

DRAWINGS FOR THE

# 2014 STORMWATER IMPROVEMENTS

## SOUTH QUARRY AREA

## AT BRIDGETON LANDFILL

BRIDGETON, MISSOURI

JUNE 2014  
REVISED JULY 10, 2014  
ADDENDUM #1

PREPARED FOR

# BRIDGETON LANDFILL, LLC

PREPARED BY

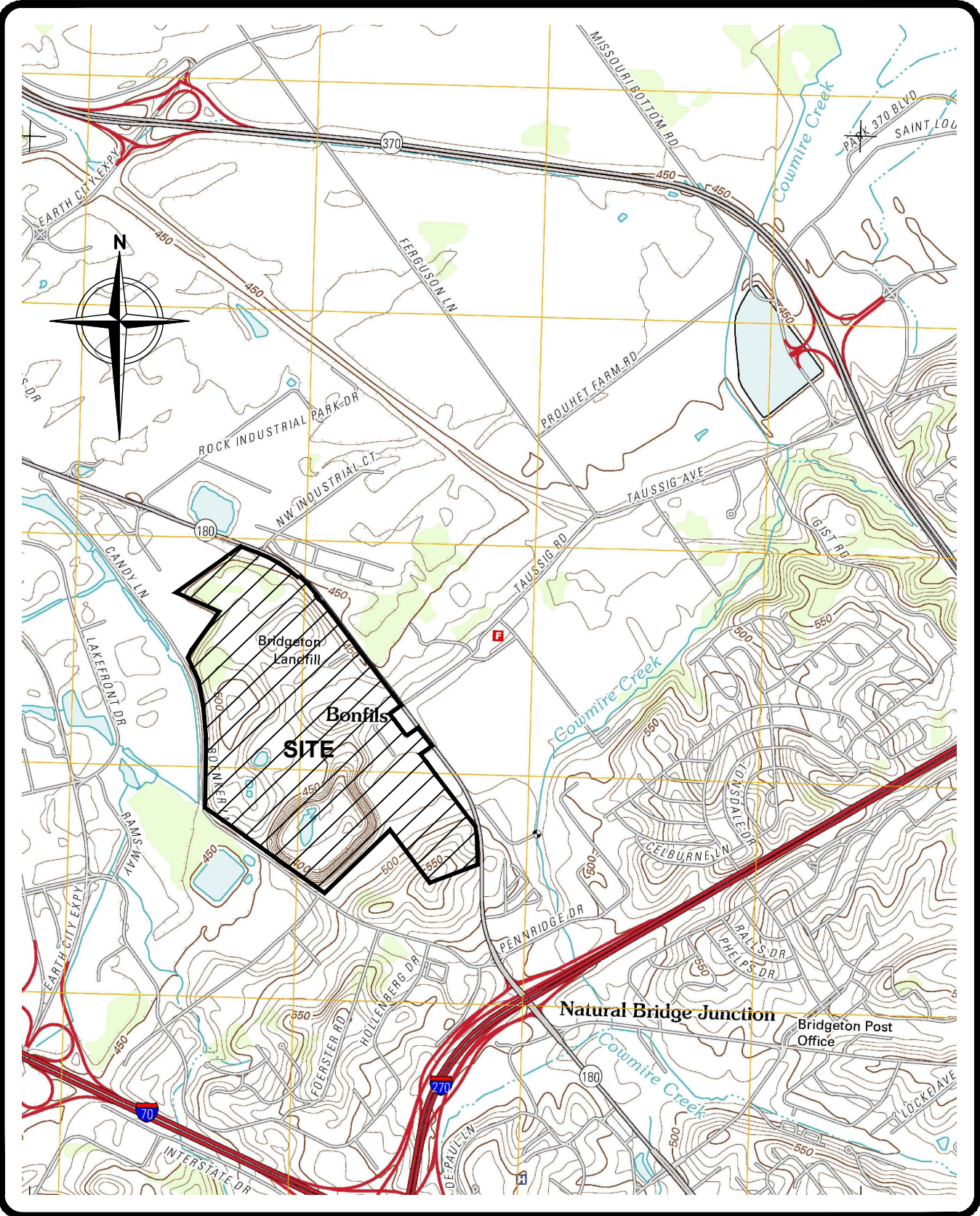


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environmental

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2	WEST WORK AREA PLAN
3	BOX CULVERT REPLACEMENT
4	48" CULVERT & ROAD REGRADE
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CEG PROJECT 140139



LOCATION MAP

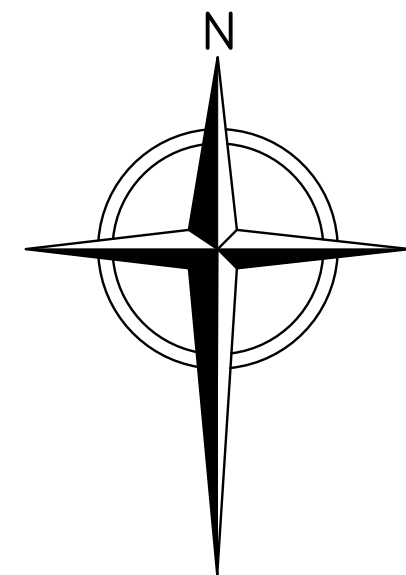
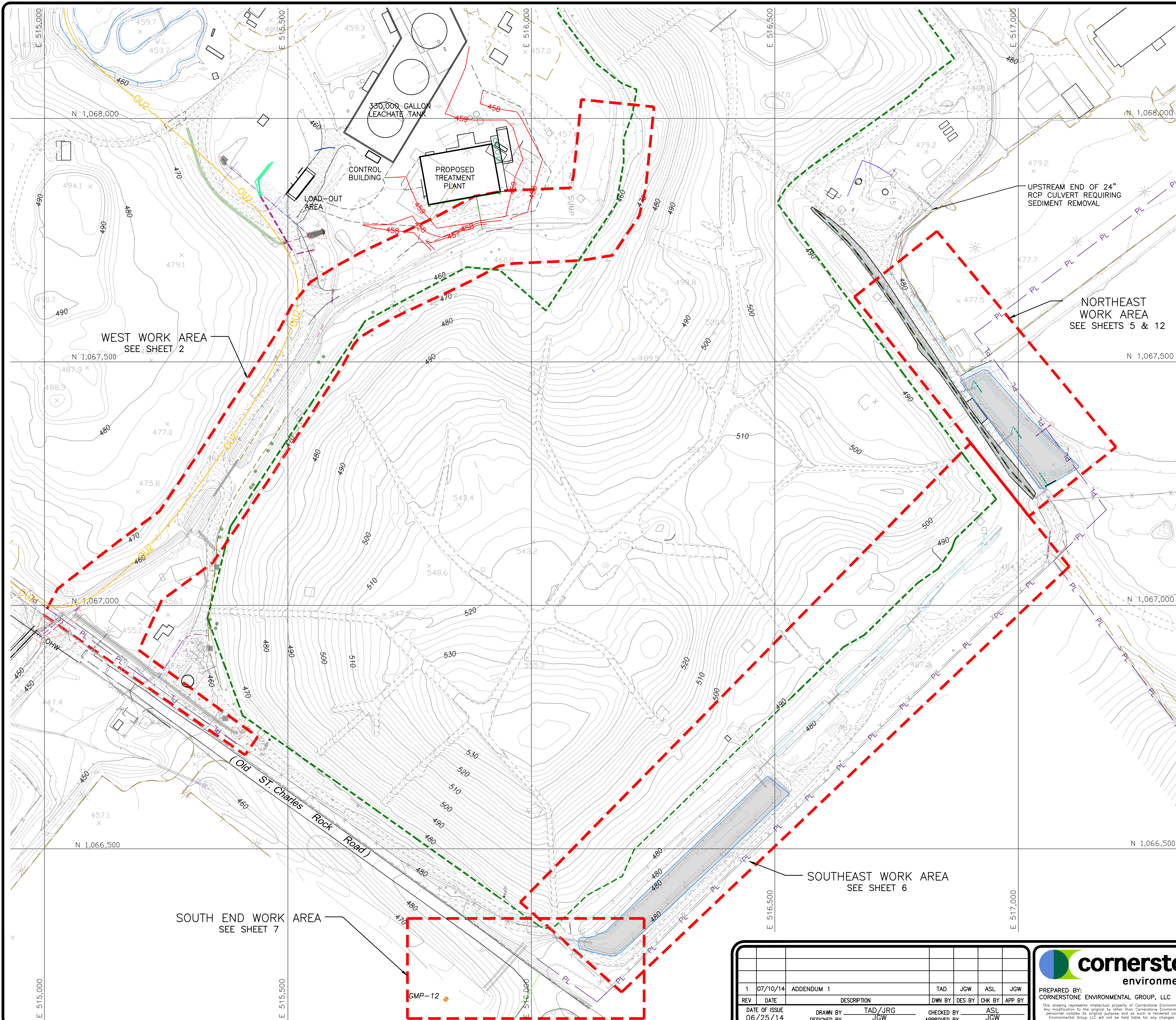
1" = 1/2" = 0"

File: X:\PROJECTS\BRIDGETON (MO)\140139 - ENGINEERING ASSISTANCE\PROJECT DWGS\2014 SW IMPROVEMENTS\ADDENDUM 1 071014\FBL SW 4-15.dwg Layout COVER User: Thern.Dechapue Jul 10, 2014 1:10:10pm

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File: X:\PROJECTS\BRIDGETON - PROJECT DWG\2014 SW IMPROVEMENTS\ADDENDUM 1 071014\FIEL SW14 SW SC-WORK AREA.dwg Layout: 01-SITE PLAN User: Thierry Deschamps Jul 10, 2014 - 3:03pm



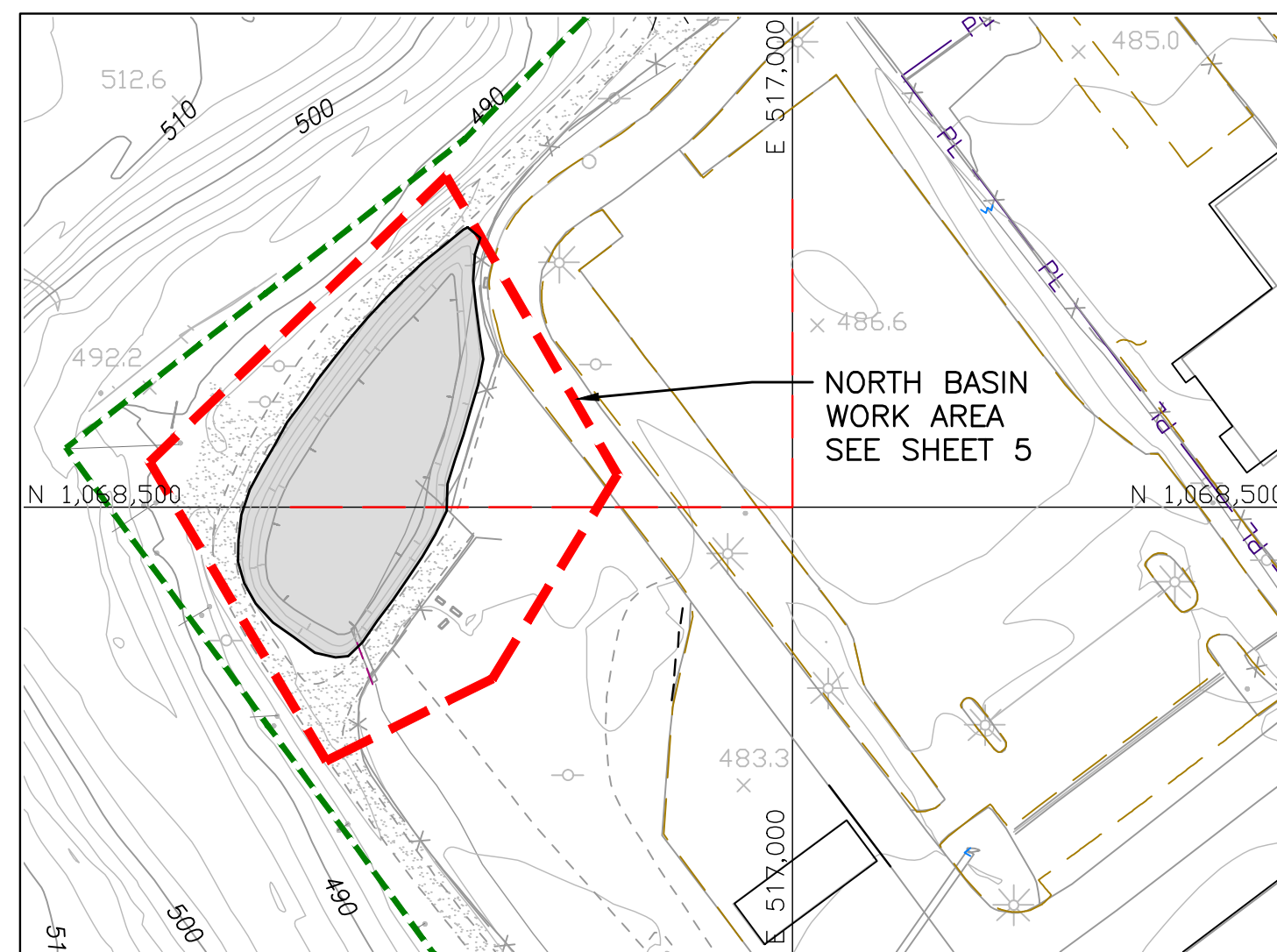
0 100 200  
SCALE IN FEET

#### LEGEND

- EXISTING SOLID WASTE BOUNDARY
- 470 EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- EXISTING FENCE
- LIGHT-DUTY ACCESS ROADS
- 458 PROPOSED TREATMENT PLANT CONTOURS

#### NOTES:

1. THE 2014 TOPOGRAPHIC MAP WAS PROVIDED BY COOPER AERIAL SURVEYORS, CO., PHOENIX, AZ. DATE OF PHOTO: 03/20/2014.
2. UTILITIES SHOWN TAKEN FROM DRAWING "INFRASTRUCTURE SITE PLAN 1Q" BY FEEZOR ENGINEERING, INC. DATED APRIL 2014.
3. THE PURPOSE OF THIS DRAWING IS TO SHOW THE PROJECT WORK AREA LOCATIONS FOR THE STORMWATER IMPROVEMENTS. SEE SHEETS 2 AND 5 - 7 FOR DETAILED DESIGN.
4. CONTRACTOR SHALL MANAGE STORMWATER AND INSTALL TEMPORARY DEVICES AS NECESSARY TO MANAGE, CONTROL AND COLLECT IMPACTED WATER WITHOUT MIXING IMPACTED WATER WITH STORMWATER DURING THE CONSTRUCTION OF THE PROJECT.
5. CONTRACTOR SHALL COORDINATE THE EXISTING FEATURES TO BE REMOVED, REPLACED OR MODIFIED WITH OWNER.
6. CONTRACTOR SHALL COORDINATE WORK WITH OWNER'S REPRESENTATIVE AND SURVEYOR AS REQUIRED TO ASSURE LEVEL OF OVERSIGHT, MONITORING, INSPECTION, AS-BUILT LOCATIONS AND ELEVATIONS ARE IN ACCORDANCE WITH OWNER'S DIRECTIVE FOR THESE ITEMS.
7. SEE SUMMARY OF WORK SPECIFICATION FOR OWNER SUPPLIED MATERIALS.
8. STAKING POINTS ARE GIVEN ON SHEET 14 FOR PROPOSED SUMPS, CHANNEL REGRADING, CULVERTS AND ROAD CROSSING REGRADING.



**NORTH BASIN LOCATION**

1" = 1/2" 0"

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	07/10/14	ADDENDUM 1	TAD	JGW	ASL	JGW
DATE OF ISSUE 06/25/14			DRAWN BY TAD/JRG		CHECKED BY ASL	
			DESIGNED BY JGW		APPROVED BY JGW	



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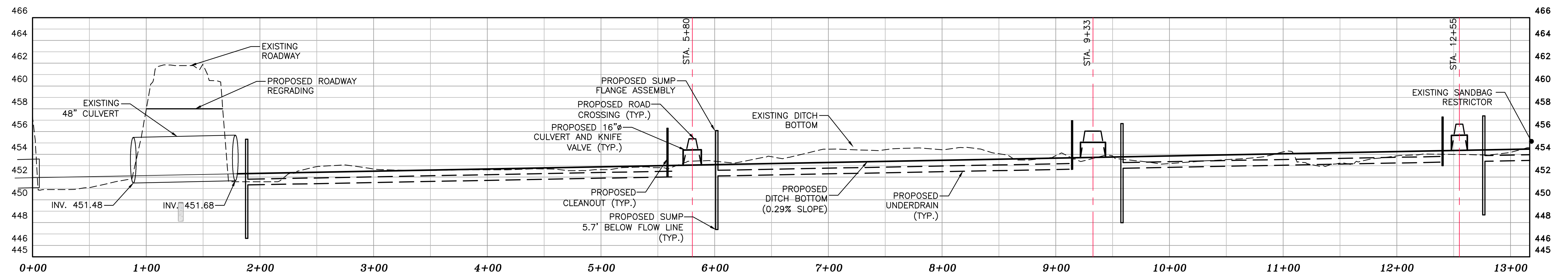
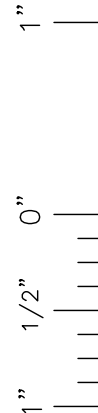
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BRIDGETON LANDFILL  
BRIDGETON, MISSOURI  
**2014 STORMWATER IMPROVEMENTS**  
**SOUTH QUARRY AREA**  
**SITE PLAN**

SHEET NO.  
**1**

PROJECT NO.  
140139





## WEST DITCH PROFILE

SCALE:  
HORIZ. 1" = 50'  
VERT. 1" = 5'

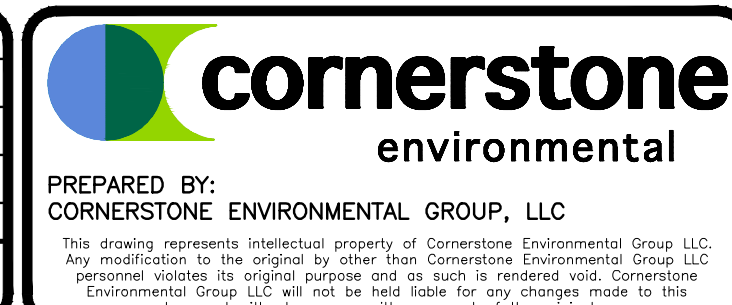
LEGEND

- |  |   |  |                              |
|--|---|--|------------------------------|
|  | EXISTING SOLID WASTE BOUNDARY                         |  | PROPOSED CULVERT             |
|  | EXISTING 10' CONTOUR                                  |  | PROPOSED UNDERDRAIN SUMP     |
|  | EXISTING 2' CONTOUR                                   |  | PROPOSED UNDERDRAIN          |
|  | EXISTING FENCE  |  | PROPOSED CLEAN OUT           |
|  | PROPOSED 10' CONTOUR                                  |  | PROPOSED CANAL GATE VALVE    |
|  | PROPOSED 2' CONTOUR                                   |  | PROPOSED KNIFE GATE VALVE    |
|  | PROPOSED DESIGN GRADES FOR WASTEWATER TREATMENT PLANT |  | EXISTING SUMPS TO BE REMOVED |
|  | PROPOSED EVOH FML REPAIR AREA                         |  |                              |
|  | EXISTING LIGHT-DUTY ACCESS ROADS                      |  |                              |

NOTES:

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2. UTILITIES SHOWN TAKEN FROM DRAWING "INFRASTRUCTURE SITE PLAN 1Q" BY FEEZOR ENGINEERING, INC. DATED APRIL 2014.
3. SEE SHEET 14 FOR STAKING POINTS FOR PROPOSED CHANNEL BOTTOM CENTERLINE AND UNDERDRAIN.
4. UNDERDRAIN STOPS AT CLEANOUTS AND BEGINS AGAIN AT UPSTREAM SUMP.

