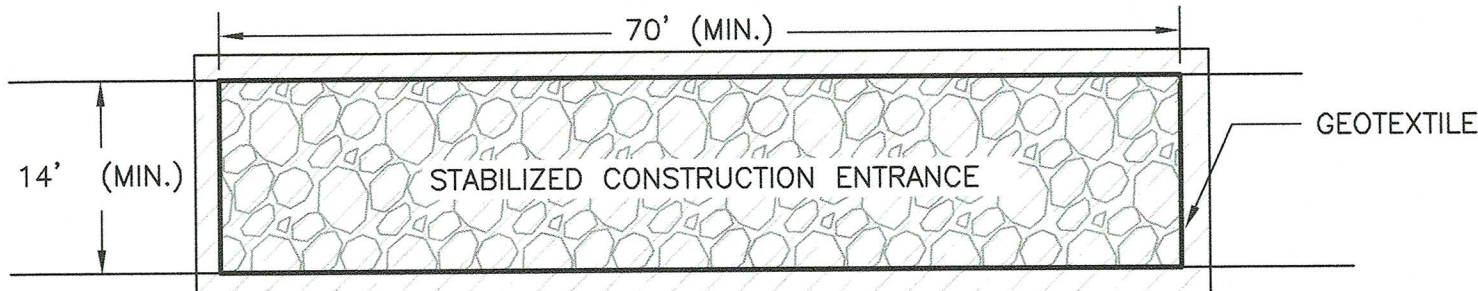
V:\EWP\2015 Fall Floods EWP\Plum Creek 7\Drawings 7\Plum Creek 7 DESIGN.dwg

CONTROL POINTS				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
1	606.89	13901352.98	2350604.20	PRM343G
2	606.53	13901199.63	2349425.13	PRM1531G

GENERAL PLAN

NOTES:

1. THE CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO IMPROVEMENTS AND UTILITIES ALONG THE ACCESS ROUTE AND AT OR NEAR THE WORKSITE.
2. THE CONTRACTOR SHALL NOTIFY THE OWNERS OF ALL UTILITIES A MINIMUM OF THREE (3) DAYS IN ADVANCE OF INTENT TO PERFORM WORK IN THE VICINITY OF THE AFFECTED UTILITY. THE NOTICE SHALL BE IN WRITING AND A COPY SHALL BE FURNISHED TO THE CONTRACTING OFFICER. UTILITIES MAY EXIST AND NOT BE SHOWN ON THE CONSTRUCTION DRAWINGS. THE SITE SHALL BE CAREFULLY SCRUTINIZED FOR EVIDENCE OF UTILITIES. AT A MINIMUM, PRIOR TO ANY GROUND DISTURBANCE, THE TELEPHONE NUMBER 811 SHALL BE CALLED TO ASCERTAIN IF UNDERGROUND UTILITIES EXIST IN THE GENERAL WORK AREA. CALLING THIS TELEPHONE NUMBER WILL ONLY ASCERTAIN THE EXISTENCE OF UNDERGROUND UTILITIES OWNED BY COMPANIES THAT SUBSCRIBE TO THIS ORGANIZATION. THERE MAY BE OTHER UNDERGROUND UTILITIES IN THE WORK AREA.
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10. THE CONTROL POINTS SHOWN ARE TO BE USED TO ESTABLISH HORIZONTAL AND VERTICAL CONTROL.



THE STABILIZED CONSTRUCTION ENTRANCE SHALL CONSIST OF A MINIMUM OF 8" THICKNESS OF CRUSHED ROCK PREDOMINANTLY 4" TO 6" IN SIZE. THE AGGREGATES SHALL BE CLEAN, HARD, DURABLE, AND FREE FROM ADHERENT COATINGS SUCH AS SALT, ALKALI, DIRT, CLAY, LOAM, SHALE, SOFT OR FLAKY MATERIALS, AND ORGANIC OR INJURIOUS MATTER. PROVIDE A GEOTEXTILE LAYER BENEATH THE CRUSHED ROCK.

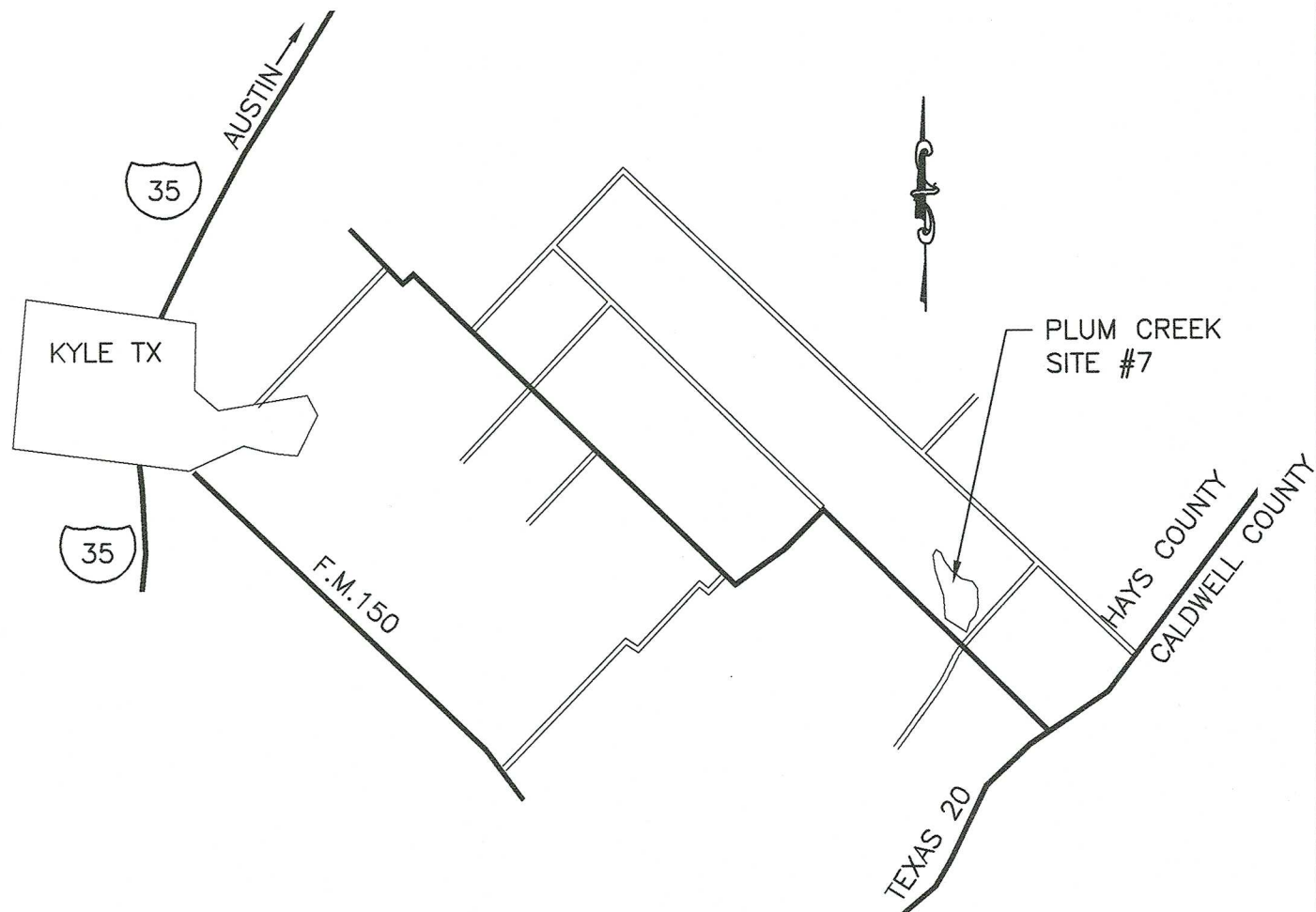
ACTUAL SIZES, DIMENSIONS, QUANTITIES, ALIGNMENT AND EXTENTS SHALL BE AS DETERMINED IN THE FIELD BY THE ENGINEER. (SEE CONSTRUCTION SPECIFICATIONS 5 & 8).

STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

VICINITY MAP

SCALE: N.T.S.

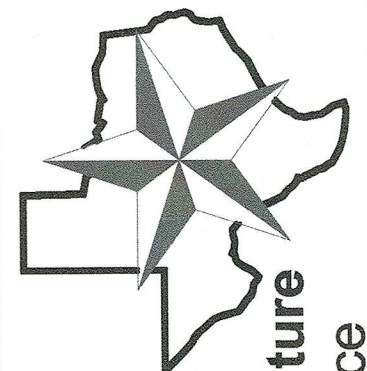


STRUCTURE IS LOCATED APPROX. 5 MILES EAST OF KYLE, HAYS COUNTY, TEXAS

REVISIONS	DATE
N/A	N/A
N/A	N/A
N/A	N/A

DRAWING NO.  
TX-EN-0701

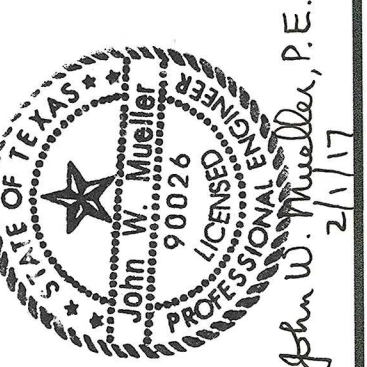
SHEET  
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United States Department of Agriculture  
Natural Resources Conservation Service

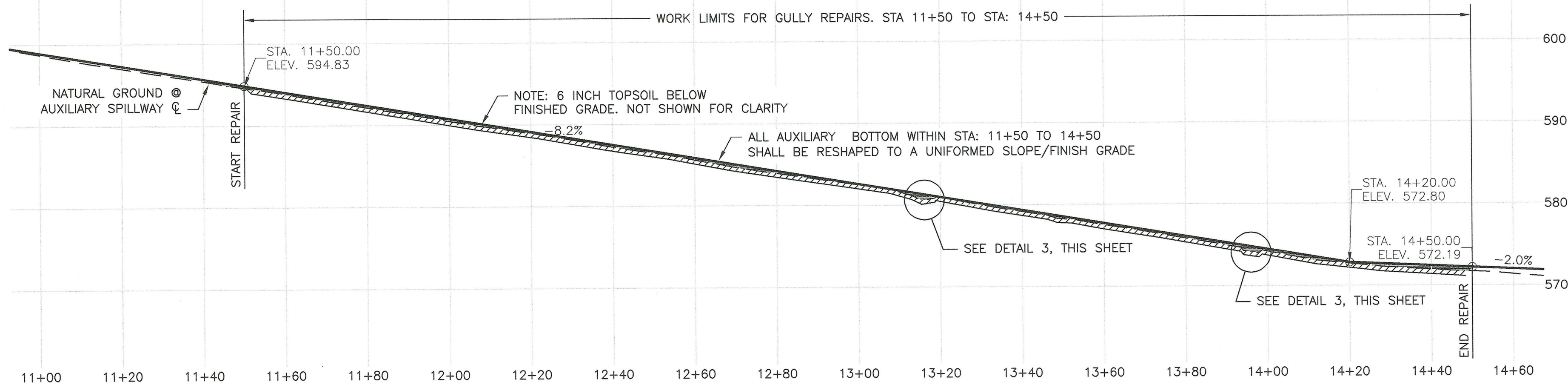
AUXILIARY SPILLWAY REPAIR  
FLOOD RETARDING STRUCTURE SITE 7  
PLUM CREEK WATERSHED  
IN  
HAYS COUNTY, TEXAS

