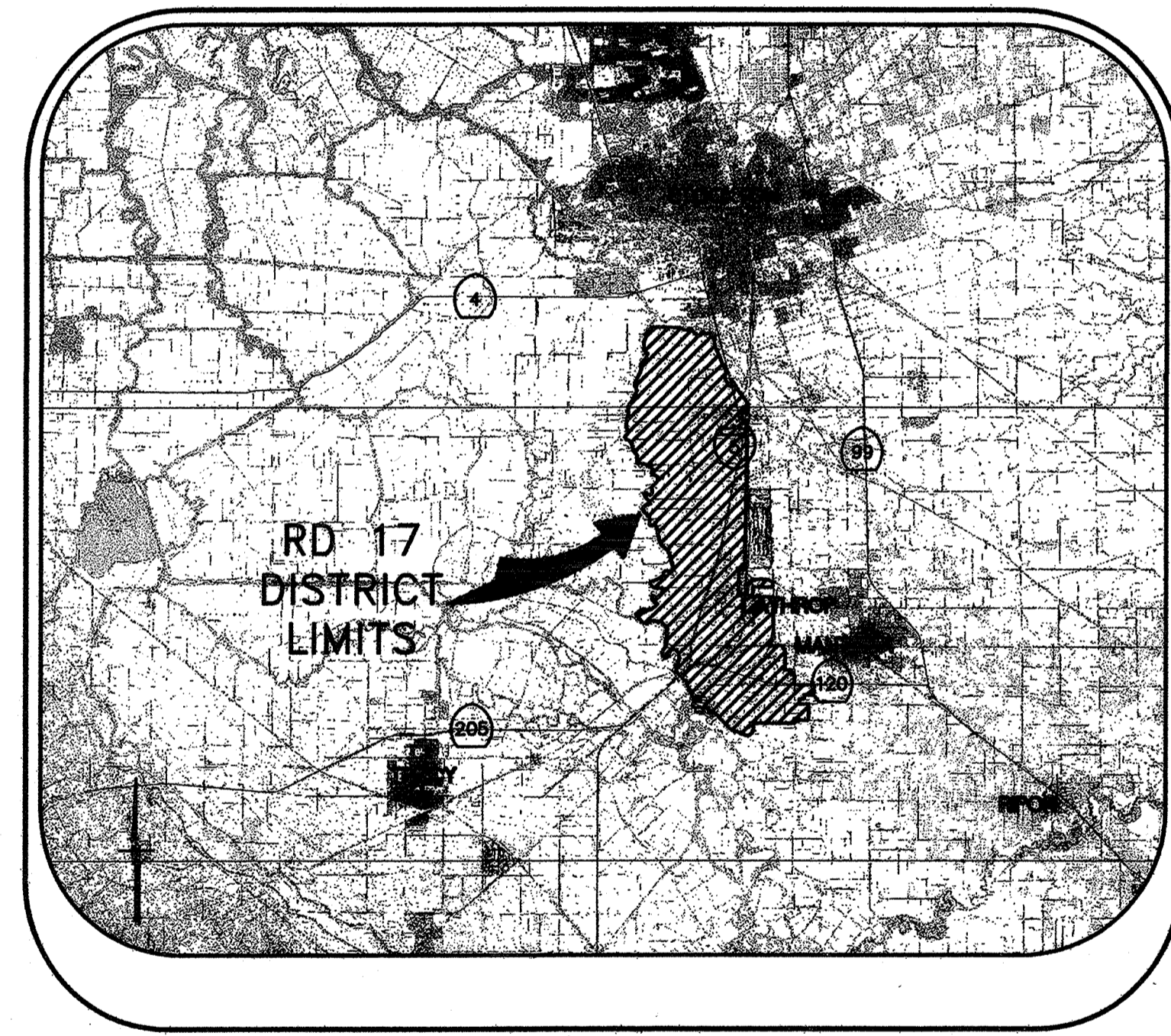
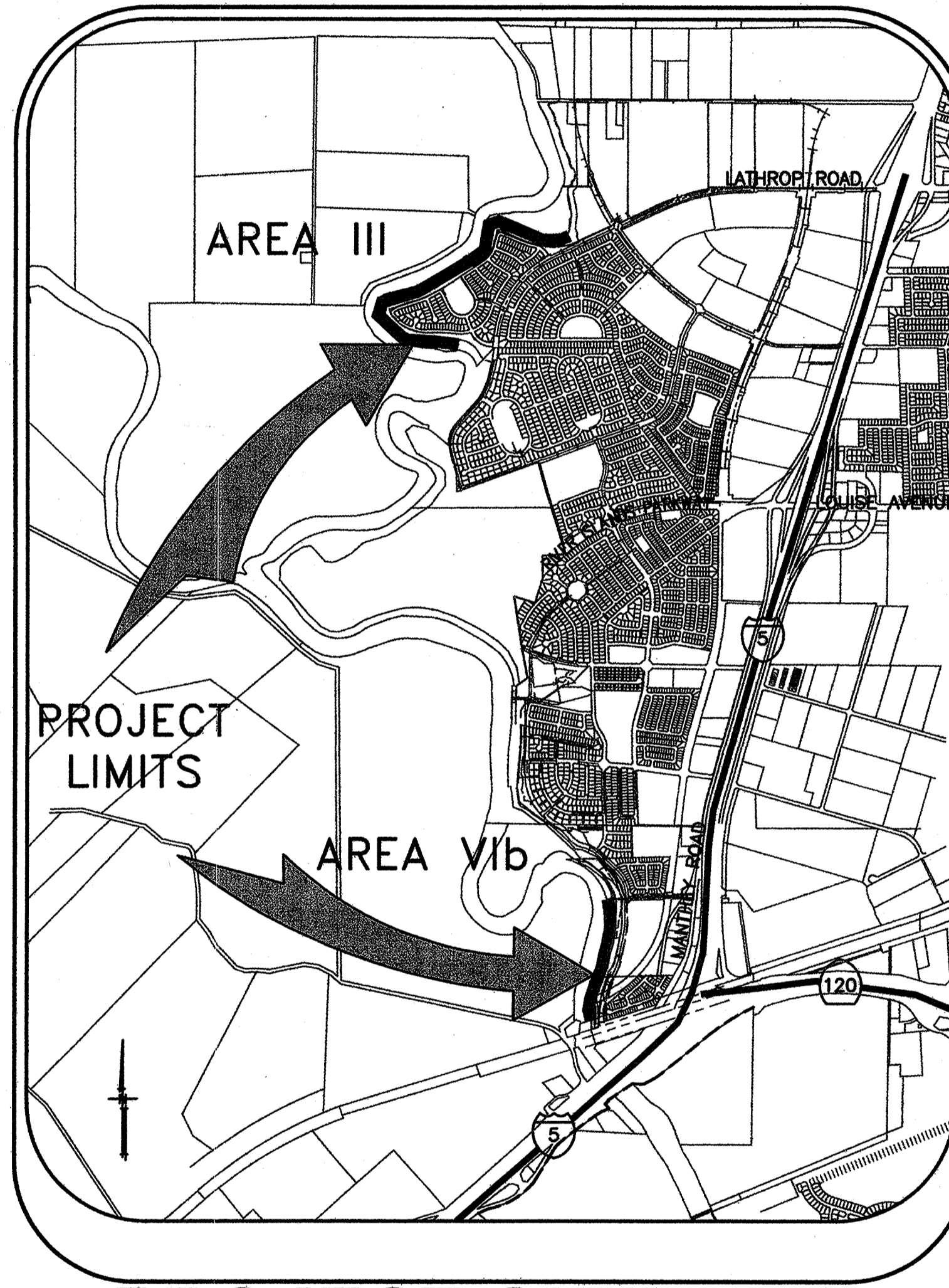


RECLAMATION DISTRICT NO. 17 LEVEE SEEPAGE PROJECT AREAS III AND VIb



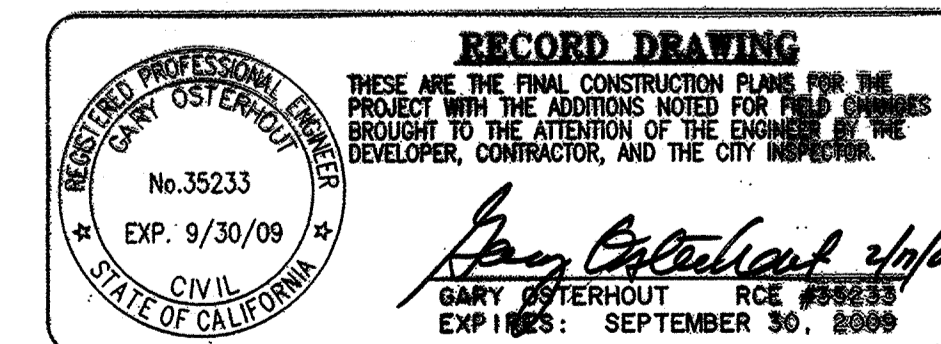
VICINITY MAP



PROJECT SITE MAP

SHEET	DESCRIPTION
1.	COVER SHEET
2.	STATIONING MAP / HAUL ROUTES
3.	NOTES & BORING LOCATIONS
4.	TYPICAL SECTIONS & DETAILS
5.	GRADING PLAN (AREA III)
6A	GRADING PLAN (AREA VIb)
7.	SELECTED CROSS SECTIONS FOR QUANTITIES (AREA III)
8.	SELECTED CROSS SECTIONS FOR QUANTITIES (AREA VIb)

INDEX



WARNING • CAUTION
EXISTING UNDERGROUND UTILITIES
CONTACT : UNDERGROUND SERVICE ALERT
PHONE: (800) 642-2444
FOR MARKING PRIOR TO DIGGING

PLANS REVIEWED AND APPROVED BY:
K SINNOCK NEUDECK
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Offices: (209) 946-0263
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17, MOSSDALE TRACT AREAS III & VIb DATED SEPTEMBER 15, 2008
ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:
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 ENGINEERS PLANNERS SURVEYORS
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**RECLAMATION DISTRICT NO. 17
MOSSDALE TRACT**
 COVER SHEET
 SAN JOAQUIN COUNTY CALIFORNIA

DATE: 9.22.2008	PROJECT NO. 25126.03
SCALE: NOT TO SCALE	SHT 1
DRAWN BY: E.J.N.	OF 8
DESIGNED BY: JSL	
CHECKED BY: GO	



- CONTROL POINTS**
- P1- N=2123580.40 E= 6327847.96 START SEEPAGE BERM (CL STATION 515+50)
 - P2- N=2121715.53 E=6326101.44 END SEEPAGE BERM (CL STATION 569+50)
 - P3- N=2121651.90 E=6326694.72 FND REBAR L.S. 4876 PER TRACT MAP 3533
 - P4- N=2121650.91 E=6328675.89 FND IP L.S. 4876 PER TRACT MAP 3533
 - P6- N=2112509.87 E=6328785.22 START SEEPAGE BERM (CL STATION 741+05)
 - P7- N=2110618.76 E=6328412.65 END SEEPAGE BERM (CL STATION 760+50)
 - P8- N=2112517.40 E=6328724.51 FND IP L.S. 7960 PER TRACT MAP 3438
 - P9- N=2112541.760 E=6329535.17 FND IP L.S. 7960 PER TRACT MAP 3438
- VERTICAL CONTROL POINTS**
- P5- N=2122614.90 E=6325486.531 ELEV=25.87 M&S SURVEY CONTROL PT# 9355
 - P10- N=2112783.577 E=6328687.725 ELEV 29.30 M&S SURVEY CONTROL PT# 9117

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INDICATES HAUL ROUTES TO BE USED BY CONTRACTOR

RECORD DRAWING
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT. THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD, THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.
 [Signature]
 CIVIL ENGINEER
 No. 55233
 Exp. 9/30/09
 STATE OF CALIFORNIA

PLANS REVIEWED AND APPROVED BY:

KJELDEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

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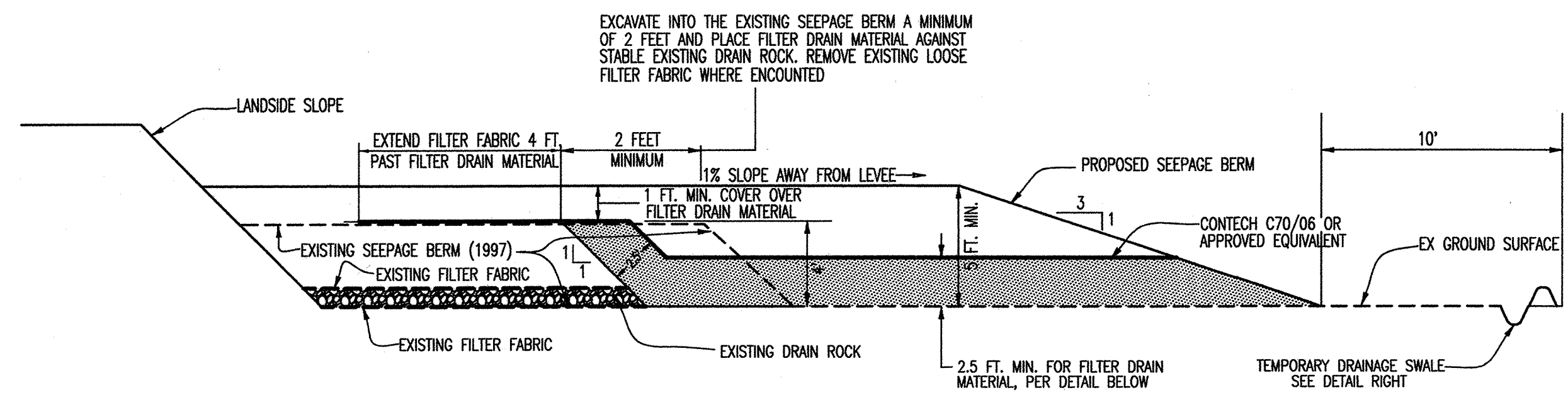
ENGEIO INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

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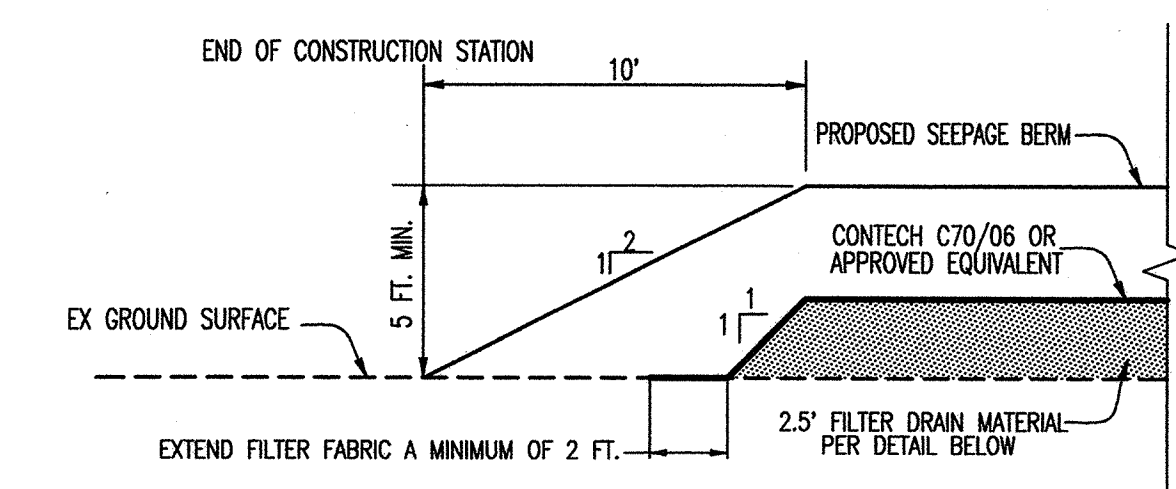
RECLAMATION DISTRICT NO. 17
MOSSDALE TRACT
 STATIONING MAP / HAUL ROUTES
 SAN JOAQUIN COUNTY CALIFORNIA

DATE: 9.22.2008	PROJECT NO. 25126.03
SCALE: 1"=2000'	SHT 2
DRAWN BY: EUN	OF 8
DESIGNED BY: JSL	
CHECKED BY: GO	
NO. AS-BUILT	DATE 2/13/09
REVISION	



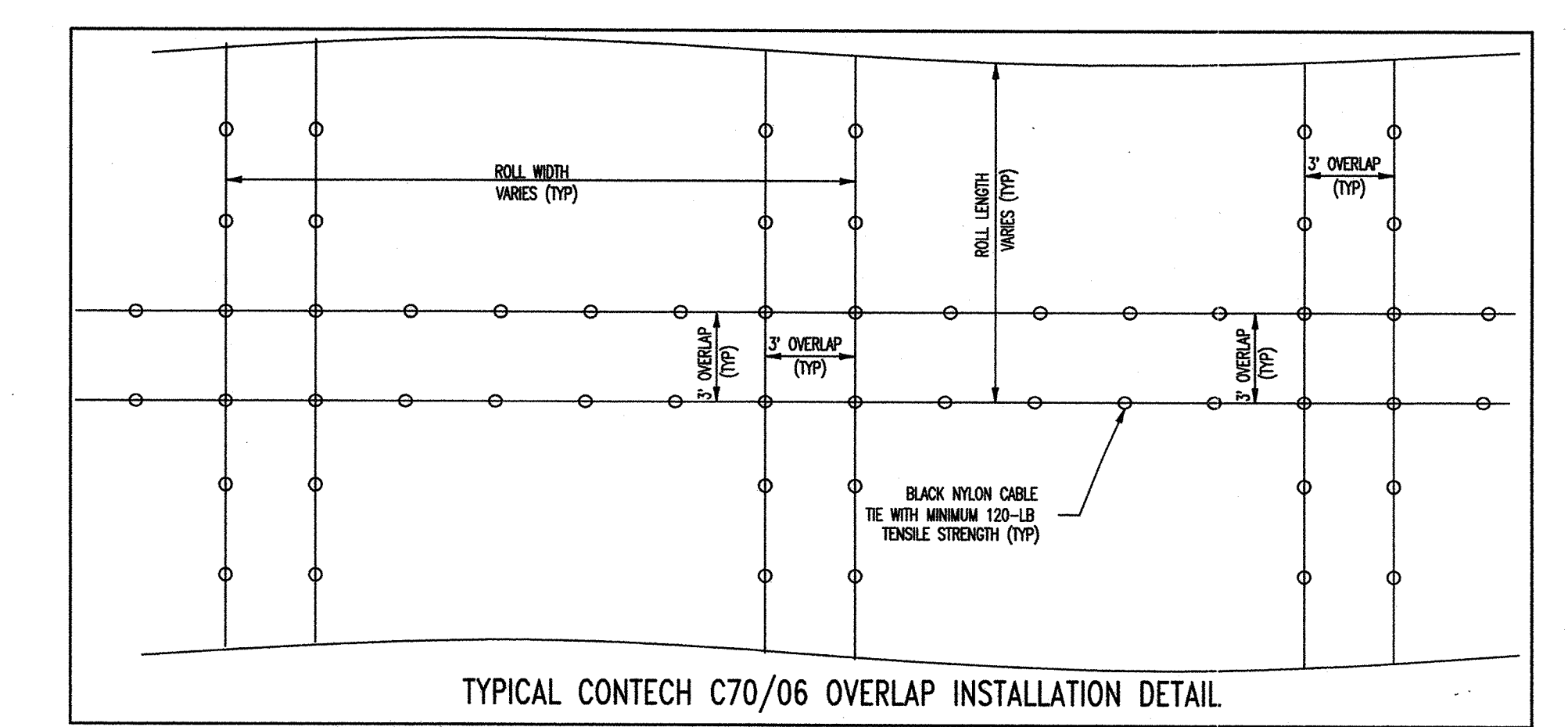
TYPICAL SECTION 1

NTS
TYPICAL CROSS SECTION FOR INSTALLING NEW SEEPAGE BERM OVER EXISTING SEEPAGE BERM
STATIONING 555+50± THRU 564+80± & 741+05± THRU 760+50±

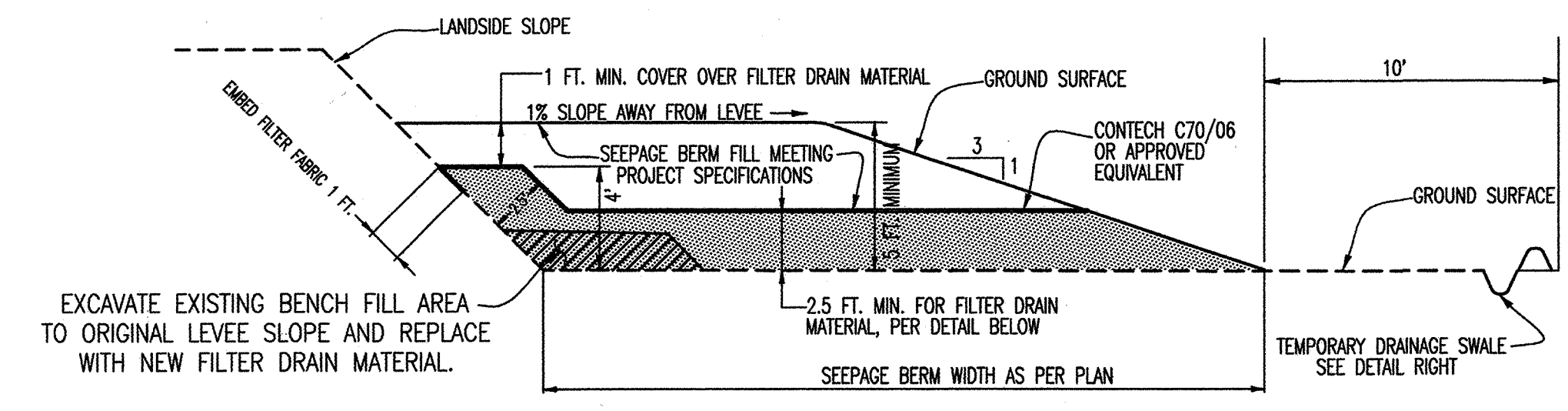


TYPICAL TRANSITION SECTION 4

NTS
TYPICAL BERM END TRANSITION DETAIL (SECTION CUT PARALLEL TO LEVEE)

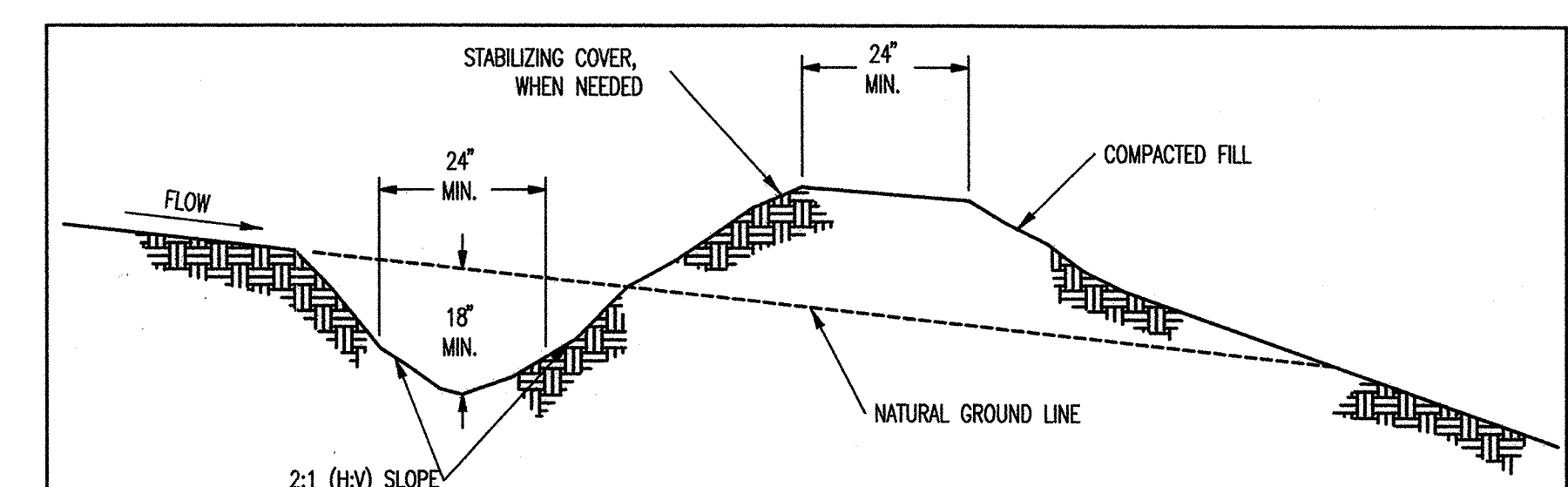


TYPICAL CONTECH C70/06 OVERLAP INSTALLATION DETAIL



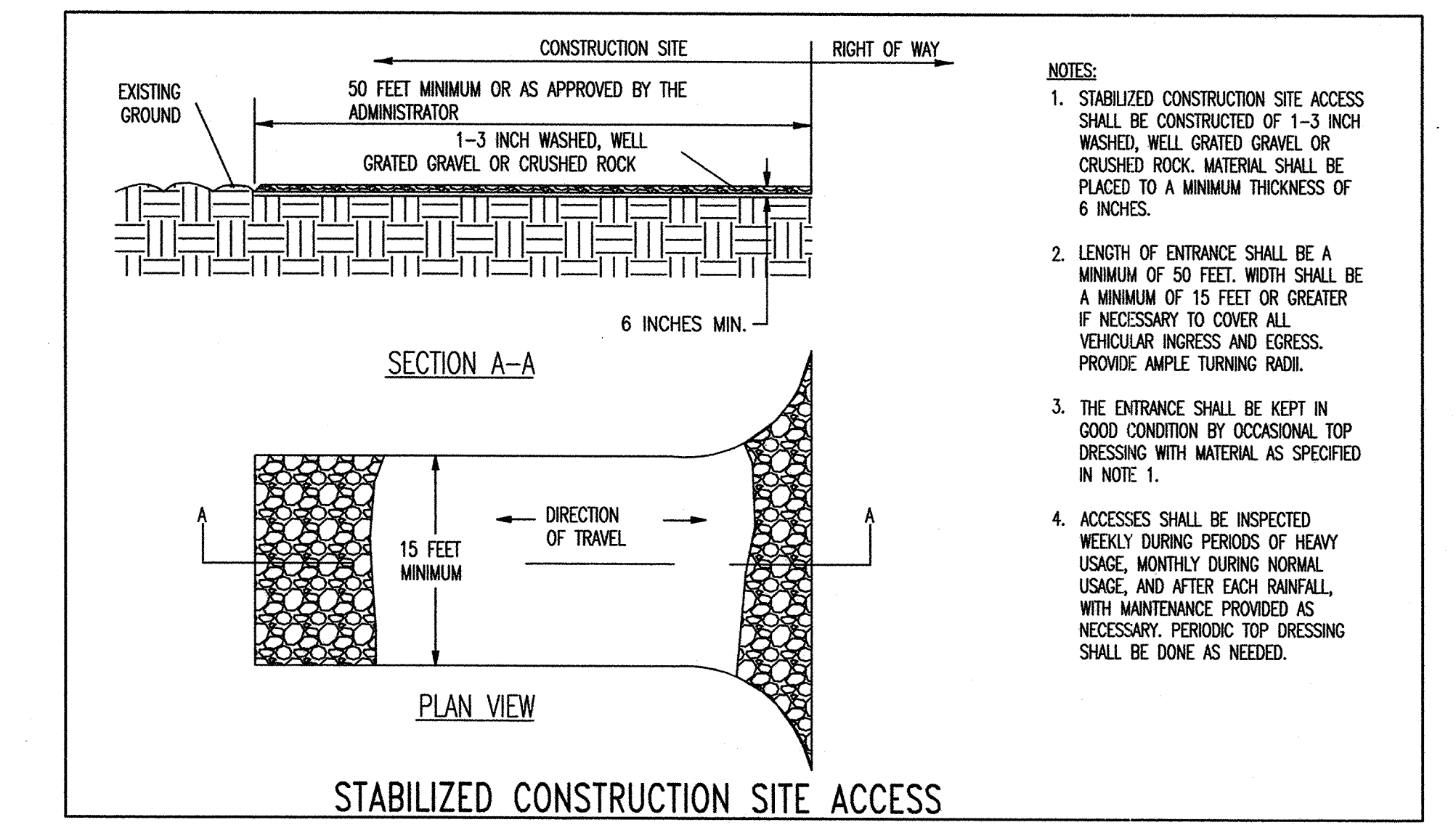
TYPICAL SECTION 2

NTS
TYPICAL CROSS SECTION FOR INSTALLING NEW SEEPAGE BERM AGAINST LANDSIDE OF THE LEVEE. (WHERE THERE IS AN EXISTING BENCH FILL OF UNKNOWN ORIGIN)
STATIONING 521+00± THRU 548+50±



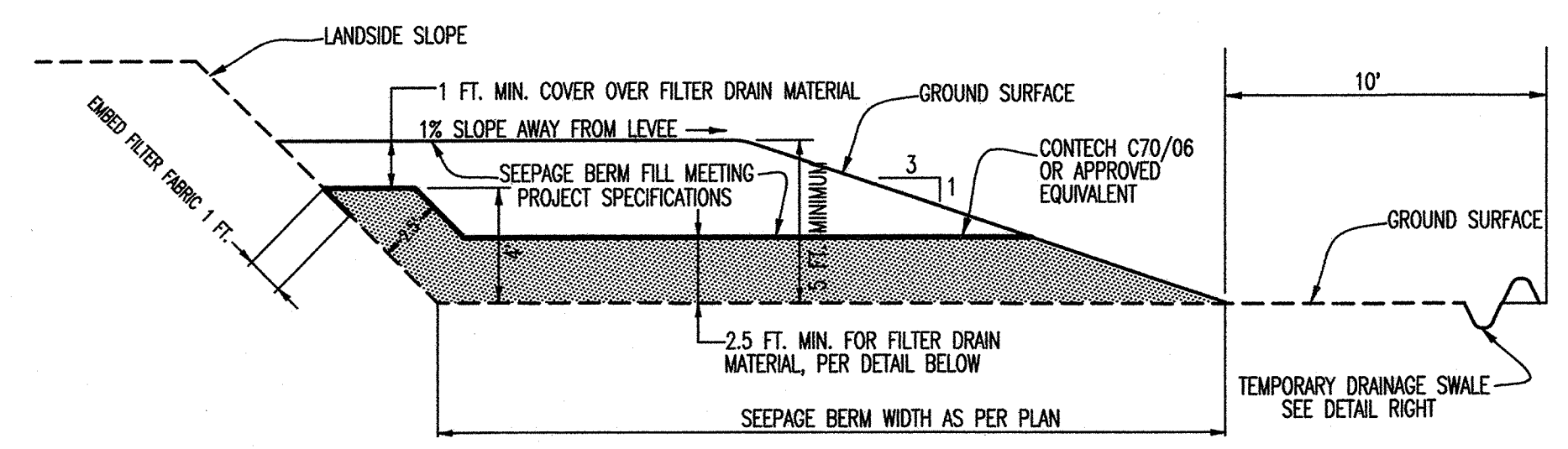
TYPICAL TEMPORARY DRAINAGE SWALE (EROSION CONTROL)

NOTES:
1. STABILIZE INLET, OUTLETS AND SLOPE.
2. PROPERLY COMPACT THE SUBGRADE.
3. SWALE TO BE REMOVED UPON COMPLETION OF SEEPAGE BERM CONSTRUCTION



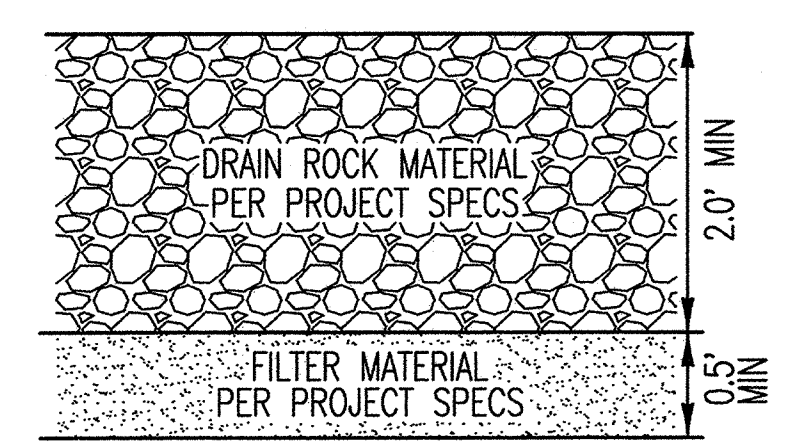
STABILIZED CONSTRUCTION SITE ACCESS

- NOTES:
1. STABILIZED CONSTRUCTION SITE ACCESS SHALL BE CONSTRUCTED OF 1-3 INCH WASHED, WELL GRADED GRAVEL OR CRUSHED ROCK. MATERIAL SHALL BE PLACED TO A MINIMUM THICKNESS OF 6 INCHES.
 2. LENGTH OF ENTRANCE SHALL BE A MINIMUM OF 50 FEET. WIDTH SHALL BE A MINIMUM OF 15 FEET OR GREATER IF NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS. PROVIDE AMPLE TURNING RADIUS.
 3. THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING WITH MATERIAL AS SPECIFIED IN NOTE 1.
 4. ACCESSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL, WITH MAINTENANCE PROVIDED AS NECESSARY. PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.