1	07/10/14	ADDENDUM 1				TAD	JGW	ASL	JGW
REV	DATE	DESCRIPTION				DWN BY	DES BY	CHK BY	APP BY
	DATE OF ISSUE 06/25/14	DRAWN BY TAD/JRG DESIGNED BY JGW				CHECKED BY	APPROVED BY	ASL	JGW



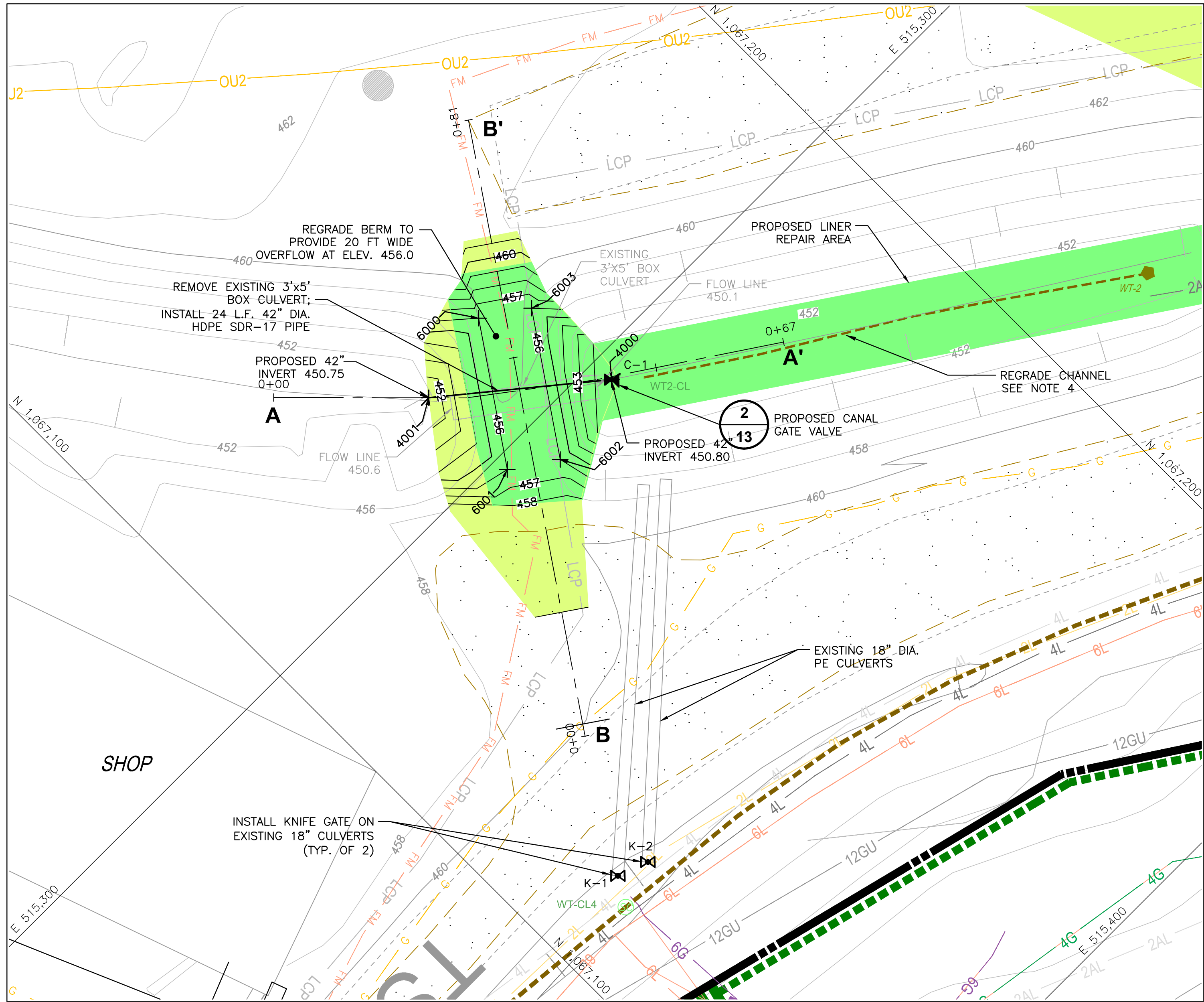
BRIDGETON LANDFILL, LLC.  
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BRIDGETON, MISSOURI  
**2014 STORMWATER IMPROVEMENTS  
SOUTH QUARRY AREA  
WEST WORK AREA PLAN**

SHEET NO.

2

PROJECT NO.  
140139





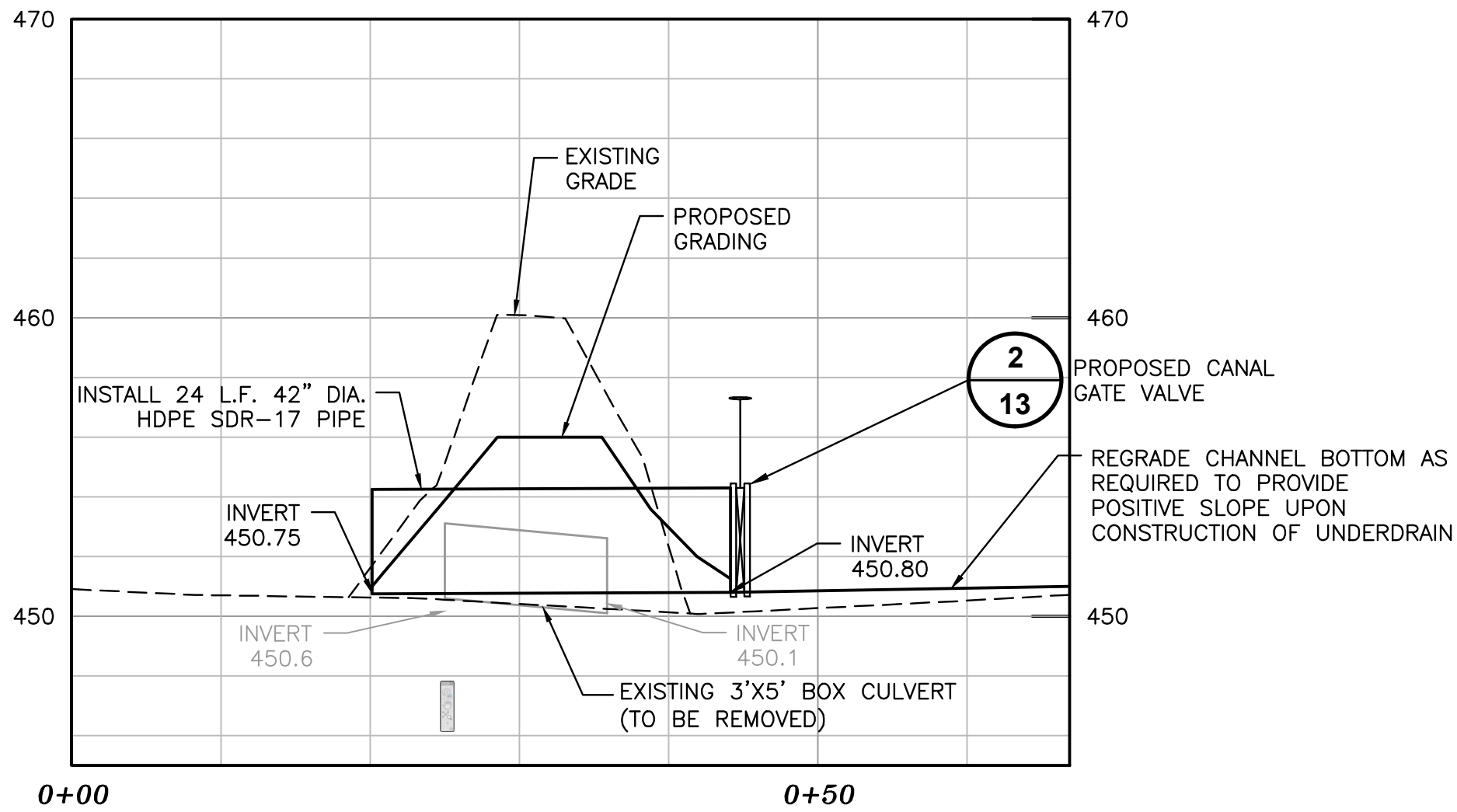
BOX CULVERT REPLACEMENT PLAN

LEGEND

- EXISTING SOLID WASTE BOUNDARY
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- EXISTING FENCE
- PROPOSED EVOH FML REPAIR AREA
- PROPOSED ROAD REGRADING AREA
- LIGHT-DUTY ACCESS ROADS
- PROPOSED CULVERT
- PROPOSED SUMP
- PROPOSED UNDERDRAIN
- PROPOSED CLEAN OUT
- PROPOSED CANAL GATE VALVE
- PROPOSED KNIFE GATE
- EXISTING SUMPS TO BE REMOVED
- PROPOSED STAKING POINTS

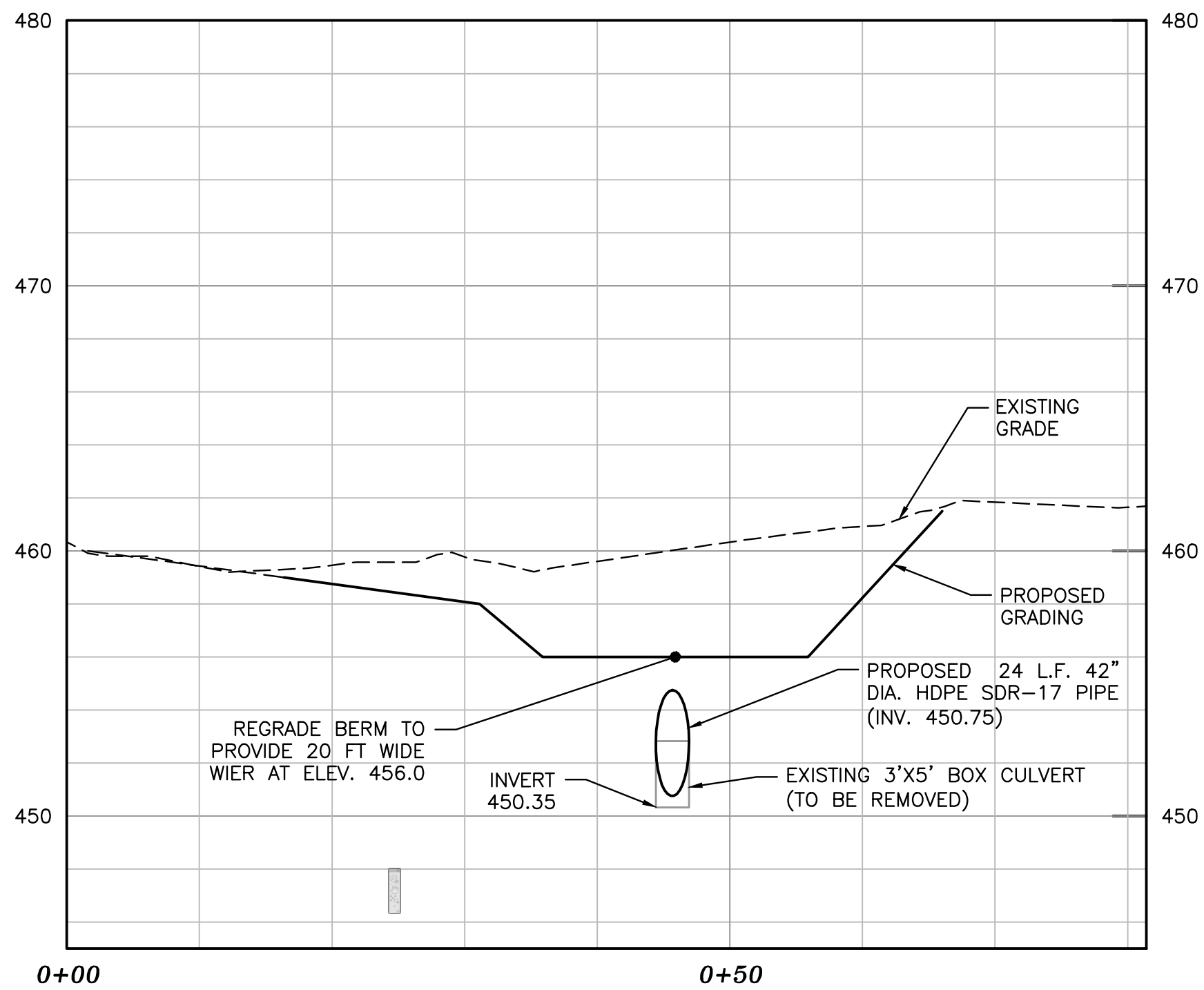
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- SEE SHEET 14 FOR CONSTRUCTION STAKING POINTS OF THE REPLACEMENT CULVERT AND ROAD CROSSING.
- REGRADE CHANNEL BOTTOM WITH CONTINUOUS POSITIVE SLOPE FROM OUTLET OF 48" CULVERT SHOWN ON SHEET 4 TO INLET OF PROPOSED 42" CULVERT SHOWN ON THIS SHEET.



PROFILE A - A'

SCALE:  
HORIZ. 1" = 10'  
VERT. 1" = 5'



PROFILE B - B'

SCALE:  
HORIZ. 1" = 10'  
VERT. 1" = 5'

1	07/10/14	ADDENDUM 1	TAD	JGW	ASL	JGW	
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY	
DATE OF ISSUE 06/25/14		DRAWN BY DESIGNED BY	TAD/JRG JGW		CHECKED BY APPROVED BY	ASL JGW	