DESIGNED BY: SMD  
DRAWN BY: SMD  
CHECKED BY: GEG  
FILE NAME: PLUM CREEK 7 DESIGN.dwg  
DATE CHECKED: 12/2016



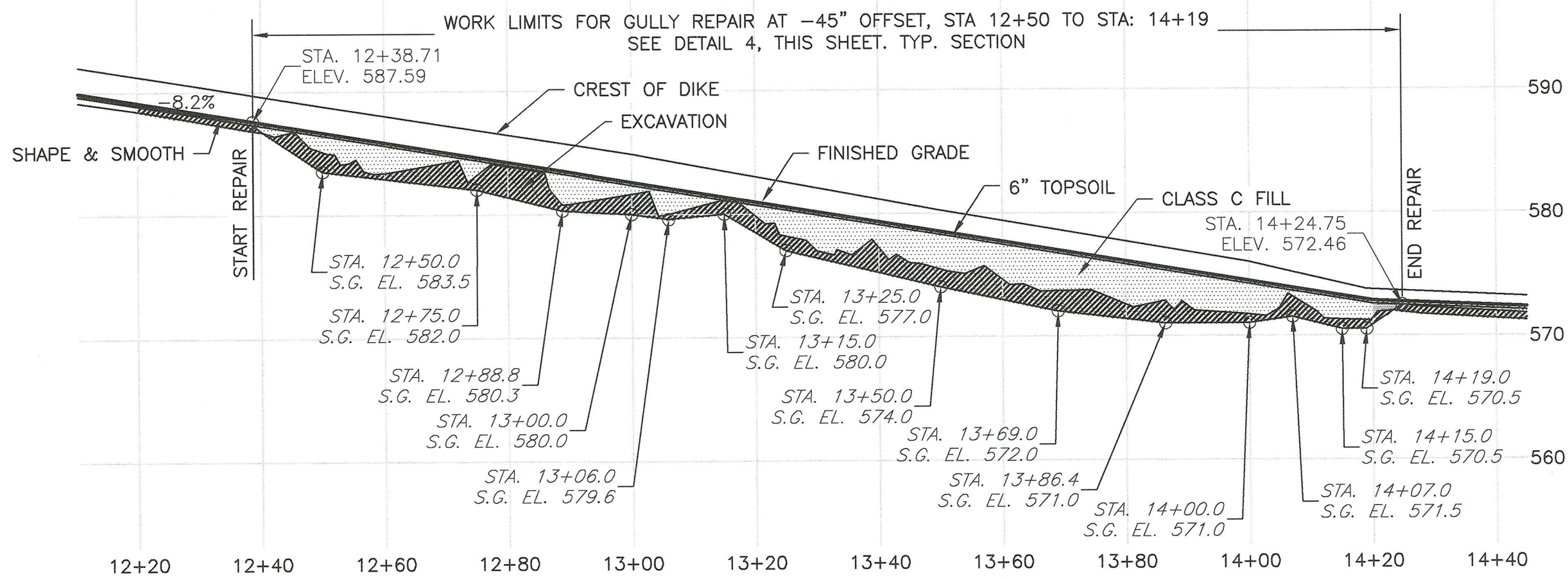


V:\EWP\2015 Fall Floods EWP\Plum Creek 7\Drawings 7\Plum Creek 7 DESIGN.dwg



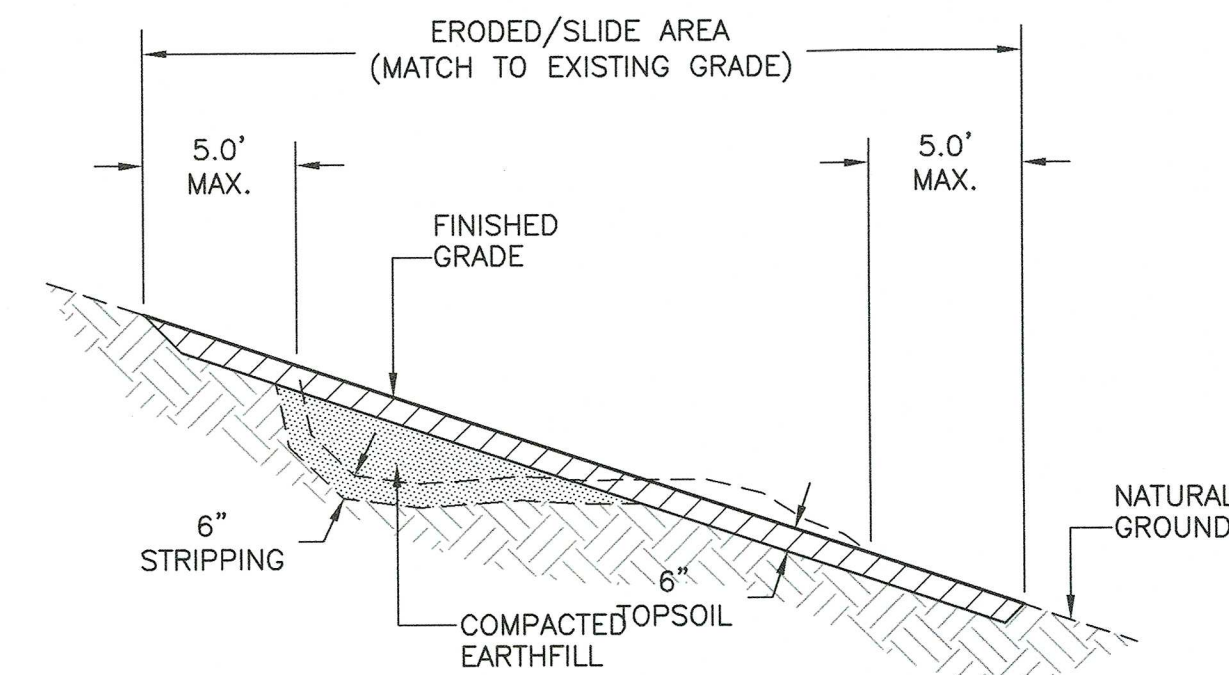
1  
1 PROFILE ON CENTERLINE OF AUXILIARY SPILLWAY

H 0 20 40  
V 0 10 20  
SCALE AS SHOWN



2  
1 PROFILE ON CENTERLINE @ 45' RIGHT OF AUXILIARY SPILLWAY CENTERLINE

H 0 20 40  
V 0 10 20  
SCALE AS SHOWN

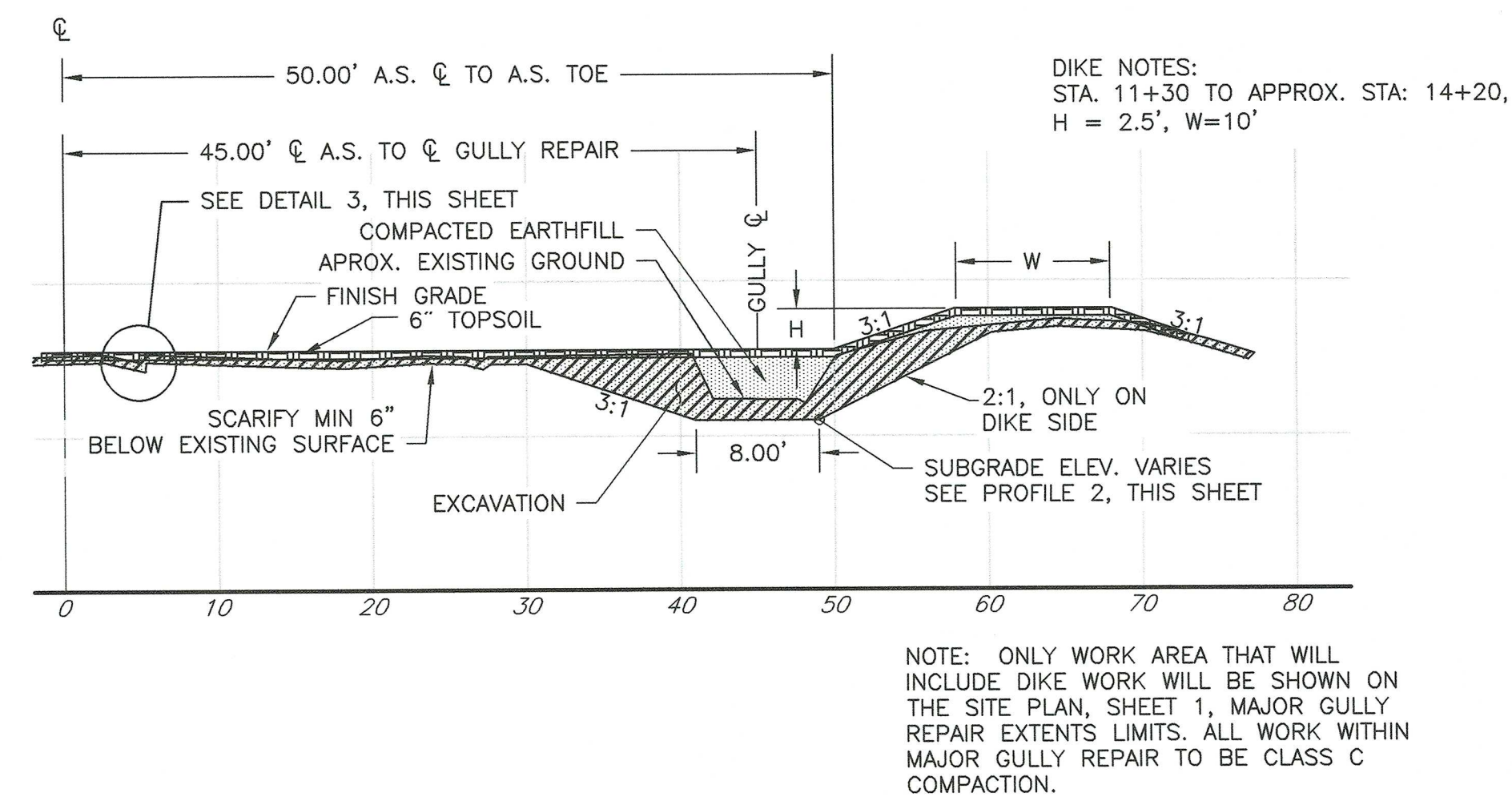


- CONSTRUCTION NOTES:
1. THE APPROXIMATE LOCATIONS AND AREAS OF THE SLIDE/ERODED AREAS TO BE REPAIRED BY SHAPING AND SMOOTHING ARE SHOWN IN THE DRAWINGS. THE FINAL EXTENTS SHALL BE STAKED BY THE ENGINEER.
  2. CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED TO MINIMIZE IMPACTS TO THE SURROUNDING VEGETATION. CARE SHALL BE TAKEN TO ENSURE THAT THE MINIMUM CONSTRUCTION FOOTPRINT REQUIRED TO ACCOMPLISH THE JOB IS USED AND DAMAGE TO THE SURROUNDING VEGETATION IS KEPT TO A MINIMUM.
  3. THE GULLY AREAS SHALL BE REPAIRED IN ACCORDANCE WITH CONSTRUCTION SPECIFICATION 420, BRINGING THE FINISHED SURFACE UP TO MATCH THE EXISTING GRADE.

3  
1 TYP. MINOR GULLY REPAIR DETAIL

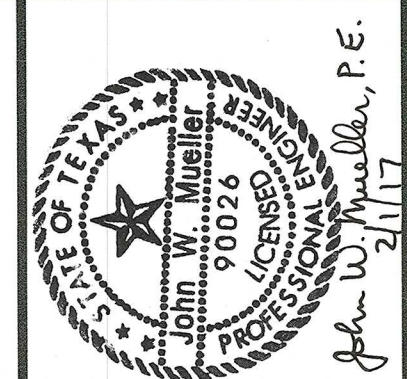
NOT TO SCALE

- NOTES:
1. ALL AREAS WITHIN THE WORK LIMITS SHALL BE SHAPED AND SMOOTHED ACCORDING TO SPEC. 446, UNLESS IDENTIFIED AS A MAJOR OR MINOR GULLY ON SHEET 1.