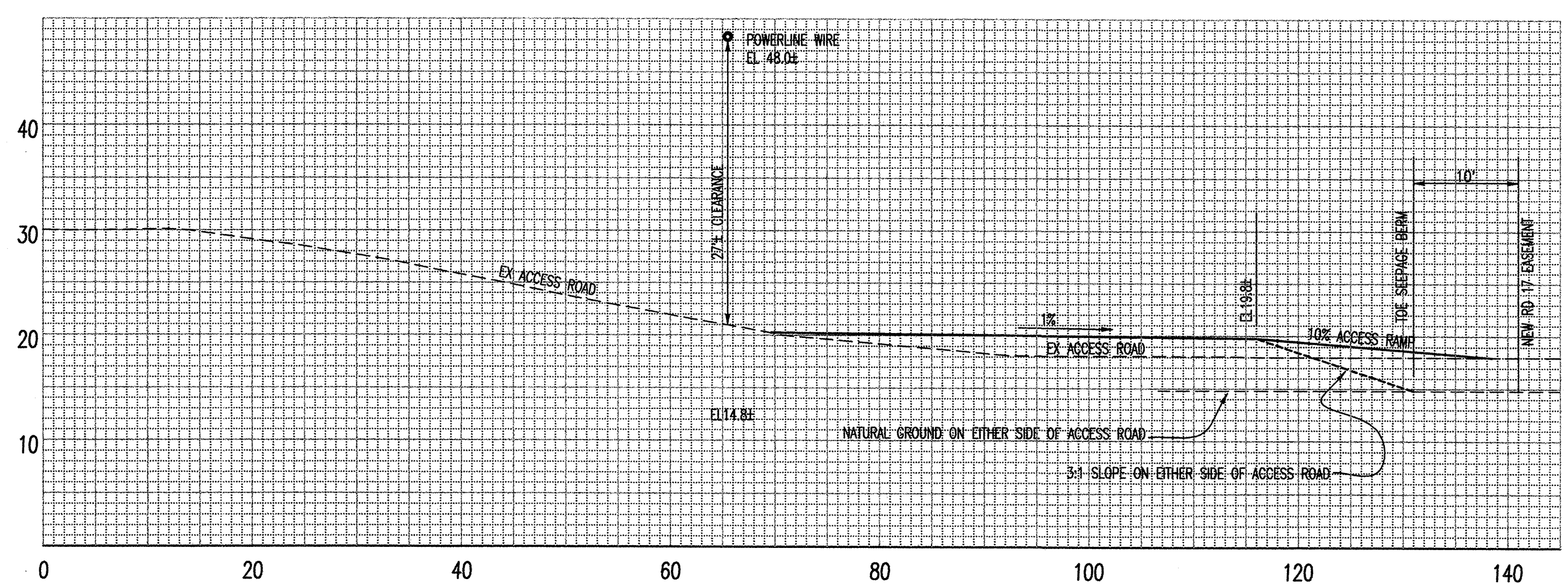


TYPICAL SECTION 3

NTS
TYPICAL CROSS SECTION FOR INSTALLING NEW SEEPAGE BERM AGAINST LANDSIDE OF THE LEVEE. (WHERE THERE IS NOT AN EXISTING SEEPAGE BERM) (EXCLUDING GAPS AT PUMPS)
STATIONING 515+50± THRU 521+00±/564+80± THRU 569+50±



FILTER DRAIN MATERIAL DETAIL



SECTION 5
STATION 754+02
ACCESS ROAD TO LEVEE
NTS

RECORD DRAWING

THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.

Gar Osterhout
GAR OSTERHOUT RCE #35233
EXPIRES: SEPTEMBER 30, 2009

WARNING • CAUTION
EXISTING UNDERGROUND UTILITIES
CONTACT : UNDERGROUND SERVICE ALERT
PHONE: (800) 642-2444
FOR MARKING PRIOR TO DIGGING

PLANS REVIEWED AND APPROVED BY:

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INC. Consulting Engineers and Land Surveyors

Post Office Box 844
711 N. Pershing Avenue
Stockton, CA 95201-0844
Offices: (209) 946-0268
Faxes: (209) 946-0296
E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED UNDER-SEEPAGE EVALUATION, RD. NO. 17, MOSSDALE TRACT AREAS II & VB DATED SEPTEMBER 15, 2008

ENGEO
INCORPORATED
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PLANS PREPARED UNDER THE DIRECTION OF:

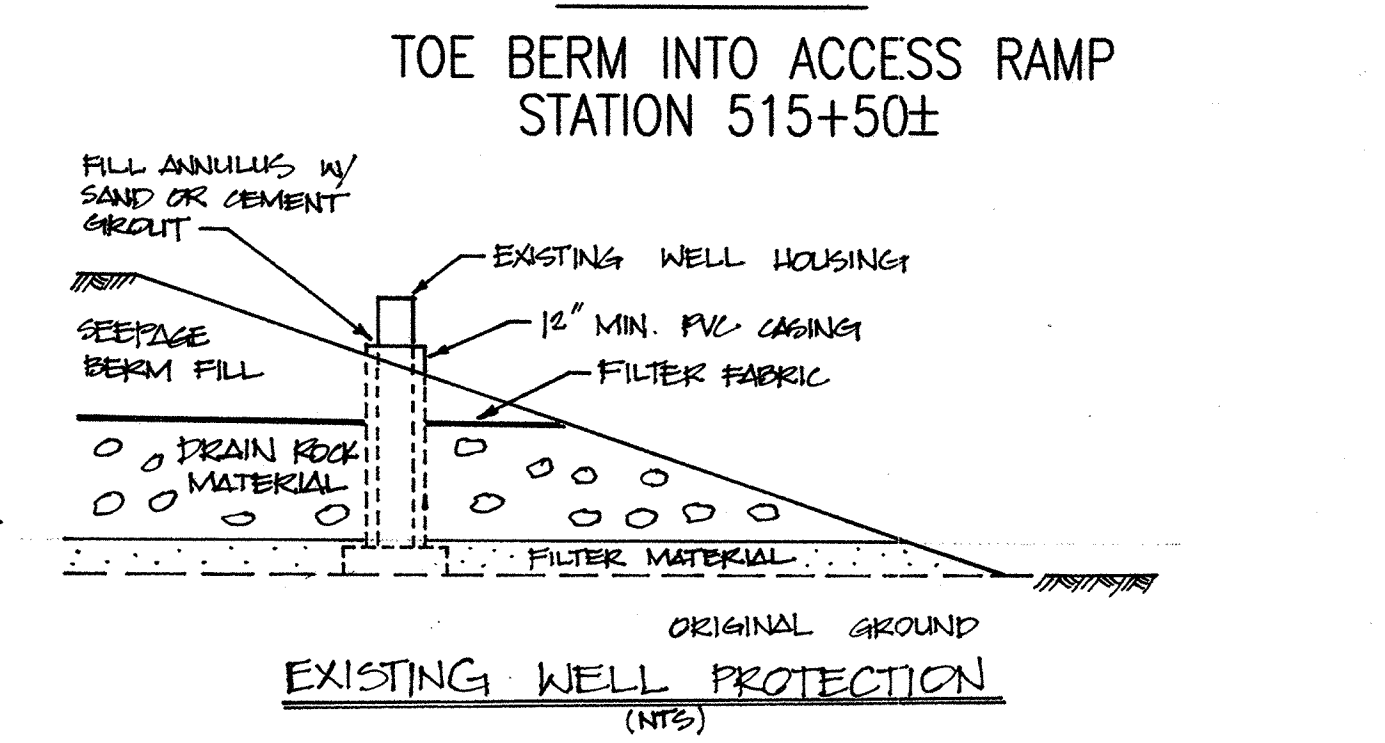
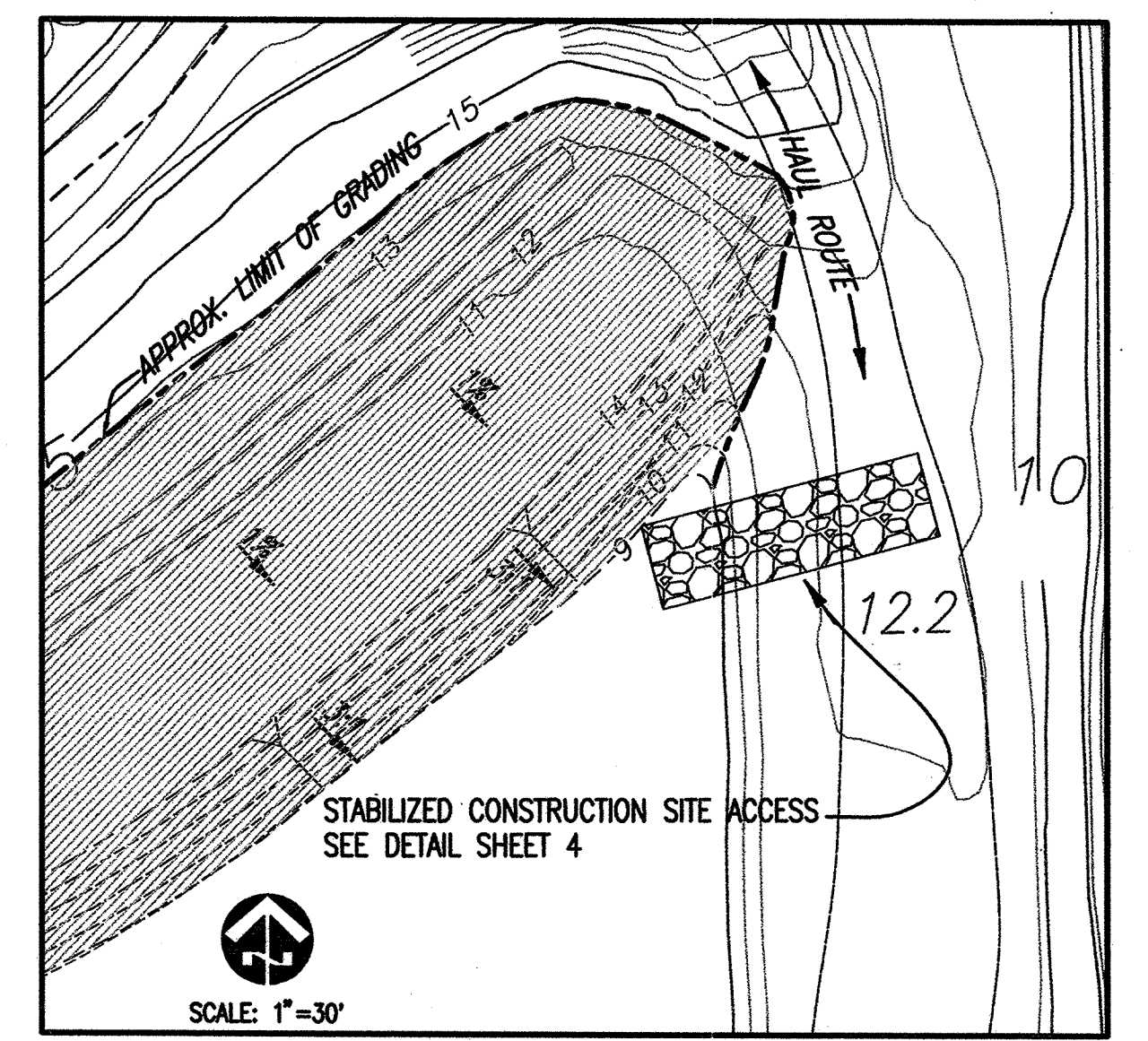
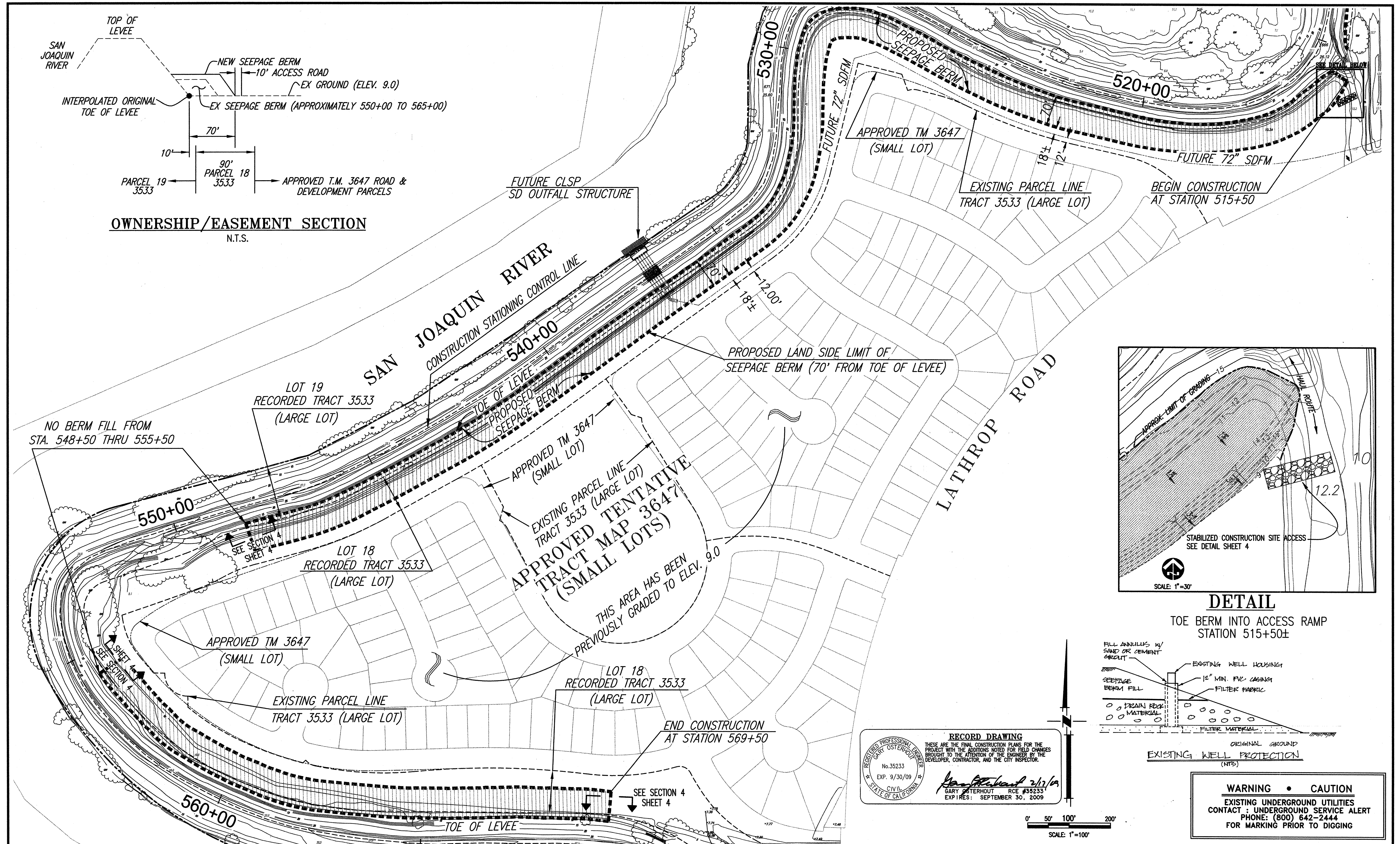
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RECLAMATION DISTRICT NO. 17
MOSSDALE TRACT
TYPICAL SECTIONS AND DETAILS

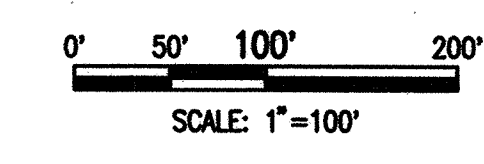
SAN JOAQUIN COUNTY CALIFORNIA

DATE: 9.22.2008	PROJECT NO. 25126.03
SCALE: NOT TO SCALE	SHT 4
DRAWN BY: EJJN	OF 8
DESIGNED BY: JSL	
CHECKED BY: GO	
DATE: 2/19/09	



RECORD DRAWING
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REGISTERED PROFESSIONAL ENGINEER
 GARY OSTERHOUT
 No. 35233
 EXP. 9/30/09
 CIVIL
 STATE OF CALIFORNIA
 Gary Osterhout 2/17/09
 GARY OSTERHOUT RCE #35233
 EXP. RES. SEPTEMBER 30, 2009



WARNING • CAUTION
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 PHONE: (800) 642-2444
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K S N
KJELDSSEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors
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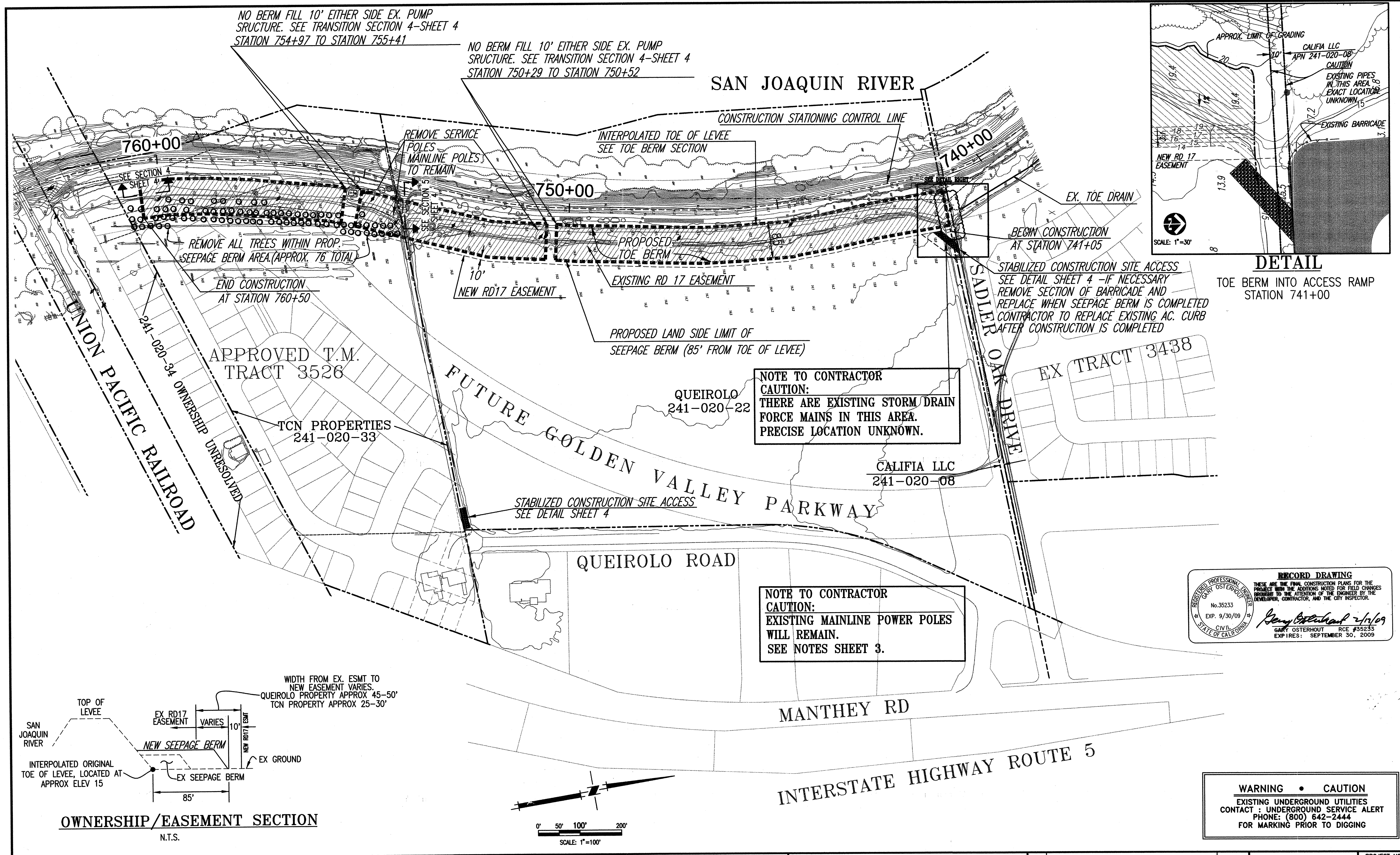
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RECLAMATION DISTRICT NO. 17
MOSSDALE TRACT
 GRADING PLAN (AREA III)
 STATION 515+50 THRU 569+50
 SAN JOAQUIN COUNTY CALIFORNIA

DATE: 9.22.2008	PROJECT NO. 25126.03
SCALE: 1"=100'	SHT 5
DRAWN BY: EJM	OF 8
DESIGNED BY: JSL	
CHECKED BY: GO	
DATE: 2/17/09	



NO BERM FILL 10' EITHER SIDE EX. PUMP STRUCTURE. SEE TRANSITION SECTION 4-SHEET 4 STATION 754+97 TO STATION 755+41

NO BERM FILL 10' EITHER SIDE EX. PUMP STRUCTURE. SEE TRANSITION SECTION 4-SHEET 4 STATION 750+29 TO STATION 750+52

SAN JOAQUIN RIVER

CONSTRUCTION STATIONING CONTROL LINE

INTERPOLATED TOE OF LEVEE
SEE TOE BERM SECTION

760+00

750+00

740+00

REMOVE ALL TREES WITHIN PROP. SEEPAGE BERM AREA (APPROX. 76' TOTAL)

END CONSTRUCTION AT STATION 760+50

REMOVE SERVICE POLES
MAINLINE POLES TO REMAIN

PROPOSED TOE BERM

EXISTING RD 17 EASEMENT

10' NEW RD17 EASEMENT

PROPOSED LAND SIDE LIMIT OF SEEPAGE BERM (85' FROM TOE OF LEVEE)

EX. TOE DRAIN

BEGIN CONSTRUCTION AT STATION 741+05

STABILIZED CONSTRUCTION SITE ACCESS
SEE DETAIL SHEET 4 -IF NECESSARY REMOVE SECTION OF BARRICADE AND REPLACE WHEN SEEPAGE BERM IS COMPLETED CONTRACTOR TO REPLACE EXISTING AC. CURB AFTER CONSTRUCTION IS COMPLETED

APPROVED T.M. TRACT 3526

TCN PROPERTIES 241-020-33

QUEIROLO 241-020-22

NOTE TO CONTRACTOR
CAUTION:
THERE ARE EXISTING STORM DRAIN FORCE MAINS IN THIS AREA. PRECISE LOCATION UNKNOWN.

CALIFIA LLC 241-020-08

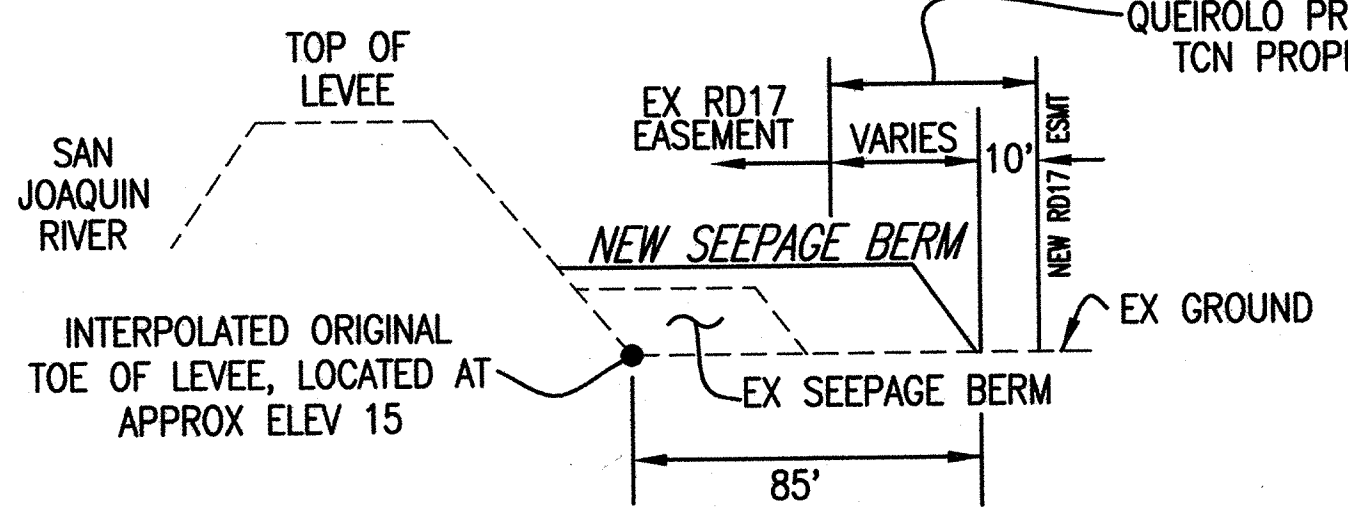
STABILIZED CONSTRUCTION SITE ACCESS
SEE DETAIL SHEET 4

QUEIROLO ROAD

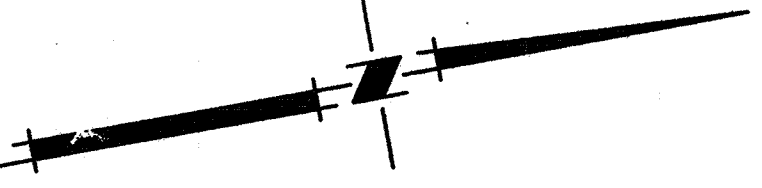
FUTURE GOLDEN VALLEY PARKWAY

NOTE TO CONTRACTOR
CAUTION:
EXISTING MAINLINE POWER POLES WILL REMAIN.
SEE NOTES SHEET 3.

RECORD DRAWING
THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.
GARY OSTERHOUT RCE #35233
EXP. 9/30/09
SEPTEMBER 30, 2009



OWNERSHIP/EASEMENT SECTION
N.T.S.



SCALE: 1"=100'

WARNING • CAUTION
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CONTACT : UNDERGROUND SERVICE ALERT
PHONE: (800) 642-2444
FOR MARKING PRIOR TO DIGGING