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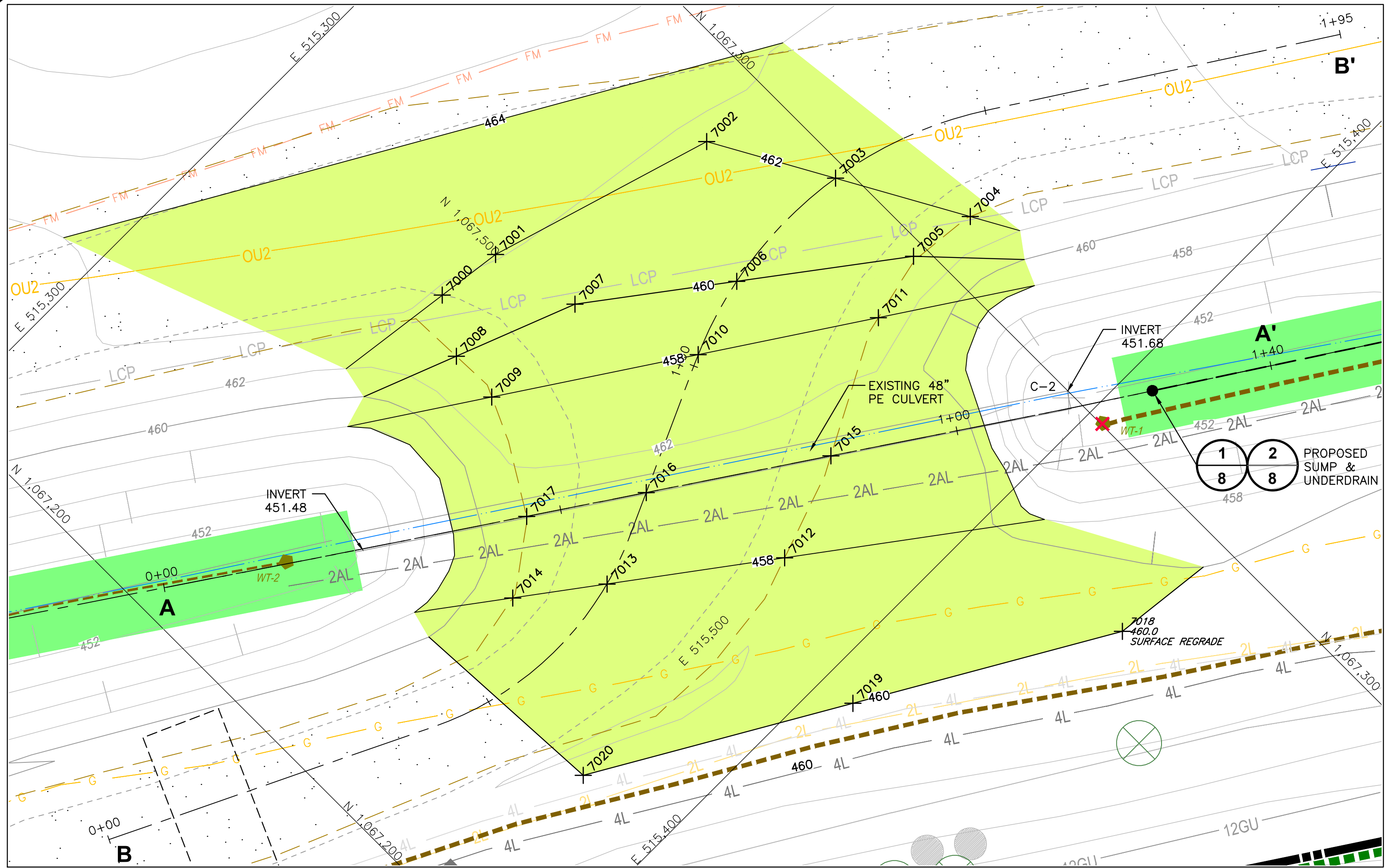
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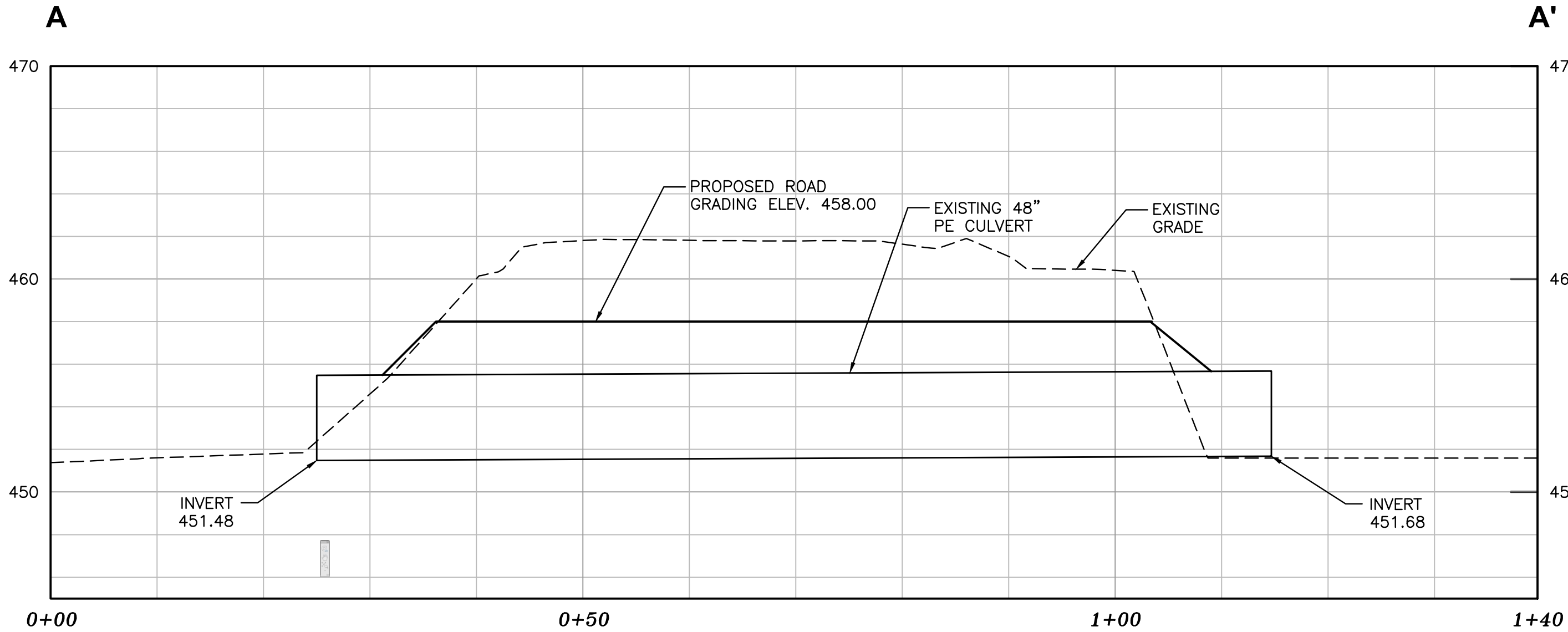
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2014 STORMWATER IMPROVEMENTS  
SOUTH QUARRY AREA  
BOX CULVERT & REPLACEMENT

SHEET NO.  
**3**  
PROJECT NO.  
140139

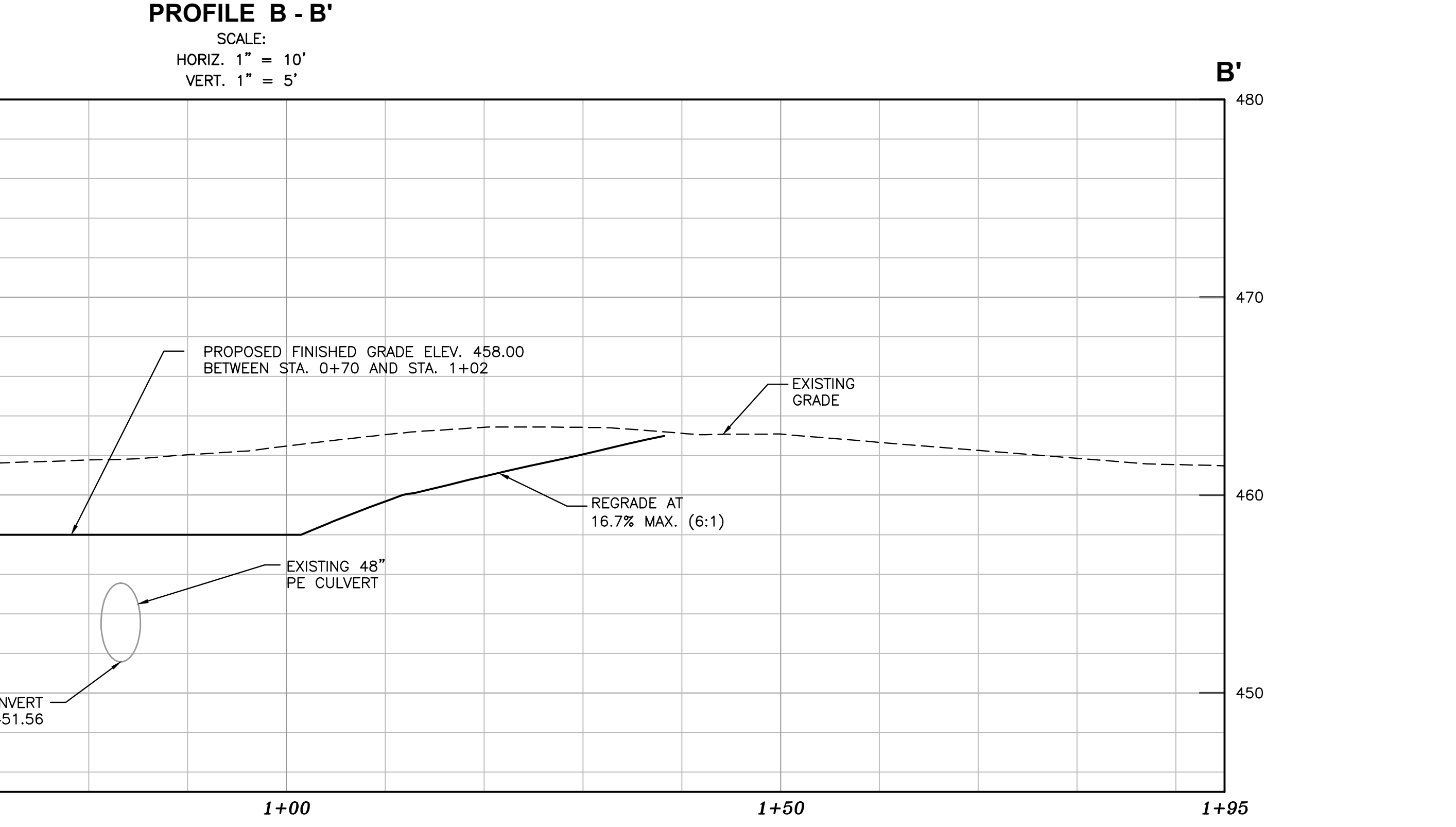




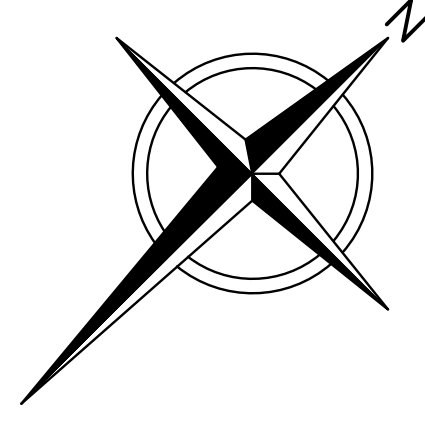
48" CULVERT REGRADE PLAN



PROFILE A - A'  
SCALE:  
HORIZ. 1" = 10'  
VERT. 1" = 5'



PROFILE B - B'  
SCALE:  
HORIZ. 1" = 10'  
VERT. 1" = 5'



0 10 20  
SCALE IN FEET

LEGEND

- EXISTING SOLID WASTE BOUNDARY
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- EXISTING FENCE
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- PROPOSED ROAD REGRADE AREA
- PROPOSED EVOH FML REPAIR AREA
- LIGHT-DUTY ACCESS ROADS
- PROPOSED SUMP
- PROPOSED UNDERDRAIN
- PROPOSED CLEAN OUT
- PROPOSED CANAL GATE VALVE
- EXISTING SUMPS
- PROPOSED STAKING POINTS

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  - SEE SHEET 14 FOR CONSTRUCTION STAKING POINTS FOR THE REGRAIDING OF THE ROAD CROSSING.

1	07/10/14	ADDENDUM 1	TAD	JGW	ASL	JGW
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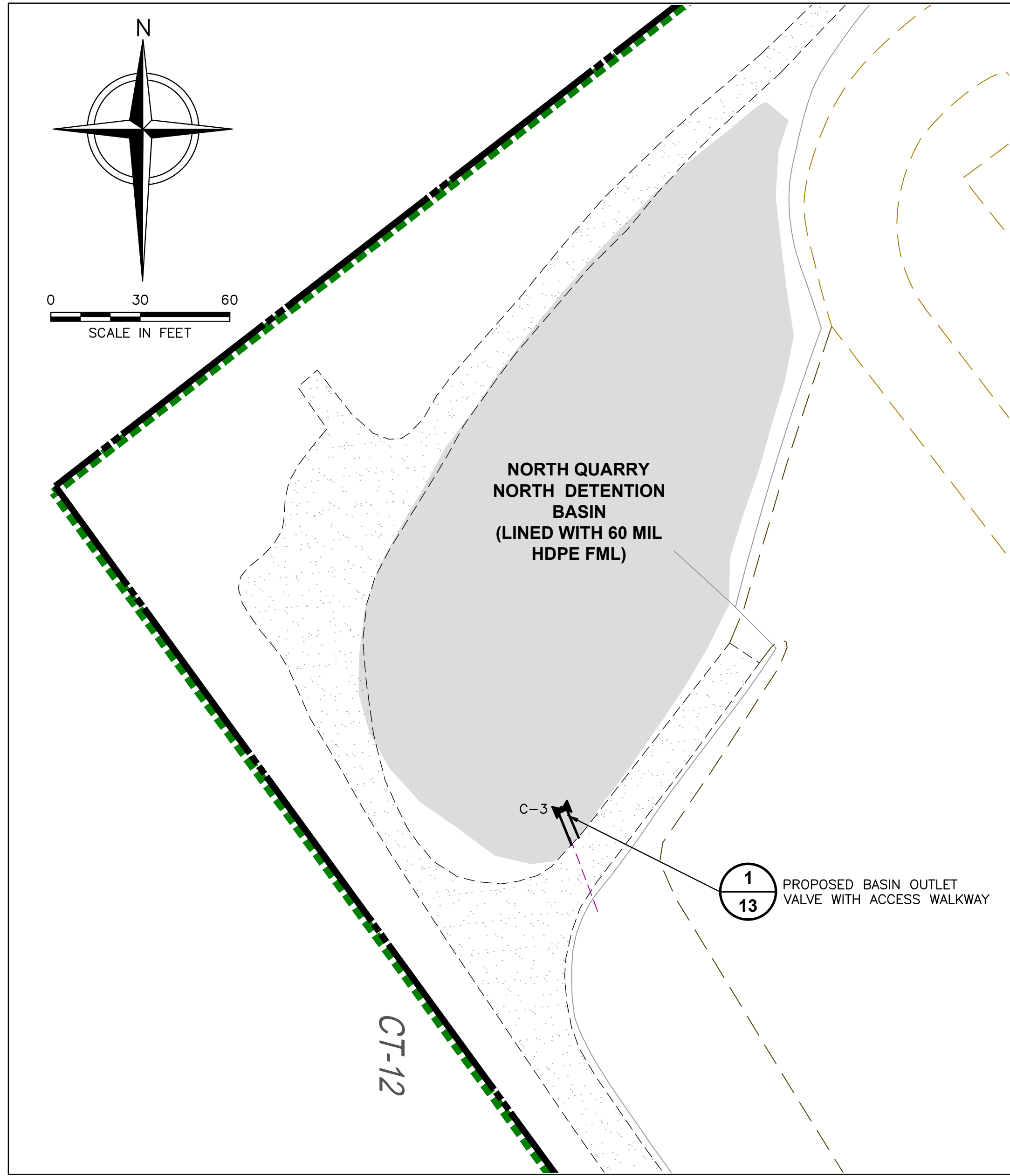
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**2014 STORMWATER IMPROVEMENTS**  
**SOUTH QUARRY AREA**  
**48" CULVERT & ROAD REGRADE**

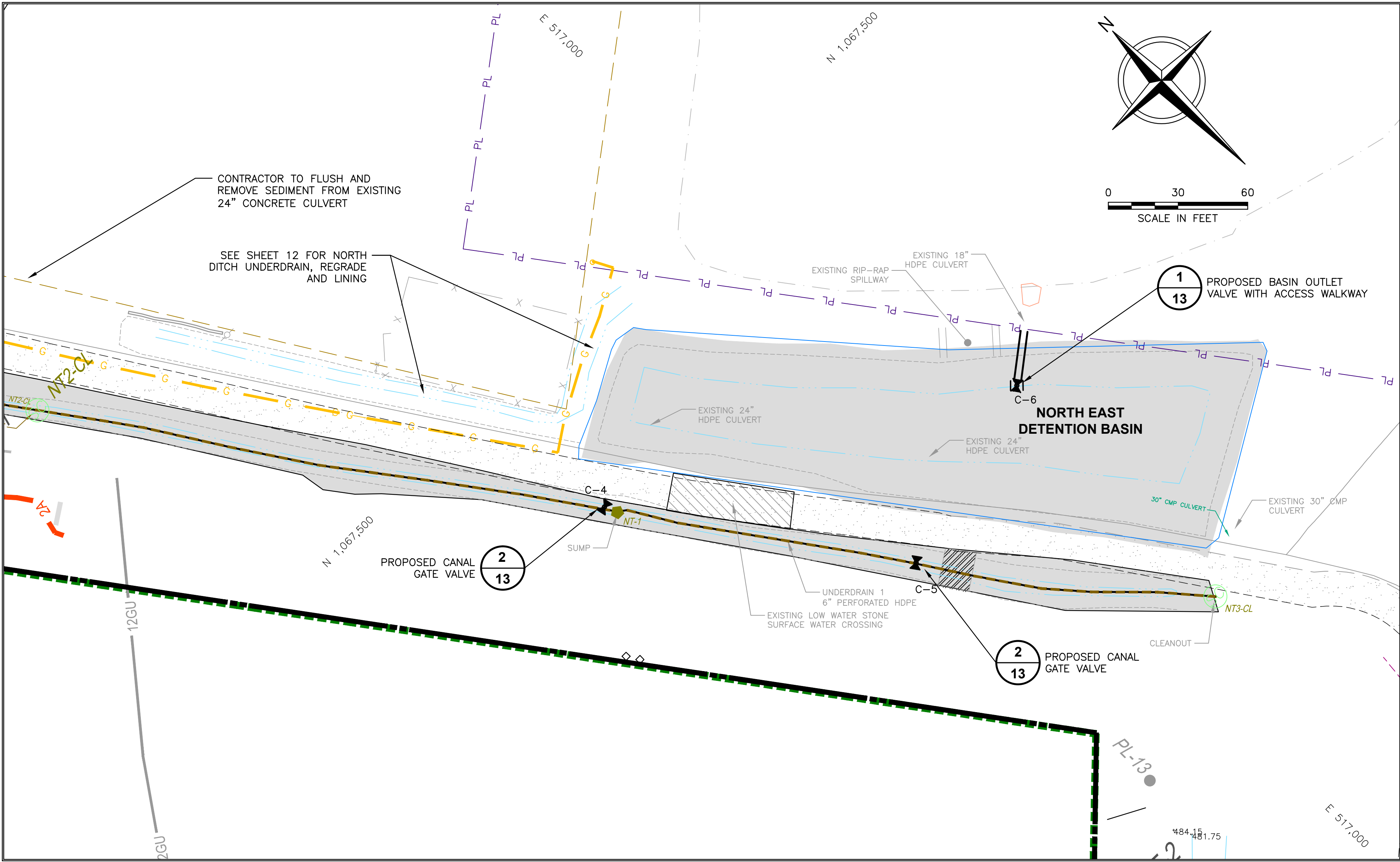
SHEET NO.  
**4**  
PROJECT NO.  
140139



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**NORTH QUARRY  
NORTH DETENTION BASIN**



**NORTH EAST  
DETENTION BASIN**

**LEGEND**

- EXISTING SOLID WASTE BOUNDARY
- PL PL FACILITY BOUNDARY
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- EXISTING FENCE
- EXISTING LINED AREA FOR STORMWATER MANAGEMENT FEATURE
- LIGHT-DUTY ACCESS ROADS
- PROPOSED CANAL GATE VALVE

**NOTES:**

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3. SEE SHEET 14 FOR STAKING POINTS FOR THE PROPOSED NORTH DITCH AND UNDERDRAIN.