4  
1 TYP. MAJOR GULLY REPAIR. STA: 12+50 TO 14+19

H 0 20 40  
V 0 10 20  
SCALE AS SHOWN



DESIGNED BY: SMD  
DRAWN BY: SMD  
CHECKED BY: GEG  
FILE NAME: PLUM CREEK 7 DESIGN.dwg  
DATE CHECKED: 12/2016

PROFILE & DETAILS  
FLOOD RETARDING STRUCTURE SITE 7  
PLUM CREEK WATERSHED  
IN  
HAYS COUNTY, TEXAS



REVISIONS DATE

DRAWING NO.  
TX-EN-0701

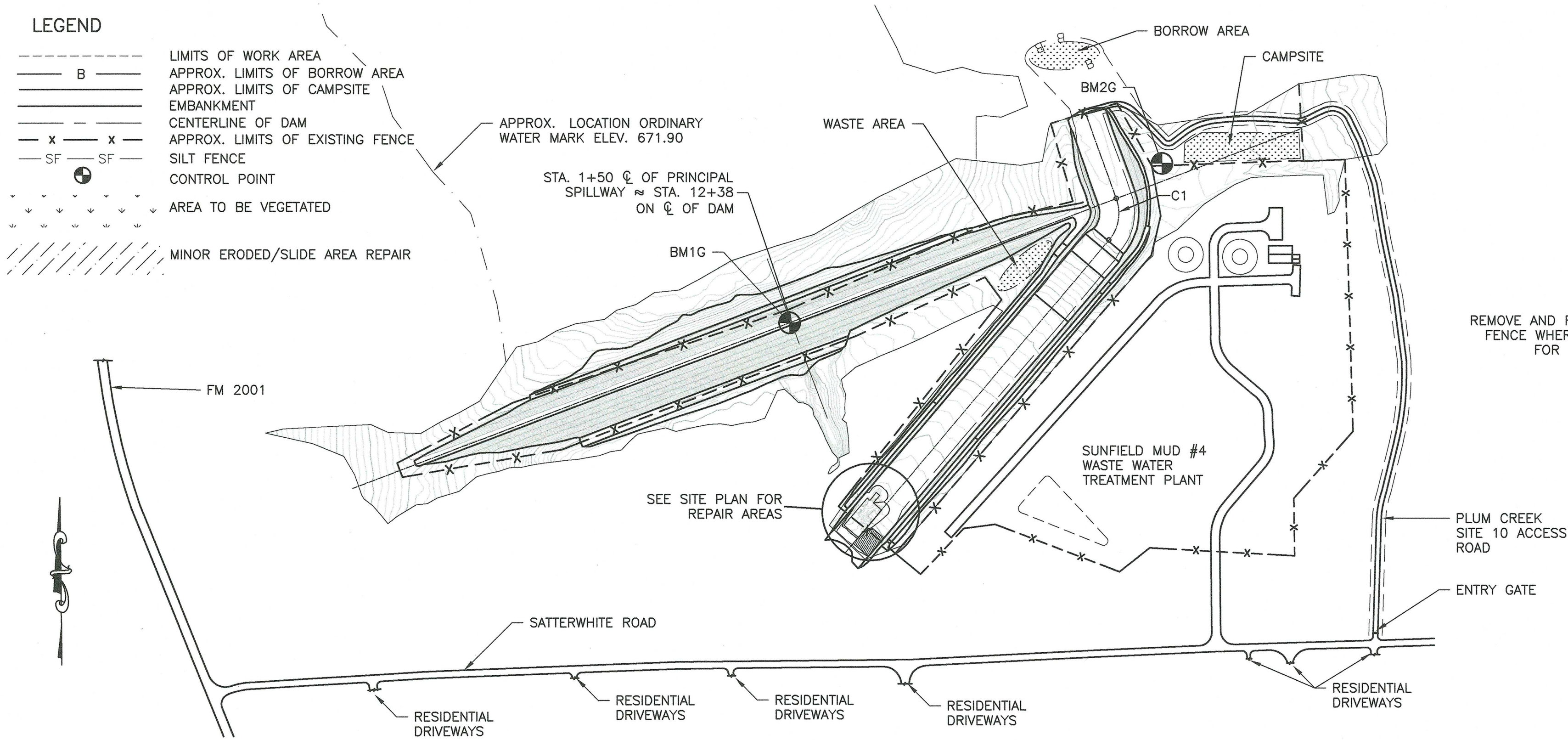
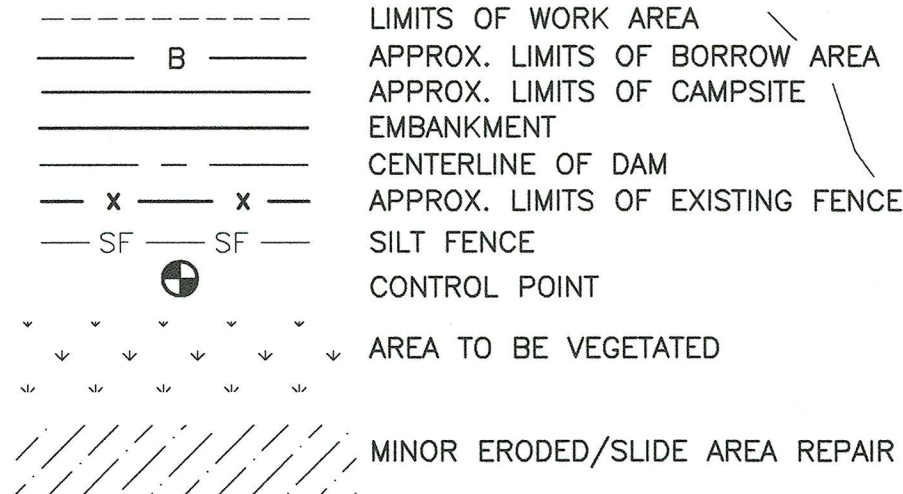
SHEET

2

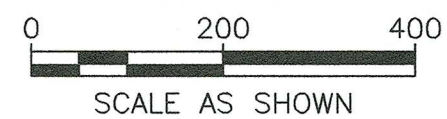


V:\EMP\2015 Fall Floods EWP\Plum Creek 10\Drawings\PLUM 10 EWP DESIGN.dwg

### LEGEND



### GENERAL PLAN



### COORDINATES

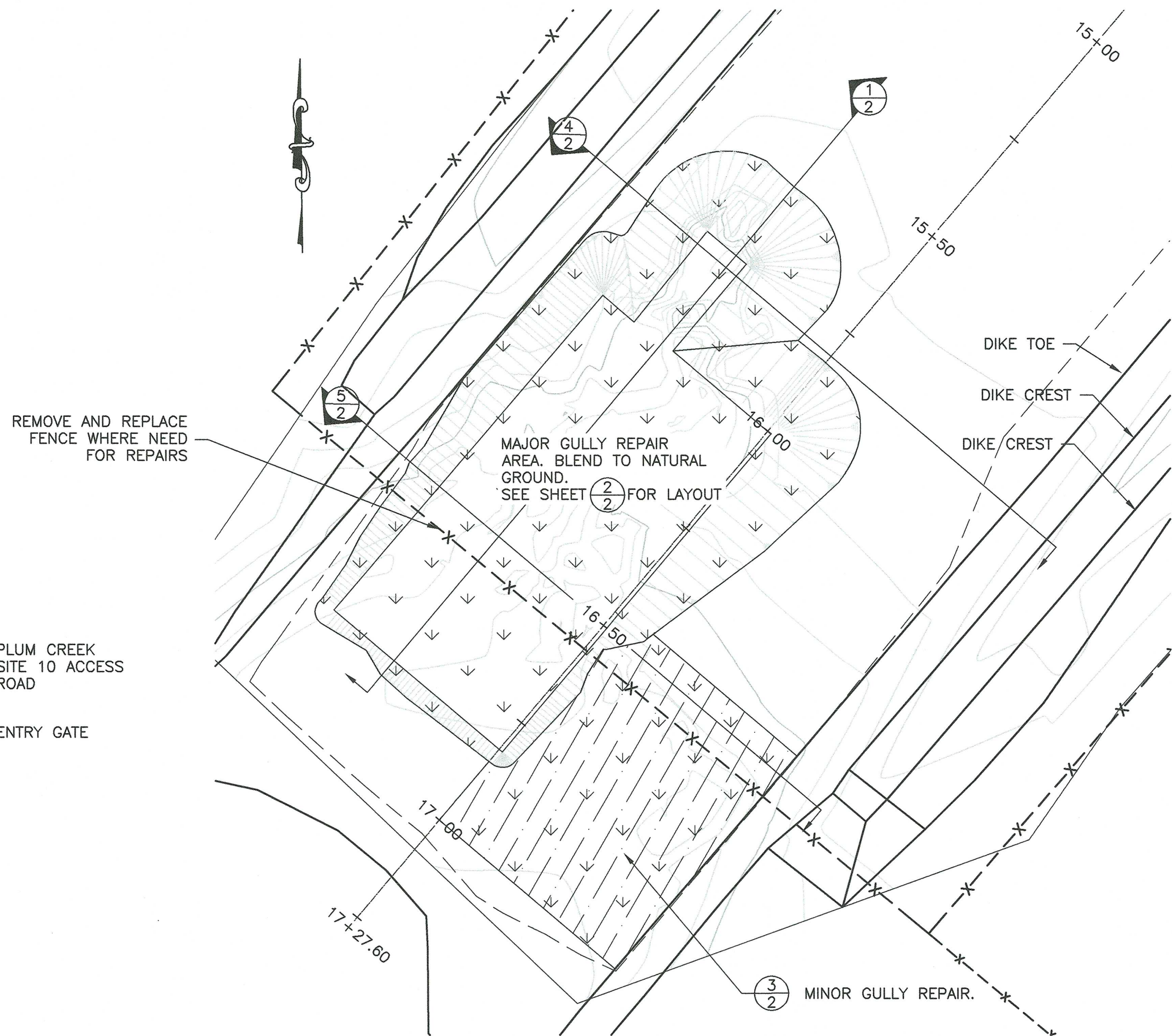
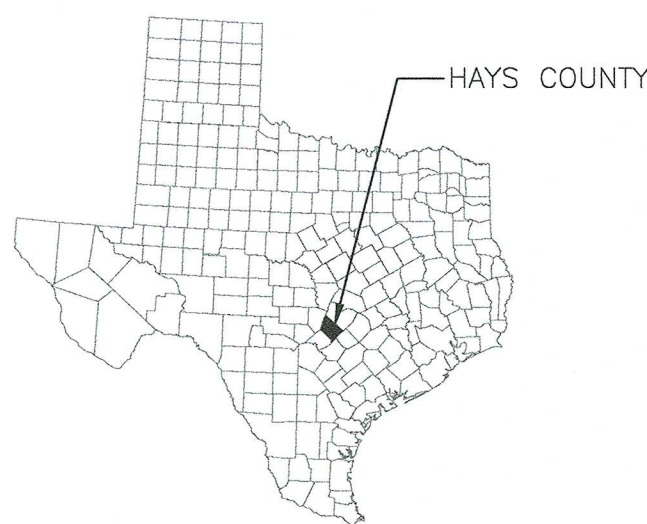
POINT #	NORTHING	EASTING	ELEVATION
BM1G	13936053.88	2348004.42	685.59
BM2G	13936414.14	2348851.24	687.78

### ALIGNMENT CURVE DATA

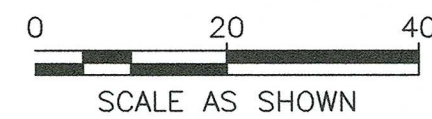
CURVE #	DELTA (Δ)	D	R	L	P.C.	P.I.	P.T.	T
C1	60° 00' 00"	060° 00' 07"	95.5	100.00	STA. 7+00 N: 13936334.69 E: 2348746.64	STA. 7+55.1 N: 13936282.79 E: 2348765.22	STA. 8+00 N: 13936240.74 E: 2348729.56	55.13