PLANS REVIEWED AND APPROVED BY:
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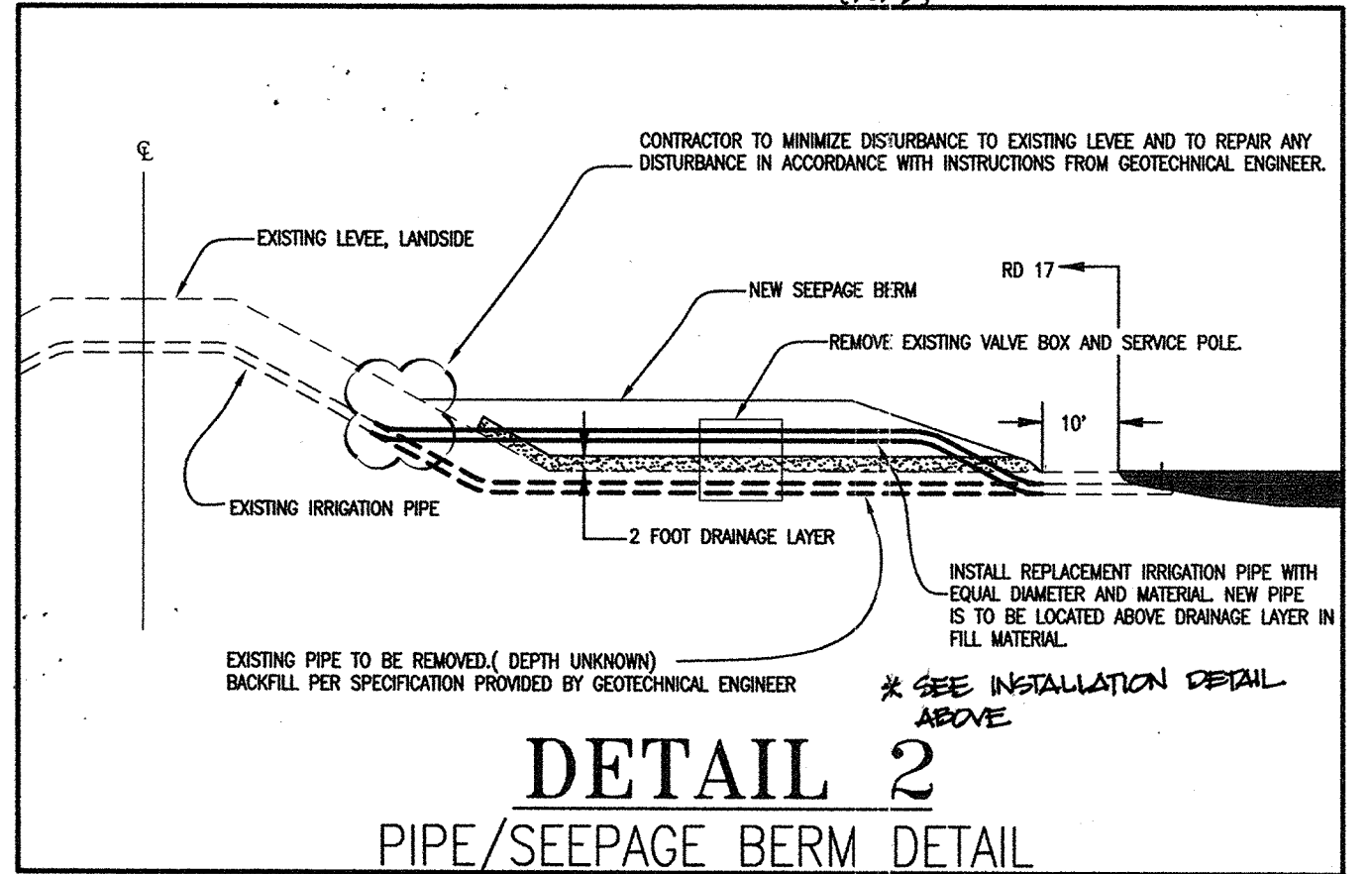
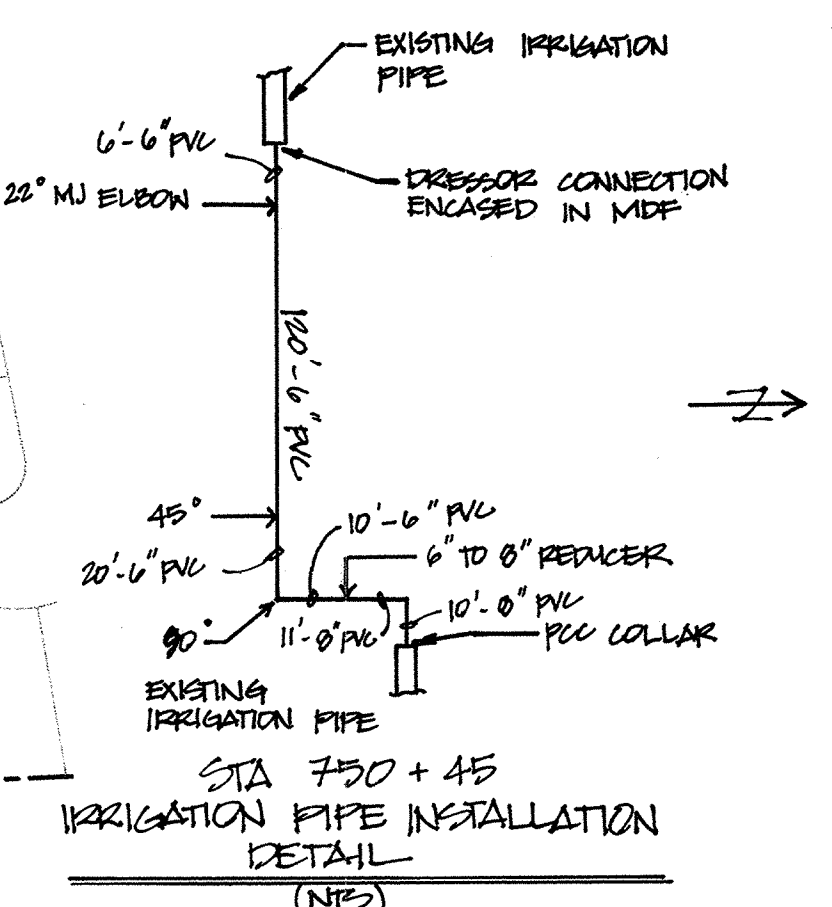
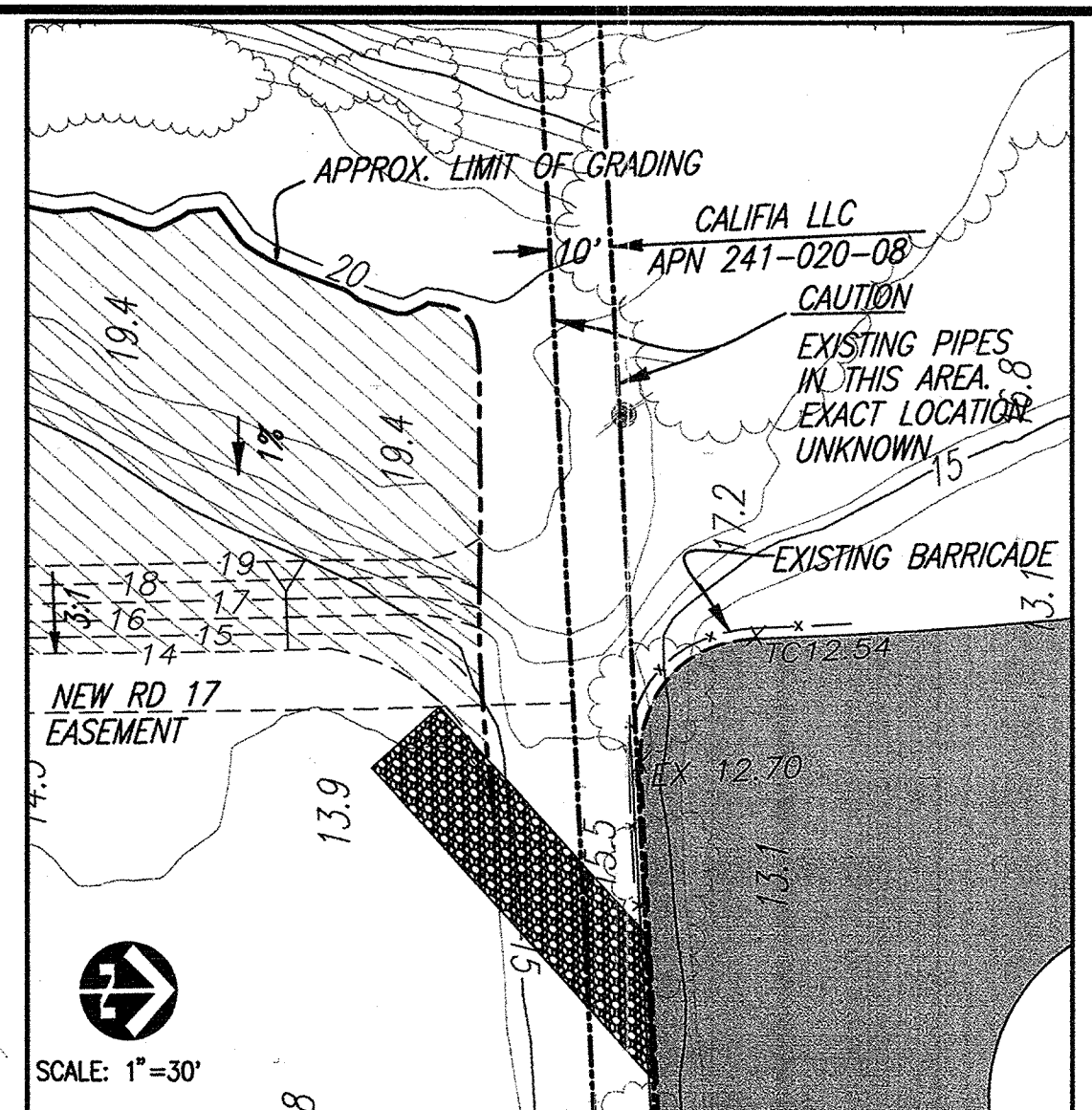
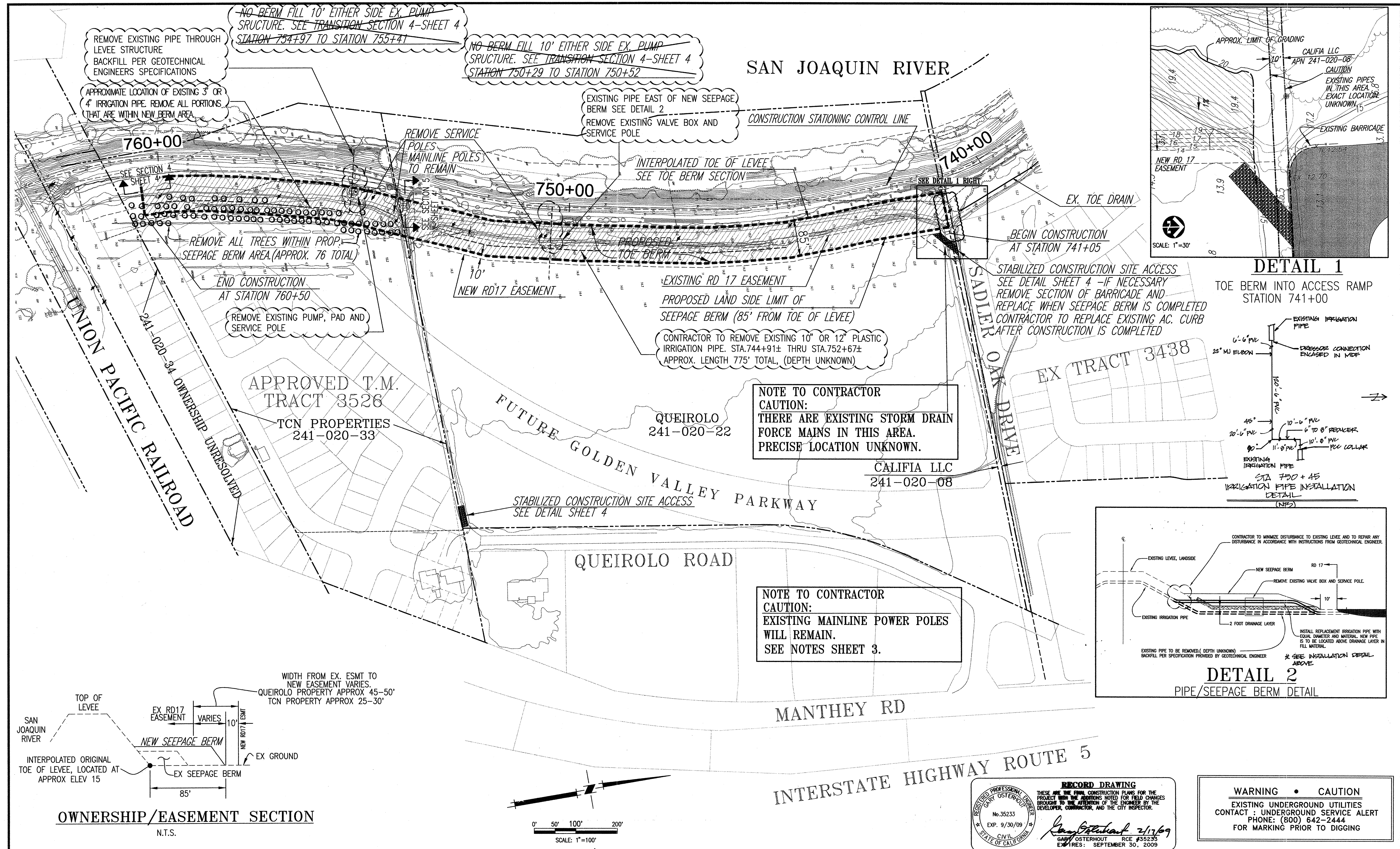
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ENGEO INCORPORATED
EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:
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RECLAMATION DISTRICT NO. 17
MOSSDALE TRACT
GRADING PLAN (Area Vii)
STATION 741+05 THRU 760+50
SAN JOAQUIN COUNTY CALIFORNIA

DATE: 9.22.2008	PROJECT NO. 25126.03
SCALE: 1"=100'	SHT 6
DRAWN BY: E.J.N.	OF 8
DESIGNED BY: J.S.L.	
CHECKED BY: G.O.	

VOID-SEE SHEET 6A



RECORD DRAWING

THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.

REGISTERED PROFESSIONAL ENGINEER
GARY OSTERHOUT
No. 35233
EXP. 9/30/09
CIVIL
STATE OF CALIFORNIA

Gary Osterhout 2/17/09
GARY OSTERHOUT RCE #35233
EXPIRES: SEPTEMBER 30, 2009

WARNING • CAUTION

EXISTING UNDERGROUND UTILITIES CONTACT : UNDERGROUND SERVICE ALERT PHONE: (800) 642-2444 FOR MARKING PRIOR TO DIGGING

PLANS REVIEWED AND APPROVED BY:

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711 N. Pershing Avenue
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Faxes: (209) 946-0296
E-mail: KSN@ksninc.com

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ENGEO INCORPORATED
EXCELLENT SERVICE SINCE 1971

REGISTERED PROFESSIONAL ENGINEER
JOSEF T. ENGEL
No. 35233
EXP. 9/30/09
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE DIRECTION OF:

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RECLAMATION DISTRICT NO. 17
MOSSDALE TRACT

GRADING PLAN (AREA VIB)
STATION 741+05 THRU 760+50

SAN JOAQUIN COUNTY CALIFORNIA

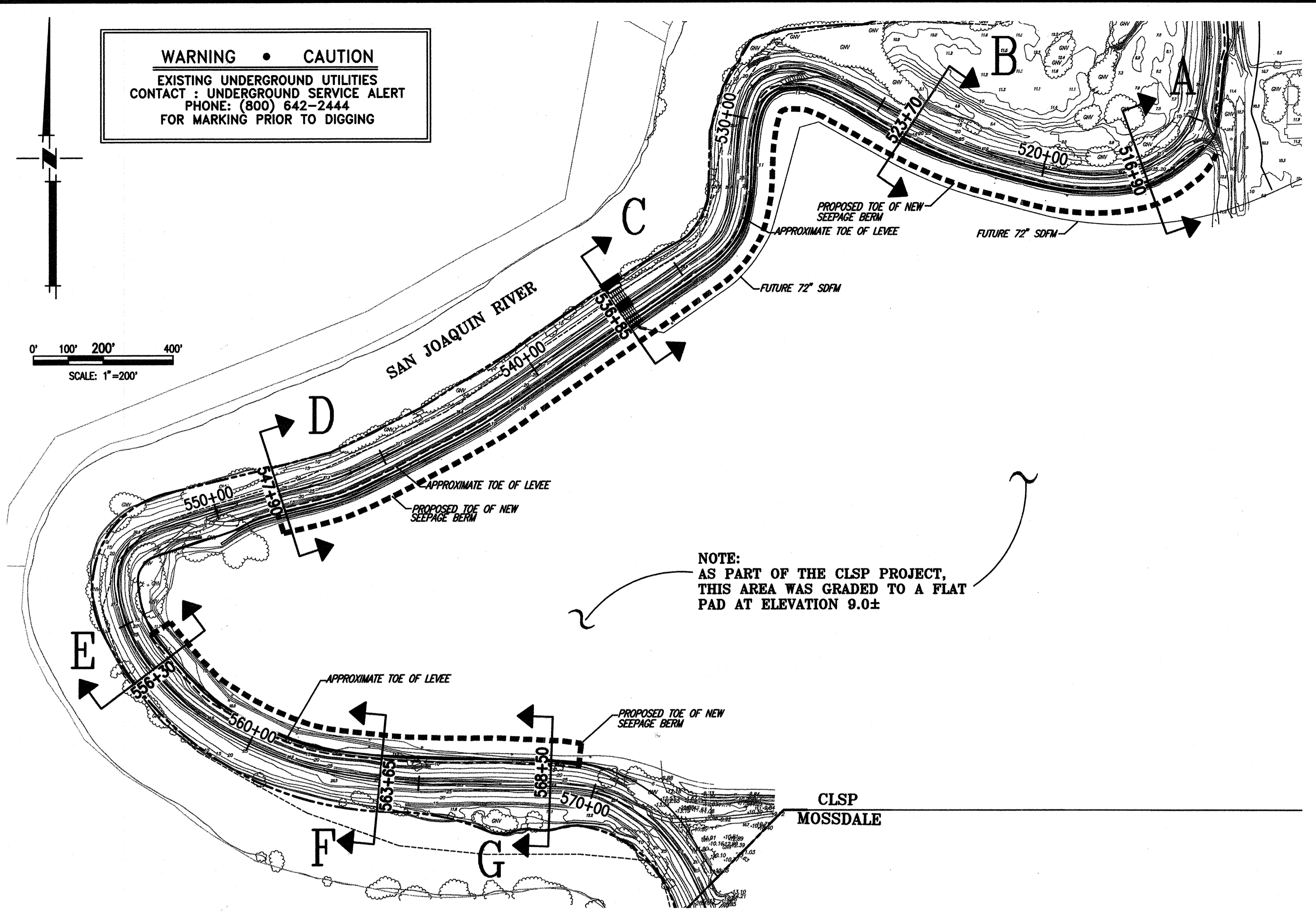
NO.	REVISION	DATE
2	AS-BUILT	2/17/09
1	ADD IRRIGATION CHANGES & DETAIL 2/ELIMINATED GAPS IN BERM	10-31-08

DATE: 9.22.2008
SCALE: 1"=100'
DRAWN BY: EJN
DESIGNED BY: JSL
CHECKED BY: GO

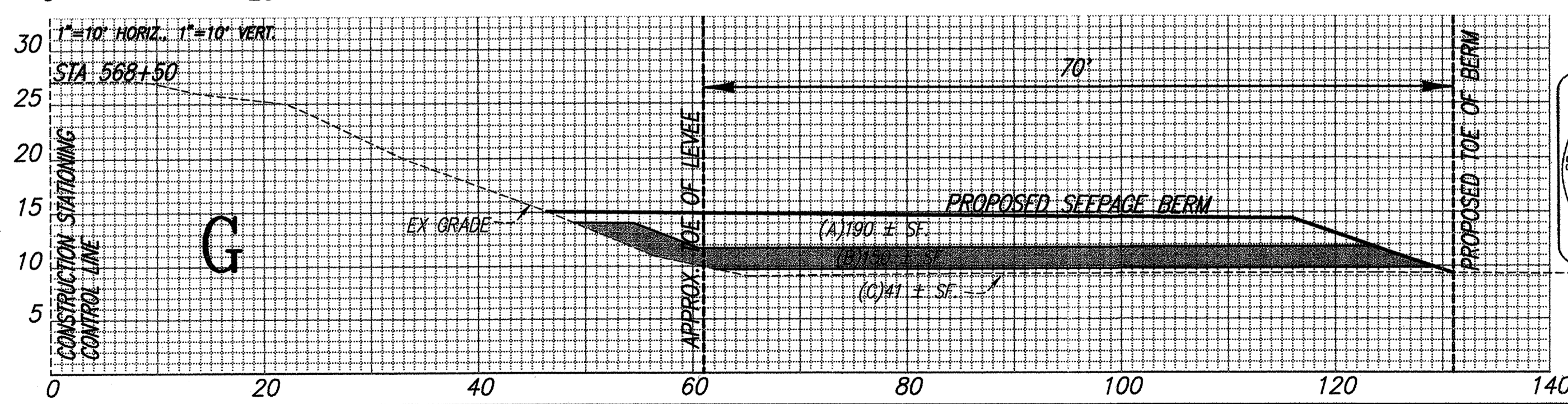
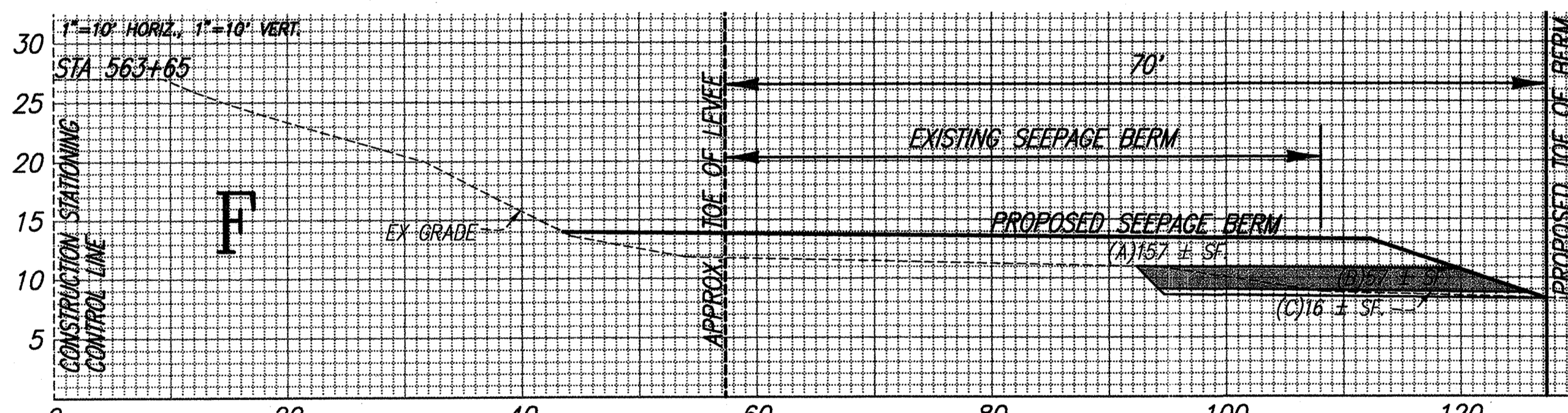
PROJECT NO. 25126.03
SHT 6A
OF 8

WARNING • CAUTION
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 FOR MARKING PRIOR TO DIGGING

0' 100' 200' 400'
 SCALE: 1"=200'

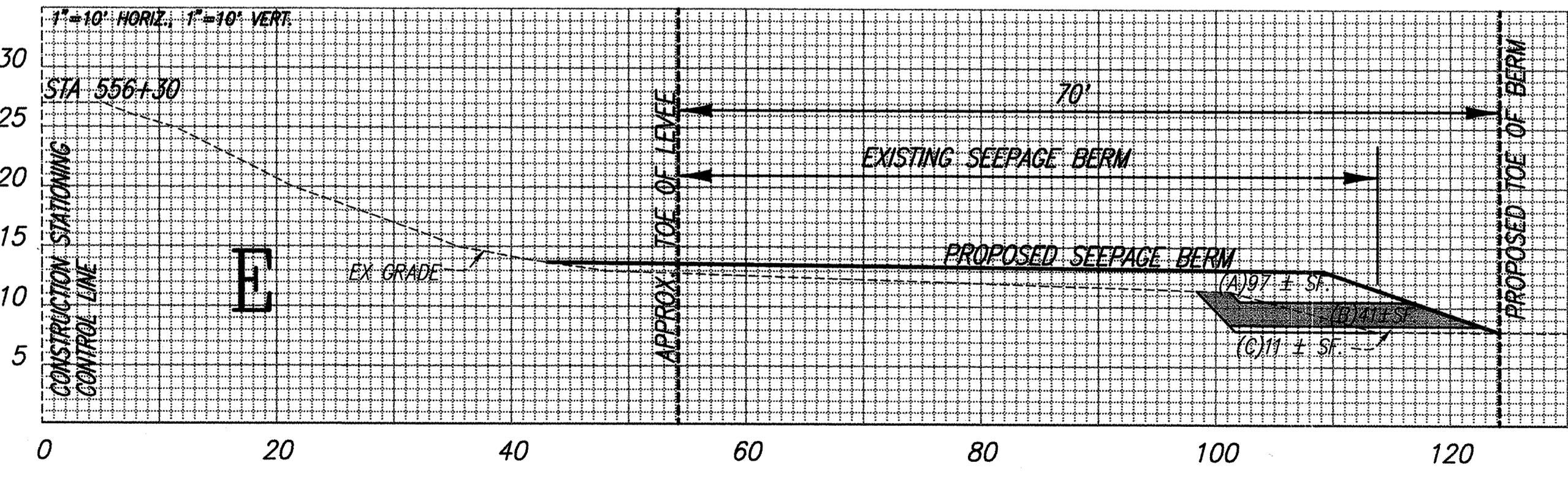
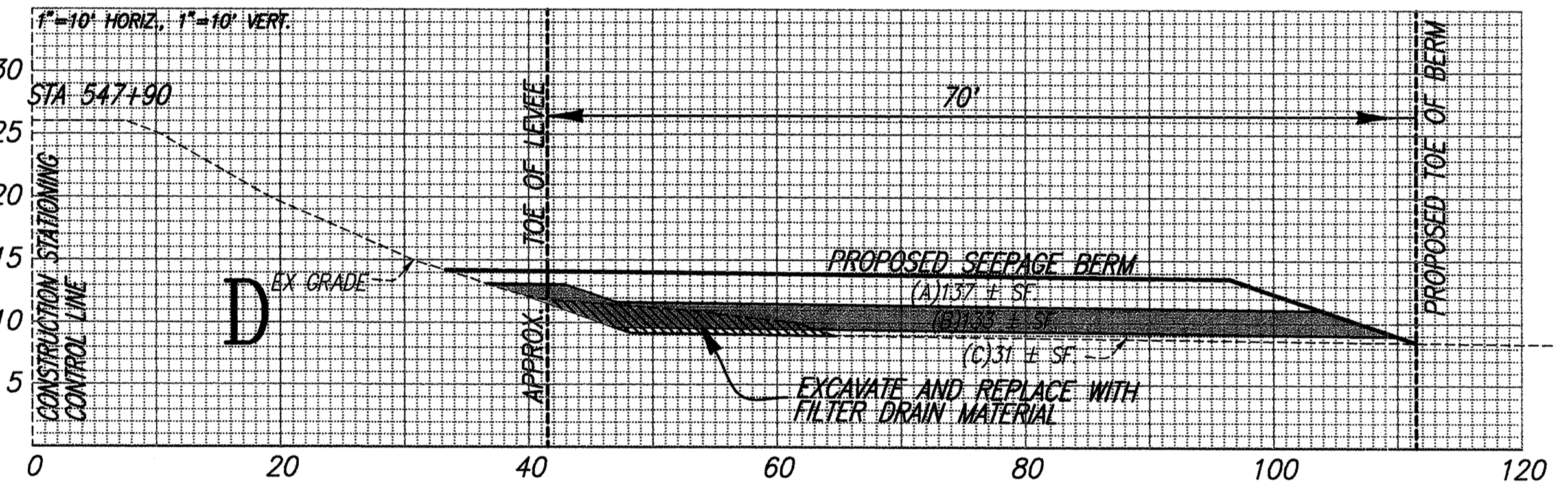
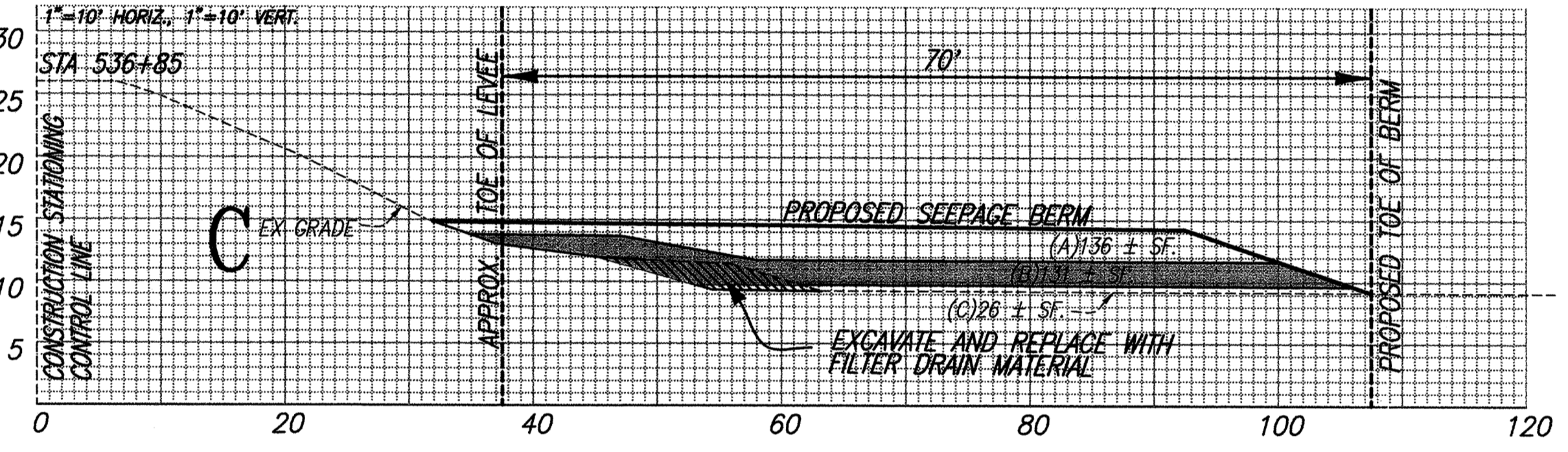
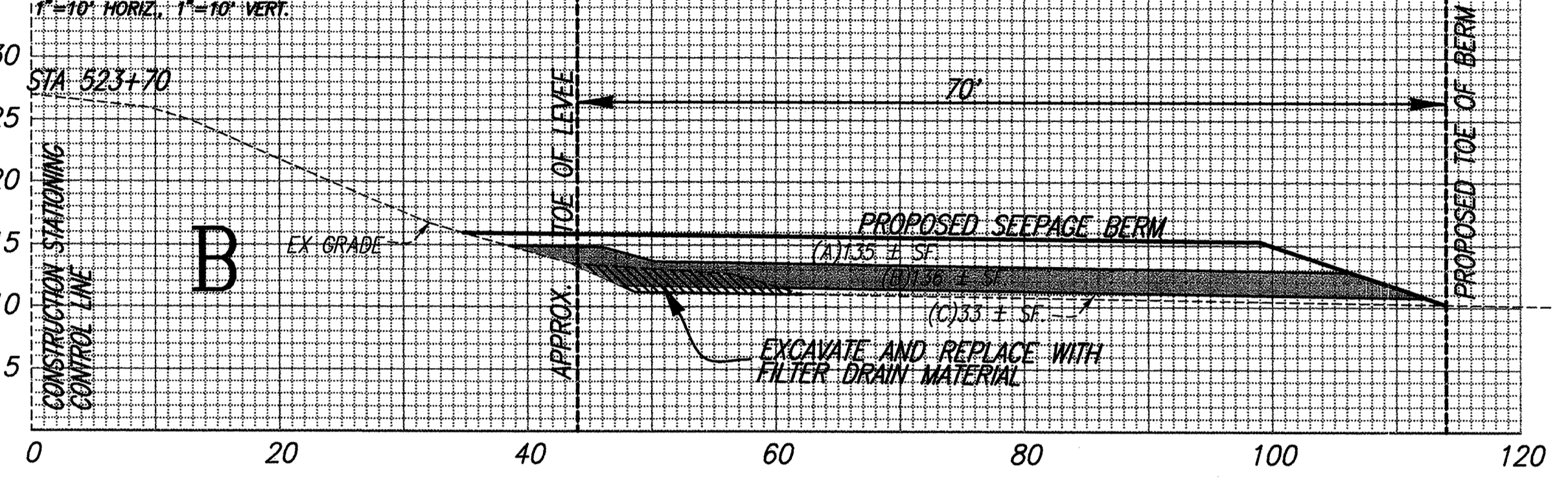
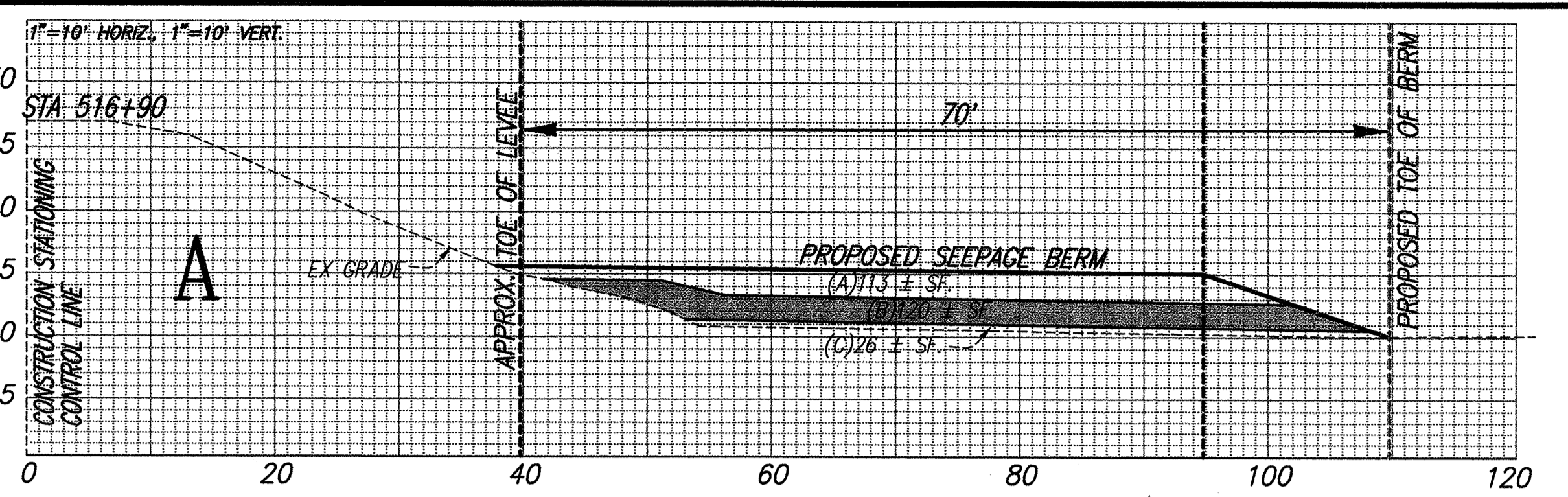


NOTE:
 AS PART OF THE CLSP PROJECT,
 THIS AREA WAS GRADED TO A FLAT
 PAD AT ELEVATION 9.0±



QUANTITIES LEGEND
 (A) -- SQUARE FEET OF SEEPAGE BERM
 FILL MATERIAL
 (B) -- SQUARE FEET OF DRAIN ROCK
 (C) -- SQUARE FEET OF FILTER MATERIAL

RECORD DRAWING
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.
 GARY OSTERHOUT RCE #35233
 EXP. 9/30/09