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DATE OF ISSUE	06/25/14	DRAWN BY TAD/JRG DESIGNED BY JGW	CHECKED BY ASL	APPROVED BY JGW		

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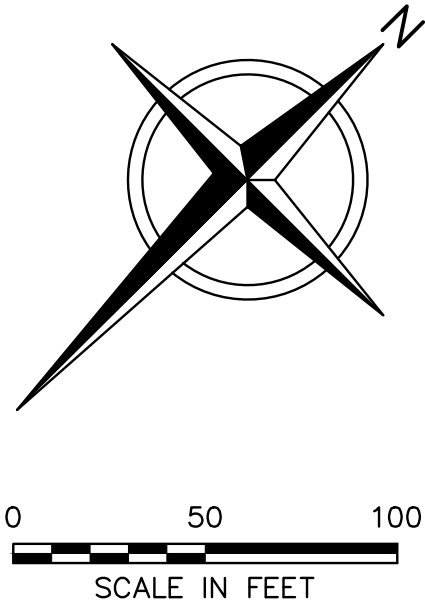
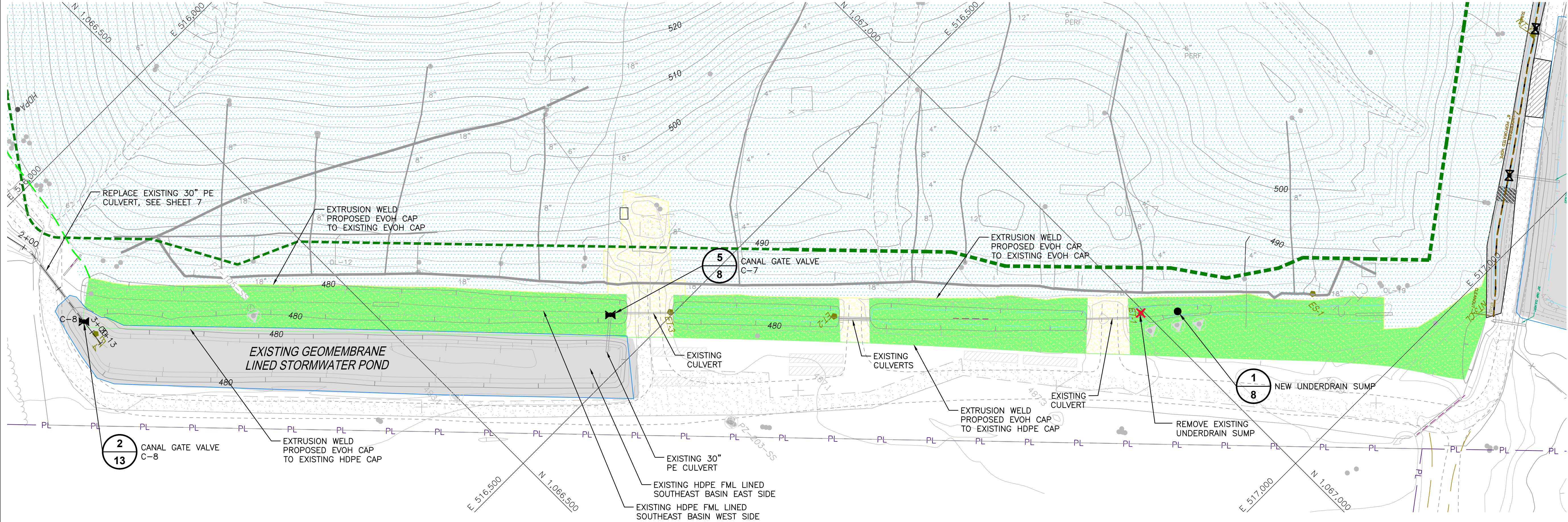
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**2014 STORMWATER IMPROVEMENTS  
SOUTH QUARRY AREA  
NORTH/NORTHEAST WORK AREA PLAN**

SHEET NO.  
**5**  
PROJECT NO.  
140139



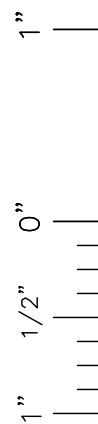


LEGEND

- EXISTING SOLID WASTE BOUNDARY
- - - - - EXISTING 10' CONTOUR
- - - - - EXISTING 2' CONTOUR
- - - - - EXISTING FENCE
- ===== EXISTING LINED AREA FOR STORMWATER MANAGEMENT FEATURE
- ===== LIGHT-DUTY ACCESS ROADS
- PROPOSED UNDERDRAIN SUMP
- ⌵ PROPOSED CANAL GATE VALVE
- ⌵ PROPOSED KNIFE GATE
- ✗ ET-1 EXISTING SUMPS TO BE REMOVED
- ===== EXISTING HDPE FML
- ===== EXISTING EVOH FML
- ===== PROPOSED 60 MIL EVOH FML

NOTES:

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REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY			
	DATE OF ISSUE	DRAWN BY	TAD/JRG	CHECKED BY	ASL				
	06/25/14	DESIGNED BY	JGW	APPROVED BY	JGW				



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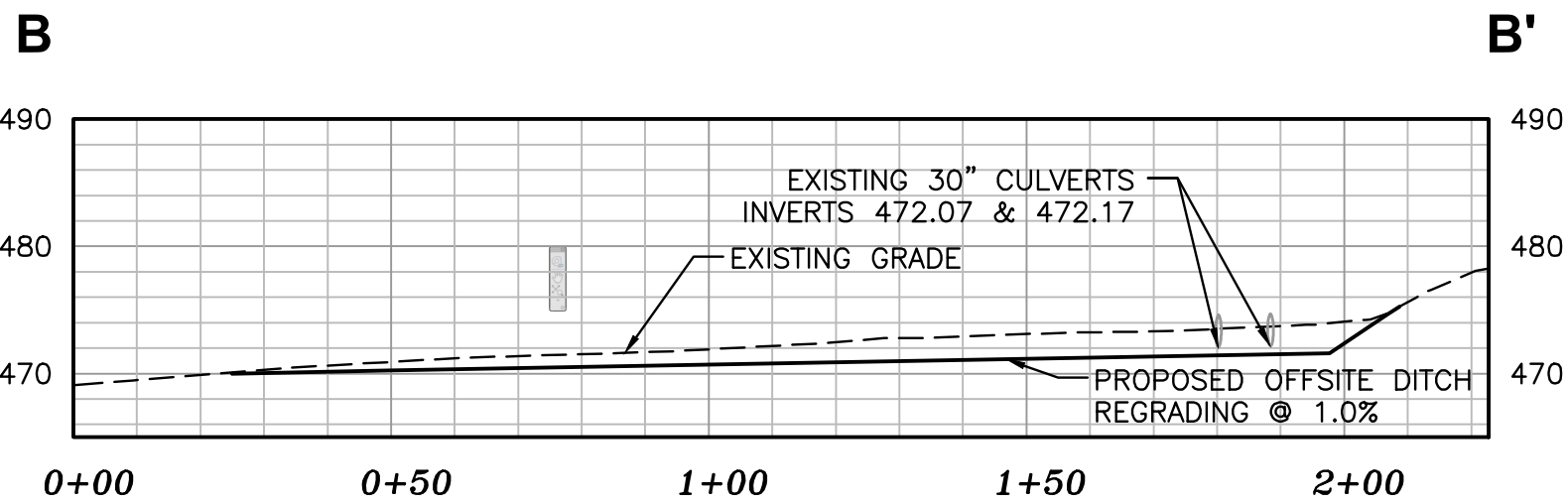
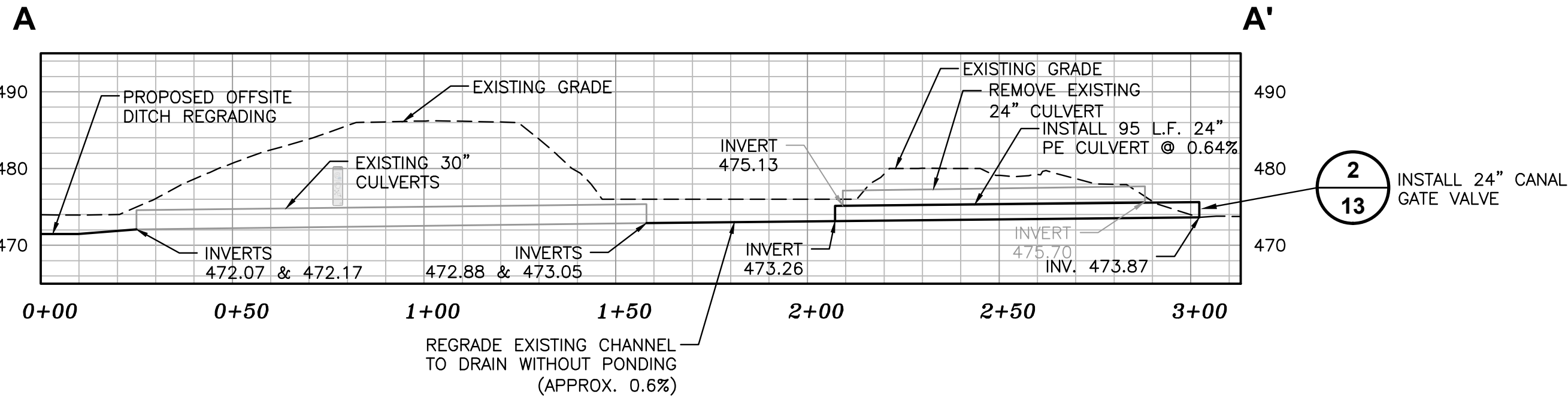
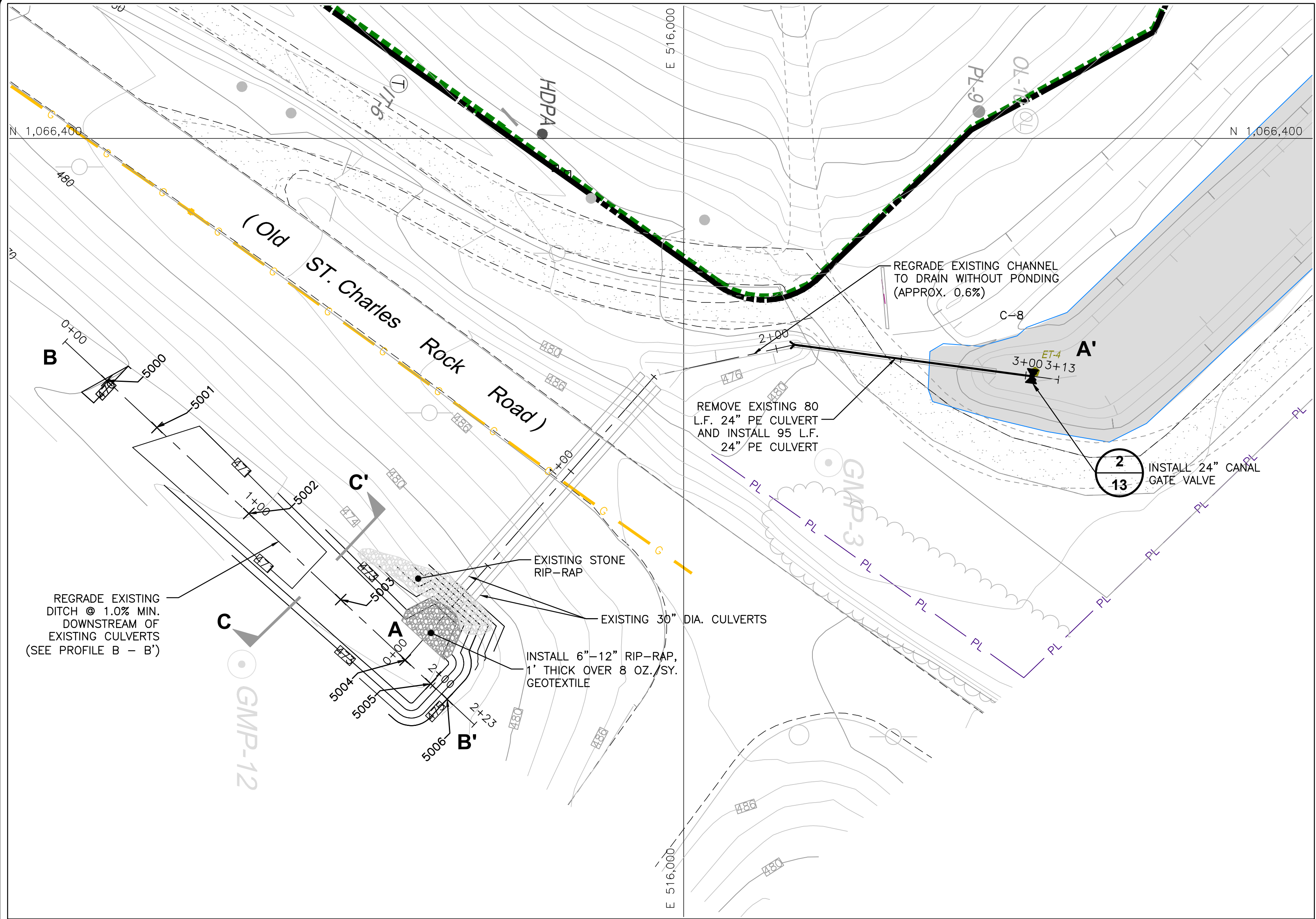
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**2014 STORMWATER IMPROVEMENTS**  
**SOUTH QUARRY AREA**  
**SOUTHEAST WORK AREA PLAN**

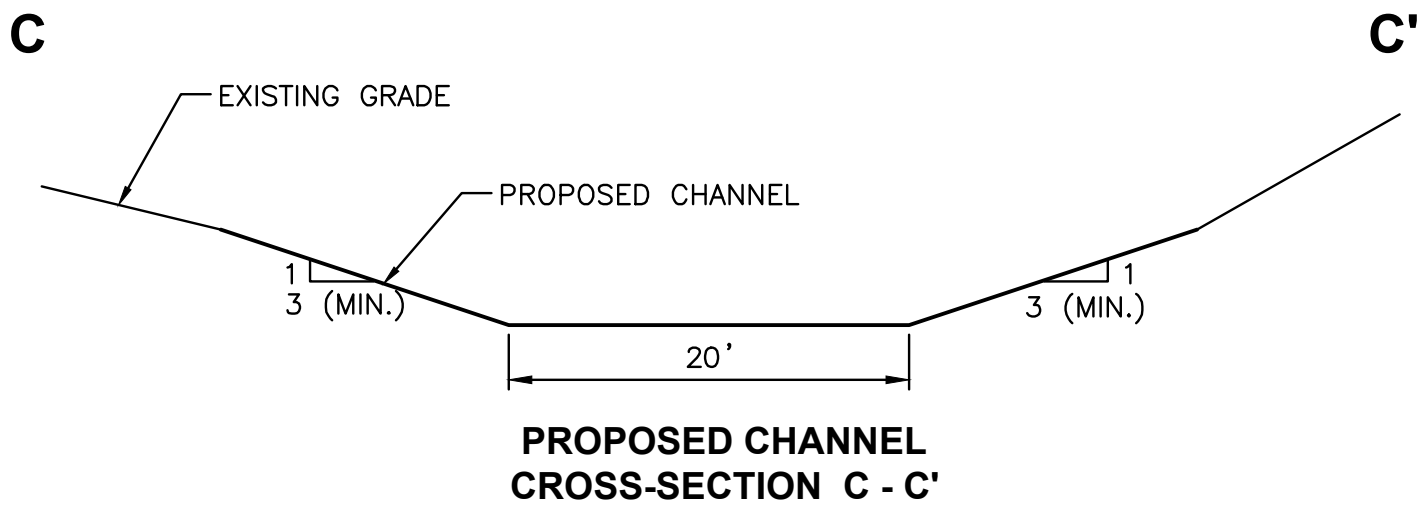
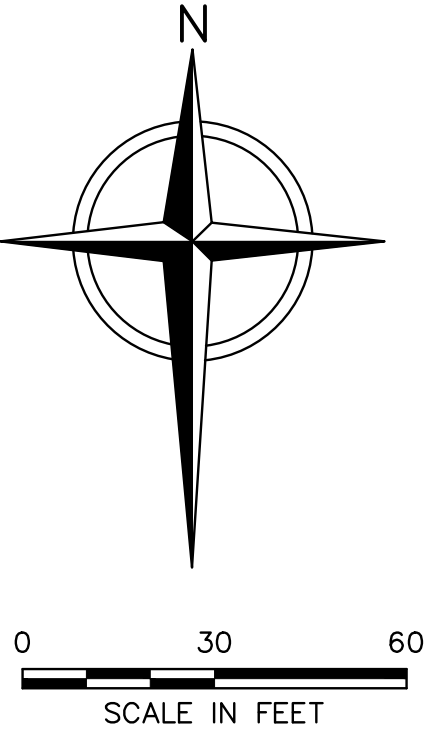
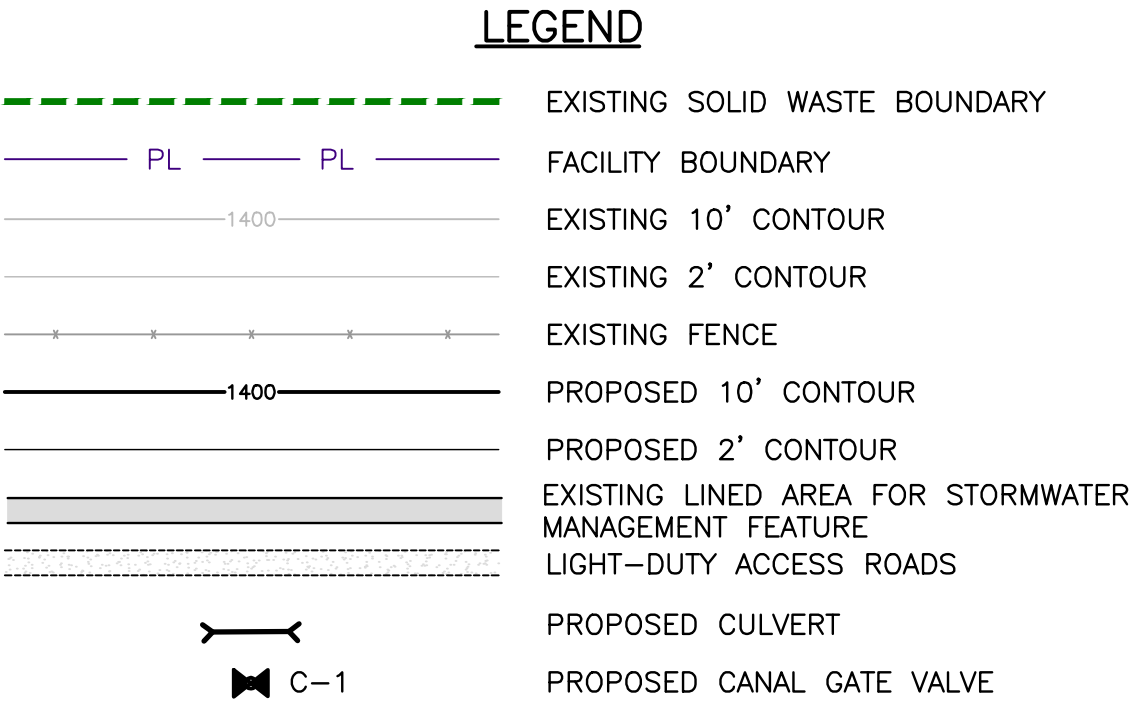
SHEET NO.  
**6**