### NOTES:

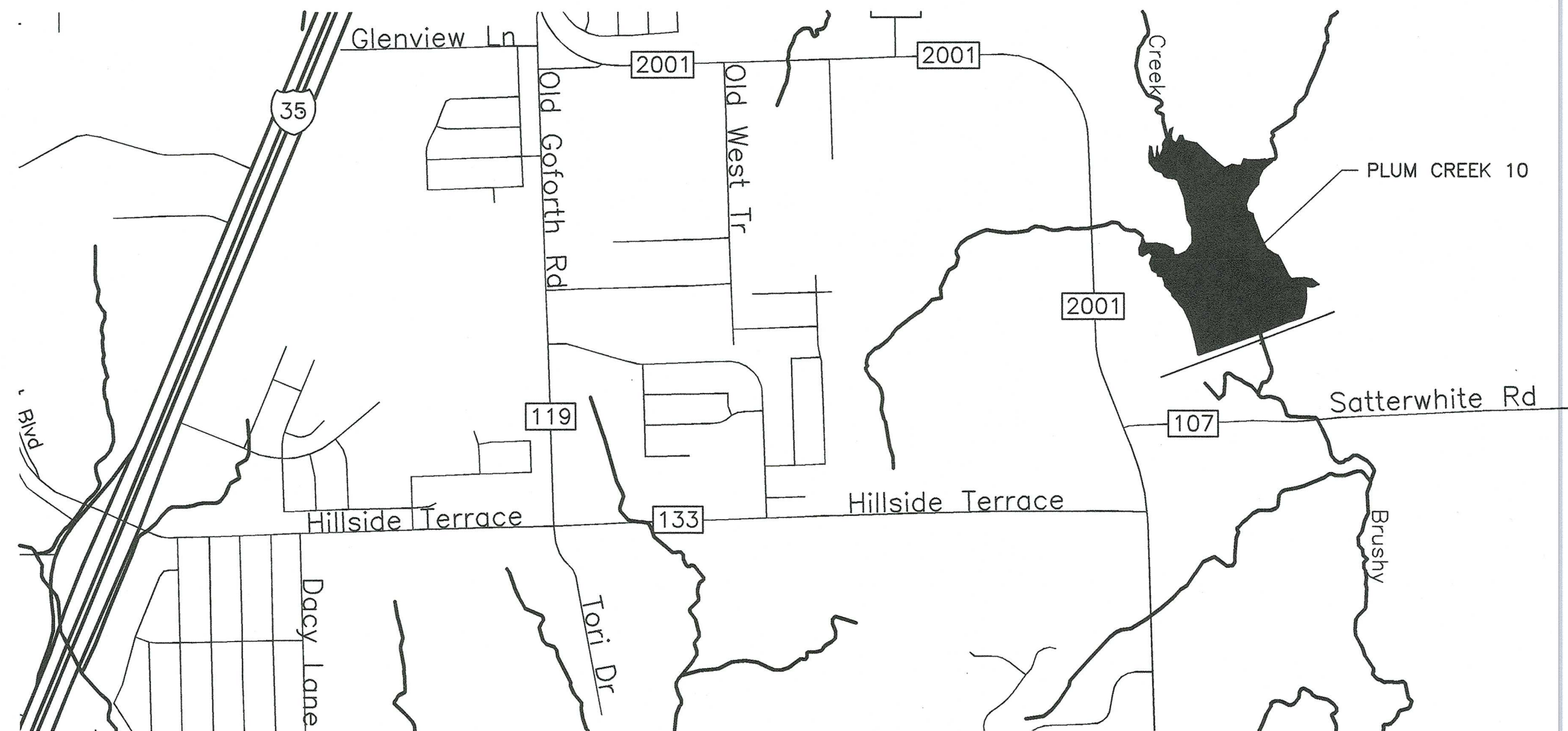
1. THE CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO IMPROVEMENTS AND UTILITIES ALONG THE ACCESS ROUTE AND AT OR NEAR THE WORKSITE.
2. THE CONTRACTOR SHALL NOTIFY THE OWNERS OF ALL UTILITIES A MINIMUM OF THREE (3) DAYS IN ADVANCE OF INTENT TO PERFORM WORK IN THE VICINITY OF THE AFFECTED UTILITY. THE NOTICE SHALL BE IN WRITING AND A COPY SHALL BE FURNISHED TO THE CONTRACTING OFFICER. UTILITIES MAY EXIST AND NOT BE SHOWN ON THE CONSTRUCTION DRAWINGS. THE SITE SHALL BE CAREFULLY SCRUTINIZED FOR EVIDENCE OF UTILITIES. AT A MINIMUM, PRIOR TO ANY GROUND DISTURBANCE, THE TELEPHONE NUMBER 811 SHALL BE CALLED TO ASCERTAIN IF UNDERGROUND UTILITIES EXIST IN THE GENERAL WORK AREA. CALLING THIS TELEPHONE NUMBER WILL ONLY ASCERTAIN THE EXISTENCE OF UNDERGROUND UTILITIES OWNED BY COMPANIES THAT SUBSCRIBE TO THIS ORGANIZATION. THERE MAY BE OTHER UNDERGROUND UTILITIES IN THE WORK AREA.
3. THE APPROXIMATE LOCATIONS OF THE ACCESS ROAD, CONSTRUCTION CAMPSITE, STOCKPILE, BORROW AND WASTE AREAS ARE SHOWN. THE FINAL LOCATIONS OF THESE AREAS SHALL BE DESIGNATED AT THE TIME OF SHOWING OF THE WORKSITE TO PROSPECTIVE BIDDERS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING ALL BARRICADES, WARNING SIGNS, TRAFFIC CONTROL DEVICES, ETC. NECESSARY TO CONTROL TRAFFIC AND PROVIDE FOR PUBLIC SAFETY AT THE ENTRANCE TO THE SITE (SEE CONSTRUCTION SPECIFICATION 9).
5. SUITABLE MATERIAL FROM EXCAVATIONS SHALL BE PROCESSED AND USED FOR THE EARTHFILL MATERIALS. UNSUITABLE MATERIALS SHALL BE PLACED IN A WASTE AREA OR OTHER AREAS APPROVED BY THE ENGINEER. EARTH MATERIALS NEEDED IN EXCESS OF REQUIRED EXCAVATIONS SHALL BE OBTAINED FROM THE BORROW AREA(S). (SEE CONSTRUCTION SPECIFICATIONS 21, 23, AND 420).
6. A MINIMUM OF 6" OF TOPSOIL SHALL BE PLACED ON ALL EARTHWORK REPAIR AREAS (SEE CONSTRUCTION SPECIFICATION 26).
7. CONSTRUCTION ACTIVITIES SHALL NOT OCCUR OUTSIDE THE DESIGNATED WORK LIMITS, UNLESS OTHERWISE AUTHORIZED.
8. REMOVAL OR STRIPPING OF SOIL MATERIALS INCLUDING TOPSOIL AND LOW DENSITY OR DISPLACED MATERIALS WILL BE NECESSARY TO PROVIDE A SUITABLE WORKING AREA FOR THE CONSTRUCTION EQUIPMENT. THE APPROXIMATE LIMITS OF THE REMOVAL ARE SHOWN ON THE DRAWINGS. REMOVAL OF ADDITIONAL MATERIALS BEYOND THE LIMITS SHOWN MAY BE REQUIRED TO ENSURE A SUITABLE FOUNDATION EXISTS ON WHICH TO PLACE EARTHFILL AND/OR ROCK. (SEE CONSTRUCTION SPECIFICATION 420.)
9. THE EXISTING NATURAL GROUND SHOWN FOR THE SITE IS BASED ON SURVEYED CONDITIONS AS THEY EXISTED IN FEBRUARY 2016. CHANGES IN SITE CONDITIONS PRIOR TO CONSTRUCTION MAY NECESSITATE ADJUSTMENTS TO THE GRADES AND ELEVATIONS SHOWN. THE FINAL GRADES AND ELEVATIONS FOR ALL WORKS OF IMPROVEMENTS SHOWN ARE APPROXIMATE AND SHALL BE ADJUSTED IN THE FIELD BY THE ENGINEER TO BEST FIT THE TOPOGRAPHY OF THE SITE, IF NECESSARY.
10. THE CONTROL POINTS SHOWN ARE TO BE USED TO ESTABLISH HORIZONTAL AND VERTICAL CONTROL.



### SITE PLAN



DIRECTION IN WHICH SECTION IS TAKEN  
SECTION NUMBER  
SHEET ON WHICH SECTION IS SHOWN  
DETAIL NUMBER  
SHEET ON WHICH DETAIL IS TAKEN



STRUCTURE SITE NO. 10 IS LOCATED APPROX.  
5 MILES NORTH & 4.5 MILES EAST OF KYLE,  
HAYS COUNTY, TEXAS

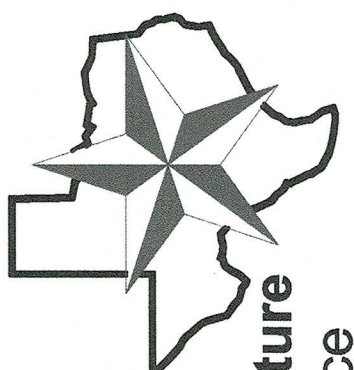
### VICINITY MAP

SCALE: N.T.S.



DESIGNED BY: JWH  
DRAWN BY: SMD  
CHECKED BY: JWH  
FILE NAME: PLUM 10 EWP DESIGN.dwg  
DATE CHECKED: 02/20/17

GENERAL PLAN, SITE PLAN, & VICINITY PLAN  
FLOODWATER RETARDING STRUCTURE SITE NO. 10  
PLUM CREEK WATERSHED  
IN  
HAYS COUNTY, TEXAS



NRCS  
United States Department of Agriculture  
Natural Resources Conservation Service

REVISIONS DATE  
N/A N/A  
N/A N/A  
N/A N/A

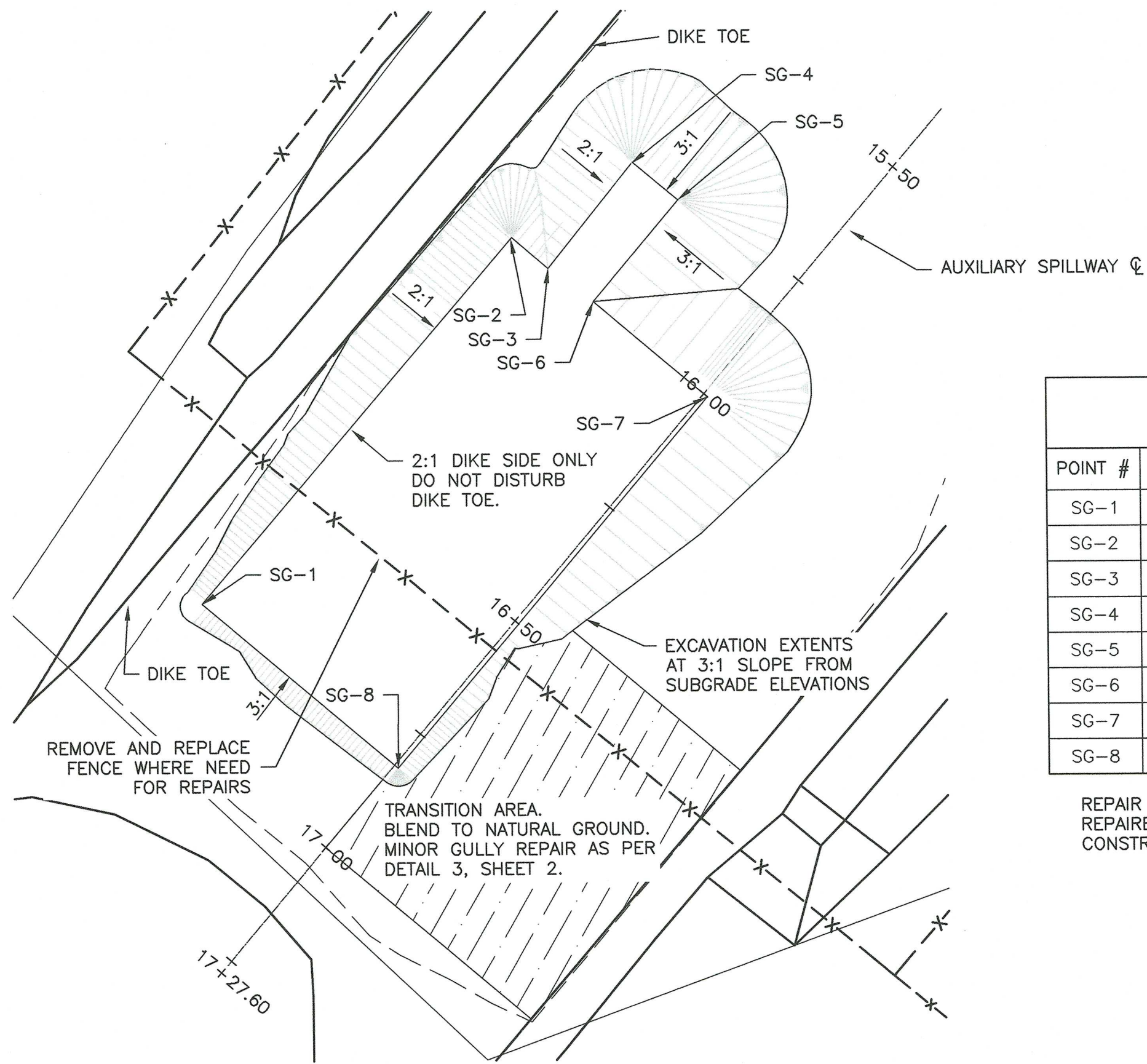
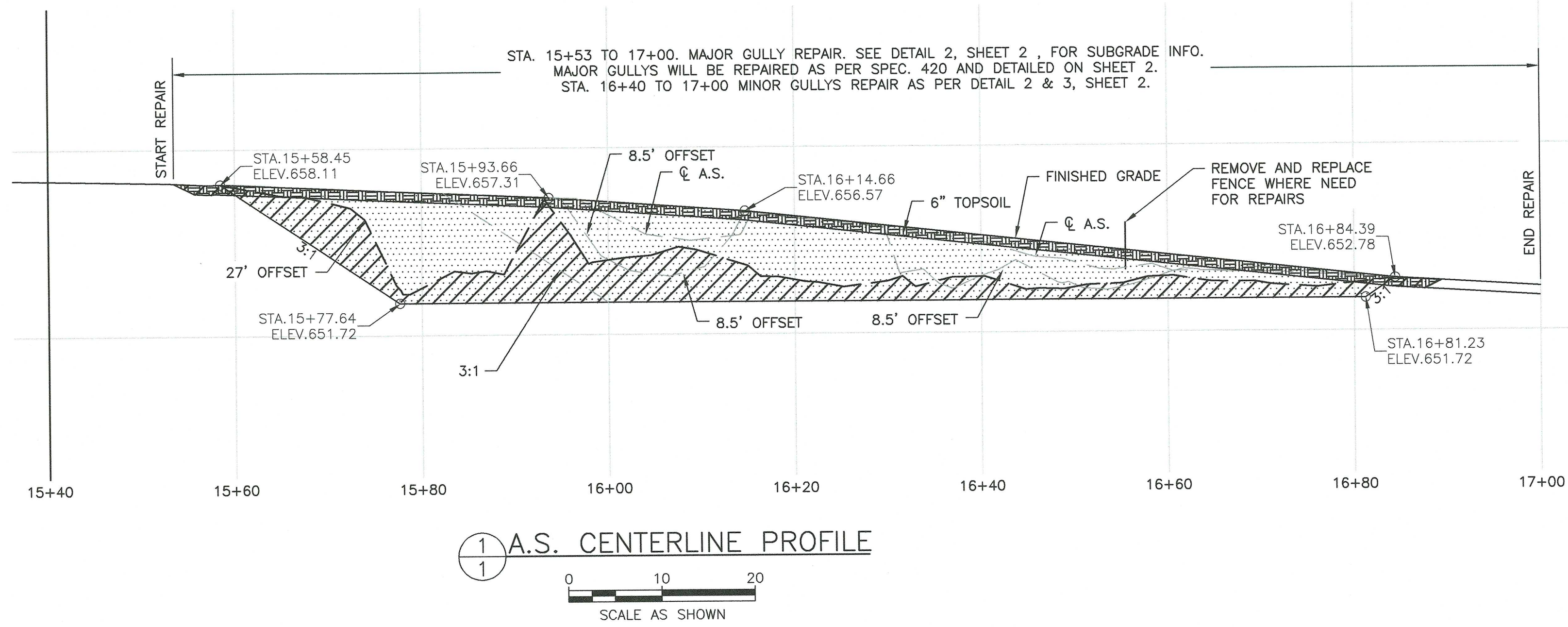
DRAWING NO.  
TX-EN-0705