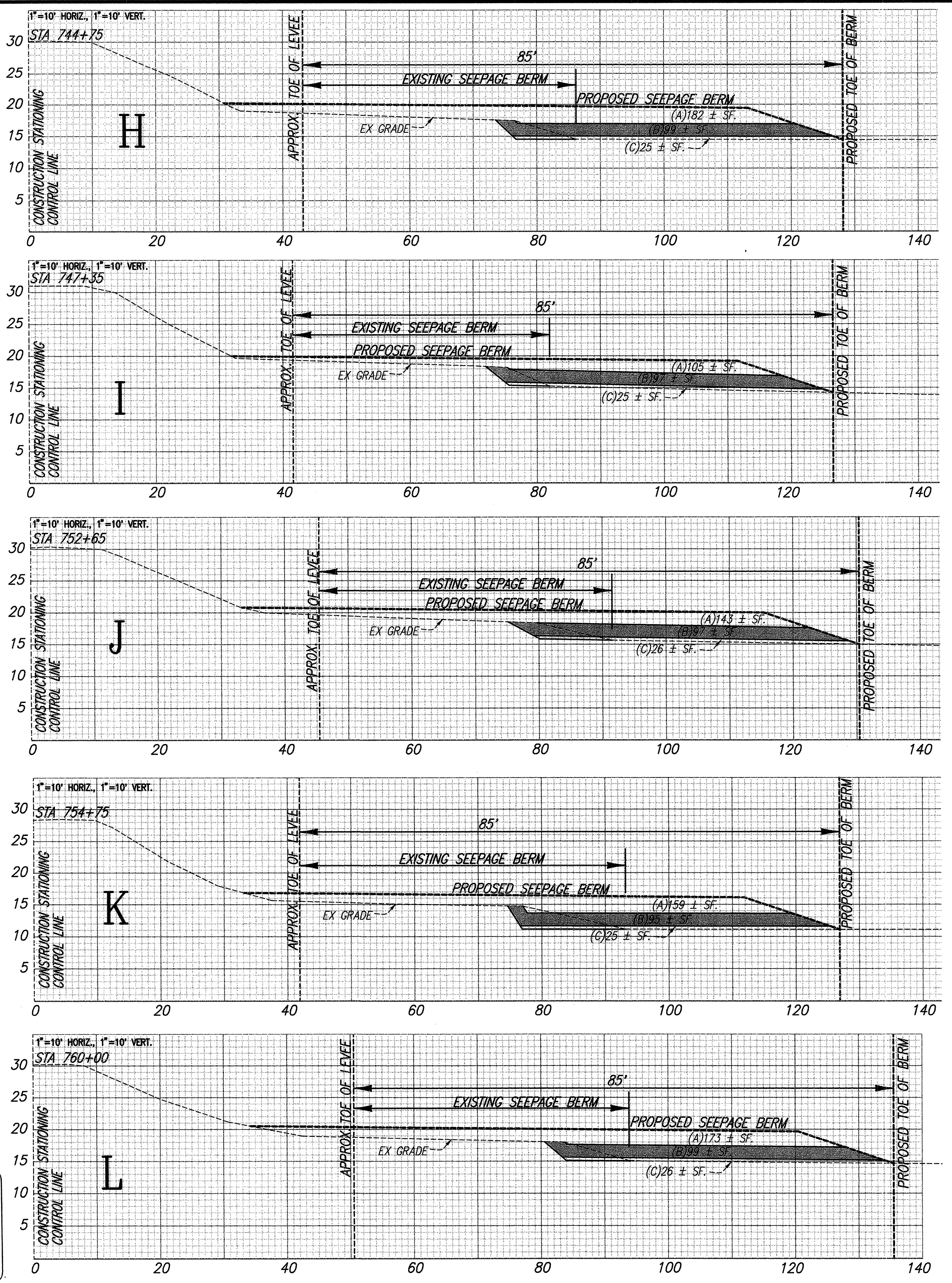
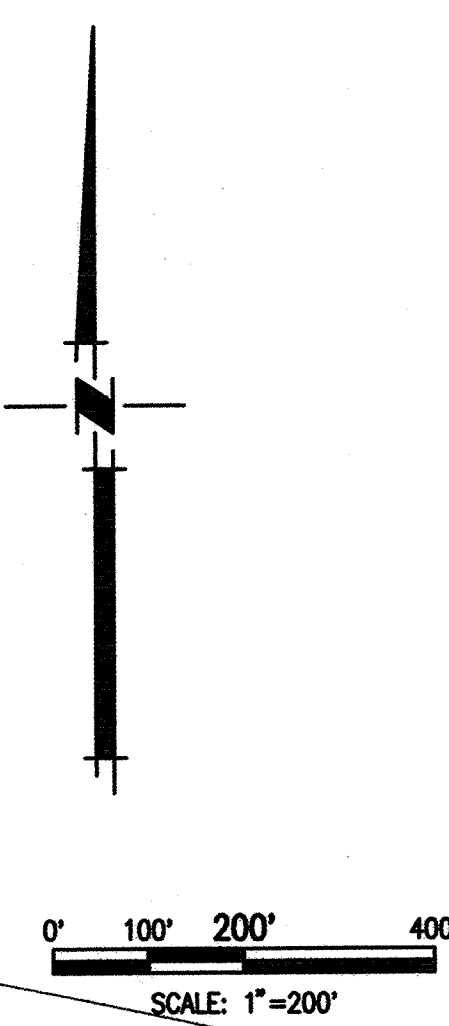
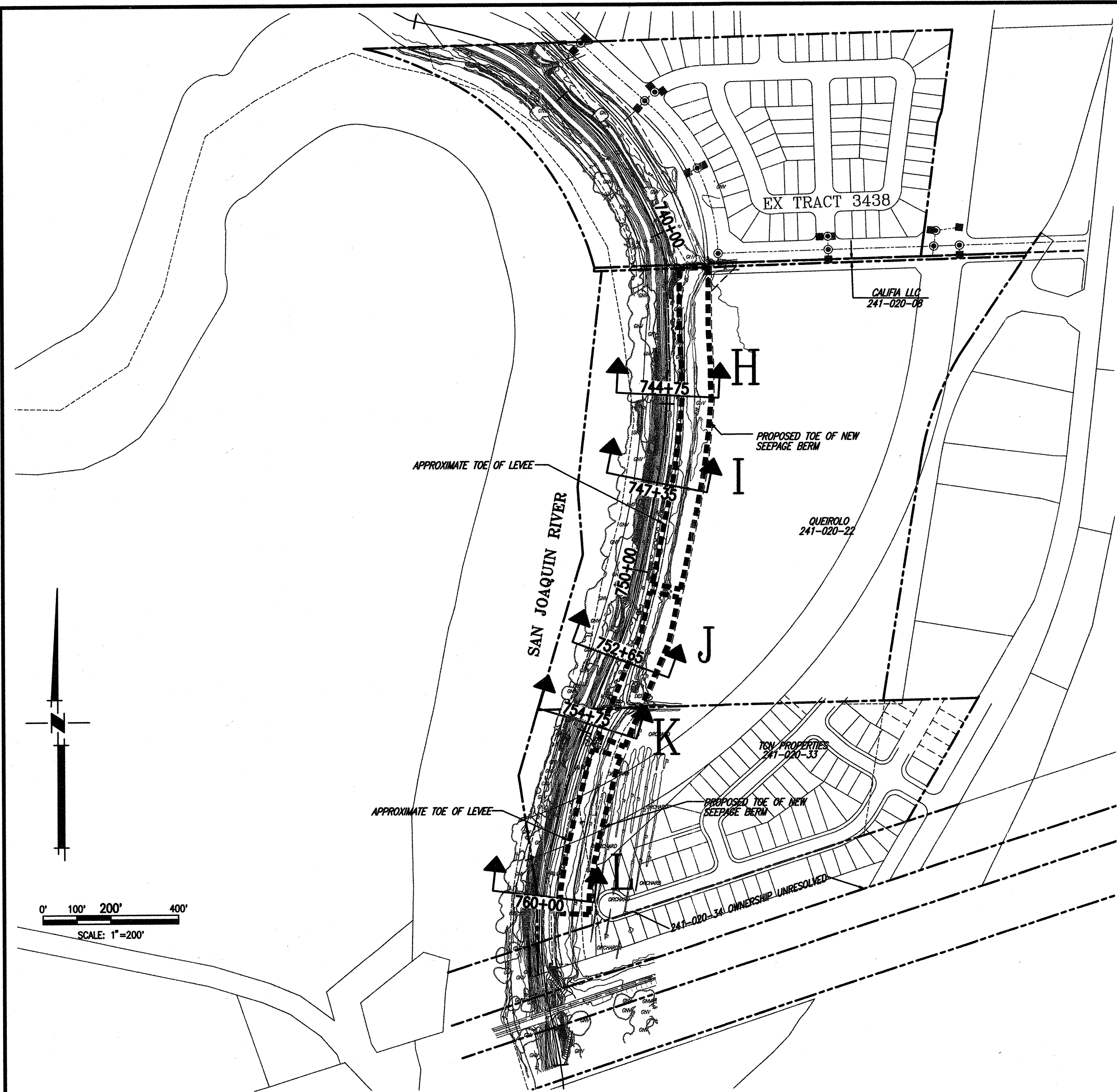
PLANS REVIEWED AND APPROVED BY:
K S KJELSDEN
S SINNOCK
INC. NEUDECK
 Consulting Engineers
 and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT
 ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE
 TRACT AREAS III & VII DATED SEPTEMBER 15, 2008
ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:
MACKAY & SOMPS
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690
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RECLAMATION DISTRICT NO. 17
MOSSDALE TRACT
 SELECTED CROSS SECTIONS FOR QUANTITIES (AREA III)
 SAN JOAQUIN COUNTY CALIFORNIA

DATE: 9.22.2008	PROJECT NO. 25126.03
SCALE: VARIES	SHT 7
DRAWN BY: EJM	OF 8
DESIGNED BY: JSI	
CHECKED BY: GO	



QUANTITIES LEGEND
 (A)--SQUARE FEET OF SEEPAGE BERM FILL MATERIAL
 (B)--SQUARE FEET OF DRAIN ROCK
 (C)--SQUARE FEET OF FILTER MATERIAL

WARNING • CAUTION
 EXISTING UNDERGROUND UTILITIES
 CONTACT : UNDERGROUND SERVICE ALERT
 PHONE: (800) 642-2444
 FOR MARKING PRIOR TO DIGGING

RECORD DRAWING
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.
 No. 35233
 EXP. 9/30/09
 CIVIL
 STATE OF CALIFORNIA
 Gary Osterhout 2/17/09
 GARY OSTERHOUT RCE #35233
 EXPIRES: SEPTEMBER 30, 2009

PLANS REVIEWED AND APPROVED BY:
K S INC. KJELDSSEN SINNOCK NEUDECK
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 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT AREAS III & VIB DATED SEPTEMBER 15, 2008
ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:
MACKAY & SOMPS
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94568 (925) 225-0590
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RECLAMATION DISTRICT NO. 17
MOSSDALE TRACT
 SELECTED CROSS SECTIONS FOR QUANTITIES (AREA VIB)
 SAN JOAQUIN COUNTY CALIFORNIA

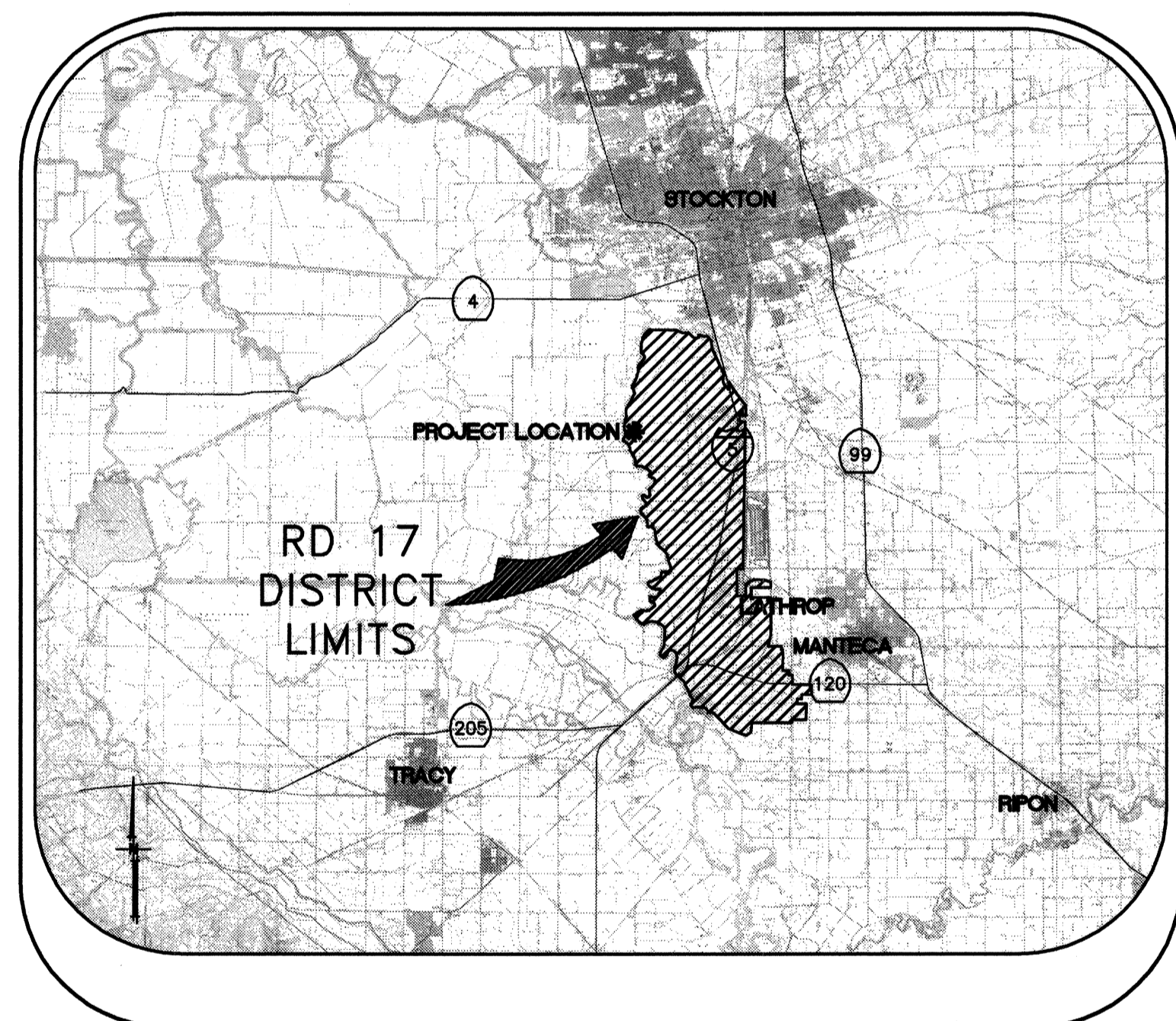
DATE: 9.22.2008	PROJECT NO. 25126.03
SCALE: VARIES	SHT 8
DRAWN BY: EUN	OF 8
DESIGNED BY: JSL	
CHECKED BY: GO	
DATE: 2/17/09	
NO. AS BUILT	REVISION

RECLAMATION DISTRICT NO. 17 LEVEE SEEPAGE PROJECT

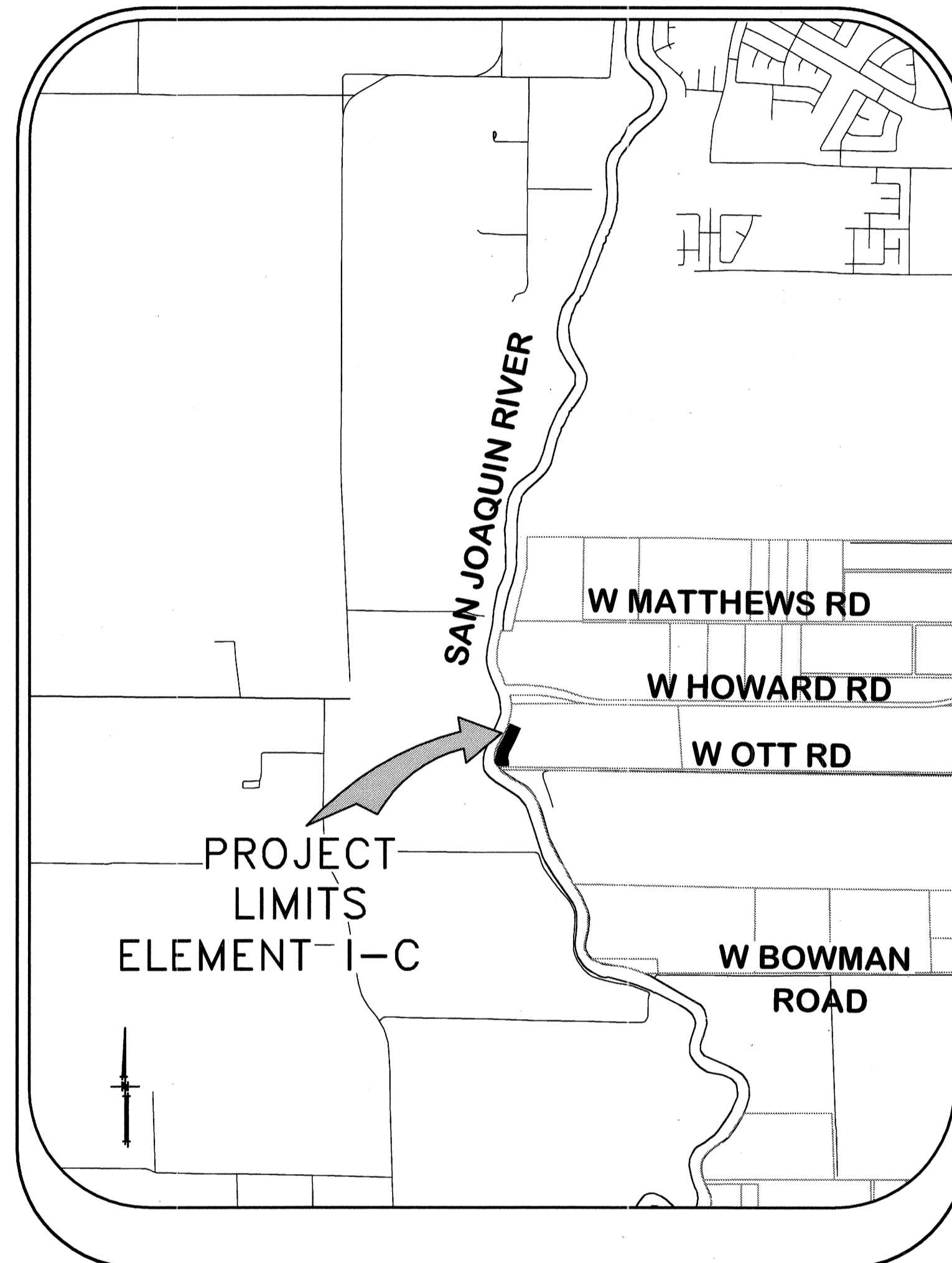
ELEMENT I-C

STATION 259+50 THRU 266+99

I-C



VICINITY MAP



PROJECT SITE MAP

SHEET	DESCRIPTION
1.	COVER SHEET
2.	STATIONING MAP / HAUL ROUTES
3.	NOTES & BORING LOCATIONS
4.	TYPICAL SECTIONS & DETAILS
5.	SEEPAGE BERM PLAN VIEW
6.	SEEPAGE BERM PROFILE VIEW


INDEX

REGISTERED PROFESSIONAL ENGINEER
 JAMES F. TEMPLETON
 No. 43061
 EXP. 3/31/12
 CIVIL
 STATE OF CALIFORNIA

RECORD DRAWINGS
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE EXCEPTIONS NOTED FOR FIELD CHANGES BROUGHT ABOUT AT THE DISCRETION OF THE ENGINEER BY THE PROJECT ARCHITECT, CONTRACTOR AND INSPECTOR.
 DATE: 6/17/09
 EXP. 4/30/12

PLANS REVIEWED AND APPROVED BY:

K S N
KJELDEN SINNOCK NEUDECK
 INC. Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT I-C DATED MARCH 13, 2009

ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

Mackay & Somps
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690
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RECLAMATION DISTRICT NO. 17
 ELEMENT I-C
 COVER SHEET
 SAN JOAQUIN COUNTY CALIFORNIA

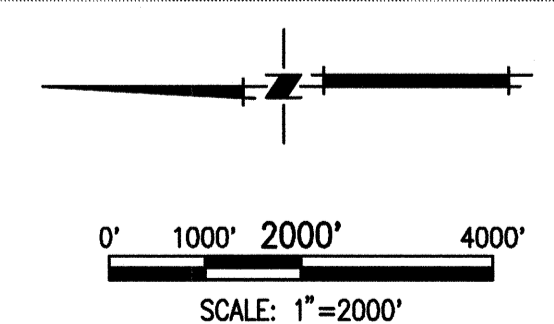
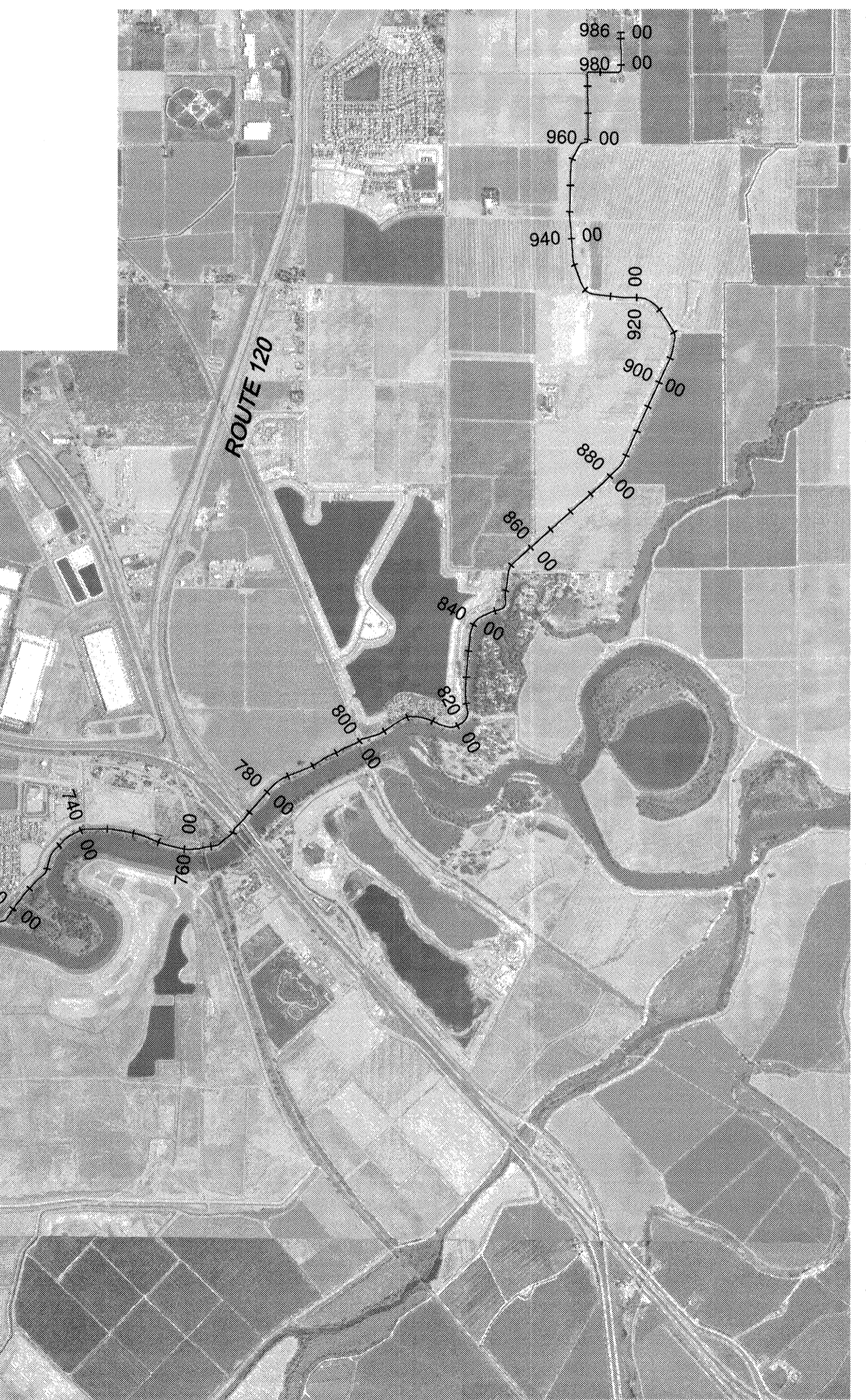
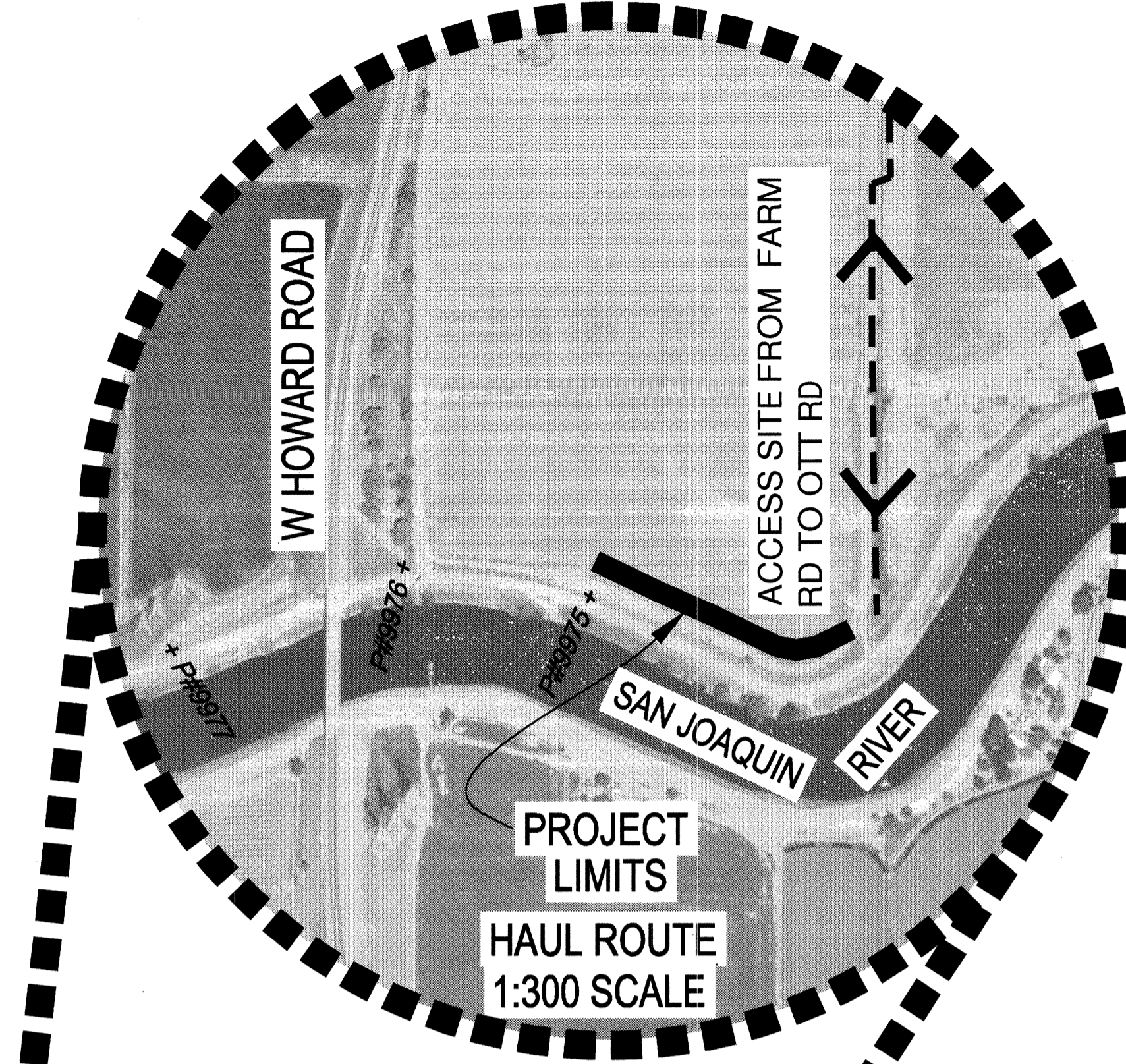
DATE: JULY 2009	PROJECT NO. 25126.03
SCALE: NOT TO SCALE	SHT 1 OF 6
DRAWN BY: EUN	
DESIGNED BY: CWG	
CHECKED BY: JSL	
NO. 3 AS-BUILTS 6-16-10	
2 ISSUE CONSTRUCTION DOCUMENTS 9/1/09	
1 REVISION TO ADDRESS PLAN CHECK COMMENTS 7/20/09	
NO. REVISION DATE	

CONTROL POINTS

P#10415- N=2143088.443 E= 6316456.734 ELEV=4.52 BRASSDISK STAMPED "S 474 1951"
 P#10414- N=2144759.653 E= 6333795.381 ELEV=14.05 BRASSDISK STAMPED "MATHEWS 1959"
 P# 9975- N=2142549.582 E=6321677.582 ELEV=20.94 3/4" IP
 P#9976- N=2142995.032 E=6321742.157 ELEV=20.59 3/4" IP
 P#9977- N=2143545.552 E=6321542.916 ELEV=20.53 3/4" IP

← ← ← → → →
 INDICATES HAUL ROUTES TO BE USED BY CONTRACTOR

THE BASIS OF BEARINGS IS NORTH 12D33°37.56" EAST BETWEEN NATIONAL GEODETIC SURVEY HORIZONTAL CONTROL POINTS HPGN-D CA 10 HG (PID AA4256) AND MATTHEW (PID HS0118), CALIFORNIA COORDINATE SYSTEM ZONE 3, NAD83, EPOCH DATE 1997.30, AS CALCULATED AND ADJUSTED BY THE NATIONAL GEODETIC SURVEY IN JULY, 1998, AS SHOWN ON RECORD OF SURVEY RECORDED AT BOOK 34 PAGES 163 - 163B, OF SAN JOAQUIN COUNTY RECORDS. ALL DISTANCES SHOWN HEREON ARE GROUND DISTANCES. TO CONVERT TO GRID DISTANCE, MULTIPLY GROUND DISTANCE BY AVERAGE COMBINED SCALE FACTOR OF 0.999929125. ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).



RECORD DRAWINGS
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE EXCEPTIONS NOTED FOR FIELD CHANGES BY THE PROJECT ENGINEER AND THE APPROVAL OF THE ENGINEER BY THE PROJECT ENGINEER AND INSPECTOR.
 No. 43061
 EXP. 3/31/12
 CIVIL
 STATE OF CALIFORNIA
 JAMES F. TEMPLE
 DATE: 6/17/10

PLANS REVIEWED AND APPROVED BY:
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 Stockton, CA 95201-0844
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 Faxes: (209) 946-0296
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THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT I-C DATED MARCH 13, 2009
ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971
 5/5/09

PLANS PREPARED UNDER THE DIRECTION OF:
Mackay & Somp's ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690
 EXP. 12/31/09
 CIVIL
 STATE OF CALIFORNIA

RECLAMATION DISTRICT NO. 17
ELEMENT I-C
 STATIONING MAP / HAUL ROUTES
 SAN JOAQUIN COUNTY CALIFORNIA

3	As-Built	6-16-10
2	ISSUE CONSTRUCTION DOCUMENTS	9/1/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09
NO.	REVISION	DATE

DATE: JULY 2009	PROJECT NO. 25126.03
SCALE: 1"=2000'	SHT 2
DRAWN BY: EUN	OF 6
DESIGNED BY: CWG	
CHECKED BY: JSL	

ROLES:

THE "DISTRICT" AS REFERRED TO IN THESE NOTES MEANS RECLAMATION DISTRICT 17.

THE "ENGINEER" AS REFERRED TO IN THESE NOTES MEANS THE DISTRICT ENGINEER: KJELSDEN SINNOCK AND NEUDECK. THE ENGINEER SHALL PROVIDE INSPECTION OF THE PROJECT AND OVERALL CONSTRUCTION MANAGEMENT INCLUDING COORDINATION WITH PUBLIC UTILITIES, PUBLIC AGENCIES, THE DESIGN ENGINEER AND THE GEOTECHNICAL ENGINEER.

THE "DESIGN ENGINEER" MEANS MACKAY AND SOMPS, CIVIL ENGINEERS INC. THE DESIGN ENGINEER WILL PERFORM DISTRIC PROVIDED CONSTRUCTION STAKING AND "AS-GRADED" SURVEYS.

THE "GEOTECHNICAL ENGINEER" MEANS ENGEO INC. THE GEOTECHNICAL ENGINEER WILL PROVIDE MATERIALS TESTING, COMPACTION TESTING AND OTHER GEOTECHNICAL RELATED TESTING.

CONTRACTOR SHALL BE RESPONSIBLE FOR SUPERVISION OF ALL CONTRACTOR'S EMPLOYEES, SUBCONTRACTORS, INCLUDING SCHEDULING AND ALL SAFETY MATTERS.