PROJECT NO.  
140139





## SOUTH DITCH REGRADING PLAN



- NOTES:**
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  - UTILITIES SHOWN TAKEN FROM DRAWING "INFRASTRUCTURE SITE PLAN 1Q" BY FEEZOR ENGINEERING, INC. DATED APRIL 2014.
  - FOR REQUIRED WORK ON SOUTH SIDE OF OLD ST. CHARLES ROCK ROAD, CONTRACTOR SHALL:
    - MAKE REQUIRED NOTIFICATION TO MOCA (1-800-344-7483) FOR MARKING OF EXISTING UTILITIES AT LEAST 3 WORKING DAYS PRIOR TO EXCAVATION..
    - MINIMIZE DISTURBANCE TO EXISTING GRASSED SLOPES AND PAVEMENT OUTSIDE PROJECT LIMITS AND RESTORE TO PRECONSTRUCTION CONDITIONS.
    - INSTALL EROSION CONTROL DEVICES SUCH AS STRAW BALES, SILT FENCING, ETC. AT DOWNSTREAM END OF PROJECT LIMITS.
    - FLUSH AND COLLECT SEDIMENT FROM EXISTING PIPES (APPROXIMATELY 900 C.F.) TO PREVENT SILTATION OF DOWNSTREAM CHANNEL.
    - REMOVE AND STOCKPILE EXISTING STONE RIPRAP, AS NECESSARY, AT CULVERT OUTLETS AND TOPSOIL IN CHANNEL AREA FOR REUSE.
    - EXCAVATE CHANNEL TO PROPOSED GRADES WITH ALLOWANCE FOR RIPRAP THICKNESS AT OUTLET OF EXISTING PIPES.
    - HAUL EXCAVATED SOIL (APPROXIMATELY 236 C.Y.) TO OWNER DIRECTED BRIDGETON LANDFILL SITE STOCKPILE AREA USING PROTECTIVE MATERIALS ON ROADWAYS AND GRASSED EMBANKMENTS AS NECESSARY TO MINIMIZE DAMAGE.
    - REPLACE EXISTING TOPSOIL IN REGRADED CHANNEL.
    - AT OUTLETS OF EXISTING PIPES, INSTALL MINIMUM 12 OZ/SY GEOTEXTILE BELOW RIPRAP AND INSTALL EXISTING RIPRAP AND SUPPLEMENT EXISTING RIPRAP AS NECESSARY TO EXTEND ACROSS OUTLET CHANNEL A MINIMUM DISTANCE OF 105 FEET FROM PIPE OUTLETS.
    - CONTACT OWNER'S SURVEYOR FOR VERIFICATION OF CONSTRUCTED CHANNEL GRADES.
    - INSTALL APPROXIMATELY 245 S.Y. OF SOD IN REGRADED CHANNEL AND CHANNEL SLOPE AREA.
    - CLEANUP SITE AND RESTORE ANCILLARY AREAS AS REQUIRED TO PREEXISTING CONDITIONS.
    - REMOVE EROSION CONTROL DEVICES.

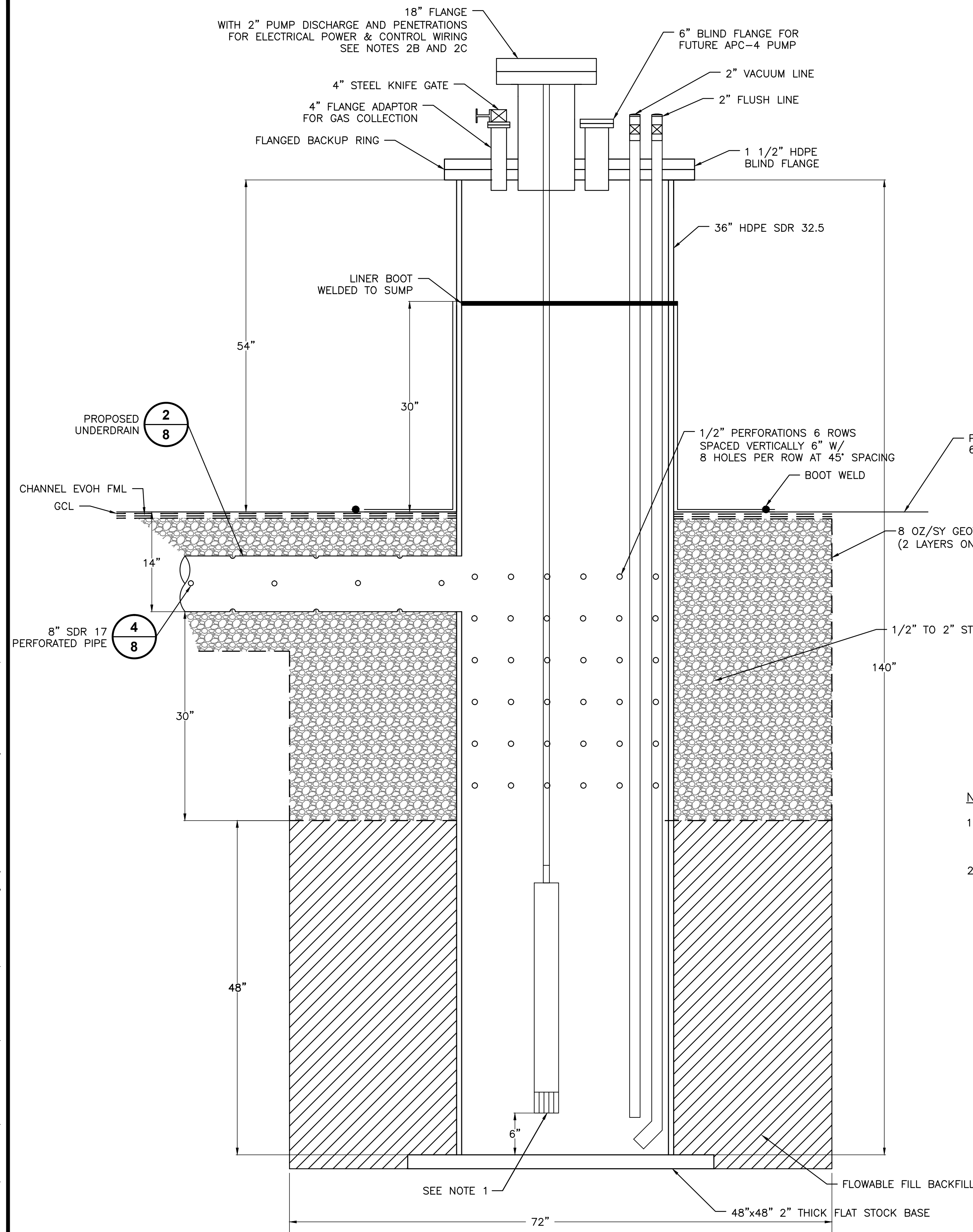
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**2014 STORMWATER IMPROVEMENTS  
SOUTH QUARRY AREA  
SOUTH END WORK AREA PLAN**

SHEET NO.  
**7**  
PROJECT NO.  
140139

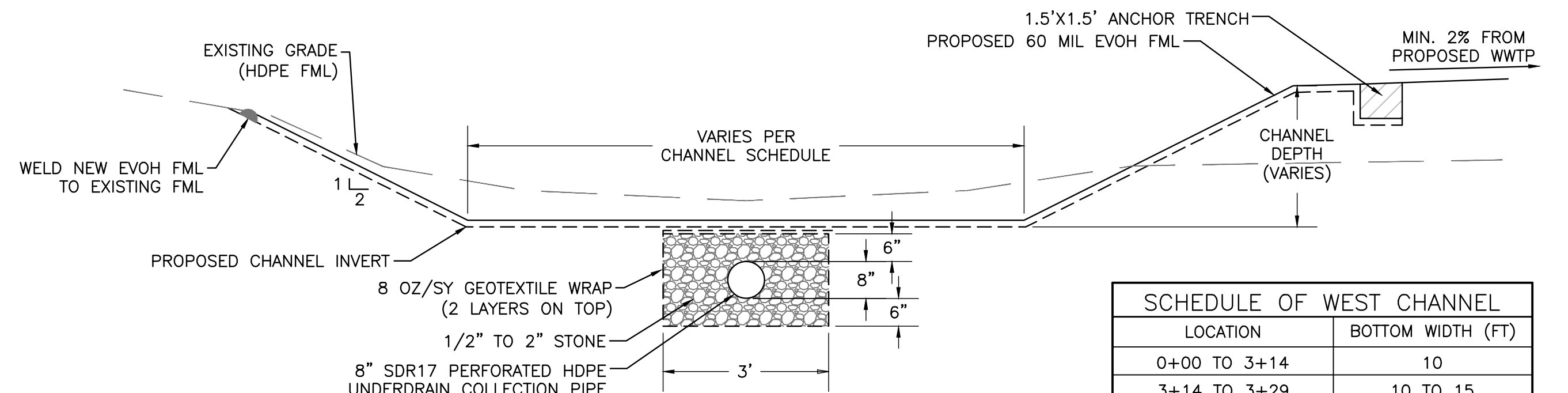




### UNDERDRAIN SUMP DETAIL

## DETAIL


SCALE: NOT TO SCALE

$$\frac{1}{8}$$


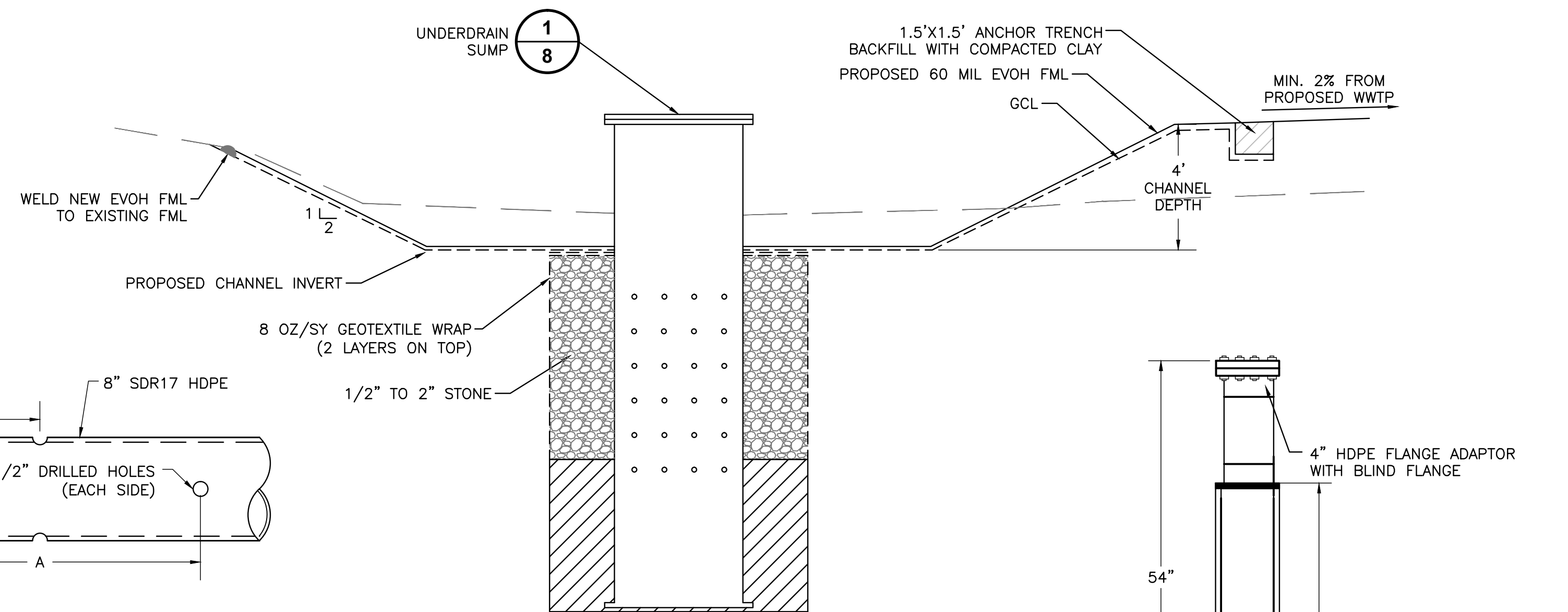
**WEST CHANNEL  
PROPOSED UNDERDRAIN**

## DETAIL

SCALE: NOT TO SCALE



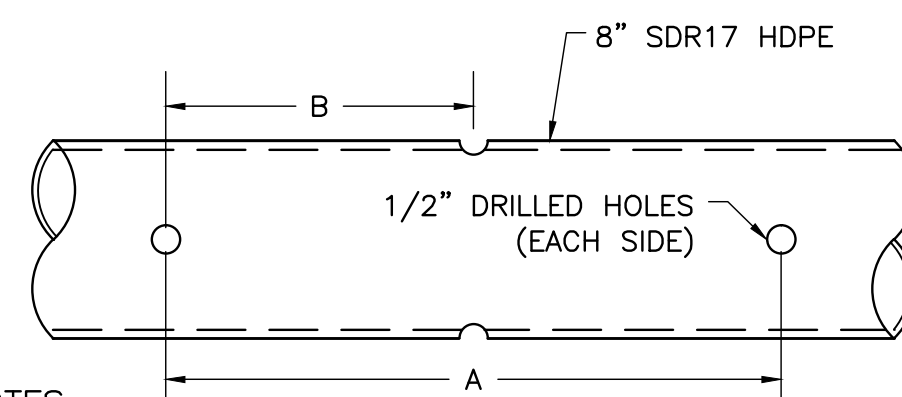

SCHEDULE OF WEST CHANNEL	
LOCATION	BOTTOM WIDTH (FT)
0+00 TO 3+14	10
3+14 TO 3+29	10 TO 15
3+29 TO 13+13	15



### UNDERDRAIN SUMP IN CHANNEL

## DETAIL

SCALE: NOT TO SCALE




NOTES:

1. A=12"  
B=6"  
90° ROTATION BETWEEN ROWS
2. ALTERNATIVE PATTERN MAY BE USED WITH APPROVAL OF ENGINEER.

### UNDERDRAIN COLLECTION PIPE

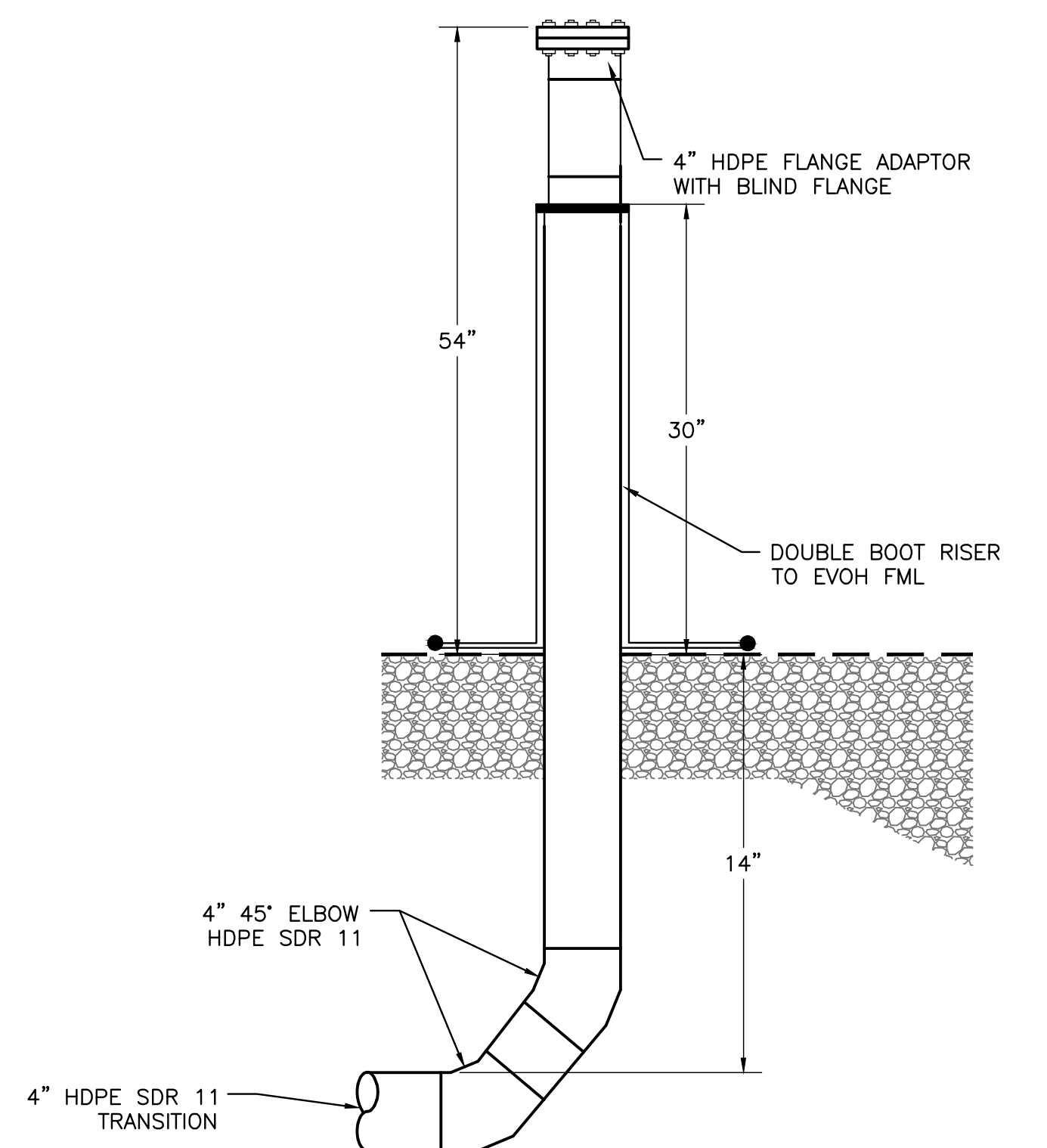
## DETAIL

SCALE: NOT TO SCALE



NOTES: DETAIL 1/8

1. UNDERDRAIN SUMP PUMP AND CONTROLS TO BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR AS PART OF SUMP INSTALLATION.
2. UNDERDRAIN SUMP BLIND FLANGE LID FITTINGS TO INCLUDE THE FOLLOWING AS PART OF SUMP SUPPLY AND INSTALL:
  - A. 1- 18" HDPE RISER WITH 18" BLIND FLANGE, FLANGE ADAPTER, BACKUP RING WITH BOLTS FOR PUMP ACCESS
  - B. PENETRATIONS AND ASSOCIATED FITTINGS FOR PUMP DISCHARGE, PUMP POWER AND PUMP CONTROLS AS DIRECTED BY OWNER.
  - C. CONNECTIONS FROM PUMP DISCHARGE PENETRATION IN 18" BLIND FLANGE LID TO 2" SS BALL VALVE/CAMLOCK/4" LONG HIGH PRESSURE STEEL BRAIDED HOSE/CAMLOCK WHICH CONNECTS TO NEW 2" SDR 11 HDPE X 4" SDR 17 HDPE DOUBLE-WALLED FORCEMAIN EXTENDING TO EXISTING DOUBLE-WALLED FORCEMAIN AT NEAR WASTE BOUNDARY. CONNECT NEW DOUBLE-WALLED 2" X 4" TO EXISTING DOUBLE-WALLED FORCEMAIN BY DOUBLE-WALLED TEE CONNECTION. CONTACT OWNER FOR SPECIFIC REQUIREMENTS AND FITTINGS. LOCATION AND SIZE OF EXISTING DOUBLE-WALLED FORCEMAIN IS NOT AVAILABLE FROM ENGINEER, CONTACT OWNER FOR THIS INFORMATION.
  - D. 1 - 4" SDR 17 HDPE RISER WITH 4" STEEL KNIFE GATE, FLANGE ADAPTER, BACKUP RING WITH BOLTS FOR GAS COLLECTION
  - E. 1 - 2" SDR 17 HDPE DROP PIPE AND 2" FLANGE ADAPTER, BACKUP RING WITH BOLTS, NIPPLE, SS THREADED BALL VALVE AND CAMLOCK FOR LIQUID EXTRACTION
  - F. 1 - 2" SDR 17 HDPE DROP PIPE WITH 45 BEND AND 2" FLANGE ADAPTER, BACKUP RING WITH BOLTS, NIPPLE, SS THREADED BALL VALVE AND CAMLOCK FOR LIQUID JETTING