SHEET

1

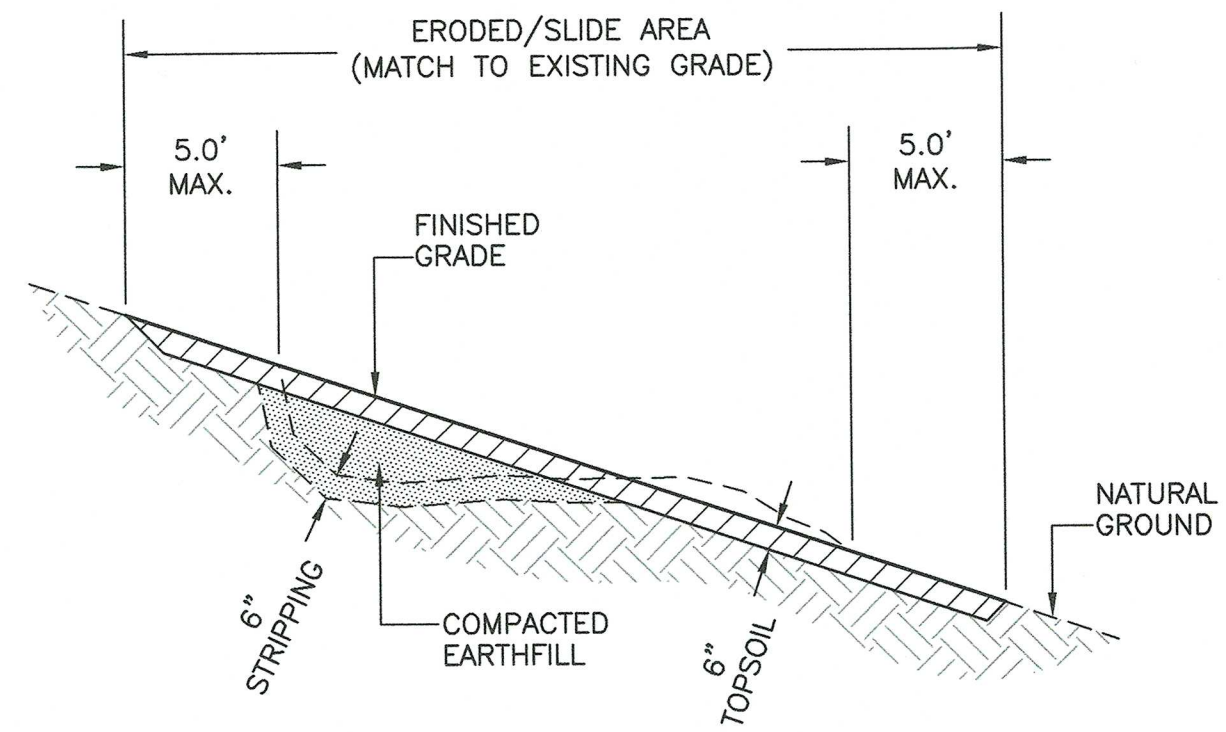


V:\EWP\2015 Fall Floods EWP\Plum Creek 10\Drawings\EWP 10 EWP DESIGN.dwg



COORDINATES			
POINT #	NORTHING	EASTING	ELEVATION
SG-1	13935595.65	2348126.90	651.72
SG-2	13935657.29	2348179.80	651.72
SG-3	13935652.03	2348185.91	651.72
SG-4	13935669.90	2348200.38	651.72
SG-5	13935663.43	2348208.00	651.72
SG-6	13935646.37	2348193.54	651.72
SG-7	13935630.09	2348212.75	651.72
SG-8	13935567.71	2348159.84	651.72

REPAIR TO EXCAVATION EXTENTS. TO BE REPAIRED IN ACCORDANCE WITH CONSTRUCTION SPECIFICATION 420.

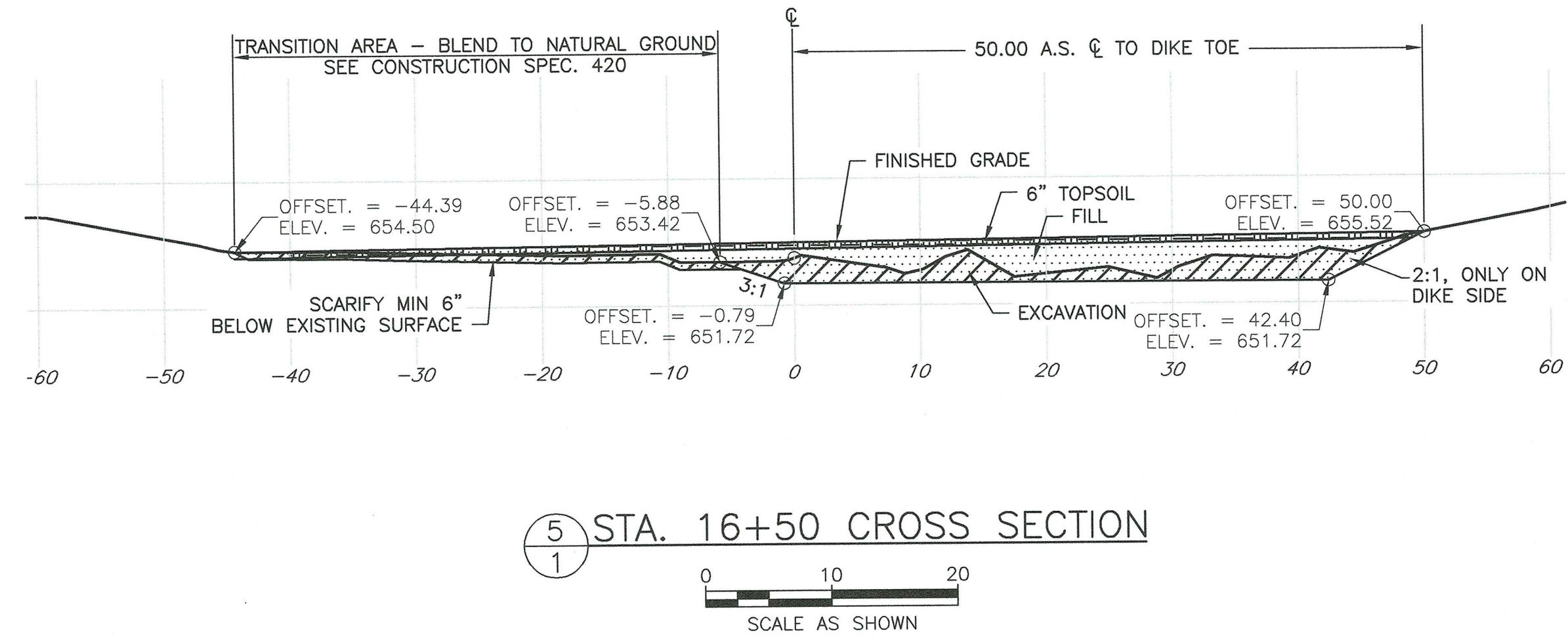
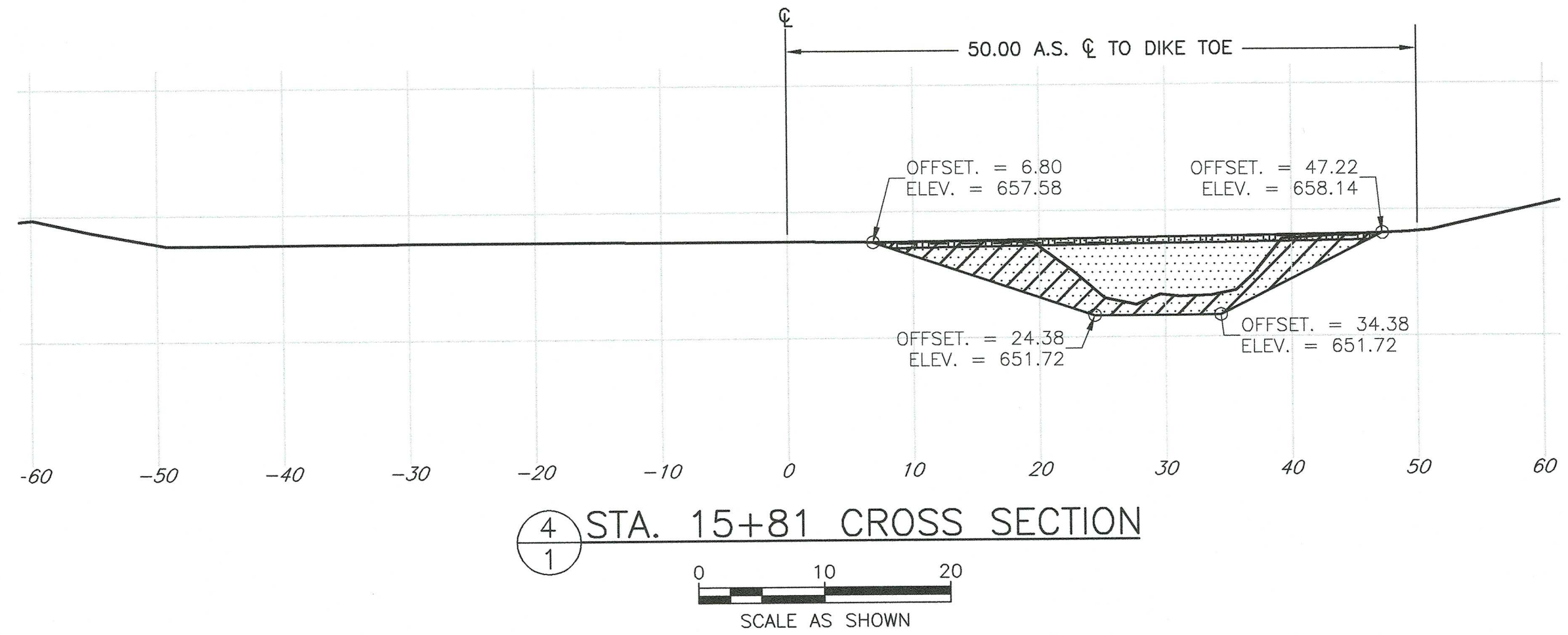


CONSTRUCTION NOTES:

1. THE APPROXIMATE LOCATIONS AND AREAS OF THE SLIDE/ERODED AREAS TO BE REPAIRED BY SHAPING AND SMOOTHING ARE SHOWN IN THE DRAWINGS. THE FINAL EXTENTS SHALL BE STAKED BY THE ENGINEER.
2. CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED TO MINIMIZE IMPACTS TO THE SURROUNDING VEGETATION. CARE SHALL BE TAKEN TO ENSURE THAT THE MINIMUM CONSTRUCTION FOOTPRINT REQUIRED TO ACCOMPLISH THE JOB IS USED AND DAMAGE TO THE SURROUNDING VEGETATION IS KEPT TO A MINIMUM.
3. THE GULLY AREAS SHALL BE REPAIRED IN ACCORDANCE WITH CONSTRUCTION SPECIFICATION 420, BRINGING THE FINISHED SURFACE UP TO MATCH THE EXISTING GRADE.