GENERAL NOTES:

- PRIOR TO THE COMMENCEMENT OF WORK, A JOINT INSPECTION BETWEEN THE ENGINEER OR HIS REPRESENTATIVE, AND THE CONTRACTOR OR HIS REPRESENTATIVE, WILL BE CONDUCTED TO REVIEW THE PRE-CONSTRUCTION CONDITIONS (E.G. ROADS, PUMPS DISCHARGE PIPES, SIPHONS, RAMPS, GATES, SIGNS, ETC.) IF SUCH EXISTING FACILITIES ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR, AT HIS EXPENSE, SHALL REPLACE OR RESTORE THEM TO THE CONDITION THAT EXISTED PRIOR TO THE COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT (209) 946-0268, A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.
- THE DISTRICT RESERVES THE RIGHT TO SUSPEND CONSTRUCTION AT ANY TIME IN THE EVENT OF EXTREME HIGH OR LOW TIDES, FLOOD EVENTS, OTHER CONDITIONS OR EMERGENCIES THAT MAY JEOPARDIZE THE INTEGRITY OF THE DISTRICT'S LEVEE AND ROAD SYSTEM.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, COUNTY AND LOCAL REQUIREMENTS, AS REQUIRED FOR TRAFFIC CONTROL AND PUBLIC SAFETY DURING PROJECT CONSTRUCTION.
- THE DISTRICT WILL FURNISH ALL RIGHT-OF-WAY FOR ALL LEVEE ROADS AND DESIGNATED ACCESS HAUL ROUTES. THE CONTRACTOR WILL SECURE RIGHT-OF-WAY FOR ALL OTHER AREAS NOT UNDER THE DISTRICT'S JURISDICTION.
- IF DELIVERING MATERIAL OR EQUIPMENT BY TRUCK, ALL TRUCK TRAFFIC SHALL BE LIMITED TO THE DISTRICT LEVEE ROADS AND/OR PUBLIC ROADS AS SHOWN ON HAUL ROUTE PLAN, UNLESS OTHERWISE APPROVED.
- MAXIMUM SPEED LIMIT ON DISTRICT LEVEE ROADS IS 30 MPH, OR AS POSTED. CONTRACTOR SHALL POST LARGE SLOW/CAUTION SIGNS AND SPEED LIMIT SIGNS FOR PURPOSES OF NOTIFYING BOTH CONTRACTOR'S EMPLOYEES AND THE PUBLIC. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFETY AT ALL TIMES ALONG ALL HAUL ROUTES AND IN ALL PROJECT AREAS (PUBLIC AND PRIVATE).
- THE DISTRICT WILL PROVIDE CONSTRUCTION SURVEY STAKES AS DESCRIBED IN CONSTRUCTION SURVEYING SECTION. PLEASE CONTACT KJELSDEN SINNOCK AND NEUDECK WITH STAKING REQUESTS (209-946-0268) WITH AT LEAST TWO WORKING DAYS ADVANCE NOTICE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CONSTRUCTION STAKING AND SURVEYING BEYOND THAT PROVIDED BY THE DISTRICT AS DESCRIBED IN THE CONSTRUCTION SURVEYING SECTION ON THIS SHEET.
- THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE DISTRICT, THE ENGINEER, THE DESIGN ENGINEER AND THE GEOTECHNICAL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DISTRICT, THE ENGINEER, THE DESIGN ENGINEER OR THE GEOTECHNICAL ENGINEER.
- ANY DEFICIENCIES NOTED DURING INTERIM AND FINAL INSPECTIONS BY THE ENGINEER AND/OR DISTRICT SHALL BE CORRECTED BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE BY THE DISTRICT. ANY ADDITIONAL COSTS AND EXPENSES FOR MOBILIZATION AND/OR DEMOBILIZATION, LABOR, EQUIPMENT AND OTHER ASSOCIATED COSTS REQUIRED TO CORRECT THE DEFICIENCIES NOTED, EXCEPT SPECIFIED MATERIAL(S), SHALL BE BORNE BY THE CONTRACTOR.
- THE CONTRACTOR SHALL NOT CLOSE ANY ROAD, STREET, OR HIGHWAY TO THE PUBLIC EXCEPT WITH THE PERMISSION OF THE ENGINEER AND THE PROPER GOVERNMENTAL AUTHORITY. TEMPORARY PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO ENSURE CONTINUOUS ACCESS TO PUBLIC AND PRIVATE DRIVEWAYS, AND PROPER FUNCTIONING OF CULVERTS, DRAINAGE AND IRRIGATION DITCHES, AND NATURAL WATER COURSES.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER, AND HE SHALL NOTIFY THE ENGINEER WHENEVER THERE IS A CHANGE IN SITE CONDITIONS OR AN ADJUSTMENT TO BE MADE IN WORK REQUIREMENTS.
- SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER AT (209) 946-0268 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
- THE INTENT OF THESE PLANS IS TO SERVE AS A GUIDE AND TO PROVIDE THE CONTRACTOR WITH INFORMATION AND DETAILS NECESSARY TO CONSTRUCT THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES AND AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATIONS. IF THE PLANS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE OSHA REGULATIONS AND SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL AT ALL TIMES BE RESPONSIBLE FOR THE SECURITY OF HIS PLANT AND EQUIPMENT. THE DISTRICT WILL NOT BE RESPONSIBLE FOR MISSING OR DAMAGED EQUIPMENT, TOOLS, OR PERSONAL BELONGINGS.

ENVIRONMENTAL NOTES:

- THE CONTRACTOR SHALL NOT DISCHARGE SMOKE, DUST, OR ANY OTHER AIR CONTAMINANTS INTO THE ATMOSPHERE IN SUCH QUANTITY AS WILL VIOLATE THE REGULATIONS OF ANY LEGALLY CONSTITUTED AUTHORITY. HE SHALL ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING AND SPRINKLING WITH WATER, OR OTHER MEANS AS NECESSARY. THE USE OF WATER IN AN AMOUNT WHICH RESULTS IN MUD ON PUBLIC ROADS IS NOT ACCEPTABLE AS A SUBSTITUTE FOR SWEEPING OR OTHER METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ADJACENT PUBLIC ROADS CLEAN & CLEAR FROM CONSTRUCTION IMPACTS OR DEBRIS.
- THE CONTRACTOR SHALL EXERCISE EVERY REASONABLE PRECAUTION TO PROTECT STREAMS, WATERWAYS AND OTHER BODIES OF WATER FROM POLLUTION WITH FUELS, OIL, BITUMEN'S, CALCIUM CHLORIDE, AND OTHER HAZARDOUS MATERIALS AND SHALL CONDUCT AND SCHEDULE HIS OPERATIONS SO AS TO AVOID OR MINIMIZE MUDDYING AND SILTING OF SAID WATERS. CARE SHALL BE EXERCISED TO PRESERVE ROADSIDE VEGETATION BEYOND THE LIMITS OF CONSTRUCTION.

ENVIRONMENTAL NOTES (cont'd):

- THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, AND UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE WORK SITE CONDITIONS CLEAN AND FREE FROM RUBBISH AND DEBRIS.

DUST AND MUD CONTROL:

- DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL KEEP ALL CONSTRUCTION AREAS, FILL AREAS, HAUL ROUTES, OTHER ROADWAYS, AND OTHER USE AREAS WHERE DUST IS GENERATED WELL WATERED; AND DURING WET CONDITIONS, AREAS USED BY LOCAL TRAFFIC, FREE AND CLEAR FROM MUD. CONTRACTOR SHALL PROVIDE EFFORTS NECESSARY TO MINIMIZE DUST AND OTHER DISTURBANCES NEAR EXISTING RESIDENCES AND ALL BUILDINGS NEAR HAUL ROUTES AND THE PROJECT SITE.
 - CROP DAMAGE: THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL TO PREVENT CROP DAMAGE AND FOR ANY AREAS IN ADDITION TO THOSE MENTIONED THAT GENERATE DUST AND/OR OTHER CONDITIONS WHICH MIGHT DAMAGE CROPS.
 - NON WORK DAYS: THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL THROUGHOUT THE DURATION OF THE PROJECT INCLUDING NON WORKDAYS IN ALL PROJECT AREAS, INCLUDING CONSTRUCTION ROADS AND CROP AREAS WHICH ARE USED BY THE CONTRACTOR, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL DEDICATE AT LEAST ONE (1) WATER TRUCK (OR MORE AS NEEDED OR DIRECTED BY THE ENGINEER) TO MAINTAIN ADEQUATE DUST CONTROL FOR THE FOLLOWING AREAS:
 - PROJECT AREAS
 - HAUL ROUTES
 - LEVEE TOE BERM FILL AREAS
 - OTHER CONSTRUCTION USE AREAS
 - CROP DAMAGE PREVENTION
 - RESIDENTIAL BUILDING AREAS

UTILITY NOTES:

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE ACTUAL LOCATION OF ALL UNDERGROUND, SURFACE, OVERHEAD, AND SUBMARINE IMPROVEMENTS, OR FACILITIES WHICH MAY BE SUBJECT TO DAMAGE BY REASON OF HIS OPERATIONS.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL SUCH FACILITIES IN THE AREA OF CONSTRUCTION, AND SHALL NOTIFY UTILITIES FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION. (UNDERGROUND SERVICE ALERT (800) 642-2444).
- THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES AND IRRIGATION AND DRAINAGE FACILITIES INCLUDING, BUT NOT LIMITED TO, SIPHONS, DITCHES, CROSSINGS, DISTRIBUTION BOXES, SLIDE GATES, ETC., DURING THE TERM OF THE CONTRACT. THE EXISTING IRRIGATION AND DRAINAGE FACILITIES MUST REMAIN FULLY OPERATIONAL DURING THE PERIOD OF CONSTRUCTION.

POWER LINES:

- THE CONTRACTOR SHALL TAKE NOTE OF THE POWER LINES WITHIN THE CONSTRUCTION ZONE. EXTREME CAUTION SHALL BE EXERCISED WHILE WORKING AROUND THE LIVE LINES.
- IF POWER POLES, LINES AND GUY WIRES ARE WITHIN THE IMMEDIATE WORK AREA, CONTRACTOR SHALL ADHERE TO ALL SAFETY STANDARDS AND REQUIREMENTS OF THE UTILITY COMPANY.
- FILL AROUND POLES SHALL BE PLACED AND COMPACTED IN A MANNER SO AS TO AVOID ANY ADVERSE IMPACTS TO THE INTEGRITY OF THE EXISTING POLES AND POWER SYSTEM & CONSISTENT WITH THE RECOMMENDATIONS OF THE SOILS REPORT.

TRAFFIC CONTROL:

- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AS DESCRIBED IN SPECIAL PROVISIONS, SECTION 1.12, "TRAFFIC CONTROL" AND DIVISION 2, SECTION 02429 "TRAFFIC CONTROL OF THE PROJECT SPECIFICATIONS (AS PREPARED BY THE ENGINEER)

CLEANUP:

- THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, AND UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE PREMISES OCCUPIED BY HIM IN A CLEAN AND ORDERLY CONDITION, DISPOSING OF REFUSE IN A MANNER SATISFACTORY TO THE ENGINEER.
- THE CONTRACTOR, UPON COMPLETION OF ALL WORK, SHALL RESTORE ALL HAUL ROUTES AND PROJECT SITES IN A MANNER SATISFACTORY TO THE ENGINEER AND THE DISTRICT.

CONSTRUCTION NOTES:

HAUL ROUTES:

- THE CONTRACTOR SHALL IMPROVE, MAINTAIN, AND REPAIR UPON COMPLETION, THE ACCESS ROADS AND HAUL ROUTES AS REQUIRED FOR TRANSPORTATION AND HAULING MATERIAL TO THE REPAIR AREAS.
- THE CONTRACTOR SHALL REVIEW THE HAUL ROUTES AND DETERMINE THE LOCATION FOR TURNOUTS, RAMPS, ROAD DRAINAGE, ALIGNMENT, ETC. UPON COMPLETION OF THE PROJECT, SOME PORTIONS OF THE HAUL ROUTES WHICH REMAIN SHALL BE LEFT IN GOOD CONDITION FOR THE DISTRICT, FARMERS, AND OTHER LOCAL TRAFFIC.
- THE HAUL ROUTES FOR THIS PROJECT MAY REQUIRE THE CONTRACTOR TO MODIFY AND REWORK THE GRADING OF THE EXISTING ROADS TO MEET THE CONTRACTOR'S HAULING AND ROAD DRAINAGE REQUIREMENTS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAKING ANY NECESSARY IMPROVEMENTS, MODIFICATIONS, AND ALTERATIONS TO MEET HIS REQUIREMENTS AND FOR THE MAINTENANCE OF ALL ACCESS ROADS AND HAUL ROUTES.
- THE CONTRACTOR'S EQUIPMENT SHALL BE RESTRICTED TO OPERATE ONLY ON THOSE HAUL ROUTES AND WITHIN THOSE SPECIFIED WORK AREAS INDICATED ON THE PLANS UNLESS OTHERWISE APPROVED BY THE ENGINEER, DISTRICT, AND LANDOWNERS.
- THE CONTRACTOR SHALL EXTEND, STRENGTHEN, REPLACE, OR OTHERWISE MODIFY THE EXISTING CROSSINGS (E.G. CULVERTS, SIPHONS, DRAIN PIPES, IRRIGATION PIPES, PUMP DISCHARGE PIPES, WET SPOTS, ETC.) AS NECESSARY TO ACCOMMODATE HIS EQUIPMENT. THE CONTRACTOR SHALL PROVIDE WHATEVER MEASURES ARE NECESSARY TO PRESERVE, PROTECT, AND MAINTAIN THE CROSSINGS SO AS TO ENSURE CONTINUOUS AND UNINTERRUPTED CONSTRUCTION OPERATIONS DURING THE ENTIRE TERM OF THIS CONTRACT.
- THE HAUL ROUTES MAY REQUIRE TEMPORARY IRRIGATION OR DISCHARGE PIPE EXTENSIONS AND RAMPING DURING CONSTRUCTION OPERATIONS. TEMPORARY EXTENSIONS AND RAMPING WILL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT HIS EXPENSE, INCLUDING REMOVAL IF REQUIRED, IN A MANNER WHICH MEETS WITH THE APPROVAL OF THE ENGINEER AND THE LANDOWNERS.
- NEITHER THE DISTRICT NOR THE ENGINEER MAKES ANY WARRANTY OR GUARANTEE AS TO THE ADEQUACY OF THE EXISTING MATERIALS TO SUPPORT THE CONSTRUCTION TRAFFIC ON THE HAUL ROUTES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAKING THE NECESSARY IMPROVEMENTS AND PROVIDING THE NECESSARY MEASURES REQUIRED TO ACCOMMODATE HIS ANTICIPATED NEEDS. REPAIRS TO HAUL ROUTES DAMAGED BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR MUST MAINTAIN ACCESS BY THE DISTRICT AND/OR PUBLIC (AS APPLICABLE) ON THE HAUL ROUTES USED AT ALL TIMES DURING CONSTRUCTION.

CLEARING & GRUBBING:

- UNLESS OTHERWISE INDICATED, THE WORK AREAS SHALL BE CLEARED AND GRUBBED BY THE CONTRACTOR. CONTRACTOR SHALL USE CAUTION WHILE CLEARING AND GRUBBING AROUND POWER LINES & BURIED ELECTRICAL CABLES. ALL MATERIAL CLEARED AND REMOVED SHALL BECOME THE PROPERTY AND RESPONSIBILITY OF THE CONTRACTOR FOR REMOVAL AND DISPOSAL OFFSITE. SOME PRUNING/TRIMMING/THINNING OF BRANCHES OR TREES MAY BE REQUIRED.

LEVEE SEEPAGE BERM SECTION:

- THE CONTRACTOR SHALL FURNISH, DELIVER, AND PLACE THE SPECIFIED MATERIALS (PER THE ENGINEER'S SPECIFICATIONS) AND UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER TO THE DESIGNATED SEEPAGE BERM SITES.
- THE SEEPAGE BERM SHALL BE CONSTRUCTED WITH ACCEPTABLE MATERIALS SUFFICIENT TO MEET DESIGN GRADES AND SPECIFICATIONS.
- ALL SUBGRADE AREAS RECEIVING THE FILTER DRAIN MATERIAL SHALL BE PREPARED AS REQUIRED BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR MAY BE REQUIRED TO PERFORM ADDITIONAL SUBGRADE PREPARATION WORK WITHIN THE SEEPAGE BERM AREAS PRIOR TO THE ACCEPTANCE OF THE MATERIAL.
- THE CONTRACTOR SHALL DELIVER THE FILTER DRAIN MATERIAL, DRAIN ROCK, AND SEEPAGE BERM FILL TO THE REQUIRED SECTIONS AS UNIFORM MIXTURES. THE MIXTURE SHALL BE DEPOSITED AND SPREAD TO THE REQUIRED COMPACTED THICKNESS. SEGREGATION OF MATERIAL SHALL BE AVOIDED AND EACH LAYER OF MATERIAL, AS SPREAD, SHALL BE FREE FROM POCKETS OF COARSE OR FINE MATERIAL.
 - THE FILTER DRAIN MATERIAL AND SEEPAGE BERM FILL SHALL BE PLACED IN LOOSE HORIZONTAL LAYERS NOT MORE THAN EIGHT INCHES (8") IN THICKNESS PRIOR TO COMPACTING. THE MATERIAL SHALL BE GENTLY SPREAD OUT, UNDER NO CIRCUMSTANCES SHALL ANY MATERIAL BE DROPPED FROM ANY HEIGHT ONTO THE FILL SECTION.
 - IF SEGREGATION OCCURS, MATERIAL SHALL BE WORKED UNTIL IT IS UNIFORMLY AND SATISFACTORILY BLENDED. AFTER SPREADING, THE MATERIAL SHALL BE WATERED AND SHAPED TO THE REQUIRED SECTION AND THEN COMPACTED AS SPECIFIED.
 - AT THE TIME MATERIALS ARE SPREAD, IT SHALL HAVE A MOISTURE CONTENT IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS. SUCH MOISTURE SHALL BE UNIFORMLY DISTRIBUTED THROUGHOUT THE MATERIAL.
- THE CONTRACTOR SHALL GRADE THE BASE OF THE SEEPAGE BERM TO MAINTAIN THE DESIGNATED GRADE AND CROSS-SECTIONS AS SHOWN ON THE PLANS. CONTRACTOR SHALL CUT AND FILL AS NECESSARY AND STOCKPILE ANY ADDITIONAL FILL FOR USE AS SEEPAGE BERM FILL.

FINISHING AND SLOPING GRADING:

- THE SURFACE OF THE TOP LAYER SHALL BE FINISHED TO THE DESIGNATED GRADE AND CROSS SECTION. THE FINISHED SURFACE SHALL BE OF UNIFORM TEXTURE, DRESSED AND GRADED TO DRAIN AND PREVENT WATER PONDING.

COMPACTION EQUIPMENT:

- COMPACTION SHALL BE PERFORMED WITH A NON-VIBRATORY TYPE ROLLER COMPACTOR. VIBRATORY EQUIPMENT WILL NOT BE PERMITTED ON LEVEE TOE BERM FILLS.

TESTING:

- THE DISTRICT WILL RETAIN ENGEO, INC. TO PERFORM SAMPLING AND TESTING AS REQUIRED AND TO CHECK FOR COMPLIANCE WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL ASSIST IN THE REMOVAL OF SURFACE MATERIALS AT LOCATIONS DESIGNATED BY THE TESTING ENGINEER AT NO COST TO THE DISTRICT. ENGEO, INC. WILL SAMPLE AND PERFORM ALL REQUIRED TESTS SUCH AS MOISTURE CONTENT; GRADATION, AND MOISTURE DENSITY RELATIONSHIPS ON THE EXCAVATED AND SEEPAGE BERM FILL MATERIALS.

GEOTEXTILE FABRIC:

- GEOTEXTILE FABRIC SHALL BE MIRAFI F7000 WOVEN GEOTEXTILE OR AN APPROVED EQUAL.
- THE GEOTEXTILE FABRIC SHALL BE PLACED WITHIN THE AREA DESIGNATED BETWEEN THE SEEPAGE BERM FILL AND THE DRAIN ROCK MATERIAL.
- MEASUREMENT AND PAYMENT WILL BE BY THE SQUARE FOOT NEAT (WITHOUT OVERLAP) AND BASED UPON THE FABRIC PLACED TO THE DIMENSIONS AND AT THE LOCATIONS DESIGNATED AND ACCEPTED BY THE ENGINEER.
- FOR PAYMENT PURPOSES, MEASUREMENT OF THE FABRIC PLACED WILL NOT INCLUDE OVERLAPS AS REQUIRED BY THESE PLANS.

ROAD PREP, MAINTENANCE, AND SWPPP:

- PER THE IMPROVEMENT PLANS AND SWPPP (AS PREPARED BY ENGEO), CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF REQUIRED:

- EROSION CONTROL FACILITIES
- CONSTRUCTION ENTRANCE
- STREET SWEEPING
- SITE/CONSTRUCTION MATERIALS MAINTENANCE
- SITE SECURITY

LEGEND

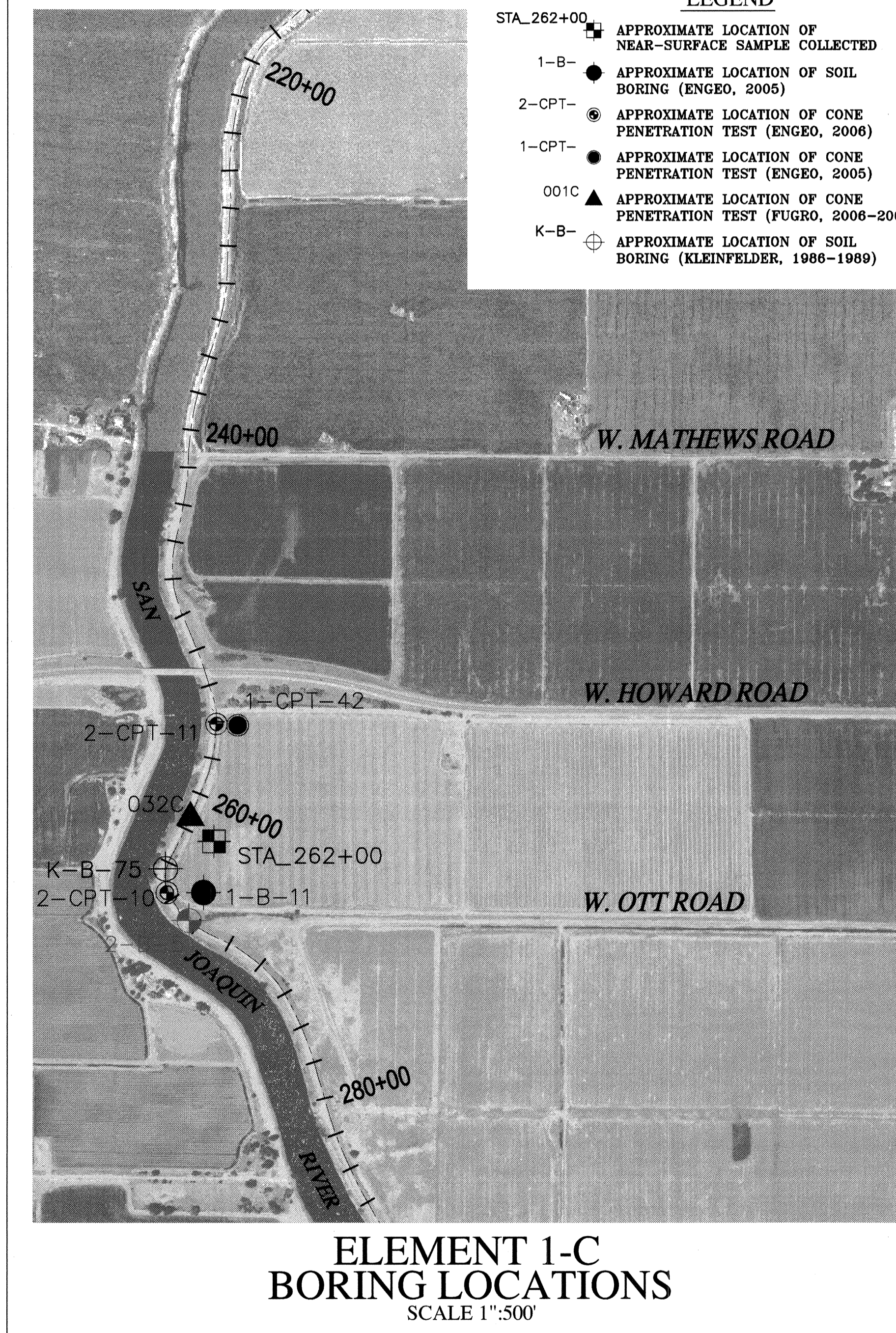
--- EX FC ---	EXISTING FACE OF CURB
--- EX ROW ---	EXISTING RIGHT OF WAY
--- EX SD/EX PERF PIPE ---	EXISTING STORM DRAIN
--- NEW PERF PIPE ---	NEW TOE DRAIN
--- EX W ---	EXISTING WATER LINE
--- EX RW ---	EXISTING RECYCLED WATER LINE
--- CONFORM ---	NEW SEEPAGE BERM SLOPE
--- TOP ---	
--- TOE ---	

CONSTRUCTION SURVEYING:

- ROUGH GRADE STAKING** - SET HORIZONTAL LOCATION STAKES EVERY 100 FEET ON TANGENTS AND EVERY 50 FEET ON CURVES AT THE DESIGN TOE OF THE SEEPAGE BERM. ALSO, SET POINTS AND CORRESPONDING MARKERS AT LOCATIONS THAT ARE OFFSET FROM THE EASTERLY TOE OF BERM EVERY 100 FEET ON TANGENTS AND EVERY 50 FEET ON CURVES. THE MARKER AT THE OFFSET POINT WILL BE LABELED WITH A VERTICAL CUT OR FILL DIMENSION FROM THE TOP OF THE POINT TO THE DESIGN ELEVATION OF THE TOE OF THE SEEPAGE BERM. WHERE GRADING FOR FUTURE TRAILS IS TO BE PROVIDED THROUGH THE FRONT SLOPE OF THE SEEPAGE BERM, THE OFFSET STAKES WILL BE MARKED ACCORDINGLY AT BEGINNING AND END OF TRAIL.
- IRRIGATION STAKES** - SET HORIZONTAL AND VERTICAL OFFSET STAKES AT 50-FOOT INTERVALS ON TANGENTS AND 25 FOOT INTERVALS ON CURVES.
- VERIFICATIONS DURING AND AFTER CONSTRUCTION** - UPON COMPLETION OF SUBSTANTIAL PORTIONS OF WORK AND WHEN REQUESTED BY CONTRACTOR, OBTAIN "AS-GRADED" ELEVATIONS (TYPICALLY AT 500' INTERVALS) TO VERIFY THE DEPTH OF PLACED MATERIAL RELATIVE TO THE ELEVATION AT THE TOE OF THE SEEPAGE BERM. THIS CHECK WILL BE PERFORMED TWICE (ONCE AFTER PLACEMENT OF DRAIN ROCK AND ONCE AFTER PLACEMENT OF BERM FILL MATERIAL). CUT/FILL SHEETS SHOWING DEPTHS OF THE PLACED MATERIAL WILL BE PROVIDED FOR EACH SURVEYED VERIFICATION.

LEGEND

STA_262+00	APPROXIMATE LOCATION OF NEAR-SURFACE SAMPLE COLLECTED
1-B-	APPROXIMATE LOCATION OF SOIL BORING (ENGEO, 2005)
2-CPT-	APPROXIMATE LOCATION OF CONE PENETRATION TEST (ENGEO, 2006)
1-CPT-	APPROXIMATE LOCATION OF CONE PENETRATION TEST (ENGEO, 2005)
001C	APPROXIMATE LOCATION OF CONE PENETRATION TEST (FUGRO, 2006-2007)
K-B-	APPROXIMATE LOCATION OF SOIL BORING (KLEINFELDER, 1986-1989)



ELEMENT 1-C BORING LOCATIONS
SCALE 1"=500'

REGISTERED PROFESSIONAL ENGINEER NO. 43061 EXP. 3/31/12 CIVIL STATE OF CALIFORNIA	RECORD DRAWINGS
	THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT AND THE CONDITIONS NOTED FOR FIELD CHANGES OR ADDITIONS SHALL BE THE RESPONSIBILITY OF THE ENGINEER BY THE CONTRACTOR'S SIGNED AND SCALED DRAWING AND INSCRIPTION.
	DATE: <u>JULY 2009</u>
	PROJECT NO. <u>25126.03</u>

REGISTERED PROFESSIONAL ENGINEER CIVIL STATE OF CALIFORNIA No. 43473 EXP. 6/30/2010

PLANS REVIEWED AND APPROVED BY: K S SINNOCK Consulting Engineers and Land Surveyors Post Office Box 844 711 N. Pershing Avenue Stockton, CA 95201-0844 Office: (209) 946-0268 Faxes: (209) 946-0296 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT I-C DATED MARCH 13, 2009 ENGEO INCORPORATED 5/5/09 EXCELLENT SERVICE SINCE 1971

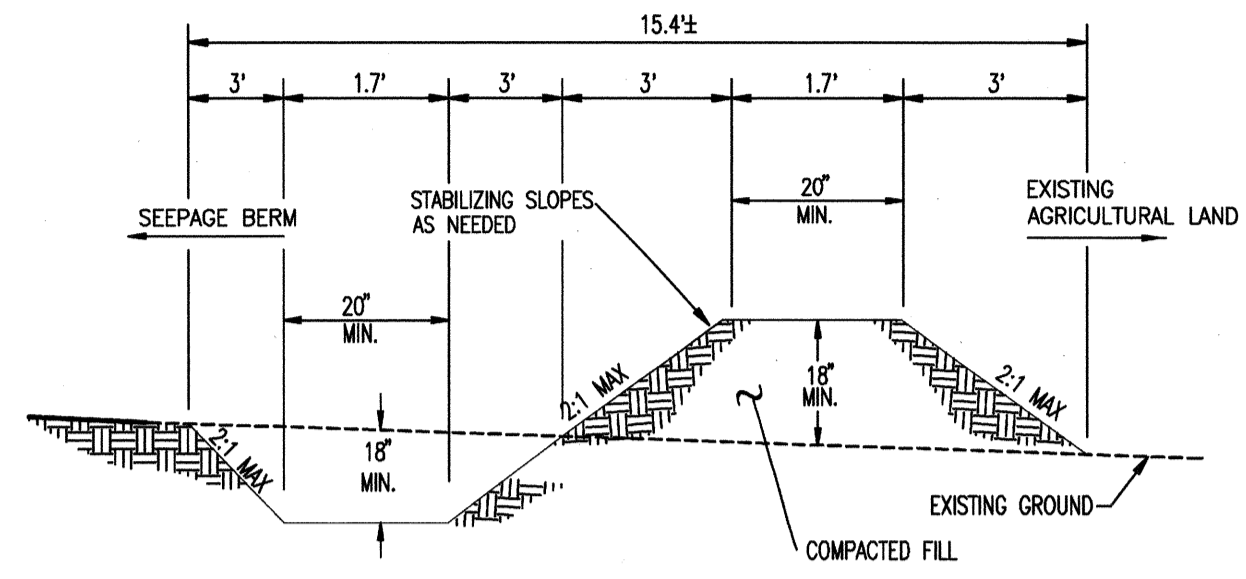
REGISTERED PROFESSIONAL ENGINEER CIVIL STATE OF CALIFORNIA No. 041637 EXP. 12/31/09

PLANS PREPARED UNDER THE DIRECTION OF: MACKAY & SOMPS ENGINEERS PLANNERS SURVEYORS 5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0980 MACKAY & SOMPS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF REPRODUCTIONS OF THIS DOCUMENT THAT ARE GENERATED BY OTHERS FROM ELECTRONIC MEDIA.