### UNDERDRAIN CLEANOUT RISER

## DETAIL

SCALE: NOT TO SCALE

[illegible]

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SOUTH QUARRY AREA  
DETAILS**

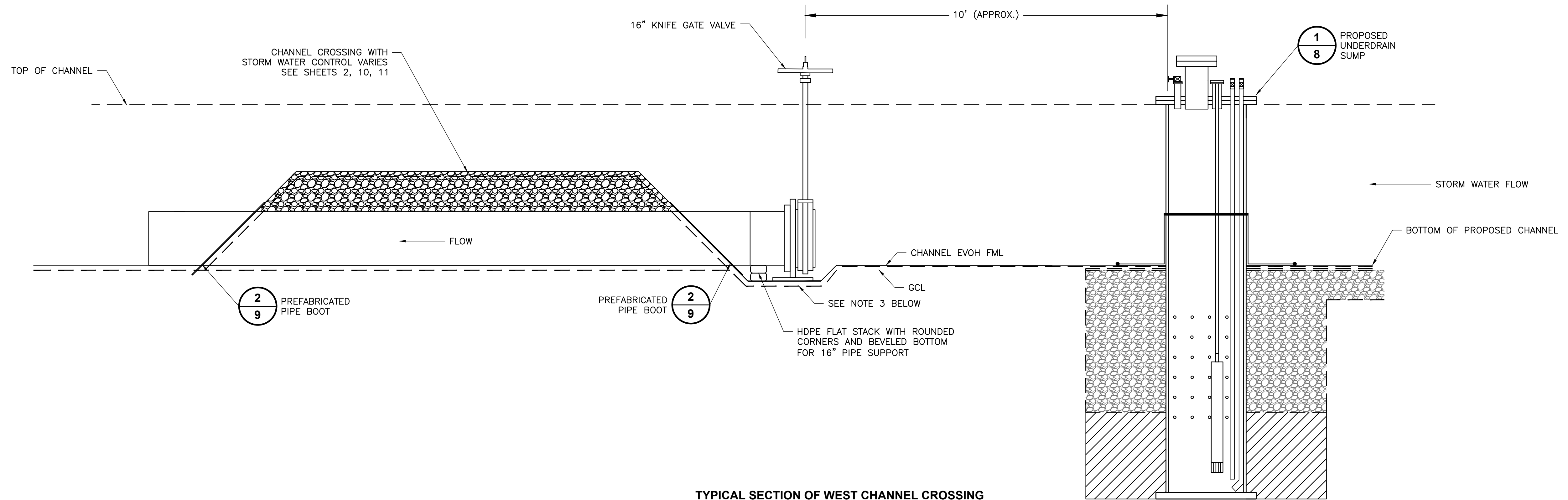
HEET NO.

3

PROJECT NO. \_\_\_\_\_

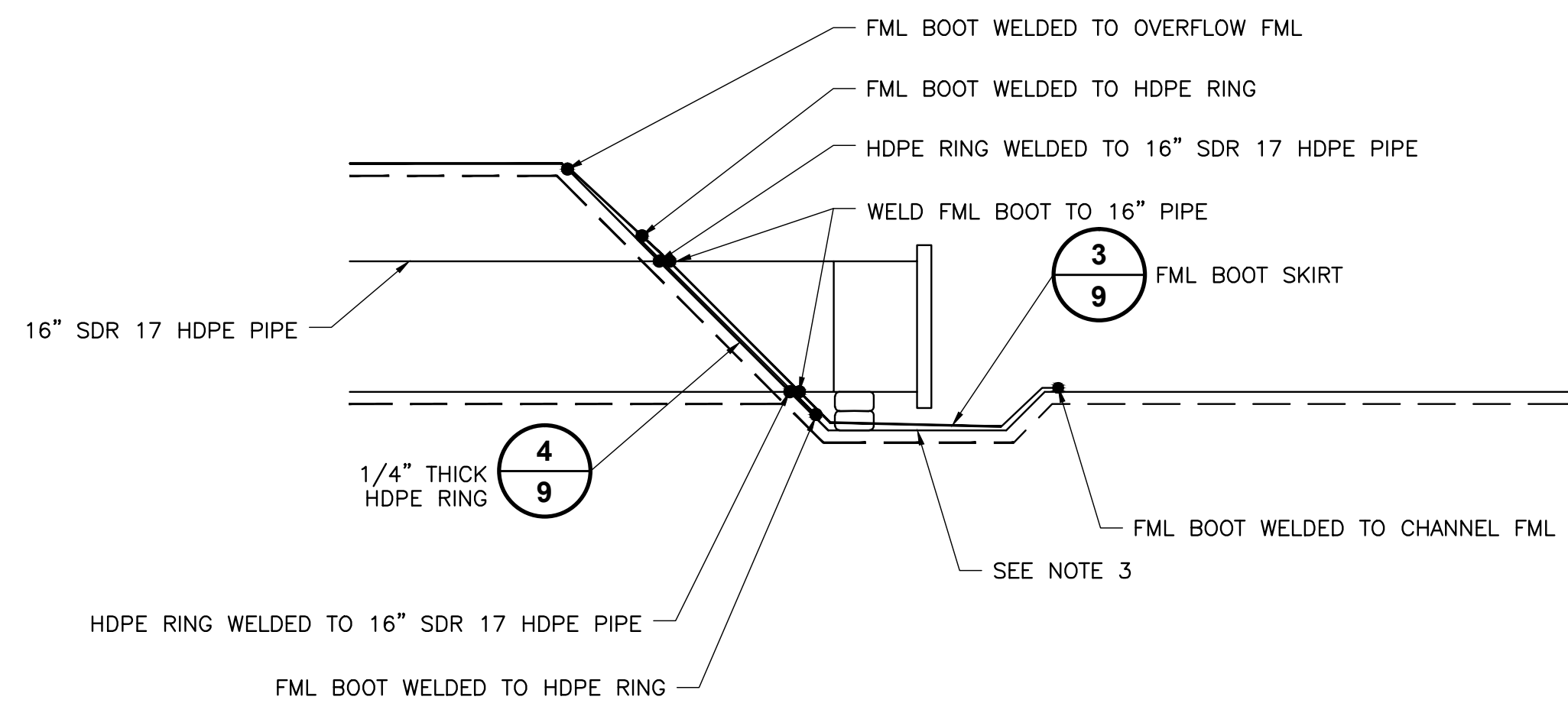
0139





TYPICAL SECTION OF WEST CHANNEL CROSSING  
WITH STORM WATER CONTROL VALVE

**DETAIL** 1  
9  
SCALE: NOT TO SCALE

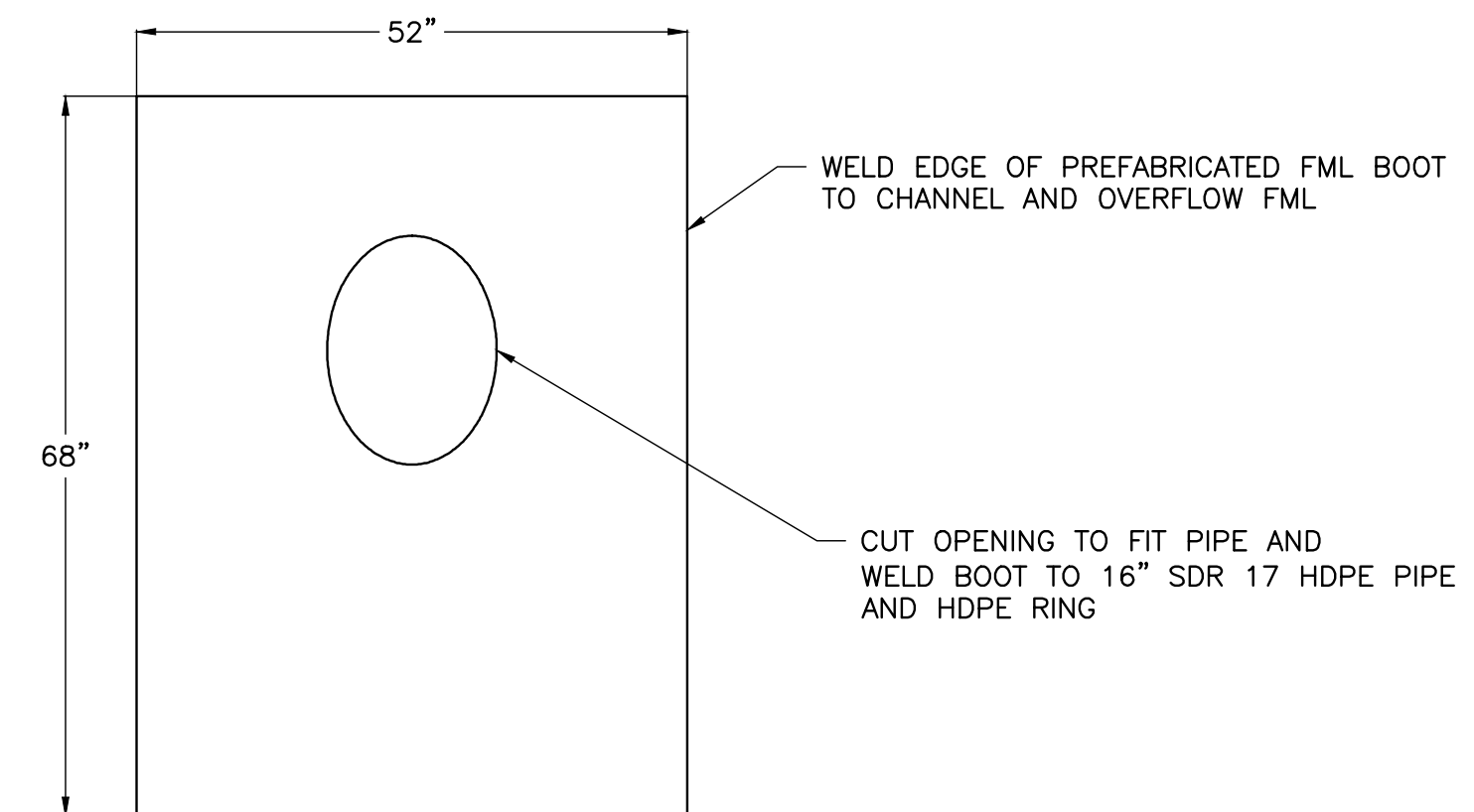


PREFABRICATED BOOT  
INSTALLATION

**DETAIL** 2  
9  
SCALE: NOT TO SCALE

**NOTES:**

1. IN ORDER TO PROVIDE A SECURE BOOT AT THE ENDS OF THE 16" PIPE TO WITHSTAND MOVEMENT AND STORMWATER FLOW, PREFABRICATED BOOTS SHALL BE CONSTRUCTED PRIOR TO PLACEMENT OF THE 16" PIPE. THE PREFABRICATED BOOTS SHALL CONSIST OF A ROUNDED RING OF 1/4 INCH THICK HDPE PLATE EXTRUSION WELDED TO THE 16" PIPE AND THEN A FML SKIRT SHALL BE WELDED TO THE RING. THE PIPE IS TO THEN BE INSTALLED AND THE SKIRT SHALL BE WELDED TO THE CHANNEL FML LINER.
2. THE 1/4 INCH HDPE ROUNDED RING SHALL BE WELDED AT AN ANGLE TO ACCOMMODATE THE 1:1 SIDE SLOPE OF THE RAISED OVERFLOW. THE SKIRT SHALL EXTEND PAST THE FLANGE ADAPTOR AND KNIFE GATE VALVE.
3. IN THE VICINITY OF THE KNIFE GATE VALVE, THE LINER MAY HAVE TO BE RECESSED OR DIPPED UNDERNEATH THE COMPONENTS AND ADDITIONAL PROTECTION PROVIDED FOR THE LINER SUCH AS 1" HDPE PLATE STOCK. FILL DEPRESSIONS WITH CLAY SOIL OR FLOWABLE FILL.



PREFABRICATED BOOT  
SKIRT

**DETAIL** 3  
9  
SCALE: NOT TO SCALE

1	07/10/14	ADDENDUM 1	TAD	JGW	ASL	JGW
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
DATE OF ISSUE	06/25/14	DRAWN BY JRG	CHECKED BY ASL	DESIGNED BY JGW	APPROVED BY JGW	

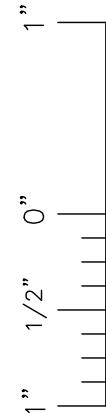


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**SOUTH QUARRY AREA**  
**DETAILS**

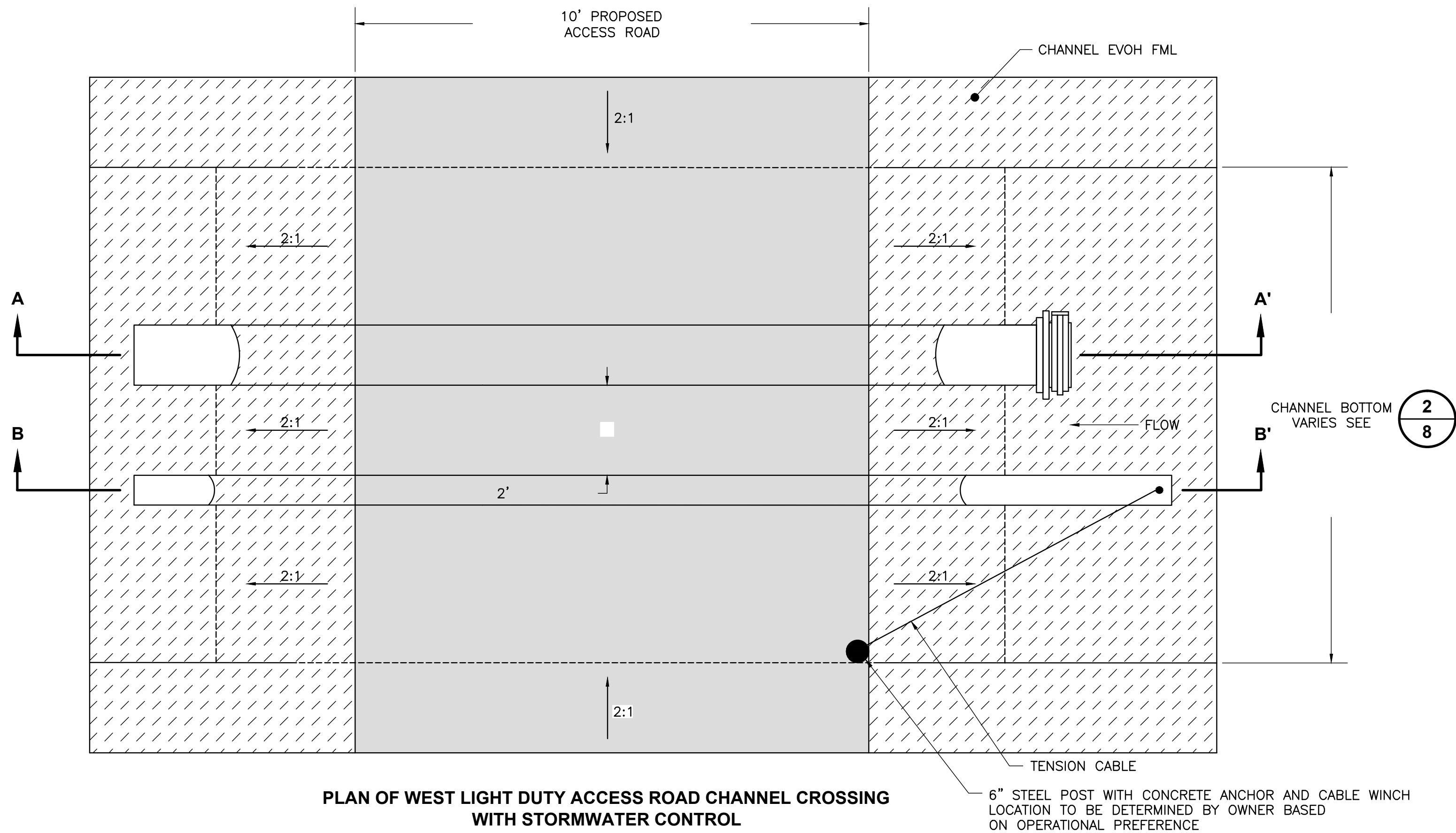
SHEET NO.