NOTES:

1. ALL AREAS WITHIN THE TRANSITION AREA SHALL BE BLENDED TO NATURAL GROUND. ACCORDING TO SPEC. 420,



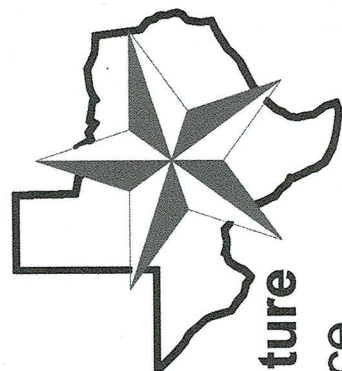
PROFILE, CROSS SECTIONS AND GULLY DETAILS

FLOODWATER RETARDING STRUCTURE SITE NO. 10

PLUM CREEK WATERSHED

IN

HAYS COUNTY, TEXAS



**NRCS**  
United States Department of Agriculture  
Natural Resources Conservation Service

REVISIONS	DATE
N/A	N/A
N/A	N/A
N/A	N/A

DRAWING NO.  
TX-EN-0705

SHEET

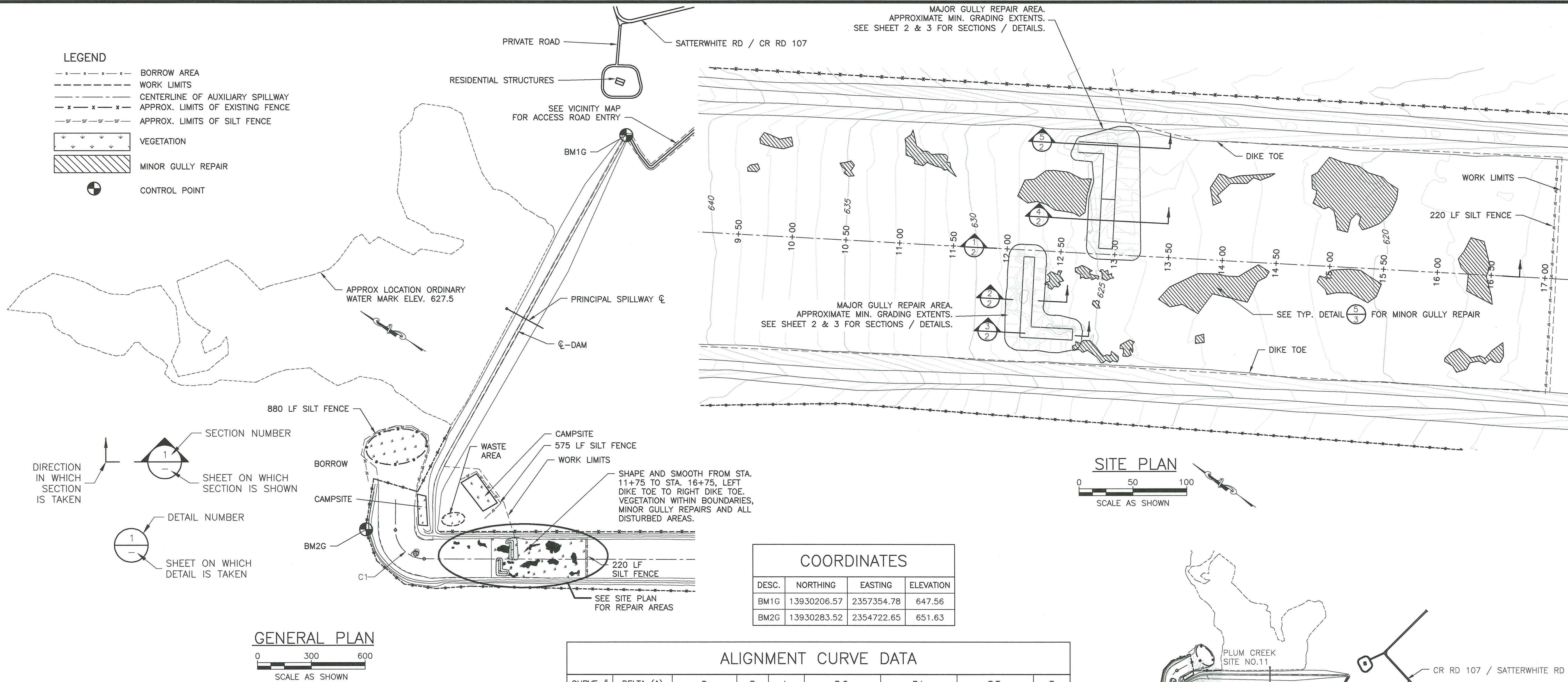
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DESIGNED BY:	JWH
DRAWN BY:	SMD
CHECKED BY:	JWH
FILE NAME:	PLUM 10 EWP DESIGN.dwg
DATE CHECKED:	02/2017



V:\EWP\2015 Fall Floods EWP\Plum Creek 11\Drawings 11\PLUM CREEK 11 EPW DESIGN.dwg



- NOTES:
- THE CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO IMPROVEMENTS AND UTILITIES ALONG THE ACCESS ROUTE AND AT OR NEAR THE WORKSITE.
  - THE CONTRACTOR SHALL NOTIFY THE OWNERS OF ALL UTILITIES A MINIMUM OF THREE (3) DAYS IN ADVANCE OF INTENT TO PERFORM WORK IN THE VICINITY OF THE AFFECTED UTILITY. THE NOTICE SHALL BE IN WRITING AND A COPY SHALL BE FURNISHED TO THE CONTRACTING OFFICER. UTILITIES MAY EXIST AND NOT BE SHOWN ON THE CONSTRUCTION DRAWINGS. THE SITE SHALL BE CAREFULLY SCRUTINIZED FOR EVIDENCE OF UTILITIES. AT A MINIMUM, PRIOR TO ANY GROUND DISTURBANCE, THE TELEPHONE NUMBER 811 SHALL BE CALLED TO ASCERTAIN IF UNDERGROUND UTILITIES EXIST IN THE GENERAL WORK AREA. CALLING THIS TELEPHONE NUMBER WILL ONLY ASCERTAIN THE EXISTENCE OF UNDERGROUND UTILITIES OWNED BY COMPANIES THAT SUBSCRIBE TO THIS ORGANIZATION. THERE MAY BE OTHER UNDERGROUND UTILITIES IN THE WORK AREA.
  - THE APPROXIMATE LOCATIONS OF THE ACCESS ROAD, CONSTRUCTION CAMPSITE, STOCKPILE, BORROW AND WASTE AREAS ARE SHOWN. THE FINAL LOCATIONS OF THESE AREAS SHALL BE DESIGNATED AT THE TIME OF SHOWING OF THE WORKSITE TO PROSPECTIVE BIDDERS.
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  - SUITABLE MATERIAL FROM EXCAVATIONS SHALL BE PROCESSED AND USED FOR THE EARTHFILL MATERIALS. UNSUITABLE MATERIALS SHALL BE PLACED IN A WASTE AREA OR OTHER AREAS APPROVED BY THE ENGINEER. EARTH MATERIALS NEEDED IN EXCESS OF REQUIRED EXCAVATIONS SHALL BE OBTAINED FROM THE BORROW AREA(S). (SEE CONSTRUCTION SPECIFICATIONS 21, 23, AND 420).
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  - THE CONTROL POINTS SHOWN ARE TO BE USED TO ESTABLISH HORIZONTAL AND VERTICAL CONTROL.

**SEAL OF TEXAS**  
John W. Mueller, P.E.  
2/17/17

DESIGNED BY: JWH  
DRAWN BY: SMD  
CHECKED BY: GEG  
FILE NAME: PLUM CREEK 11 EPW DESIGN.dwg  
DATE CHECKED: 02/20/17

GENERAL PLAN, SITE PLAN, & VICINITY PLAN  
FLOODWATER RETARDING STRUCTURE SITE NO. 11  
PLUM CREEK WATERSHED  
IN  
HAYS COUNTY, TEXAS

**NRCS**  
United States Department of Agriculture  
Natural Resources Conservation Service

REVISIONS  
N/A  
N/A  
N/A

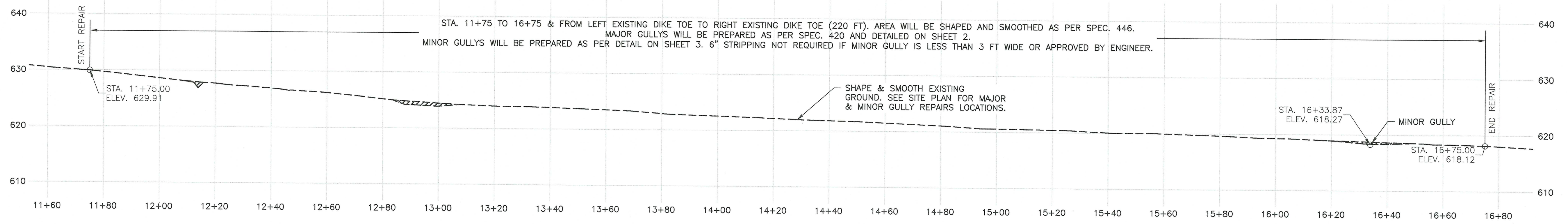
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N/A  
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DRAWING NO.  
TX-EN-0704