RECLAMATION DISTRICT NO. 17 ELEMENT 1-C NOTES & BORING LOCATIONS

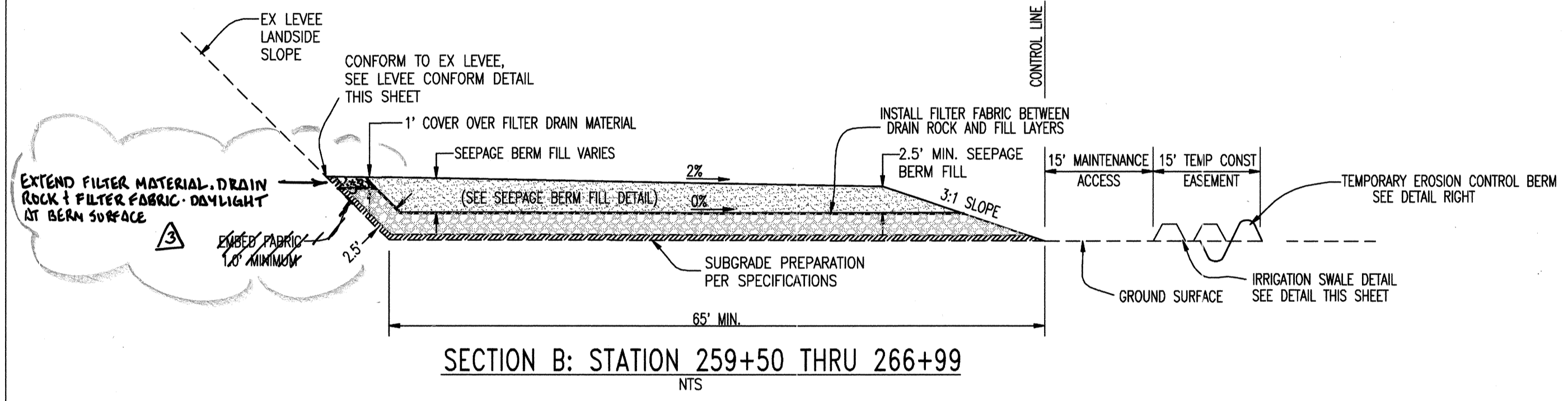
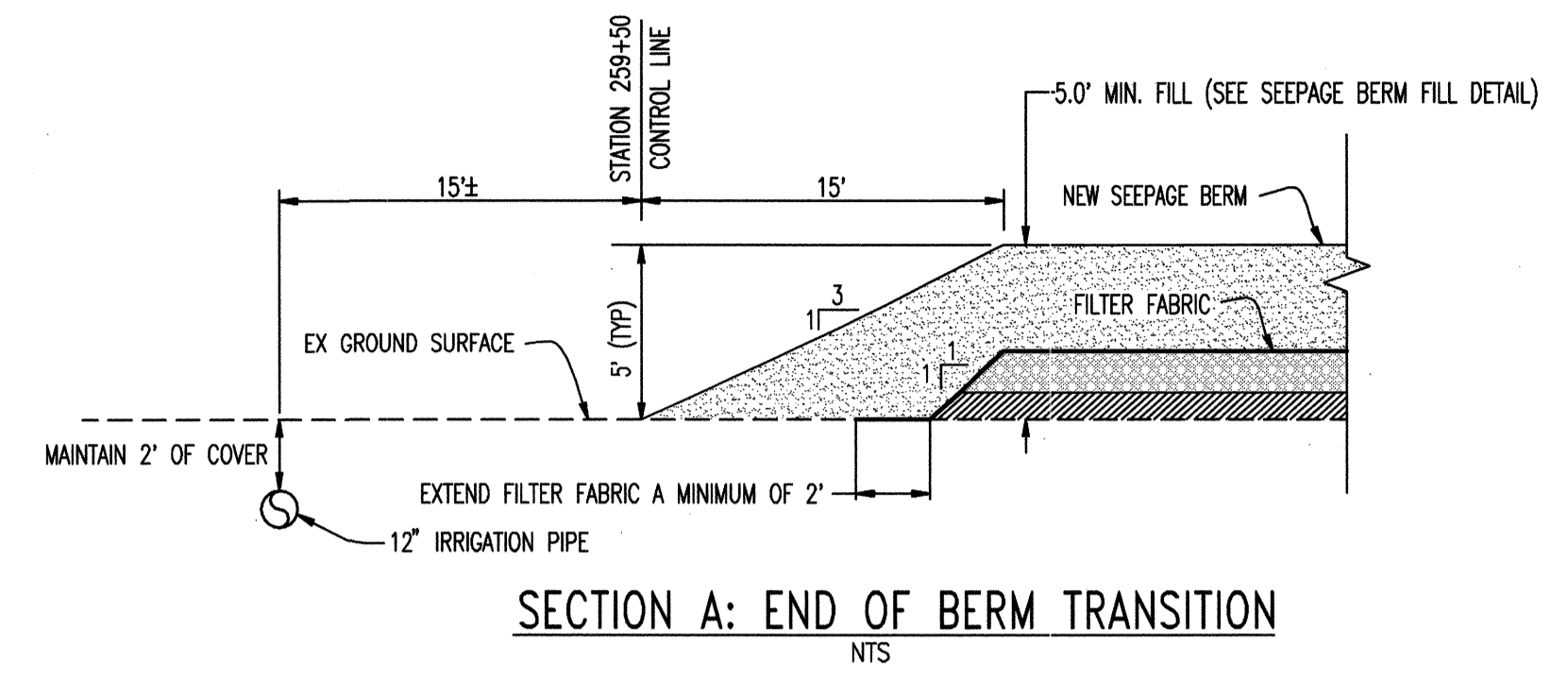
NO.	REVISION	DATE
3	AS-BUILT	6-16-10
2	ISSUE CONSTRUCTION DOCUMENTS	9/1/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

CHECKED BY: <u>JSL</u>	OF <u>6</u>
DRAWN BY: <u>EJN</u>	SHT <u>3</u>
DESIGNED BY: <u>CWG</u>	
SCALE: _____	

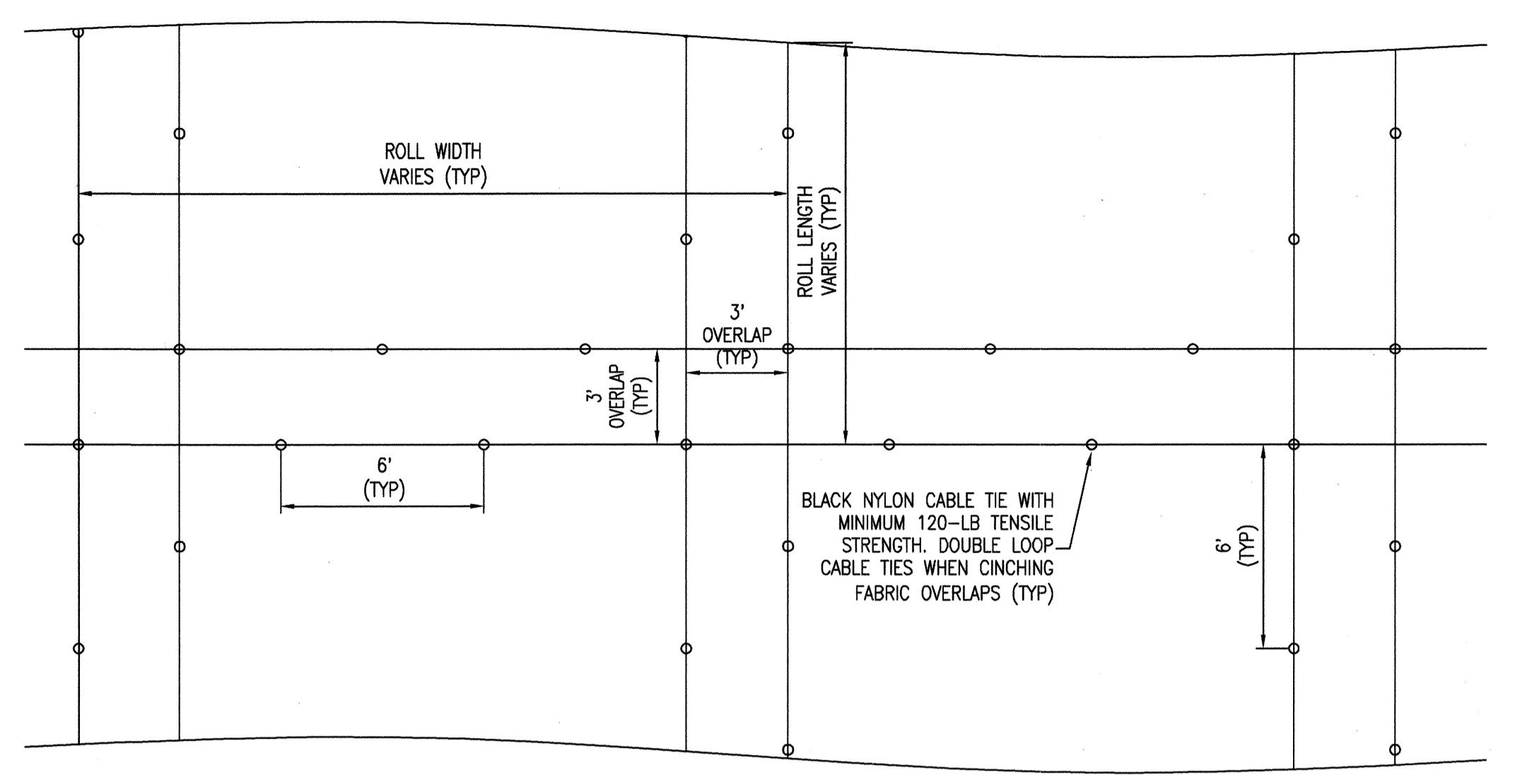


NOTES:
 1. STABILIZE SLOPE PER GEOTECHNICAL ENGINEERS RECOMMENDATION
 2. SWALE TO BE REMOVED UPON COMPLETION OF SEEPAGE BERM CONSTRUCTION

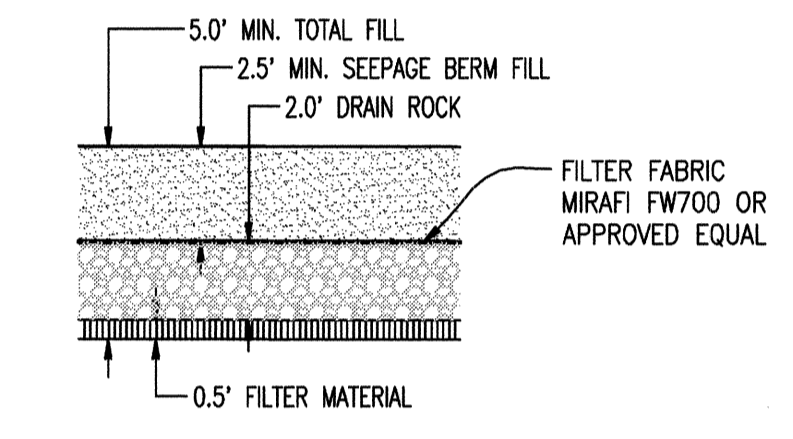
NOT TO SCALE
TYPICAL EROSION CONTROL BERM



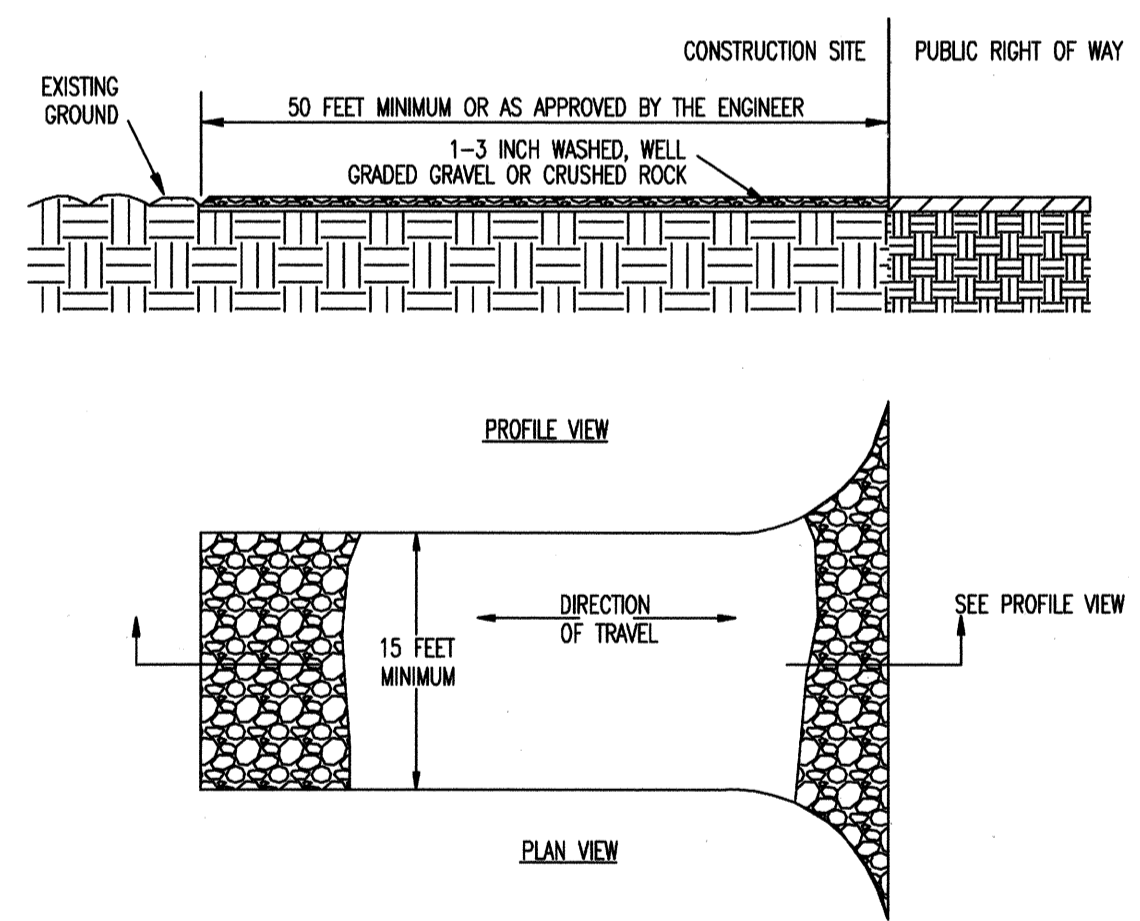
SECTION B: STATION 259+50 THRU 266+99
 NTS



TYPICAL MIRAFI FW700 OVERLAP INSTALLATION DETAIL
 NTS

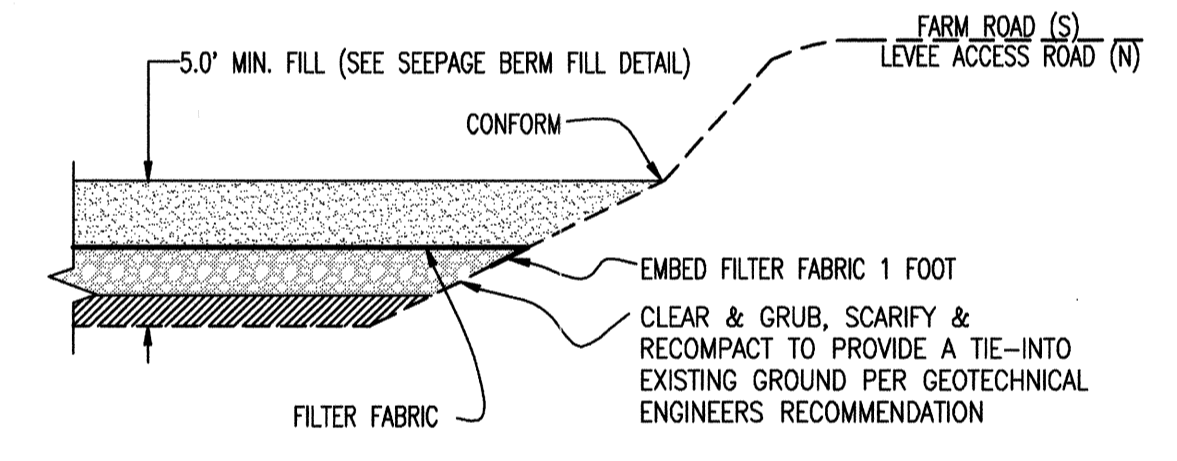


SEEPAGE BERM FILL DETAIL
 NTS

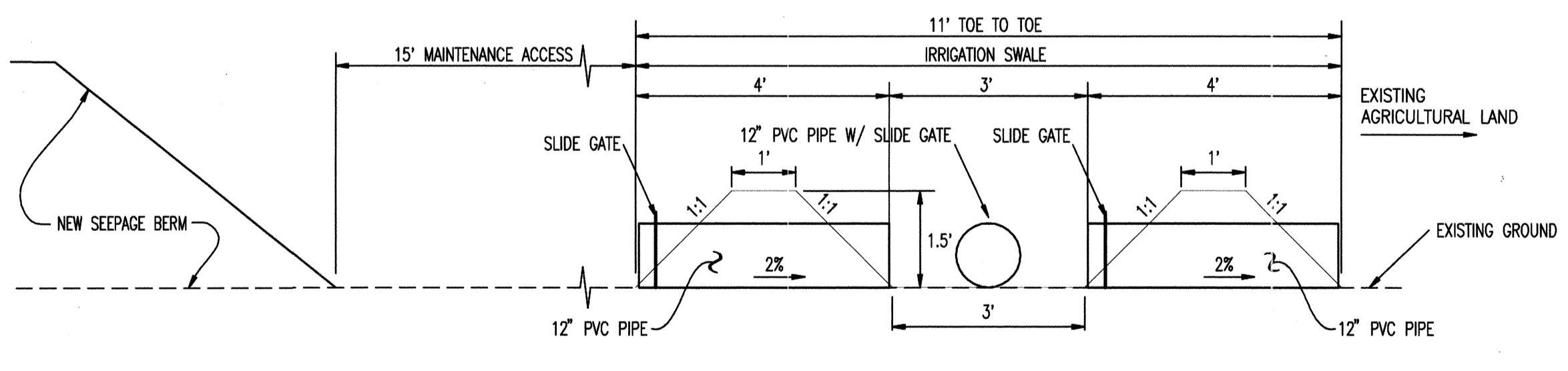


NOTES:
 1. CONSTRUCT AT ALL ENTRANCES TO THE PROJECT SITE AS APPROVED BY THE ENGINEER
 2. THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING WITH ROCK MATERIAL
 3. ACCESSSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL WITH MAINTENANCE PROVIDED AS NECESSARY. PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.

NOT TO SCALE
STABILIZED CONSTRUCTION SITE ACCESS

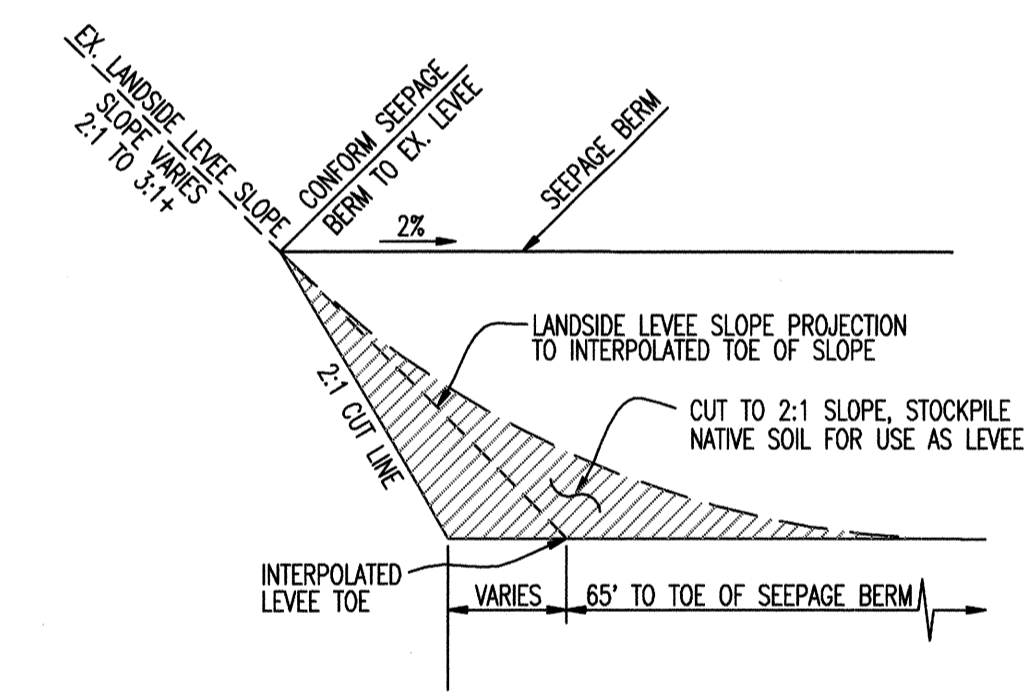


SECTION C: END OF BERM TRANSITION
 NTS

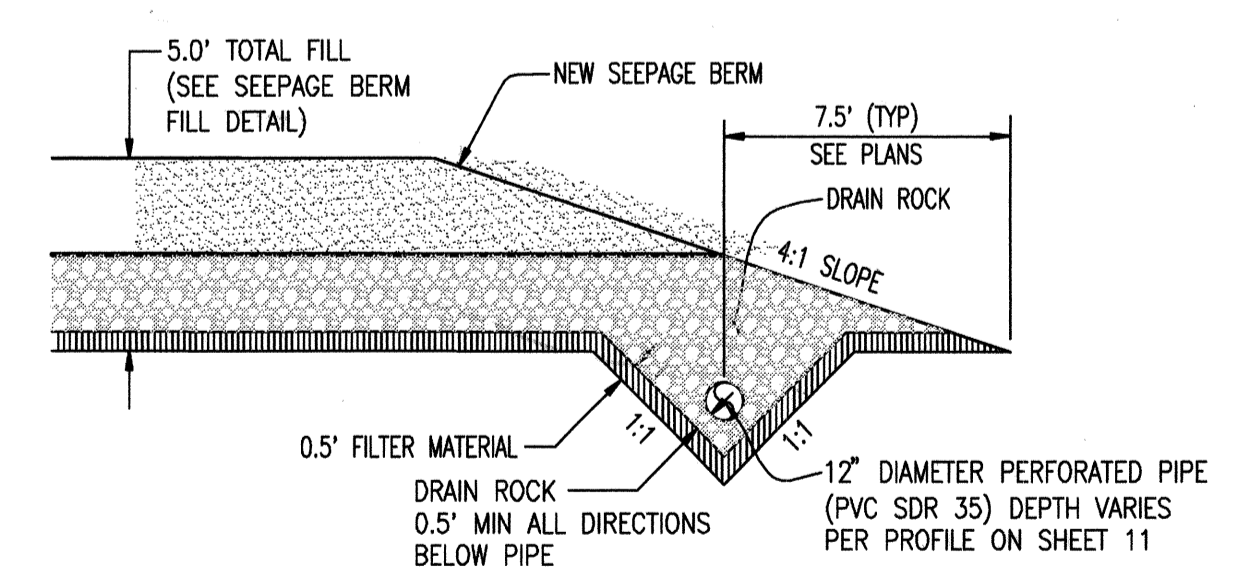


SECTION D: IRRIGATION SWALE DETAIL
 NTS

NOTE: TO BE CONSTRUCTED AFTER CONSTRUCTION OF BERM AND REMOVAL OF TEMP. EROSION BERM



LEVEE CONFORM DETAIL
 NTS



TOE DRAIN DETAIL
 NTS

RECORD DRAWINGS
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES.
 PROJECT NO. 25126.03
 DATE: JULY 2009
 SCALE: 1/8" = 1'-0"
 DRAWN BY: EUN
 DESIGNED BY: CWG
 CHECKED BY: JSL
 PROJECT NO. 25126.03
 SHEET 4 OF 6

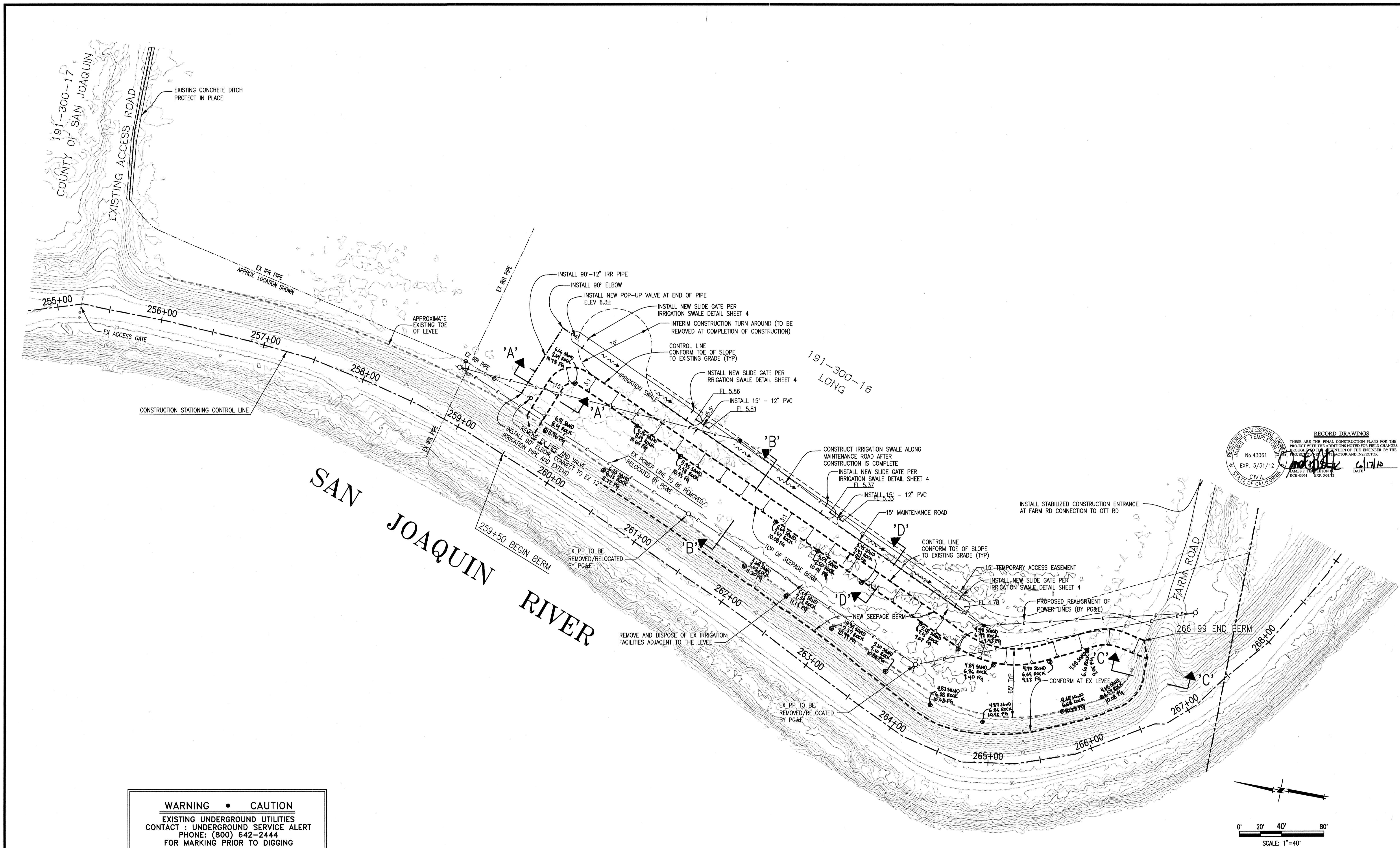
PLANS REVIEWED AND APPROVED BY:
KJELSDEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT I-C DATED MARCH 13, 2009
ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971
 5/15/09

PLANS PREPARED UNDER THE DIRECTION OF:
Mackay & Somp
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690
 SAN JOAQUIN COUNTY CALIFORNIA

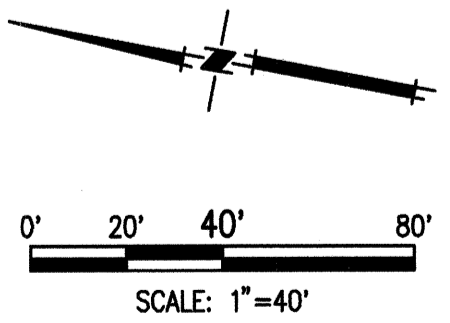
RECLAMATION DISTRICT NO. 17
 ELEMENT I-C
 TYPICAL SECTIONS AND DETAILS

NO.	REVISION	DATE
4	AS SHOWN	6-16-09
3	REVISE BERM SECTION ADJACENT TO LEVEE	10-8-09
2	ISSUE CONSTRUCTION DOCUMENTS	9/1/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09



RECORD DRAWINGS
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES. PROCEED WITH THE CONSTRUCTION OF THE ENGINEER BY THE PROJECT OWNER. THE CONTRACTOR AND INSPECTOR.
 No. 43061
 EXP. 3/31/12
 CIVIL
 STATE OF CALIFORNIA
 JAMES F. TEMPLETON
 RCE 49661 EXP. 3/31/12
 DATE: 6/17/10

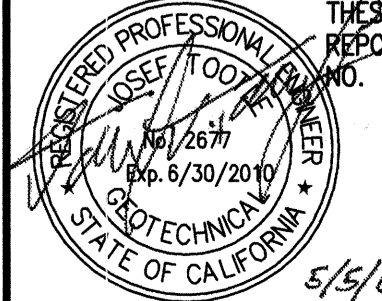
WARNING • CAUTION
 EXISTING UNDERGROUND UTILITIES
 CONTACT : UNDERGROUND SERVICE ALERT
 PHONE: (800) 642-2444
 FOR MARKING PRIOR TO DIGGING



TOPOLOGY SOURCE: LIDAR TOPO--SUMMER 2008

PLANS REVIEWED AND APPROVED BY:

K S
KJELDEN
SINNOCK
NEUDECK
INC. Consulting Engineers
 and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

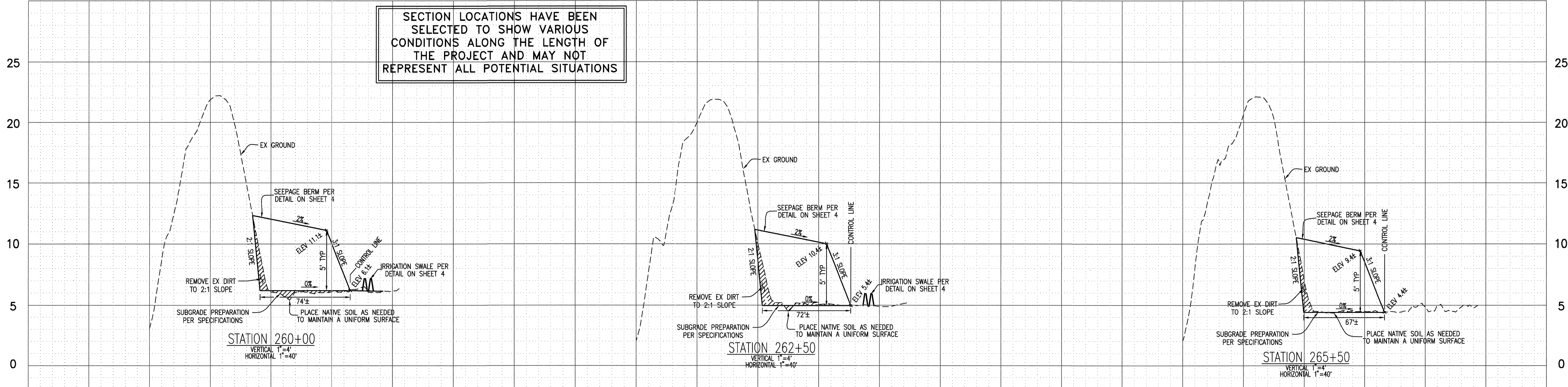
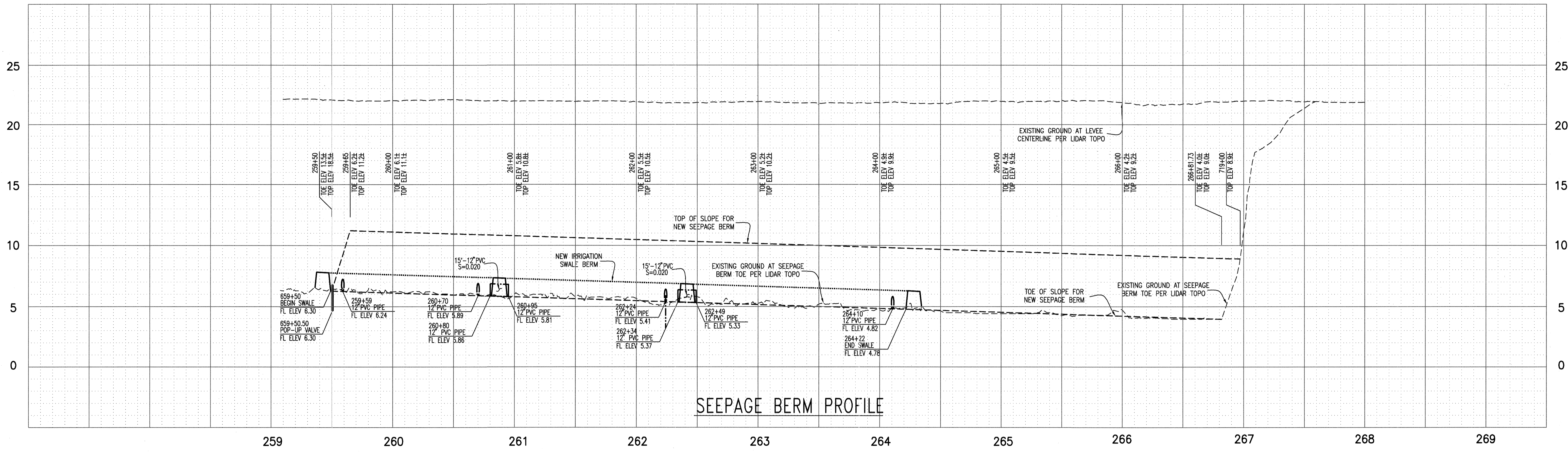
THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT I-C DATED MARCH 13, 2009