**9**

PROJECT NO.  
140139







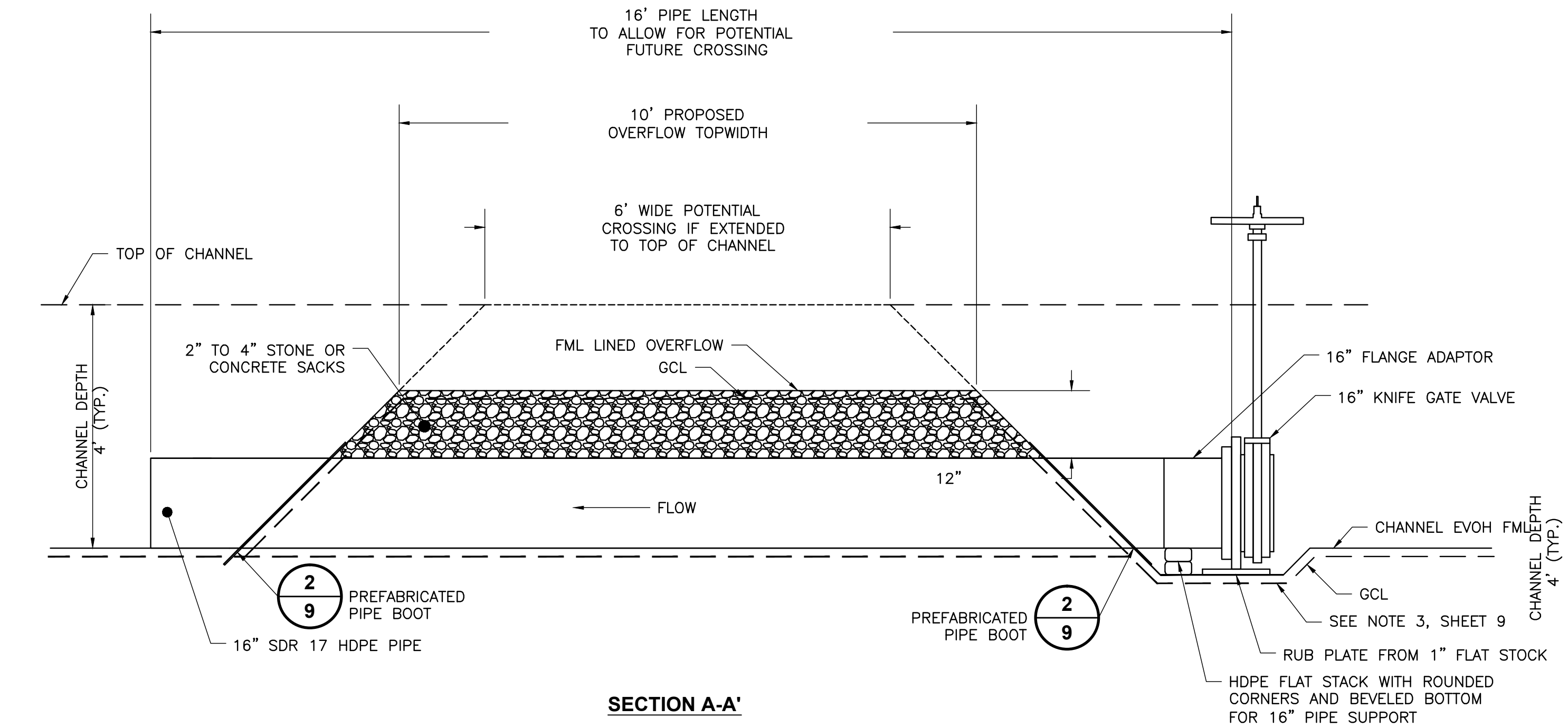
PLAN OF WEST LIGHT DUTY ACCESS ROAD CHANNEL CROSSING  
WITH STORMWATER CONTROL

**DETAIL**  
SCALE: NOT TO SCALE  
**1**  
**10**

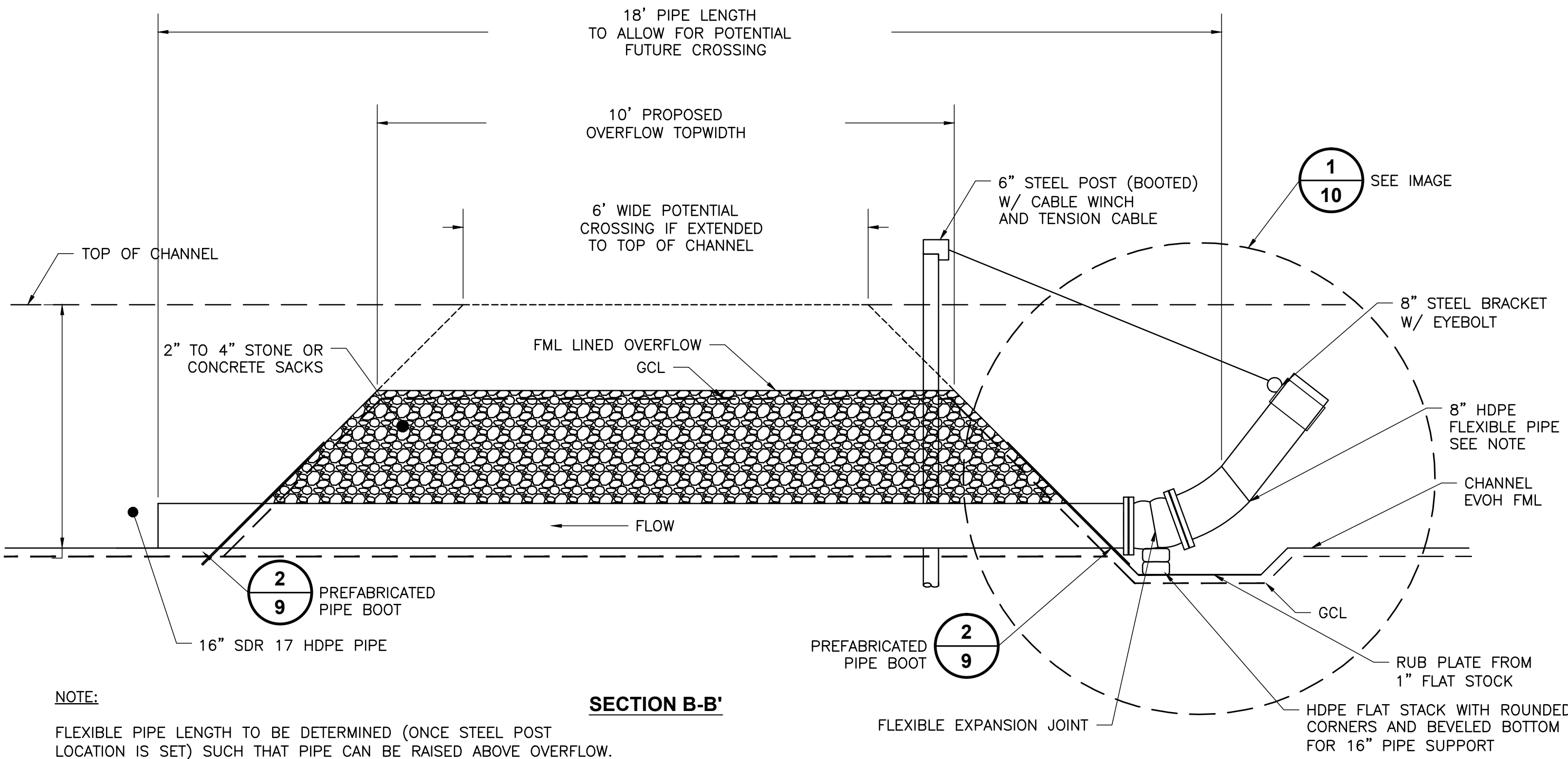


HDPE FLEXIBLE PIPE  
FOR ACCESS ROAD CHANNEL CROSSING

**IMAGE**  
SCALE: NOT TO SCALE  
**1**  
**10**



**SECTION A-A'**




**SECTION B-B'**

**NOTE:**  
FLEXIBLE PIPE LENGTH TO BE DETERMINED (ONCE STEEL POST  
LOCATION IS SET) SUCH THAT PIPE CAN BE RAISED ABOVE OVERFLOW.

1" 1/2" 0"

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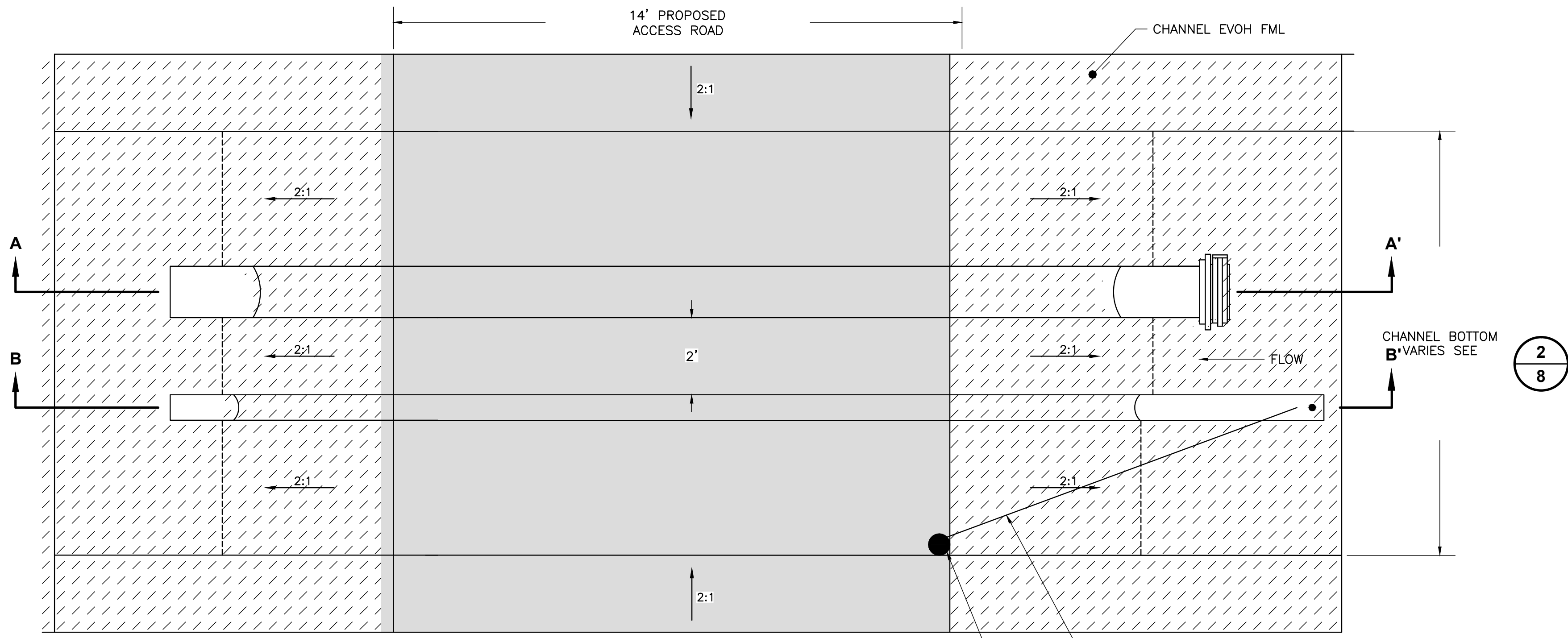
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**SOUTH QUARRY AREA**  
**WEST LIGHT DUTY ACCESS ROAD DETAILS**

SHEET NO.  
**10**

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PLAN OF WEST HEAVY DUTY ACCESS ROAD CHANNEL CROSSING  
WITH STORMWATER CONTROL

DETAIL

SCALE: NOT TO SCALE

1  
11

6" STEEL POST WITH CONCRETE ANCHOR  
AND CABLE WINCH  
LOCATION TO BE DETERMINED BY OWNER BASED  
ON OPERATIONAL PREFERENCE

TENSION CABLE

TOP OF CHANNEL  
HEIGHT VARIES

2" TO 4" CONCRETE  
GROUTED STONE OVERFLOW

33' PIPE LENGTH

14' WIDE

6" STEEL POST (BOOTED)  
W/ CABLE WINCH  
AND TENSION CABLE

FML ANCHOR  
GCL ANCHOR

8" STEEL BRACKET  
W/ EYEBOLT

8" HDPE FLEXIBLE PIPE  
SEE NOTE

CHANNEL EVOH FML

GCL

RUB PLATE FROM  
1" FLAT STOCK

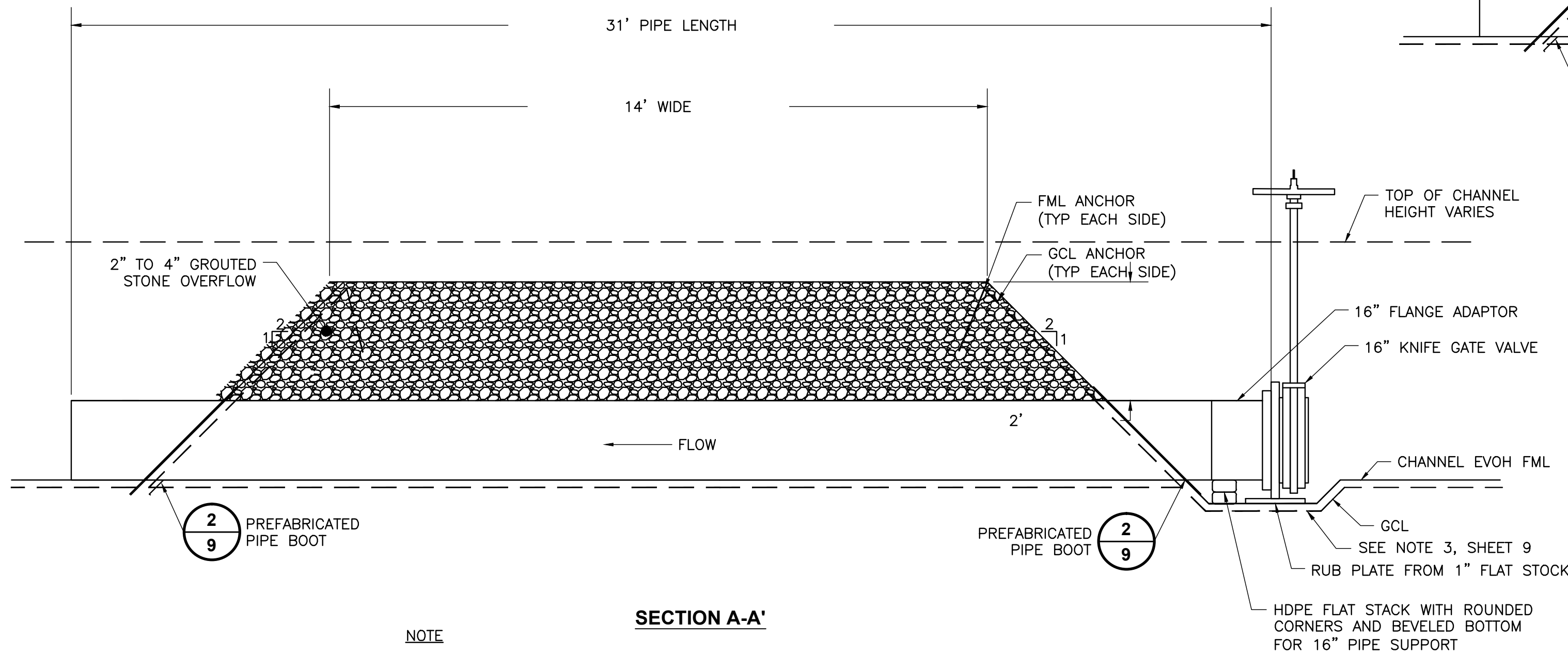
HDPE FLAT STACK WITH ROUNDED  
CORNERS AND BEVELED BOTTOM  
FOR 16" PIPE SUPPORT

NOTE:

FLEXIBLE PIPE LENGTH TO BE DETERMINED (ONCE STEEL POST  
LOCATION IS SET) SUCH THAT PIPE CAN BE RAISED ABOVE OVERFLOW.

SECTION B-B'

FLEXIBLE EXPANSION JOINT



NOTE

ANCHOR GCL AND FML 18" (MIN) AT EDGES OF ROAD.