SHEET  
1

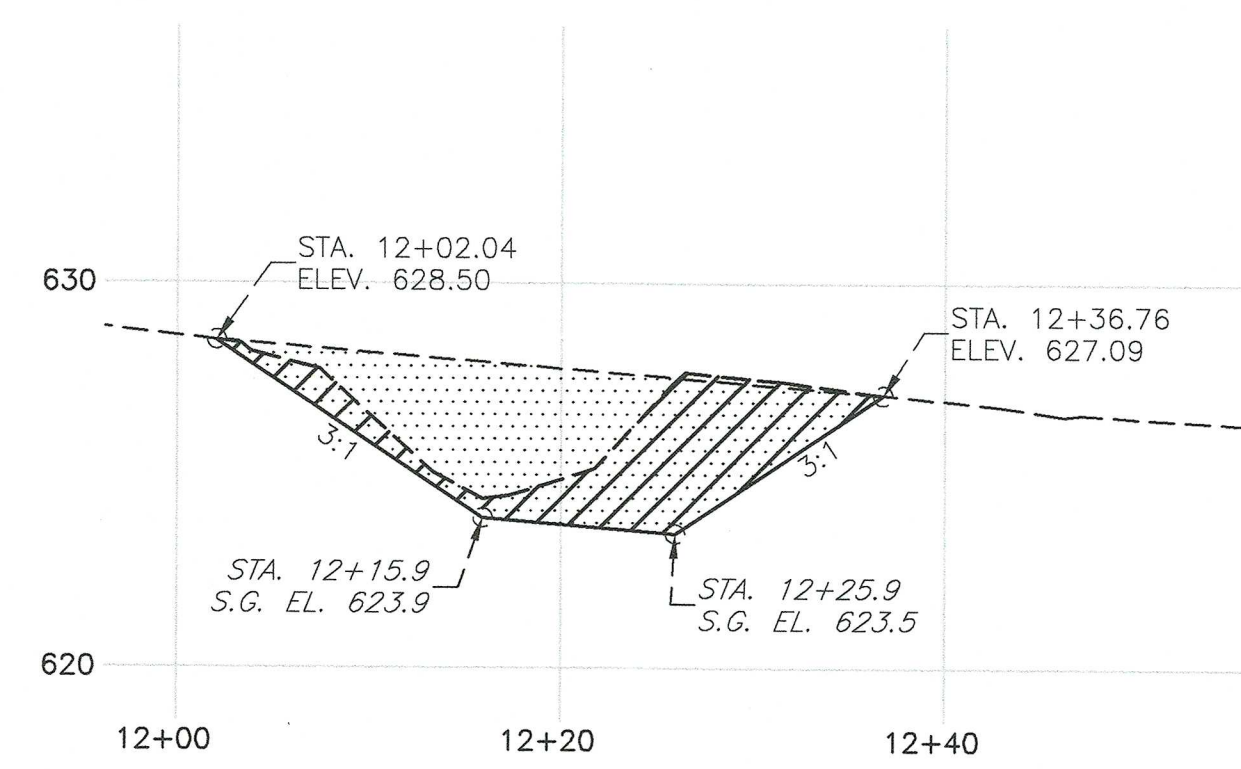


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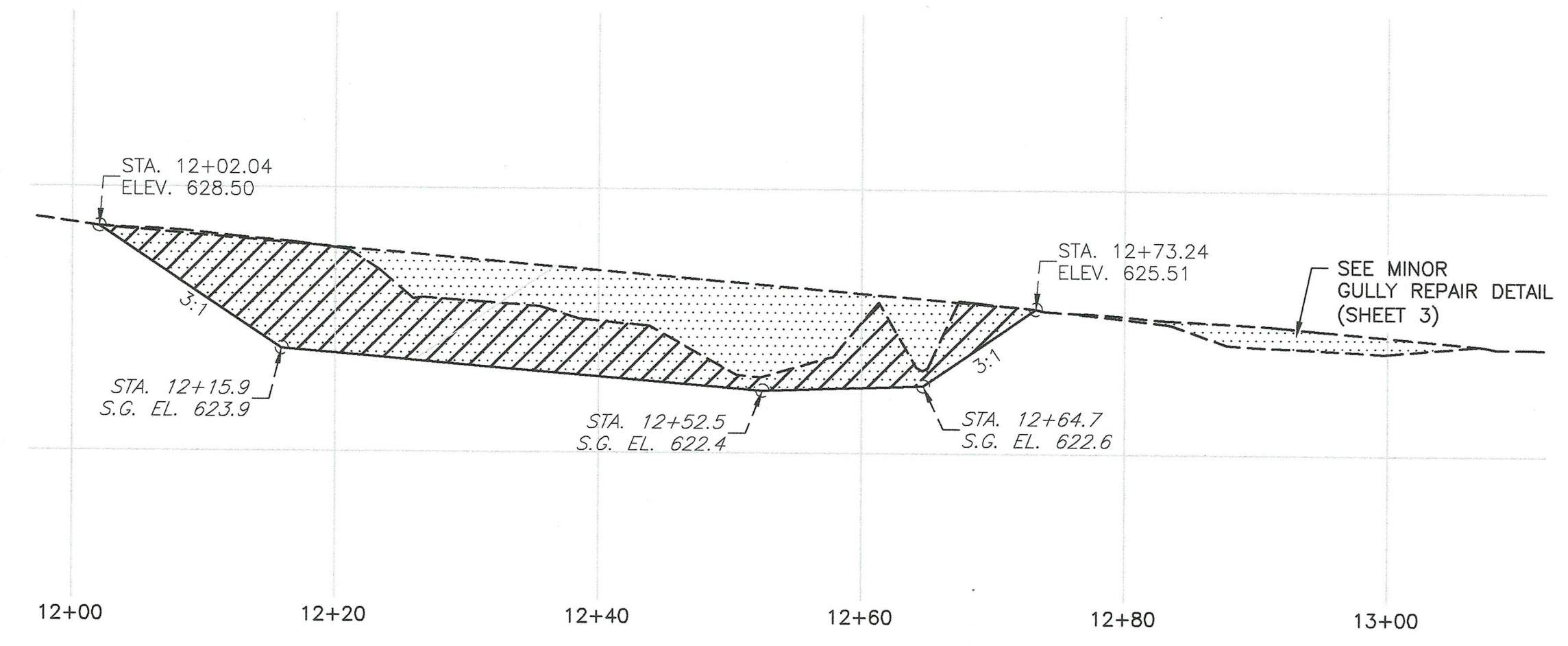
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1 A.S. CENTERLINE PROFILE

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SCALE AS SHOWN



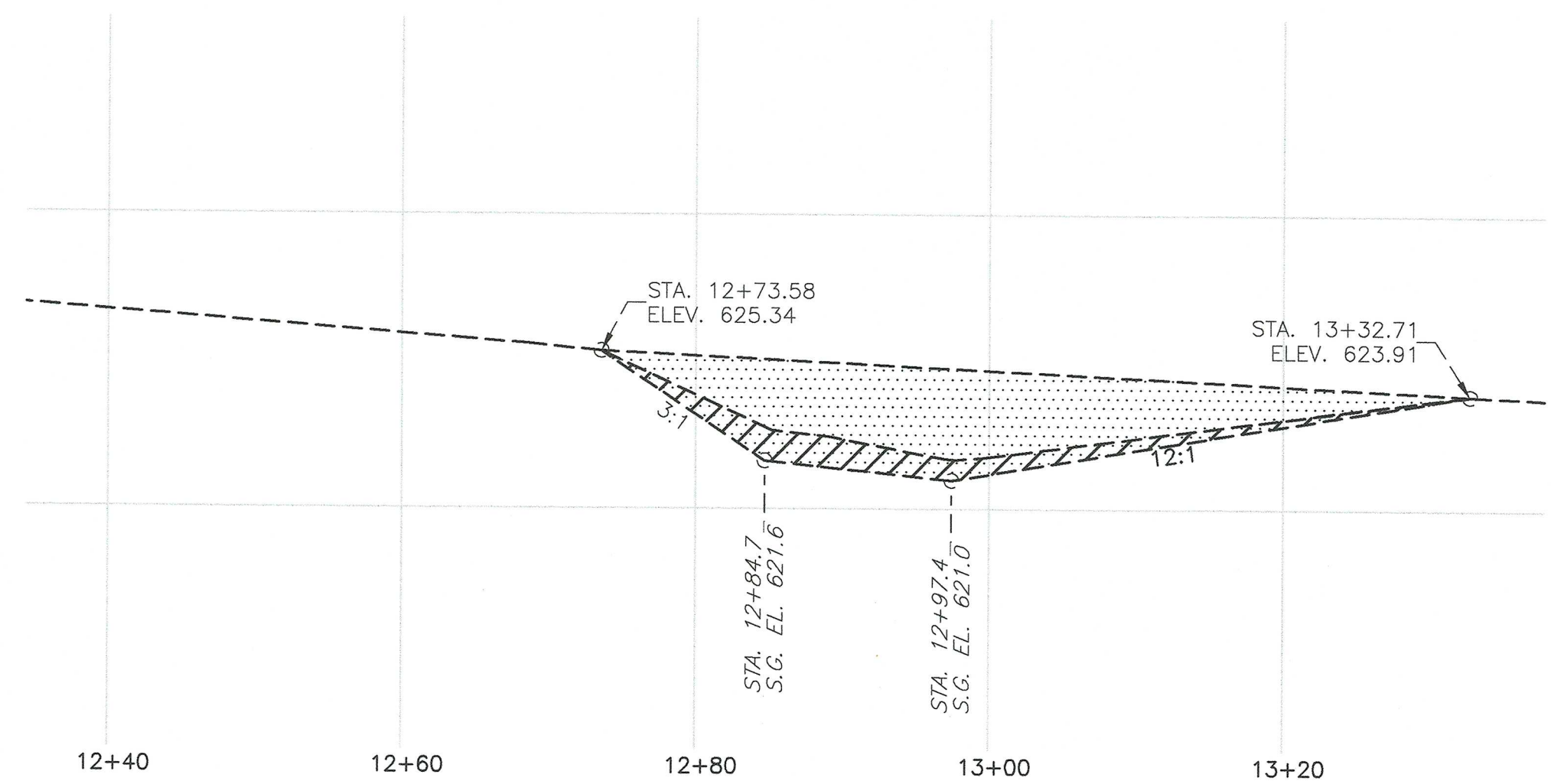
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0 10 20  
SCALE AS SHOWN



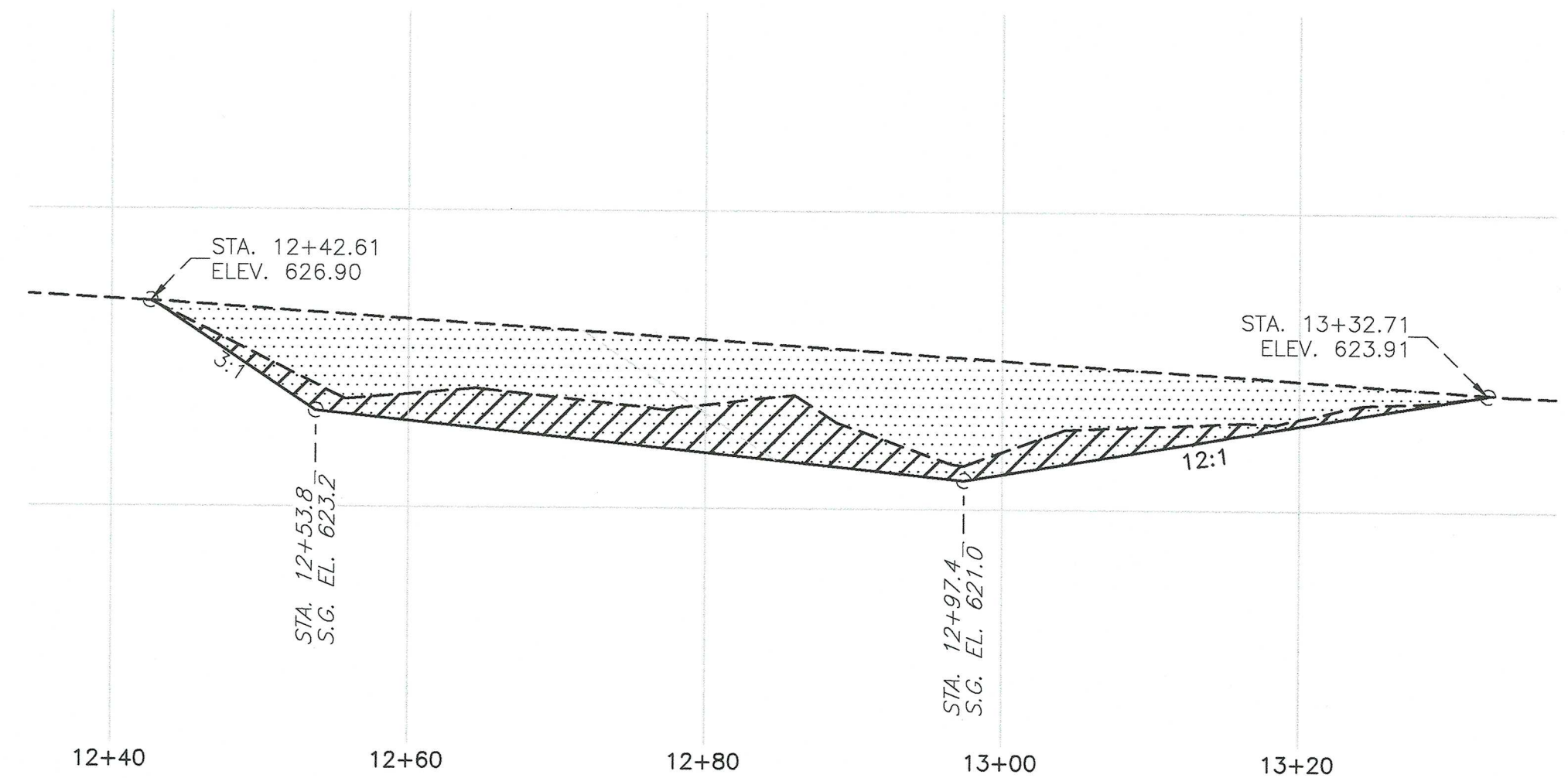
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SCALE AS SHOWN



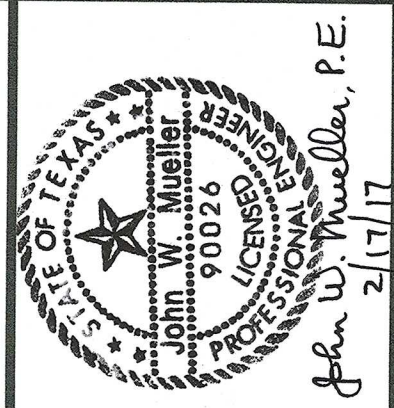
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1 A.S. @ -51 FT. LT. OFFSET CENTERLINE PROFILE

0 10 20  
SCALE AS SHOWN



5  
1 A.S. @ -103 FT. LT. OFFSET CENTERLINE PROFILE

0 10 20  
SCALE AS SHOWN



DESIGNED BY: JWH  
DRAWN BY: SMD  
CHECKED BY: GEG  
FILE NAME: PLUM CREEK 11 EPW DESIGN.dwg  
DATE CHECKED: 02/20/17

MAJOR & MINOR GULLY PROFILES  
FLOODWATER RETARDING STRUCTURE SITE NO. 11  
PLUM CREEK WATERSHED  
IN  
HAYS COUNTY, TEXAS