ENGEIO
INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

Mackay & Somps
ENGINEERS PLANNERS SURVEYORS
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RECLAMATION DISTRICT NO. 17
ELEMENT I-C
SEEPAGE BERM PLAN VIEW
 SAN JOAQUIN COUNTY CALIFORNIA

DATE: JULY 2009		PROJECT NO. 25126.03
SCALE: 1"=40'		SHT 5
DRAWN BY: EUN		OF 6
DESIGNED BY: CWG		
CHECKED BY: JSL		
3 ADD AS-BUILT INFO INFORMATION 2 ISSUE CONSTRUCTION DOCUMENTS 1 REVISION TO ADDRESS PLAN CHECK COMMENTS	4/17/10 9/1/09 7/20/09	
NO.	REVISION	DATE



SECTION LOCATIONS HAVE BEEN SELECTED TO SHOW VARIOUS CONDITIONS ALONG THE LENGTH OF THE PROJECT AND MAY NOT REPRESENT ALL POTENTIAL SITUATIONS

RECORD DRAWINGS
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT AND ANY CHANGES NOTED FOR FIELD CHANGES MUST BE APPROVED BY THE ENGINEER BY THE PROJECT ARCHITECT AND INSPECTOR.
 REGISTERED PROFESSIONAL ENGINEER
 JAMES F. TEMPLETON, No. 43061
 EXP. 3/31/12
 CIVIL ENGINEER
 STATE OF CALIFORNIA
 DATE: 6/17/09

PLANS REVIEWED AND APPROVED BY:

K S INC.
KJELDEN SINNOCK NEUDECK
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT I-C DATED MARCH 13, 2009

ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971
 5/5/09

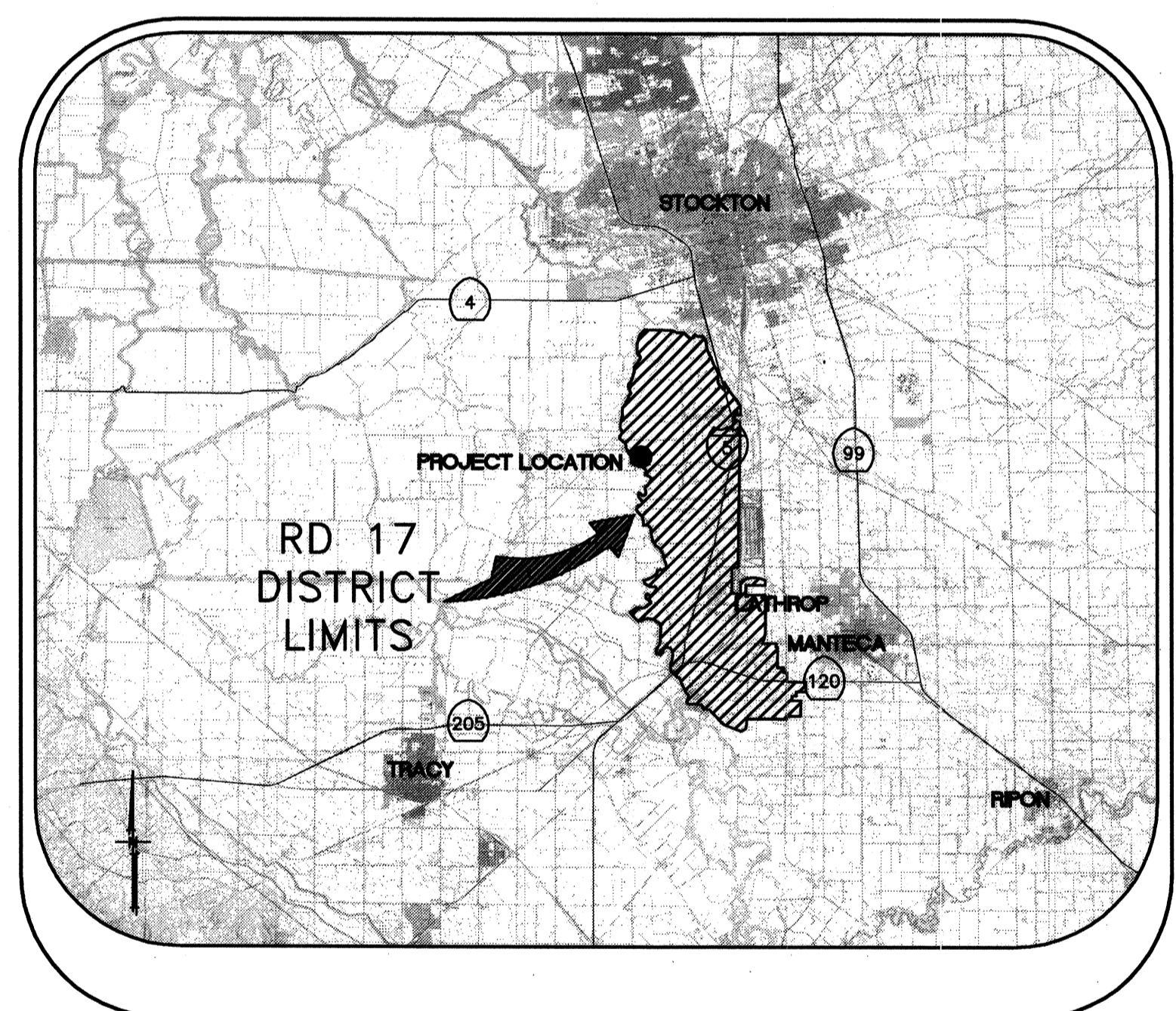
PLANS PREPARED UNDER THE DIRECTION OF:

MACKAY & SOMPS
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690
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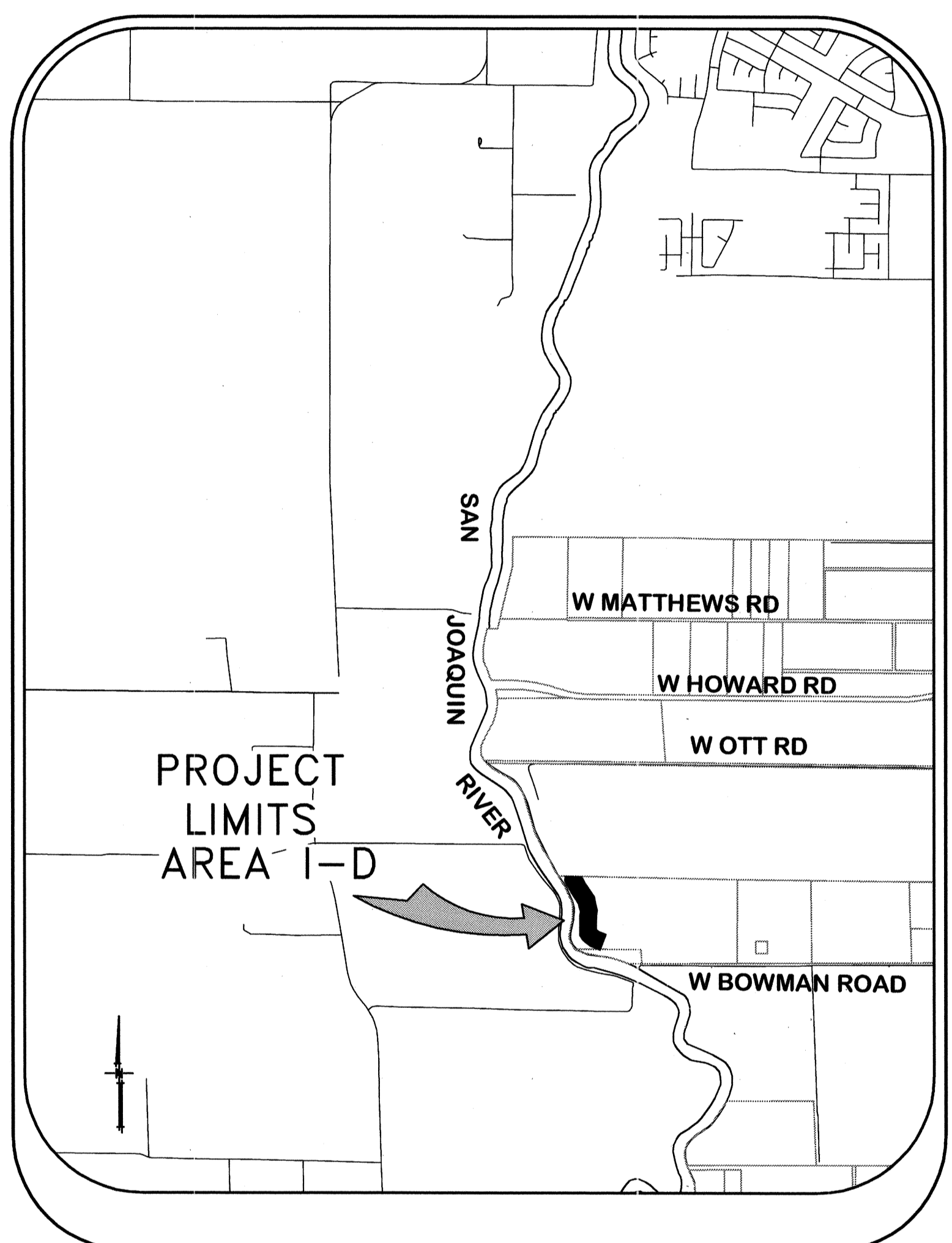
RECLAMATION DISTRICT NO. 17
 ELEMENT I-C
 SEEPAGE BERM PROFILE VIEW
 SAN JOAQUIN COUNTY CALIFORNIA

DATE:	JULY 2009	PROJECT NO.:	25126.03
SCALE:		SHEET:	6
DRAWN BY:	EJN	OF:	6
DESIGNED BY:	CWG		
CHECKED BY:	JSL		
DATE:	7/20/09		
NO.	3	REVISION	
	2	ISSUE CONSTRUCTION DOCUMENTS	
	1	REVISION TO ADDRESS PLAN CHECK COMMENTS	

RECLAMATION DISTRICT NO. 17 LEVEE SEEPAGE PROJECT ELEMENT I-D STATION 297+75 THRU 306+00



VICINITY MAP



PROJECT SITE MAP


SHEET	DESCRIPTION
1.	COVER SHEET
2.	STATIONING MAP / HAUL ROUTES
3.	NOTES & BORING LOCATIONS
4.	TYPICAL SECTIONS & DETAILS
5.	SEEPAGE BERM PLAN VIEW
6.	SEEPAGE BERM PROFILE VIEW
7 - 9	THRU SEEPAGE CROSS-SECTIONS 4

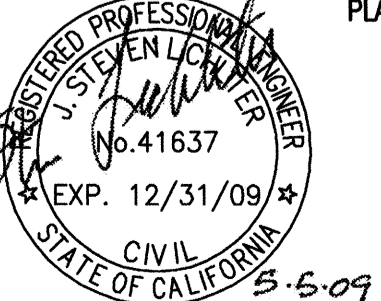
INDEX

RECORD DRAWINGS
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES REQUESTED BY THE SUPERVISOR OF THE ENGINEER BY THE PROJECT OWNER, ARCHITECT, INSPECTOR AND INSPECTOR.
 No. 43061
 EXP. 3/31/12
 CIVIL
 STATE OF CALIFORNIA
 JAMES F. TEMPLE
 DATE: 6/7/12

PLANS REVIEWED AND APPROVED BY:

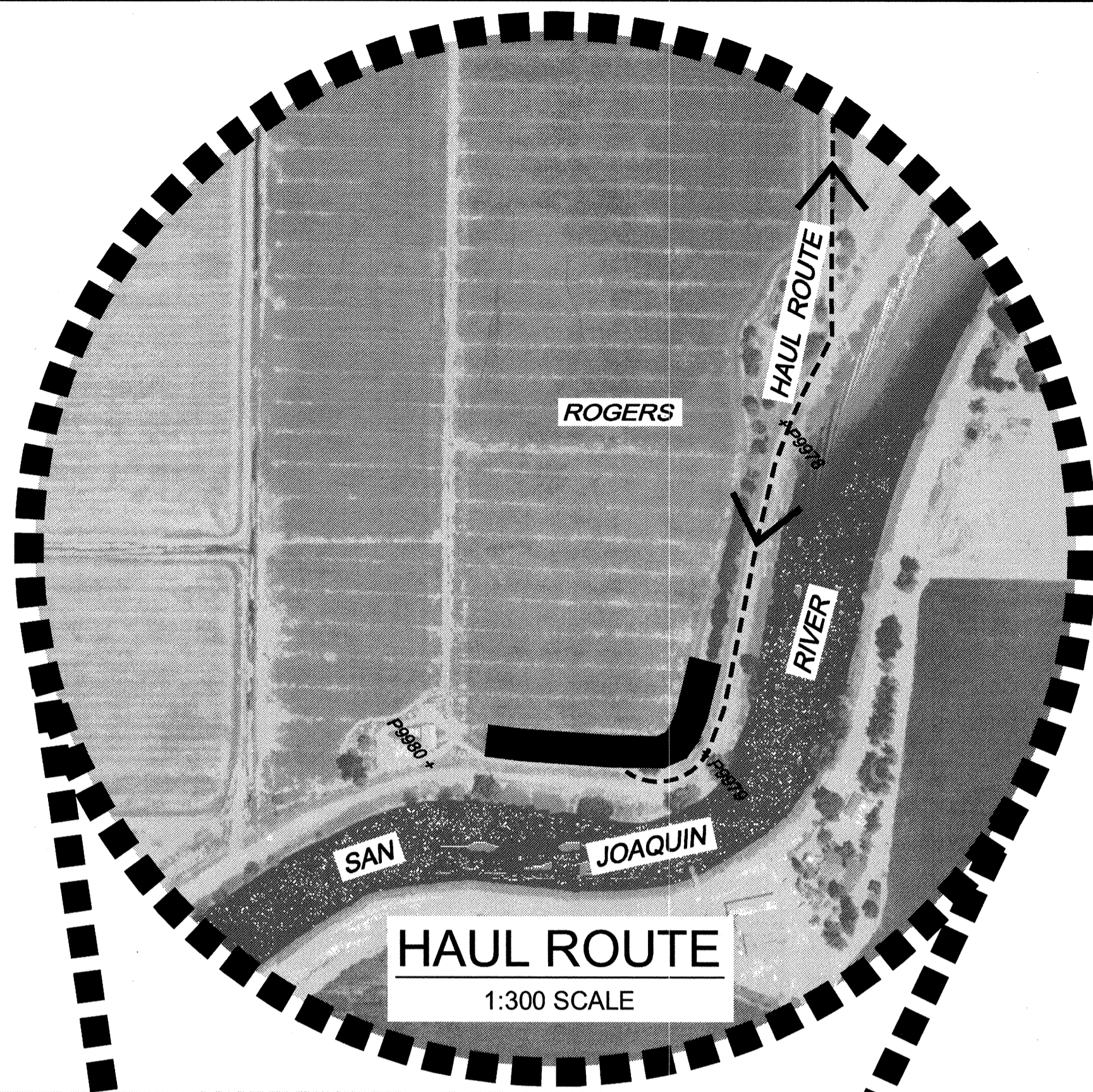
KSN INC.
KJELDSSEN SINNOCK NEUDECK
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Faxes: (209) 946-0298
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17, MOSSDALE TRACT ELEMENT 1D DATED MARCH 13, 2009

ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

MACKAY & SOMP
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94568 (925) 225-0690
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**RECLAMATION DISTRICT NO. 17
ELEMENT I-D**
 COVER SHEET
 SAN JOAQUIN COUNTY CALIFORNIA

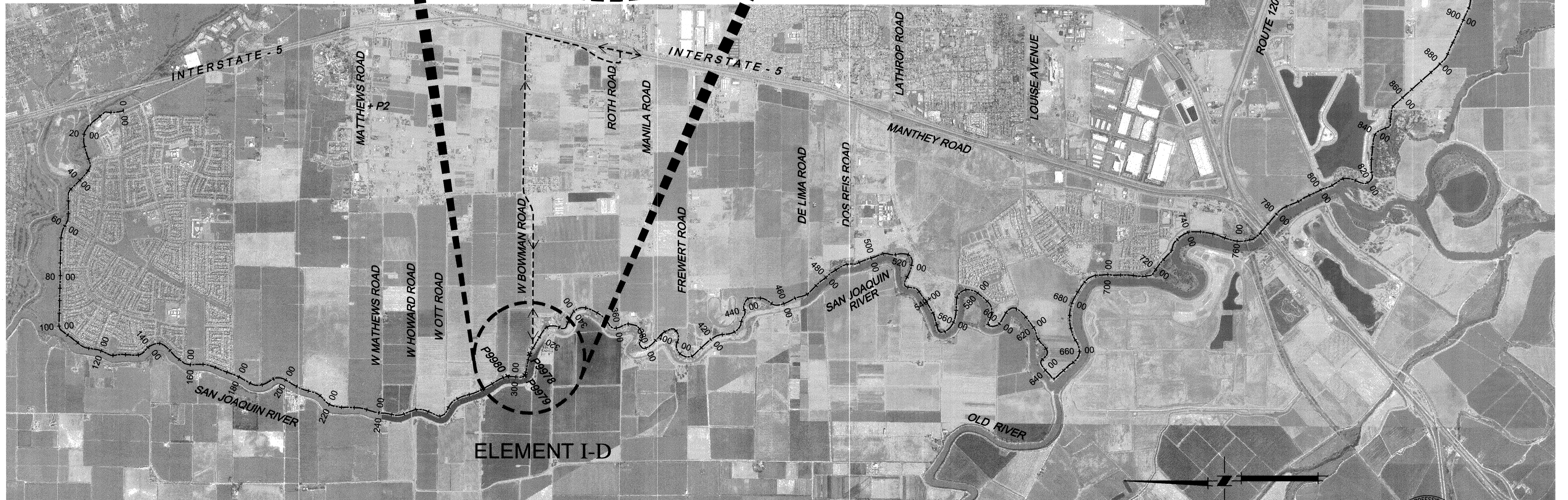
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SCALE:	NOT TO SCALE	SHT	1
DRAWN BY:	GB	OF	9
DESIGNED BY:	CWG		
CHECKED BY:	JSL		
NO.	REVISION	DATE	



CONTROL POINTS
 P9978 - N=2138518.817 E=6323883.306 ELEV=22.39 IRON PIPE
 P9979 - N=2138711.925 E=6323078.145 ELEV=22.65 IRON PIPE
 P9980 - N=2139379.183 E=6323030.916 ELEV=21.62 IRON PIPE

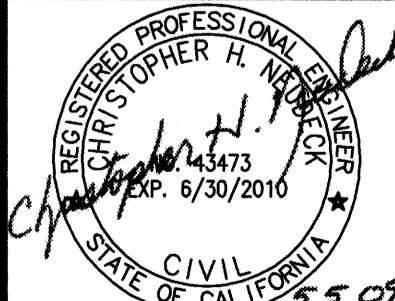
←-----→
 INDICATES HAUL ROUTES TO BE USED BY CONTRACTOR


THE BASIS OF BEARINGS IS NORTH 12°33'37.56" EAST BETWEEN NATIONAL GEODETIC SURVEY HORIZONTAL CONTROL POINTS HPGN-D CA 10 HG (PID AA4256) AND MATTHEW (PID HS0118), CALIFORNIA COORDINATE SYSTEM ZONE 3, NAD83, EPOCH DATE 1997.30, AS CALCULATED AND ADJUSTED BY THE NATIONAL GEODETIC SURVEY IN JULY, 1998, AS SHOWN ON RECORD OF SURVEY RECORDED AT BOOK 34 PAGES 163 - 163B, OF SAN JOAQUIN COUNTY RECORDS. ALL DISTANCES SHOWN HEREON ARE GROUND DISTANCES. TO CONVERT TO GRID DISTANCE, MULTIPLY GROUND DISTANCE BY AVERAGE COMBINED SCALE FACTOR OF 0.999929125. ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).

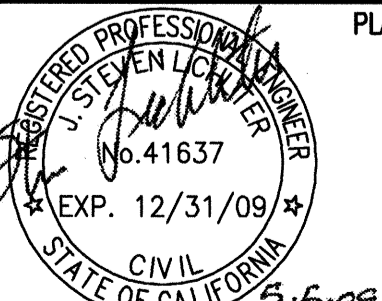


0' 1000' 2000' 4000'
 SCALE: 1"=2000'

RECORD DRAWINGS
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE PROJECT ARCHITECT OR THE INSPECTOR FOR AND INSPECTOR.
 No. 43061
 EXP. 3/31/12
 CIVIL ENGINEER
 STATE OF CALIFORNIA
 JAMES F. TEMPLETON JR.
 DATE: 6/17/10

PLANS REVIEWED AND APPROVED BY:

KSN KJELDEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SURFACE EVALUATION, RD. NO. 17, MOSSVILLE TRACT ELEMENT 1-D DATED MARCH 13, 2009

ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

Mackay & Soms
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite 6, Pleasanton, CA 94588 (925) 225-0690
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RECLAMATION DISTRICT NO. 17
 ELEMENT I-D
 STATIONING MAP / HAUL ROUTES
 SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE
5	AS-BUILT	6-16-10
4	THRU SEEPAGE: REV. SHTS. 1, 4, & 5, ADDED SHTS. 7-9	4/16/10
3	REVISE BERM SECTION AT TOE OF LEVEE & ISSUE ADDENDUM #1	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	9/2/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

DATE: JULY 2009
 SCALE: 1"=2000'
 DRAWN BY: GB
 DESIGNED BY: CWG
 CHECKED BY: JSL
 PROJECT NO. 25126.03
 SHT 2 OF 9

ROLES:

THE "DISTRICT" AS REFERRED TO IN THESE NOTES MEANS RECLAMATION DISTRICT 17.

THE "ENGINEER" AS REFERRED TO IN THESE NOTES MEANS THE DISTRICT ENGINEER: KJELSDEN SINNOCK AND NEUDECK. THE ENGINEER SHALL PROVIDE INSPECTION OF THE PROJECT AND OVERALL CONSTRUCTION MANAGEMENT INCLUDING COORDINATION WITH PUBLIC UTILITIES, PUBLIC AGENCIES, THE DESIGN ENGINEER AND THE GEOTECHNICAL ENGINEER.

THE "DESIGN ENGINEER" MEANS MACKAY AND SOMPS, CIVIL ENGINEERS INC. THE DESIGN ENGINEER WILL PROVIDE DISTRICT PROVIDED CONSTRUCTION STAKING AND "AS-GRADED" SURVEYS.

THE "GEOTECHNICAL ENGINEER" MEANS ENGED INC. THE GEOTECHNICAL ENGINEER WILL PROVIDE MATERIALS TESTING, COMPACTION TESTING AND OTHER GEOTECHNICAL RELATED TESTING.

CONTRACTOR SHALL BE RESPONSIBLE FOR SUPERVISION OF ALL CONTRACTOR'S EMPLOYEES, SUBCONTRACTORS, INCLUDING SCHEDULING AND ALL SAFETY MATTERS.

GENERAL NOTES:

- 1. PRIOR TO THE COMMENCEMENT OF WORK, A JOINT INSPECTION BETWEEN THE ENGINEER OR HIS REPRESENTATIVE, AND THE CONTRACTOR OR HIS REPRESENTATIVE, WILL BE CONDUCTED TO REVIEW THE PRE-CONSTRUCTION CONDITIONS (E.G. ROADS, PUMPS DISCHARGE PIPES, SIPHONS, RAMPS, GATES, SIGNS, ETC.) IF SUCH EXISTING FACILITIES ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR, AT HIS EXPENSE, SHALL REPLACE OR RESTORE THEM TO THE CONDITION THAT EXISTED PRIOR TO THE COMMENCEMENT OF WORK.
- 2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT (209) 946-0268, A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.
- 3. THE DISTRICT RESERVES THE RIGHT TO SUSPEND CONSTRUCTION AT ANY TIME IN THE EVENT OF EXTREME HIGH OR LOW TIDES, FLOOD EVENTS, OTHER CONDITIONS OR EMERGENCIES THAT MAY JEOPARDIZE THE INTEGRITY OF THE DISTRICT'S LEVEE AND ROAD SYSTEM.
- 4. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, COUNTY AND LOCAL REQUIREMENTS, AS REQUIRED FOR TRAFFIC CONTROL AND PUBLIC SAFETY DURING PROJECT CONSTRUCTION.
- 5. THE DISTRICT WILL FURNISH ALL RIGHT-OF-WAY FOR ALL LEVEE ROADS AND DESIGNATED ACCESS HAUL ROUTES. THE CONTRACTOR WILL SECURE RIGHT-OF-WAY FOR ALL OTHER AREAS NOT UNDER THE DISTRICT'S JURISDICTION.
- 6. IF DELIVERING MATERIAL OR EQUIPMENT BY TRUCK, ALL TRUCK TRAFFIC SHALL BE LIMITED TO THE DISTRICT LEVEE ROADS AND/OR PUBLIC ROADS AS SHOWN ON HAUL ROUTE PLAN, UNLESS OTHERWISE APPROVED.
- 7. MAXIMUM SPEED LIMIT ON DISTRICT LEVEE ROADS IS 30 MPH, OR AS POSTED. CONTRACTOR SHALL POST LARGE SLOW/CAUTION SIGNS AND SPEED LIMIT SIGNS FOR PURPOSES OF NOTIFYING BOTH CONTRACTOR'S EMPLOYEES AND THE PUBLIC. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFETY AT ALL TIMES ALONG ALL HAUL ROUTES AND IN ALL PROJECT AREAS (PUBLIC AND PRIVATE).
- 8. THE DISTRICT WILL PROVIDE CONSTRUCTION SURVEY STAKES AS DESCRIBED IN CONSTRUCTION SURVEYING SECTION. PLEASE CONTACT KJELSDEN SINNOCK AND NEUDECK WITH STAKING REQUESTS (209-946-0268) WITH AT LEAST TWO WORKING DAYS ADVANCE NOTICE.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CONSTRUCTION STAKING AND SURVEYING BEYOND THAT PROVIDED BY THE DISTRICT AS DESCRIBED IN THE CONSTRUCTION SURVEYING SECTION ON THIS SHEET.
- 10. THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE DISTRICT, THE ENGINEER, THE DESIGN ENGINEER AND THE GEOTECHNICAL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DISTRICT, THE ENGINEER, THE DESIGN ENGINEER OR THE GEOTECHNICAL ENGINEER.
- 11. ANY DEFICIENCIES NOTED DURING INTERIM AND FINAL INSPECTIONS BY THE ENGINEER AND/OR DISTRICT SHALL BE CORRECTED BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE BY THE DISTRICT. ANY ADDITIONAL COSTS AND EXPENSES FOR MOBILIZATION AND/OR DEMOBILIZATION, LABOR, EQUIPMENT AND OTHER ASSOCIATED COSTS REQUIRED TO CORRECT THE DEFICIENCIES NOTED, EXCEPT SPECIFIED MATERIAL(S), SHALL BE BORNE BY THE CONTRACTOR.
- 12. THE CONTRACTOR SHALL NOT CLOSE ANY ROAD, STREET, OR HIGHWAY TO THE PUBLIC EXCEPT WITH THE PERMISSION OF THE ENGINEER AND THE PROPER GOVERNMENTAL AUTHORITY. TEMPORARY PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO ENSURE CONTINUOUS ACCESS TO PUBLIC AND PRIVATE DRIVEWAYS, AND PROPER FUNCTIONING OF CULVERTS, DRAINAGE AND IRRIGATION DITCHES, AND NATURAL WATER COURSES.
- 13. THE CONTRACTOR IS RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER, AND HE SHALL NOTIFY THE ENGINEER WHENEVER THERE IS A CHANGE IN SITE CONDITIONS OR AN ADJUSTMENT TO BE MADE IN WORK REQUIREMENTS.
- 14. SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER AT (209) 946-0268 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
- 15. THE INTENT OF THESE PLANS IS TO SERVE AS A GUIDE AND TO PROVIDE THE CONTRACTOR WITH INFORMATION AND DETAILS NECESSARY TO CONSTRUCT THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES AND AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATIONS. IF THE PLANS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.
- 16. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE OSHA REGULATIONS AND SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS.
- 17. THE CONTRACTOR SHALL AT ALL TIMES BE RESPONSIBLE FOR THE SECURITY OF HIS PLANT AND EQUIPMENT. THE DISTRICT WILL NOT BE RESPONSIBLE FOR MISSING OR DAMAGED EQUIPMENT, TOOLS, OR PERSONAL BELONGINGS.

ENVIRONMENTAL NOTES:

- 1. THE CONTRACTOR SHALL NOT DISCHARGE SMOKE, DUST, OR ANY OTHER AIR CONTAMINANTS INTO THE ATMOSPHERE IN SUCH QUANTITY AS WILL VIOLATE THE REGULATIONS OF ANY LEGALLY CONSTITUTED AUTHORITY. HE SHALL ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING AND SPRINKLING WITH WATER, OR OTHER MEANS AS NECESSARY. THE USE OF WATER IN AN AMOUNT WHICH RESULTS IN MUD ON PUBLIC ROADS IS NOT ACCEPTABLE AS A SUBSTITUTE FOR SWEEPING OR OTHER METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ADJACENT PUBLIC ROADS CLEAN & CLEAR FROM CONSTRUCTION IMPACTS OR DEBRIS.
- 2. THE CONTRACTOR SHALL EXERCISE EVERY REASONABLE PRECAUTION TO PROTECT STREAMS, WATERWAYS AND OTHER BODIES OF WATER FROM POLLUTION WITH FUELS, OIL, BITUMENS, CALCIUM CHLORIDE, AND OTHER HAZARDOUS MATERIALS AND SHALL CONDUCT AND SCHEDULE HIS OPERATIONS SO AS TO AVOID OR MINIMIZE MUDDING AND SILTING OF SAID WATERS. CARE SHALL BE EXERCISED TO PRESERVE ROADSIDE VEGETATION BEYOND THE LIMITS OF CONSTRUCTION.

ENVIRONMENTAL NOTES (cont'd):

3. THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, AND UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE WORK SITE CONDITIONS CLEAN AND FREE FROM RUBBISH AND DEBRIS.