SECTION A-A'

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1	07/10/14	ADDENDUM 1	TAD	JGW	ASL	JGW
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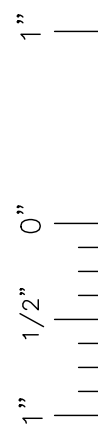
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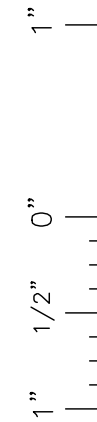
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2014 STORMWATER IMPROVEMENTS  
SOUTH QUARRY AREA  
WEST HEAVY DUTY ACCESS ROAD DETAILS

SHEET NO.  
**11**  
PROJECT NO.  
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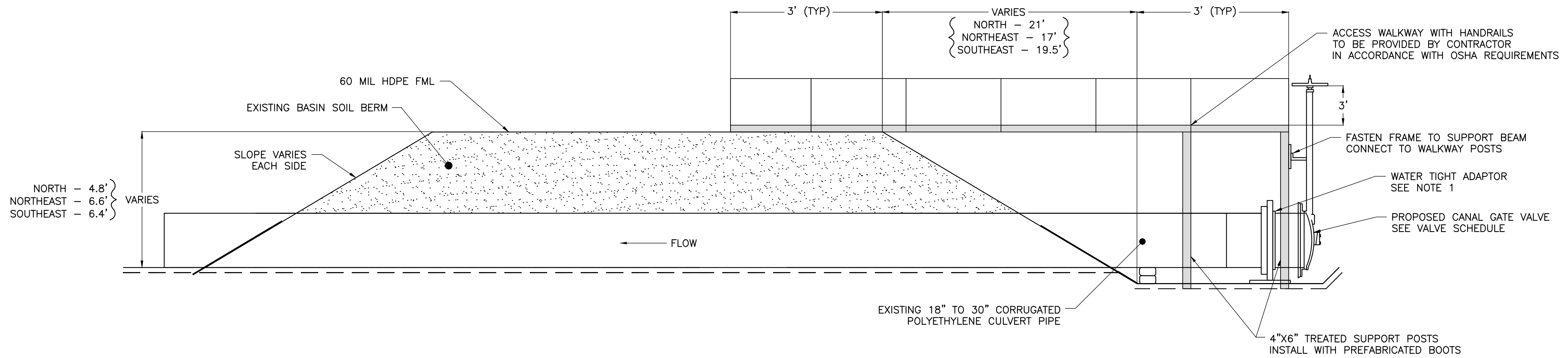
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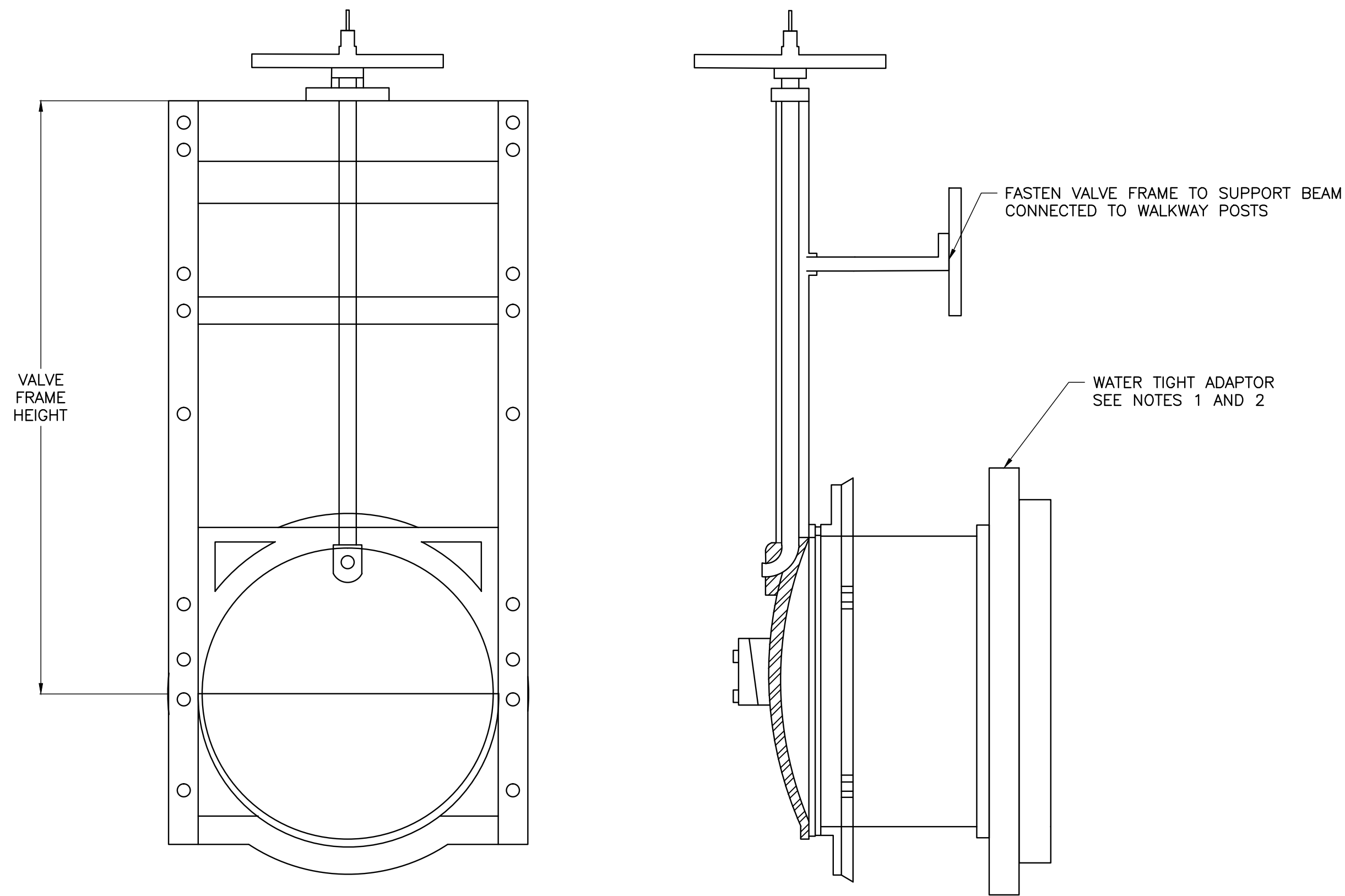


BASIN OUTLET CONTROL VALVE DETAIL

DETAIL 1  
SCALE: NOT TO SCALE 13

NOTES:

1. CONTRACTOR SHALL PROVIDE AND INSTALL WATERTIGHT ADAPTERS FOR WATER TIGHT CONNECTION OF VALVES TO EXISTING CULVERTS. ADAPTERS SHALL BE SUBMITTED TO OWNER'S ENGINEER FOR REVIEW AND APPROVAL.
2. CANAL VALVE TO BE RED TOP WATERMAN MODEL C-10.
3. CONTRACTOR SHALL INSTALL VALVE SUPPORT BELOW VALVES TO PROTECT CHANNEL AND POND FML.
4. CONTRACTOR SHALL REPAIR DAMAGED FML UPON COMPLETION OF VALVE CONSTRUCTION AS INCIDENTAL TO VALVE INSTALLATION. BOOTS TO CULVERT PIPES SHALL BE DOUBLE BOOTED.



CANAL GATE VALVE (TYP)

DETAIL 2  
SCALE: NOT TO SCALE 13

SCHEDULE OF VALVES FOR CULVERTS

VALVE NUMBER	LOCATION	CULVERT DIAMETER (IN)	VALVE/CONTROL TYPE	VALVE FRAME HEIGHT (FT)	VALVE SIZE (IN)	ACCESS WALKWAY REQUIRED
C-1	WEST 3' X 5' CONCRETE BOX REPLACEMENT	REPLACE WITH 42 PE	CANAL	5.0	42	NO
K-1	WEST SIDE UPSTREAM OF 3' x 5' CONCRETE BOX CULVERT	18	KNIFE GATE	NA	18	NO
K-2	WEST SIDE UPSTREAM OF 3' x 5' CONCRETE BOX CULVERT	18	KNIFE GATE	NA	18	NO
C-2	SOUTHWEST EXISTING 36"	36	CANAL	5.0	36	NO
K-3	PROPOSED WEST LIGHT-DUTY ROAD CROSSING #1	16 & 8	KNIFE GATE AND FLEXIBLE RISER PIPE	NA	16	NO
K-4	PROPOSED WEST HEAVY-DUTY ROAD CROSSING	16 & 8	KNIFE GATE AND FLEXIBLE RISER PIPE	NA	16	NO
K-5	PROPOSED WEST LIGHT-DUTY ROAD CROSSING #2	16 & 8	KNIFE GATE AND FLEXIBLE RISER PIPE	NA	16	NO
C-3	NORTH BASIN OUTLET	18	CANAL	7.0	18	YES
C-4	NORTHEAST BASIN INLET #1	24	CANAL	4.0	24	NO
C-5	NORTHEAST BASIN INLET #2	24	CANAL	5.0	24	NO
C-6	NORTHEAST BASIN OUTLET	18	CANAL	9.0	18	YES
C-7	SOUTHEAST BASIN INLET	30	CANAL	4.5	30	NO
C-8	SOUTHEAST BASIN OUTLET	24	CANAL	6.5	24	NO
C-9	SOUTHWEST EXISTING 24"	24	CANAL	4.0	24	NO
C-10	SOUTHWEST EXISTING 24"	24	CANAL	4.0	24	NO

NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING CULVERT SIZES PRIOR TO ORDERING VALVES.
2. CONTRACTOR SHALL VERIFY WITH THE OWNER THE REQUIRED LOCATIONS FOR ACCESS WALKWAYS AND LOCATIONS WHERE NO ACCESS WALKWAYS ARE TO BE CONSTRUCTED.
3. OWNER TO SUPPLY 16" KNIFE GATE VALVES FOR CONTRACTOR TO INSTALL.

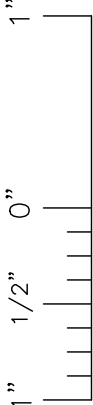
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SOUTH QUARRY AREA  
VALVE DETAILS

SHEET NO.  
13  
PROJECT NO.  
140139





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1 SERIES POINTS				
NORTH DITCH CENTERLINE POINTS				
PNT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1067625.37	516791.04	477.15	CL N DITCH
2	1067618.52	516795.30	477.01	CL N DITCH
3	1067612.11	516799.28	476.88	CL N DITCH
4	1067599.43	516807.09	476.63	CL N DITCH
5	1067582.53	516817.49	476.29	CL N DITCH
6	1067568.84	516825.83	476.01	CL N DITCH
7	1067555.43	516833.99	475.74	CL N DITCH
8	1067543.87	516841.91	475.50	CL N DITCH
9	1067531.97	516850.06	475.30	CL N DITCH
10	1067513.69	516862.07	475.00	CL N DITCH
11	1067501.92	516869.81	474.87	CL N DITCH
12	1067494.49	516874.35	474.79	CL N DITCH
13	1067484.98	516880.16	474.69	CL N DITCH
14	1067476.22	516885.99	474.60	CL N DITCH
15	1067475.80	516894.41	474.48	CL N DITCH
16	1067480.79	516901.37	474.36	CL N DITCH
17	1067486.01	516908.63	474.24	CL N DITCH
18	1067489.59	516916.28	474.12	CL N DITCH
19	1067493.96	516925.61	473.98	CL N DITCH
20	1067496.24	516930.49	473.90	CL N DITCH
21	1067494.84	516941.27	473.48	CL N DITCH
22	1067493.21	516953.80	473.00	CL N DITCH

100 SERIES POINTS				
NORTH DITCH UNDERDRAIN INVERTS				
PNT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
101	1067625.37	516791.04	475.65	6" UNDERDRAIN INV.
102	1067618.52	516795.30	475.51	6" UNDERDRAIN INV.
103	1067612.11	516799.28	475.38	6" UNDERDRAIN INV.
104	1067599.43	516807.09	475.13	6" UNDERDRAIN INV.
105	1067582.53	516817.49	474.79	6" UNDERDRAIN INV.
106	1067568.84	516825.83	474.51	6" UNDERDRAIN INV.
107	1067555.43	516833.99	474.24	6" UNDERDRAIN INV.
108	1067543.87	516841.91	474.00	6" UNDERDRAIN INV.
109	1067531.97	516850.06	473.80	6" UNDERDRAIN INV.
110	1067513.69	516862.07	473.50	6" UNDERDRAIN INV.
111	1067501.92	516869.81	473.37	6" UNDERDRAIN INV.
112	1067494.49	516874.35	473.29	6" UNDERDRAIN INV.
113	1067484.98	516880.16	473.19	6" UNDERDRAIN INV.
114	1067476.23	516885.99	473.10	6" UNDERDRAIN INV.

1000 SERIES POINTS				
WEST CHANNEL CENTERLINE BOTTOM POINTS				
PNT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1000	1067317.11	515409.87	452.30	CL W DITCH BOTTOM
1001	1067357.68	515436.23	452.40	CL W DITCH BOTTOM
1002	1067399.60	515464.16	452.50	CL W DITCH BOTTOM
1003	1067441.33	515490.97	452.60	CL W DITCH BOTTOM
1004	1067486.02	515519.87	452.72	CL W DITCH BOTTOM
1005	1067525.69	515544.80	452.81	CL W DITCH BOTTOM
1006	1067577.31	515572.50	452.92	CL W DITCH BOTTOM
1007	1067606.88	515596.74	452.99	CL W DITCH BOTTOM
1008	1067633.03	515638.92	453.09	CL W DITCH BOTTOM
1009	1067658.39	515684.75	453.19	CL W DITCH BOTTOM
1010	1067681.01	515732.37	453.29	CL W DITCH BOTTOM
1011	1067702.47	515777.54	453.38	CL W DITCH BOTTOM
1012	1067723.92	515822.70	453.48	CL W DITCH BOTTOM
1013	1067730.12	515835.75	453.50	CL W DITCH BOTTOM
1014	1067746.73	515867.19	453.57	CL W DITCH BOTTOM
1016	1067769.19	515908.68	453.66	CL W DITCH BOTTOM
1017	1067777.02	515955.59	453.75	CL W DITCH BOTTOM
1018	1067779.44	516010.96	453.86	CL W DITCH BOTTOM
1019	1067781.63	516060.91	453.95	CL W DITCH BOTTOM
1020	1067783.00	516094.22	454.02	CL W DITCH BOTTOM
1021	1067787.75	516122.90	454.07	CL W DITCH BOTTOM
1022	1067805.71	516137.72	454.12	CL W DITCH BOTTOM
1023	1067830.77	516151.76	454.17	CL W DITCH BOTTOM
1024	1067868.22	516160.49	454.24	CL W DITCH BOTTOM
1025	1067915.09	516165.38	454.33	CL W DITCH BOTTOM
1026	1067964.83	516170.45	454.48	CL W DITCH BOTTOM
1027	1067981.60	516172.10	454.46	CL W DITCH BOTTOM

1500 SERIES POINTS				
WEST CHANNEL UNDERDRAIN INVERT POINTS				
PNT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1500	1067317.11	515409.87	451.13	CL UNDERDRAIN INV.
1501	1067357.68	515436.23	451.23	CL UNDERDRAIN INV.
1502	1067399.60	515464.16	451.33	CL UNDERDRAIN INV.
1503	1067441.33	515490.97	451.43	CL UNDERDRAIN INV.
1504	1067486.02	515519.87	451.55	CL UNDERDRAIN INV.
1505	1067525.69	515544.80	451.64	CL UNDERDRAIN INV.
1506	1067577.31	515572.50	451.75	CL UNDERDRAIN INV.
1507	1067606.88	515596.74	451.83	CL UNDERDRAIN INV.
1508	1067633.03	515638.92	451.92	CL UNDERDRAIN INV.
1509	1067658.39	515684.75	452.02	CL UNDERDRAIN INV.
1510	1067681.01	515732.37	452.12	CL UNDERDRAIN INV.
1511	1067702.47	515777.54	452.22	CL UNDERDRAIN INV.
1512	1067723.92	515822.70	452.31	CL UNDERDRAIN INV.
1513	1067730.12	515835.75	452.34	CL UNDERDRAIN INV.
1514	1067746.73	515867.19	452.41	CL UNDERDRAIN INV.
1515	1067769.19	515908.68	452.50	CL UNDERDRAIN INV.
1516	1067777.02	515955.59	452.59	CL UNDERDRAIN INV.
1517	1067779.44	516010.96	452.69	CL UNDERDRAIN INV.
1518	1067781.63	516060.91	452.79	CL UNDERDRAIN INV.
1519	1067783.00	516094.22	452.85	CL UNDERDRAIN INV.
1520	1067787.75	516122.90	452.90	CL UNDERDRAIN INV.
1521	1067805.72	516137.72	452.95	CL UNDERDRAIN INV.
1522	1067830.77	516151.76	453.00	CL UNDERDRAIN INV.
1523	1067868.22	516160.49	453.08	CL UNDERDRAIN INV.
1524	1067915.09	516165.38	453.17	CL UNDERDRAIN INV.
1525	1067964.83	516170.45	453.31	CL UNDERDRAIN INV.
1526	1067981.60	516172.10	453.29	CL UNDERDRAIN INV.

4000 SERIES POINTS				
42" CULVERT INVERTS				
PNT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
4000	1067157.633	515303.282	450.800	42" HDPE
4001	1067139.166	515288.144	450.750	42" HDPE

5000 SERIES POINTS				
SOUTH CHANNEL CENTERLINE BOTTOM POINTS				
PNT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
5000	1066303.77	515770.94	470.00	CL DITCH BOTTOM
5001	1066285.15	515790.83	470.85	CL DITCH BOTTOM
5002	1066250.97	515827.32	471.00	CL DITCH BOTTOM
5003	1066216.79	515863.81	471.79	CL DITCH BOTTOM
5004	1066192.81	515889.42	471.92	CL DITCH BOTTOM
5005	1066183.30	515899.58	472.04	CL DITCH BOTTOM
5006	1066177.22	515906.07	475.00	CL DITCH BOTTOM

6000 SERIES POINTS				
ROAD REGRADE POINTS AT 42" CULVERT				
PNT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
6000	1067151.06	515285.41	456.00	TOP OF CROSSING
6001	1067139.79	515301.94	456.00	TOP OF CROSSING
6002	1067145.58	515305.88	456.00	TOP OF CROSSING
6003	1067156.84	515289.35	456.00	TOP OF CROSSING

7000 SERIES POINTS				
ROAD REGRADE POINTS AT EXISTING 48" CULVERT				
PNT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
7000	1067253.64	515333.05	462.00	SURFACE REGRADE
7001	1067261.86	515334.15	462.00	SURFACE REGRADE
7002	1067290.22	515342.75	462.00	SURFACE REGRADE
7003	1067298.28	515357.22	462.00	SURFACE REGRADE
7004	1067306.72	515372.37	462.00	SURFACE REGRADE
7005	1067298.28	515370.88	460.00	SURFACE REGRADE
7006	1067280.61	515357.60	460.00	SURFACE REGRADE
7007	1067264.46	515345.45	460.00	SURFACE REGRADE
7008	1067249.52	515339.63	460.00	SURFACE REGRADE
7009	1067249.05	515346.29	458.00	SURFACE REGRADE
7010	1067270.82	515360.65	458.00	SURFACE REGRADE
7011	1067289.83	515373.18	458.00	SURFACE REGRADE
7012	1067260.61	515385.99	458.00	SURFACE REGRADE
7013	1067242.77	515372.74	458.00	SURFACE REGRADE
7014	1067233.30	515365.70	458.00	SURFACE REGRADE
7015	1067273.57	515381.11	458.00	SURFACE REGRADE
7016	1067254.20	515368.17	458.00	SURFACE REGRADE
7017	1067241.65	515359.78	458.00	SURFACE REGRADE
7018	1067283.73	515421.96	460.00	SURFACE REGRADE
7019	1067253.84	515404.69	460.00	SURFACE REGRADE
7020	1067223.95	515387.41	460.00	SURFACE REGRADE

1	07/10/14	ADDENDUM 1		TAD	JGW	ASL	JGW		
REV	DATE	DESCRIPTION		DWN BY	DES BY	CHK BY	APP BY		
	DATE OF ISSUE				CHECKED BY	ASL			
	06/25/14				DESIGNED BY	JGW			
					APPROVED BY	JGW			



PREPARED BY:

CORNERSTONE ENVIRONMENTAL GROUP, LLC

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BRIDGETON LANDFILL, LLC.  
BRIDGETON LANDFILL  
BRIDGETON, MISSOURI  
2014 STORMWATER IMPROVEMENTS  
SOUTH QUARRY AREA  
STAKING POINT TABLES

SHEET NO.  
14  
PROJECT NO.  
140139