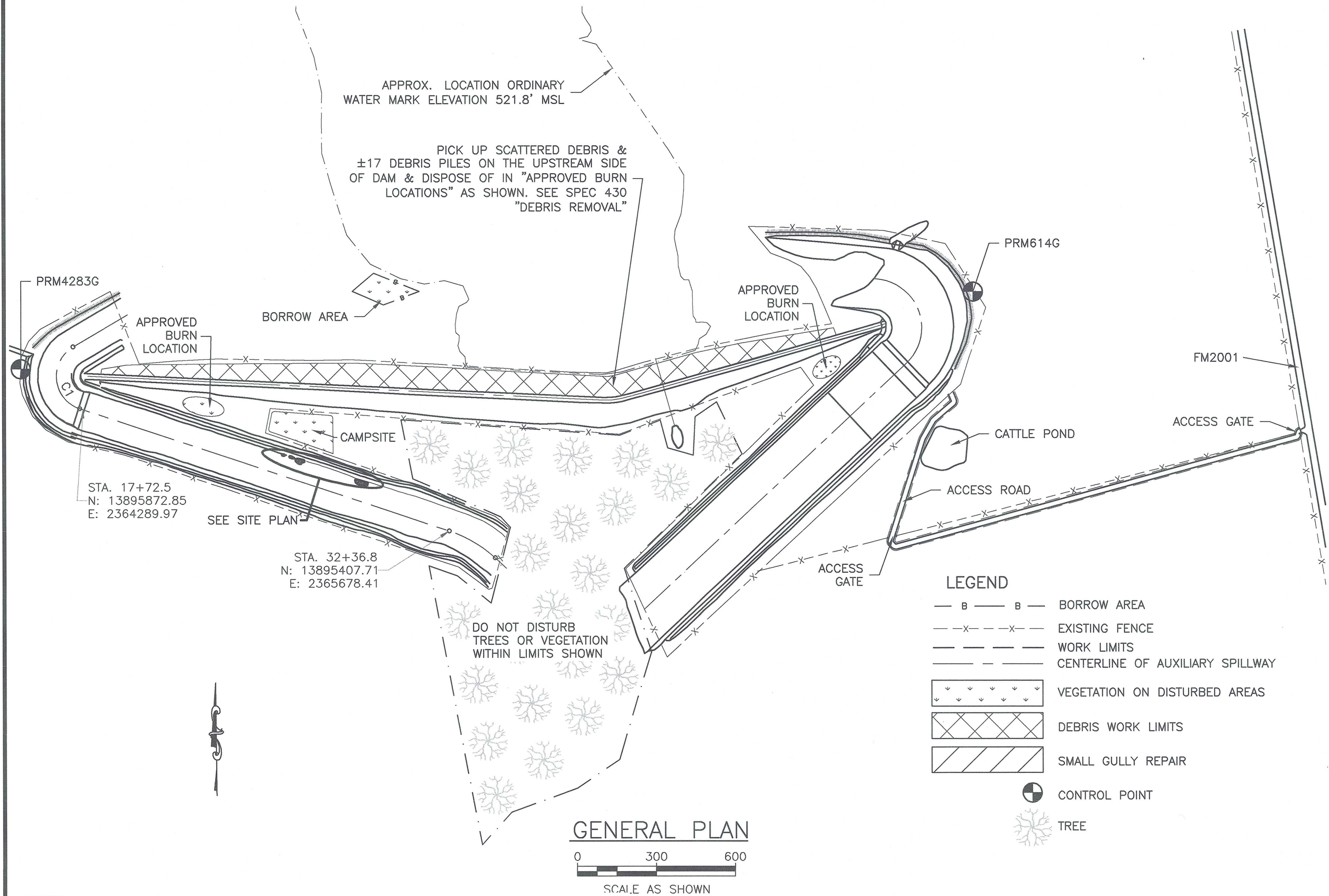
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N/A	N/A
N/A	N/A

DRAWING NO.  
TX-EN-0704

SHEET  
2



V:\EWP\2015 Fall Floods EWP\Plum Creek 14\DRAWINGS 14\PLUM CR 14.dwg

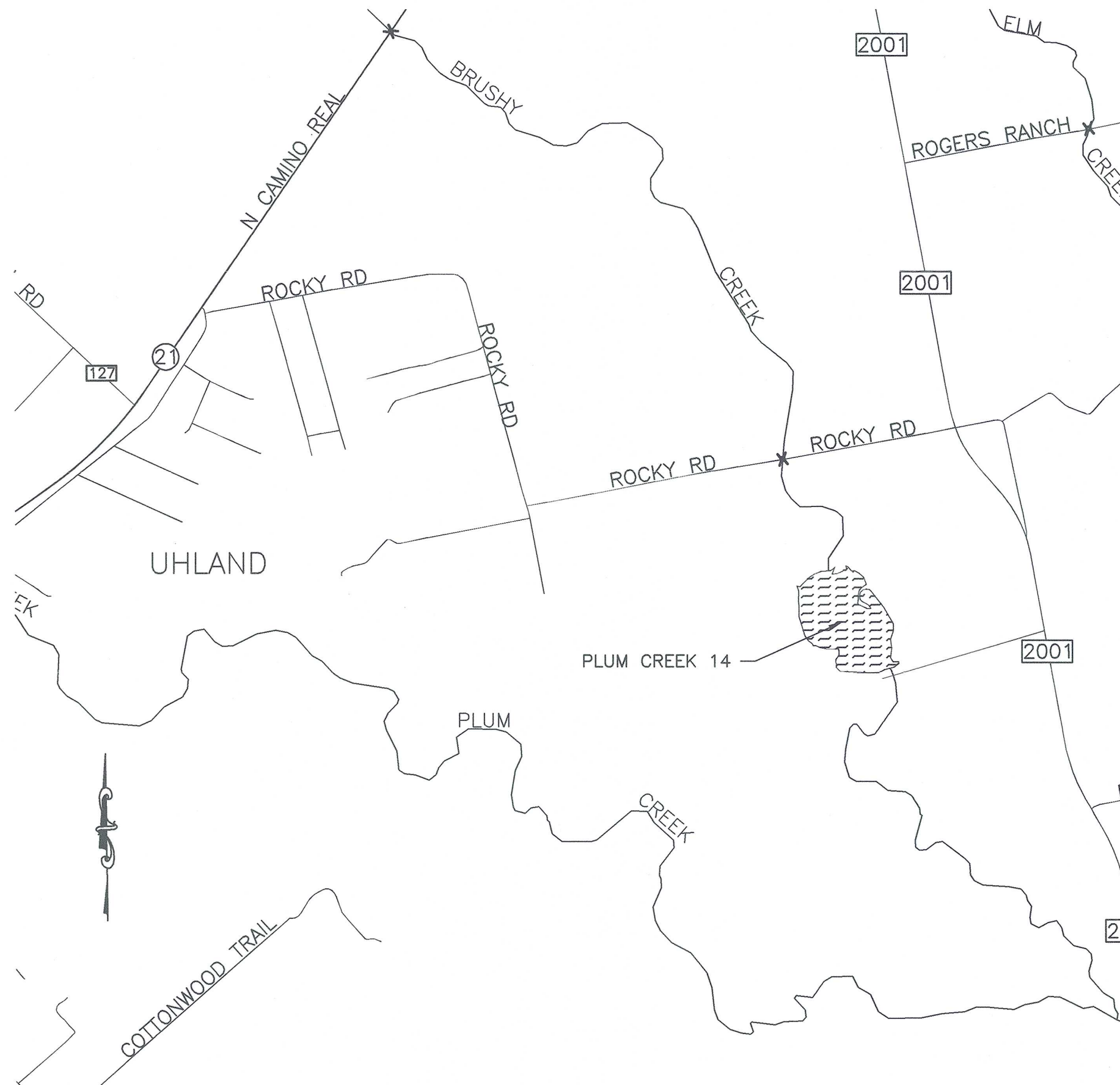
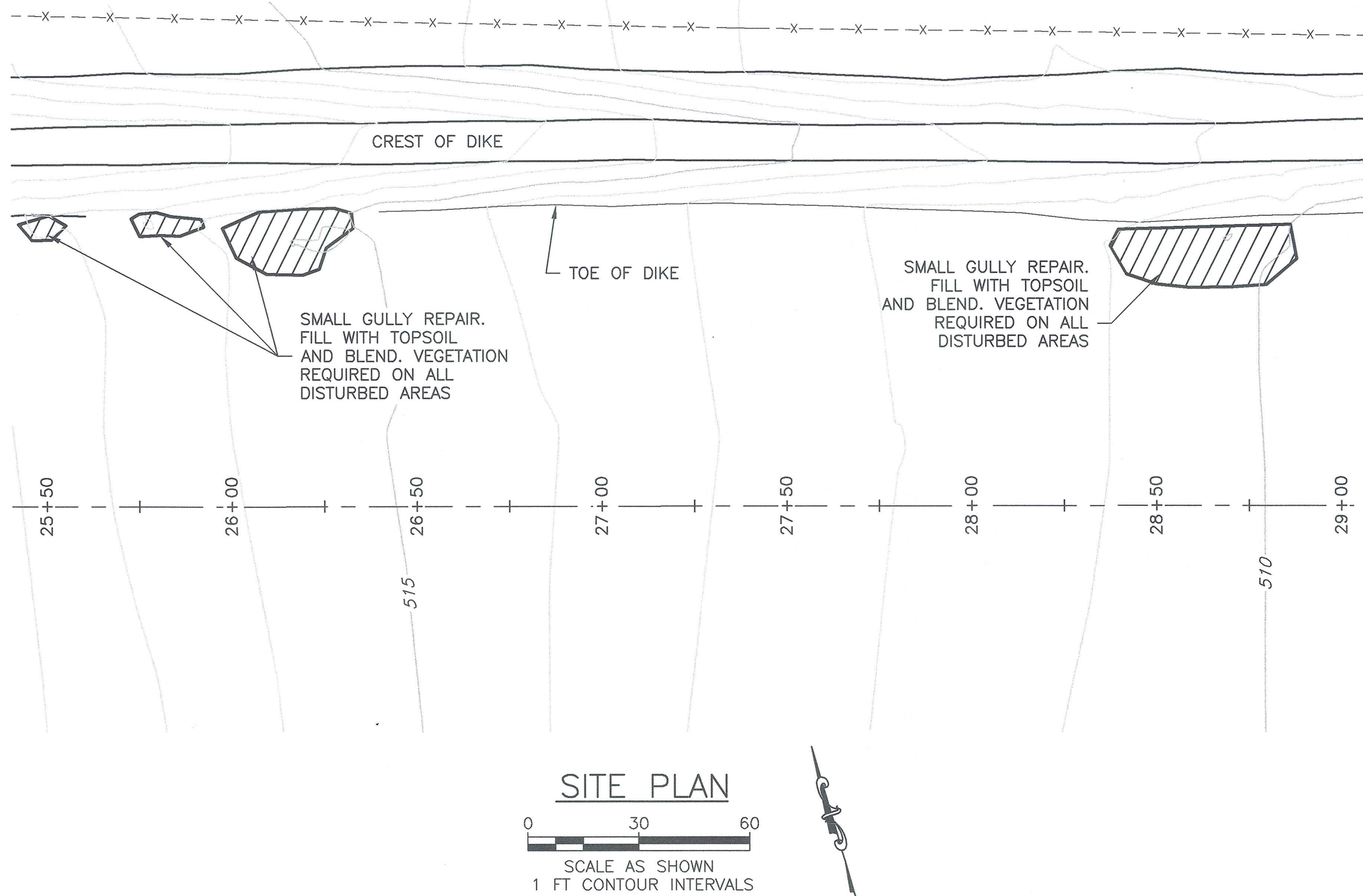


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ALIGNMENT CURVE DATA								
CURVE #	DELTA (Δ)	D	R	L	P.C.	P.I.	P.T.	T
C1	131° 09' 00"	044' 21' 12"	129.2	295.69	STA. 14+64.3 N: 13896106.77 E: 2364251.92	STA. 17+48.8 N: 13895962.44 E: 2364006.82	STA. 17+60 N: 13895872.85 E: 2364276.78	284.45

COORDINATES			
DESC	NORTHING	EASTING	ELEVATION
PRM614G	13896314.29	2367668.56	553.63
PRM4283G	13896022.84	2364053.16	541.43



SITE NO. 14 IS LOCATED APPROX. 5 1/2 MILES WEST OF LOCKHART, CALDWELL COUNTY, TEXAS.

VICINITY MAP  
NOT TO SCALE



DESIGNED BY: JWH  
DRAWN BY: SMD  
CHECKED BY: GEG  
FILE NAME: PLUM CR 14.dwg  
DATE CHECKED: 01/2017

GENERAL, SITE & VICINITY MAP  
FLOOD RETARDING STRUCTURE SITE 14  
PLUM CREEK WATERSHED  
IN  
CALDWELL COUNTY, TEXAS



REVISIONS DATE  
N/A N/A  
N/A N/A  
N/A N/A

DRAWING NO.  
TX-EN-0702  
SHEET

1