DUST AND MUD CONTROL:

- 1. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL KEEP ALL CONSTRUCTION AREAS, FILL AREAS, HAUL ROUTES, OTHER ROADWAYS, AND OTHER USE AREAS WHERE DUST IS GENERATED, WELL WATERED; AND DURING WET CONDITIONS, AREAS USED BY LOCAL TRAFFIC, FREE AND CLEAR FROM MUD. CONTRACTOR SHALL PROVIDE EFFORTS NECESSARY TO MINIMIZE DUST AND OTHER DISTURBANCES NEAR EXISTING RESIDENCES AND ALL BUILDINGS NEAR HAUL ROUTES AND THE PROJECT SITE.
 - a. CROP DAMAGE: THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL TO PREVENT CROP DAMAGE AND FOR ANY AREAS IN ADDITION TO THOSE MENTIONED THAT GENERATE DUST AND/OR OTHER CONDITIONS WHICH MIGHT DAMAGE CROPS.
 - b. NON WORK DAYS: THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL THROUGHOUT THE DURATION OF THE PROJECT INCLUDING NON WORKDAYS IN ALL PROJECT AREAS, INCLUDING CONSTRUCTION ROADS AND CROP AREAS WHICH ARE USED BY THE CONTRACTOR, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
2. THE CONTRACTOR SHALL DEDICATE AT LEAST ONE (1) WATER TRUCK (OR MORE AS NEEDED OR DIRECTED BY THE ENGINEER) TO MAINTAIN ADEQUATE DUST CONTROL FOR THE FOLLOWING AREAS:
- a. PROJECT AREAS
 - b. HAUL ROUTES
 - c. LEVEE TOE BERM FILL AREAS
 - d. OTHER CONSTRUCTION USE AREAS
 - e. CROP DAMAGE PREVENTION
 - f. RESIDENTIAL BUILDING AREAS

UTILITY NOTES:

- 1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE ACTUAL LOCATION OF ALL UNDERGROUND, SURFACE, OVERHEAD, AND SUBMARINE IMPROVEMENTS, OR FACILITIES WHICH MAY BE SUBJECT TO DAMAGE BY REASON OF HIS OPERATIONS.
- 2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES PRIOR TO COMMENCEMENT OF WORK.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL SUCH FACILITIES IN THE AREA OF CONSTRUCTION, AND SHALL NOTIFY UTILITIES FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION. (UNDERGROUND SERVICE ALERT (800) 642-2444).
- 4. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES, IRRIGATIONS AND DRAINAGE FACILITIES INCLUDING, BUT NOT LIMITED TO, SIPHONS, DITCHES, CROSSINGS, DISTRIBUTION BOXES, SLIDE GATES, ETC., DURING THE TERM OF THE CONTRACT. THE EXISTING IRRIGATION AND DRAINAGE FACILITIES MUST REMAIN FULLY OPERATIONAL DURING THE PERIOD OF CONSTRUCTION.

POWER LINES:

- 1. THE CONTRACTOR SHALL TAKE NOTE OF THE POWER LINES WITHIN THE CONSTRUCTION ZONE. EXTREME CAUTION SHALL BE EXERCISED WHILE WORKING AROUND THE LIVE LINES.
- 2. IF POWER POLES, LINES AND GUY WIRES ARE WITHIN THE IMMEDIATE WORK AREA, CONTRACTOR SHALL ADHERE TO ALL SAFETY STANDARDS AND REQUIREMENTS OF THE UTILITY COMPANY.
- 3. FILL AROUND POLES SHALL BE PLACED AND COMPACTED IN A MANNER SO AS TO AVOID ANY ADVERSE IMPACTS TO THE INTEGRITY OF THE EXISTING POLES AND POWER SYSTEM & CONSISTENT WITH THE RECOMMENDATIONS OF THE SOILS REPORT.

TRAFFIC CONTROL:

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AS DESCRIBED IN SPECIAL PROVISIONS, SECTION 1.12, "TRAFFIC CONTROL" AND DIVISION 2, SECTION 0242B "TRAFFIC CONTROL OF THE PROJECT SPECIFICATIONS (AS PREPARED BY THE ENGINEER)

CLEANUP:

- 1. THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, AND UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE PREMISES OCCUPIED BY HIM IN A CLEAN AND ORDERLY CONDITION, DISPOSING OF REFUSE IN A MANNER SATISFACTORY TO THE ENGINEER.
- 2. THE CONTRACTOR, UPON COMPLETION OF ALL WORK, SHALL RESTORE ALL HAUL ROUTES AND PROJECT SITES IN A MANNER SATISFACTORY TO THE ENGINEER AND THE DISTRICT.

CONSTRUCTION NOTES:

HAUL ROUTES:

- 1. THE CONTRACTOR SHALL IMPROVE, MAINTAIN, AND REPAIR UPON COMPLETION, THE ACCESS ROADS AND HAUL ROUTES AS REQUIRED FOR TRANSPORTATION AND HAULING MATERIAL TO THE REPAIR AREAS.
- 2. THE CONTRACTOR SHALL REVIEW THE HAUL ROUTES AND DETERMINE THE LOCATION FOR TURNOUTS, RAMPS, ROAD DRAINAGE, ALIGNMENT, ETC. UPON COMPLETION OF THE PROJECT, SOME PORTIONS OF THE HAUL ROUTES WHICH REMAIN SHALL BE LEFT IN GOOD CONDITION FOR THE DISTRICT, FARMERS, AND OTHER LOCAL TRAFFIC.
- 3. THE HAUL ROUTES FOR THIS PROJECT MAY REQUIRE THE CONTRACTOR TO MODIFY AND REWORK THE GRADING OF THE EXISTING ROADS TO MEET THE CONTRACTOR'S HAULING AND ROAD DRAINAGE REQUIREMENTS.
- 4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAKING ANY NECESSARY IMPROVEMENTS, MODIFICATIONS, AND ALTERATIONS TO MEET HIS REQUIREMENTS AND FOR THE MAINTENANCE OF ALL ACCESS ROADS AND HAUL ROUTES.
- 5. THE CONTRACTOR'S EQUIPMENT SHALL BE RESTRICTED TO OPERATE ONLY ON THOSE HAUL ROUTES AND WITHIN THOSE SPECIFIED WORK AREAS INDICATED ON THE PLANS UNLESS OTHERWISE APPROVED BY THE ENGINEER, DISTRICT, AND LANDOWNERS.
- 6. THE CONTRACTOR SHALL EXTEND, STRENGTHEN, REPLACE, OR OTHERWISE MODIFY THE EXISTING CROSSINGS (E.G. CULVERTS, SIPHONS, DRAIN PIPES, IRRIGATION PIPES, PUMP DISCHARGE PIPES, WET SPOTS, ETC.) AS NECESSARY TO ACCOMMODATE HIS EQUIPMENT. THE CONTRACTOR SHALL PROVIDE WHATEVER MEASURES ARE NECESSARY TO PRESERVE, PROTECT, AND MAINTAIN THE CROSSINGS SO AS TO ENSURE CONTINUOUS AND UNINTERRUPTED CONSTRUCTION OPERATIONS DURING THE ENTIRE TERM OF THIS CONTRACT.
- 7. THE HAUL ROUTES MAY REQUIRE TEMPORARY IRRIGATION OR DISCHARGE PIPE EXTENSIONS AND RAMPING DURING CONSTRUCTION OPERATIONS. TEMPORARY EXTENSIONS AND RAMPING WILL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT HIS EXPENSE, INCLUDING REMOVAL IF REQUIRED, IN A MANNER WHICH MEETS WITH THE APPROVAL OF THE ENGINEER AND THE LANDOWNERS.
- 8. NEITHER THE DISTRICT NOR THE ENGINEER MAKES ANY WARRANTY OR GUARANTEE AS TO THE ADEQUACY OF THE EXISTING MATERIALS TO SUPPORT THE CONSTRUCTION TRAFFIC ON THE HAUL ROUTES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAKING THE NECESSARY IMPROVEMENTS AND PROVIDING THE NECESSARY MEASURES REQUIRED TO ACCOMMODATE HIS ANTICIPATED NEEDS. REPAIRS TO HAUL ROUTES DAMAGED BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 9. CONTRACTOR MUST MAINTAIN ACCESS BY THE DISTRICT AND/OR PUBLIC (AS APPLICABLE) ON THE HAUL ROUTES USED AT ALL TIMES DURING CONSTRUCTION.

CLEARING & GRUBBING:

1. UNLESS OTHERWISE INDICATED, THE WORK AREAS SHALL BE CLEARED AND GRUBBED BY THE CONTRACTOR. CONTRACTOR SHALL USE CAUTION WHILE CLEARING AND GRUBBING AROUND POWER LINES & BURIED ELECTRICAL CABLES. ALL MATERIAL CLEARED AND REMOVED SHALL BECOME THE PROPERTY AND RESPONSIBILITY OF THE CONTRACTOR FOR REMOVAL AND DISPOSAL OFFSITE. SOME PRUNING/TRIMMING OF BRANCHES OR TREES MAY BE REQUIRED.

LEVEE SEEPAGE BERM SECTION:

- 1. THE CONTRACTOR SHALL FURNISH, DELIVER, AND PLACE THE SPECIFIED MATERIALS (PER THE ENGINEER'S SPECIFICATIONS) AND UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER TO THE DESIGNATED SEEPAGE BERM SITES.
- 2. THE SEEPAGE BERM SHALL BE CONSTRUCTED WITH ACCEPTABLE MATERIALS SUFFICIENT TO MEET DESIGN GRADES AND SPECIFICATIONS.
- 3. ALL SUBGRADE AREAS RECEIVING THE FILTER DRAIN MATERIAL SHALL BE PREPARED AS REQUIRED BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR MAY BE REQUIRED TO PERFORM ADDITIONAL SUBGRADE PREPARATION WORK WITHIN THE SEEPAGE BERM AREAS PRIOR TO THE ACCEPTANCE OF THE MATERIAL.
- 4. THE CONTRACTOR SHALL DELIVER THE FILTER DRAIN MATERIAL, DRAIN ROCK, AND SEEPAGE BERM FILL TO THE REQUIRED SECTIONS AS UNIFORM MIXTURES. THE MIXTURE SHALL BE DEPOSITED AND SPREAD TO THE REQUIRED COMPACTED THICKNESS. SEGREGATION OF MATERIAL SHALL BE AVOIDED AND EACH LAYER OF MATERIAL, AS SPREAD, SHALL BE FREE FROM POCKETS OF COARSE OR FINE MATERIAL.

- A. THE FILTER DRAIN MATERIAL AND SEEPAGE BERM FILL SHALL BE PLACED IN LOOSE HORIZONTAL LAYERS NOT MORE THAN EIGHT INCHES (8") IN THICKNESS PRIOR TO COMPACTATION. THE MATERIAL SHALL BE GENTLY SPREAD OUT. UNDER NO CIRCUMSTANCES SHALL ANY MATERIAL BE DROPPED FROM ANY HEIGHT ONTO THE FILL SECTION.
- B. IF SEGREGATION OCCURS, MATERIAL SHALL BE WORKED UNTIL IT IS UNIFORMLY AND SATISFACTORILY BLENDED. AFTER SPREADING, THE MATERIAL SHALL BE WATERED AND SHAPED TO THE REQUIRED SECTION AND THEN COMPACTED AS SPECIFIED.
- C. AT THE TIME MATERIALS ARE SPREAD, IT SHALL HAVE A MOISTURE CONTENT IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS. SUCH MOISTURE SHALL BE UNIFORMLY DISTRIBUTED THROUGHOUT THE MATERIAL.

5. THE CONTRACTOR SHALL GRADE THE BASE OF THE SEEPAGE BERM TO MAINTAIN THE DESIGNATED GRADE AND CROSS-SECTIONS AS SHOWN ON THE PLANS. CONTRACTOR SHALL CUT AND FILL AS NECESSARY AND STOCKPILE ANY ADDITIONAL FILL FOR USE AS SEEPAGE BERM FILL.

FINISHING AND SLOPING GRADING:

- 1. THE SURFACE OF THE TOP LAYER SHALL BE FINISHED TO THE DESIGNATED GRADE AND CROSS SECTION. THE FINISHED SURFACE SHALL BE OF UNIFORM TEXTURE, DRESSED AND GRADED TO DRAIN AND PREVENT WATER PONDING.

COMPACTION EQUIPMENT:

- 1. COMPACTION SHALL BE PERFORMED WITH A NON-VIBRATORY TYPE ROLLER COMPACTOR. VIBRATORY EQUIPMENT WILL NOT BE PERMITTED ON LEVEE TOE BERM FILLS.

TESTING:

- 1. THE DISTRICT WILL RETAIN ENGED, INC. TO PERFORM SAMPLING AND TESTING AS REQUIRED AND TO CHECK FOR COMPLIANCE WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL ASSIST IN THE REMOVAL OF SURFACE MATERIALS AT LOCATIONS DESIGNATED BY THE TESTING ENGINEER AT NO COST TO THE DISTRICT. ENGED, INC. WILL SAMPLE AND PERFORM ALL REQUIRED TESTS SUCH AS MOISTURE CONTENT, GRADATION, AND MOISTURE DENSITY RELATIONSHIPS ON THE EXCAVATED AND SEEPAGE BERM FILL MATERIALS.

GEOTEXTILE FABRIC:

- 1. GEOTEXTILE FABRIC SHALL BE MIRAFI FW700 WOVEN GEOTEXTILE OR AN APPROVED EQUAL.
- 2. THE GEOTEXTILE FABRIC SHALL BE PLACED WITHIN THE AREA DESIGNATED BETWEEN THE SEEPAGE BERM FILL AND THE DRAIN ROCK MATERIAL.
- 3. MEASUREMENT AND PAYMENT WILL BE BY THE SQUARE FOOT NEAT (WITHOUT OVERLAP) AND BASED UPON THE FABRIC LOST TO THE DIMENSIONS AND AT THE LOCATIONS DESIGNATED AND ACCEPTED BY THE ENGINEER.
- 4. FOR PAYMENT PURPOSES, MEASUREMENT OF THE FABRIC PLACED WILL NOT INCLUDE OVERLAPS AS REQUIRED BY THESE PLANS.

ROAD PREP, MAINTENANCE, AND SWPPP:

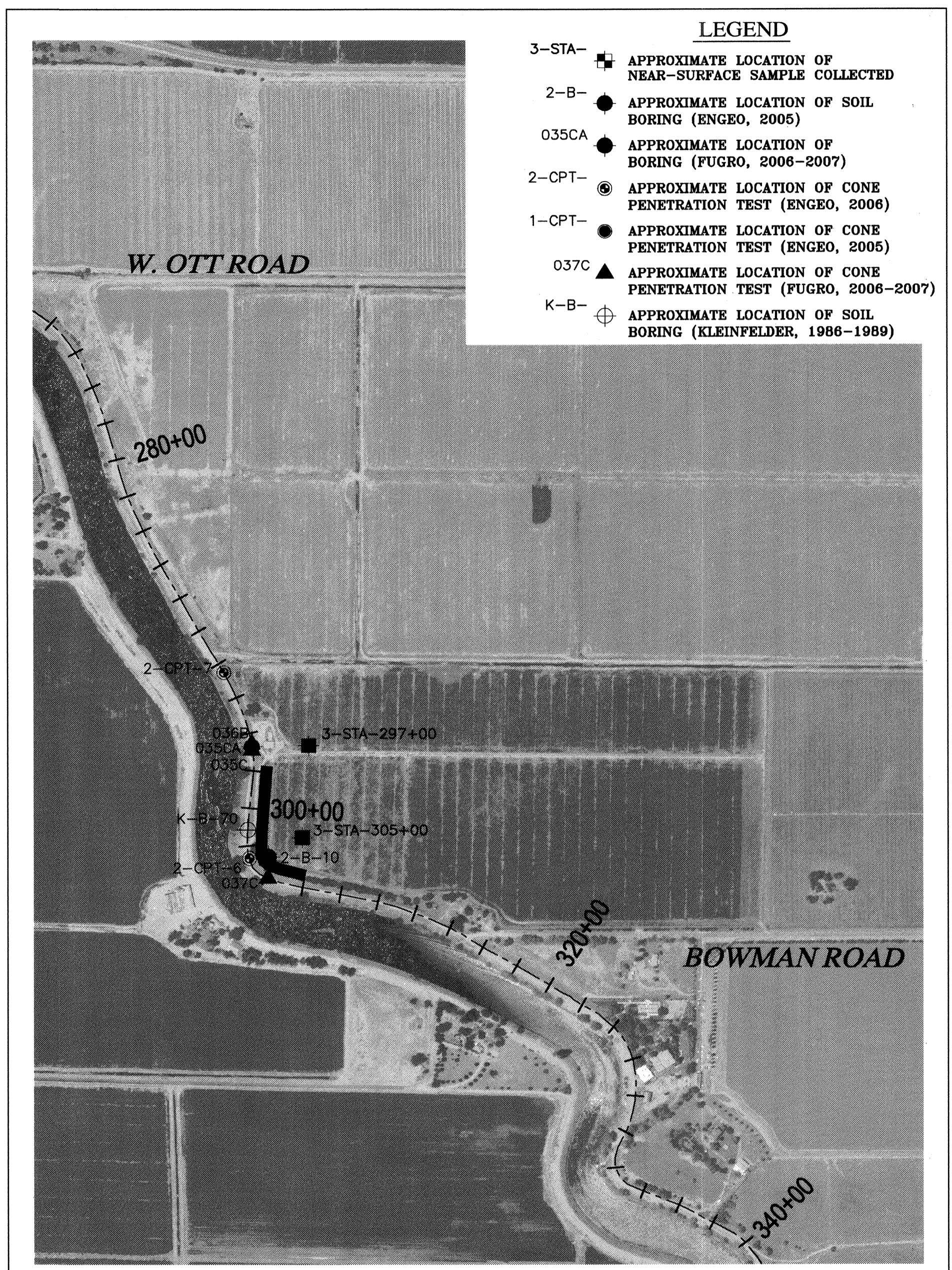
- 1. PER THE IMPROVEMENT PLANS AND SWPPP (AS PREPARED BY ENGED), CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF REQUIRED:
 - A. EROSION CONTROL FACILITIES
 - B. CONSTRUCTION ENTRANCE
 - C. STREET SWEEPING
 - D. SITE/CONSTRUCTION MATERIALS MAINTENANCE
 - E. SITE SECURITY

SITE SECURITY NOTES:

- 1. THE ACCESS GATE THE END OF BOWMAN ROAD NEEDS REMAIN CLOSED UNLESS THERE IS ACTIVE CONSTRUCTION WITHIN THE SITE. THIS INCLUDES NIGHTS / WEEKENDS AND PERIODS OF INACTIVITY.
- 2. GATES SHALL BE OPENED TOWARDS THE WEST ONLY AND SECURED BY THE CONTRACTOR IN PLACE.

CONSTRUCTION SURVEYING:

- 1. **ROUGH GRADE STAKING** - SET HORIZONTAL LOCATION STAKES EVERY 100 FEET ON TANGENTS AND EVERY 50 FEET ON CURVES AT THE DESIGN TOE OF THE SEEPAGE BERM. ALSO, SET POINTS AND CORRESPONDING MARKERS AT LOCATIONS THAT ARE OFFSET FROM THE EASTERLY TOE OF BERM EVERY 100 FEET ON TANGENTS AND EVERY 50 FEET ON CURVES. THE MARKER AT THE OFFSET POINT WILL BE LABELED WITH A VERTICAL CUT OR FILL DIMENSION FROM THE TOP OF THE POINT TO THE DESIGN ELEVATION OF THE TOE OF THE SEEPAGE BERM. WHERE GRADING FOR FUTURE TRAILS IS TO BE PROVIDED THROUGH THE FRONT SLOPE OF THE SEEPAGE BERM, THE OFFSET STAKES WILL BE MARKED ACCORDINGLY AT BEGINNING AND END OF TRAIL.
- 2. **VERIFICATIONS DURING AND AFTER CONSTRUCTION** - UPON COMPLETION OF SUBSTANTIAL PORTIONS OF WORK AND WHEN REQUESTED BY CONTRACTOR, OBTAIN "AS-GRADED" ELEVATIONS (TYPICALLY AT 500' INTERVALS) TO VERIFY THE DEPTH OF PLACED MATERIAL RELATIVE TO THE ELEVATION AT THE TOE OF THE SEEPAGE BERM. THIS CHECK WILL BE PERFORMED TWICE (ONCE AFTER PLACEMENT OF DRAIN ROCK AND ONCE AFTER PLACEMENT OF BERM FILL MATERIAL). CUT/FILL SHEETS SHOWING DEPTHS OF THE PLACED MATERIAL WILL BE PROVIDED FOR EACH SURVEYED VERIFICATION.



LEGEND

- 3-STA- [Symbol] APPROXIMATE LOCATION OF NEAR-SURFACE SAMPLE COLLECTED
- 2-B- [Symbol] APPROXIMATE LOCATION OF SOIL BORING (ENGED, 2005)
- 035CA [Symbol] APPROXIMATE LOCATION OF BORING (FUGRO, 2006-2007)
- 2-CPT- [Symbol] APPROXIMATE LOCATION OF CONE PENETRATION TEST (ENGED, 2006)
- 1-CPT- [Symbol] APPROXIMATE LOCATION OF CONE PENETRATION TEST (ENGED, 2005)
- 037C [Symbol] APPROXIMATE LOCATION OF CONE PENETRATION TEST (FUGRO, 2006-2007)
- K-B- [Symbol] APPROXIMATE LOCATION OF SOIL BORING (KLEINFELDER, 1986-1989)

BORING LOCATIONS
SCALE 1"=500'

LEGEND

- EX FC - - - - - EXISTING FACE OF CURB
- EX ROW - - - - - EXISTING RIGHT OF WAY
- EX SD/EX PERF PIPE - - - - - EXISTING STORM DRAIN
- NEW PERF PIPE - - - - - NEW TOE DRAIN
- EX W - - - - - EXISTING WATER LINE
- EX RW - - - - - EXISTING RECYCLED WATER LINE
- CONFORM
- TOP
- TOE
- EX SEEPAGE BERM

STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER
F. TEMPLETON
No. 43061
EXP. 3/31/12
DATE 4/7/10

PLANS REVIEWED AND APPROVED BY:

K S N
KJELSDEN
SINNOCK
NEUDECK
INC. Consulting Engineers
and Land Surveyors

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THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT DATED UNDER SEEPAGE EVALUATION, RD NO. 17, WOODSIDE TRACT ELEMENT 1D DATED MARCH 13, 2009

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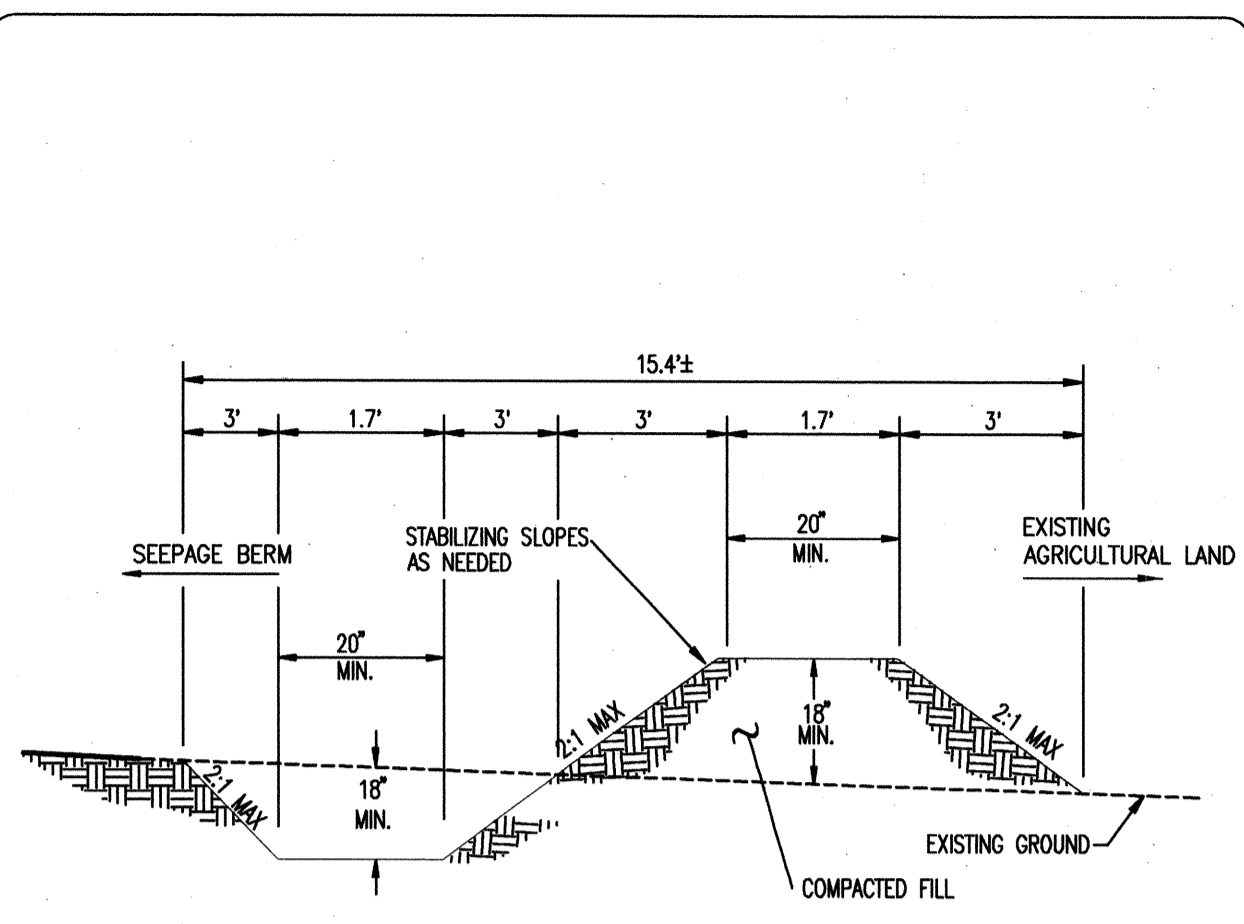
RECLAMATION DISTRICT NO. 17
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NOTES & BORING LOCATIONS

SAN JOAQUIN COUNTY CALIFORNIA

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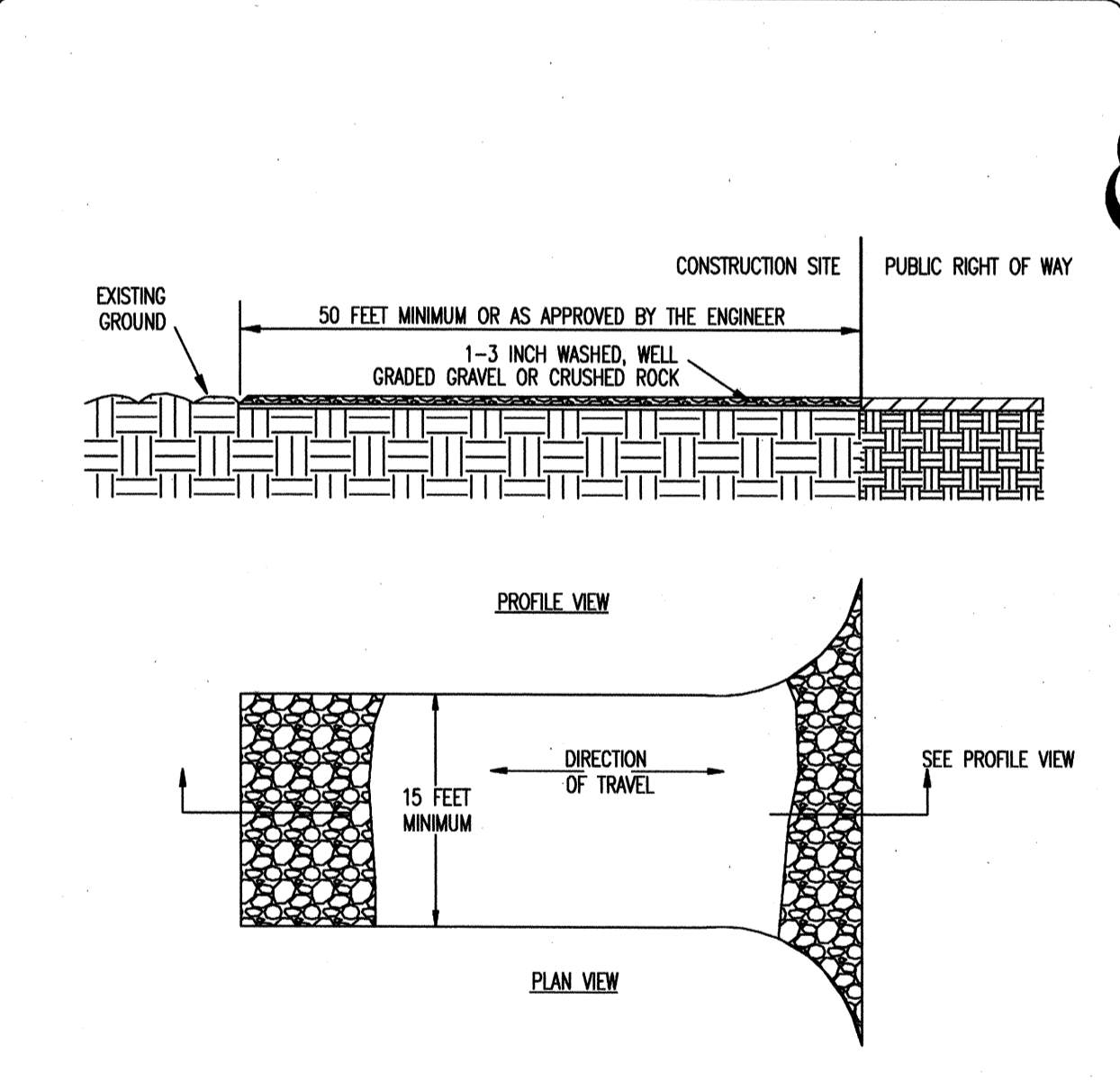
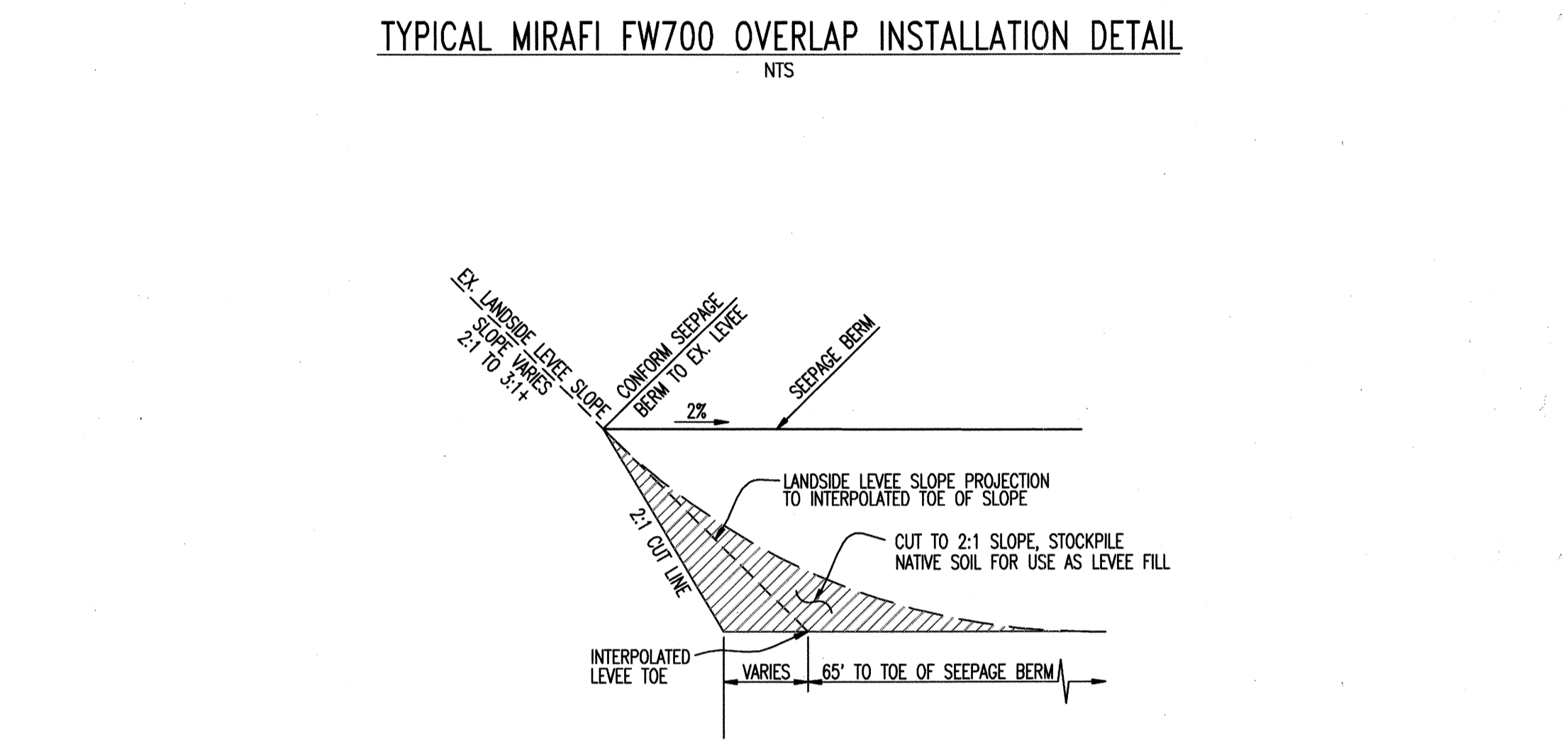
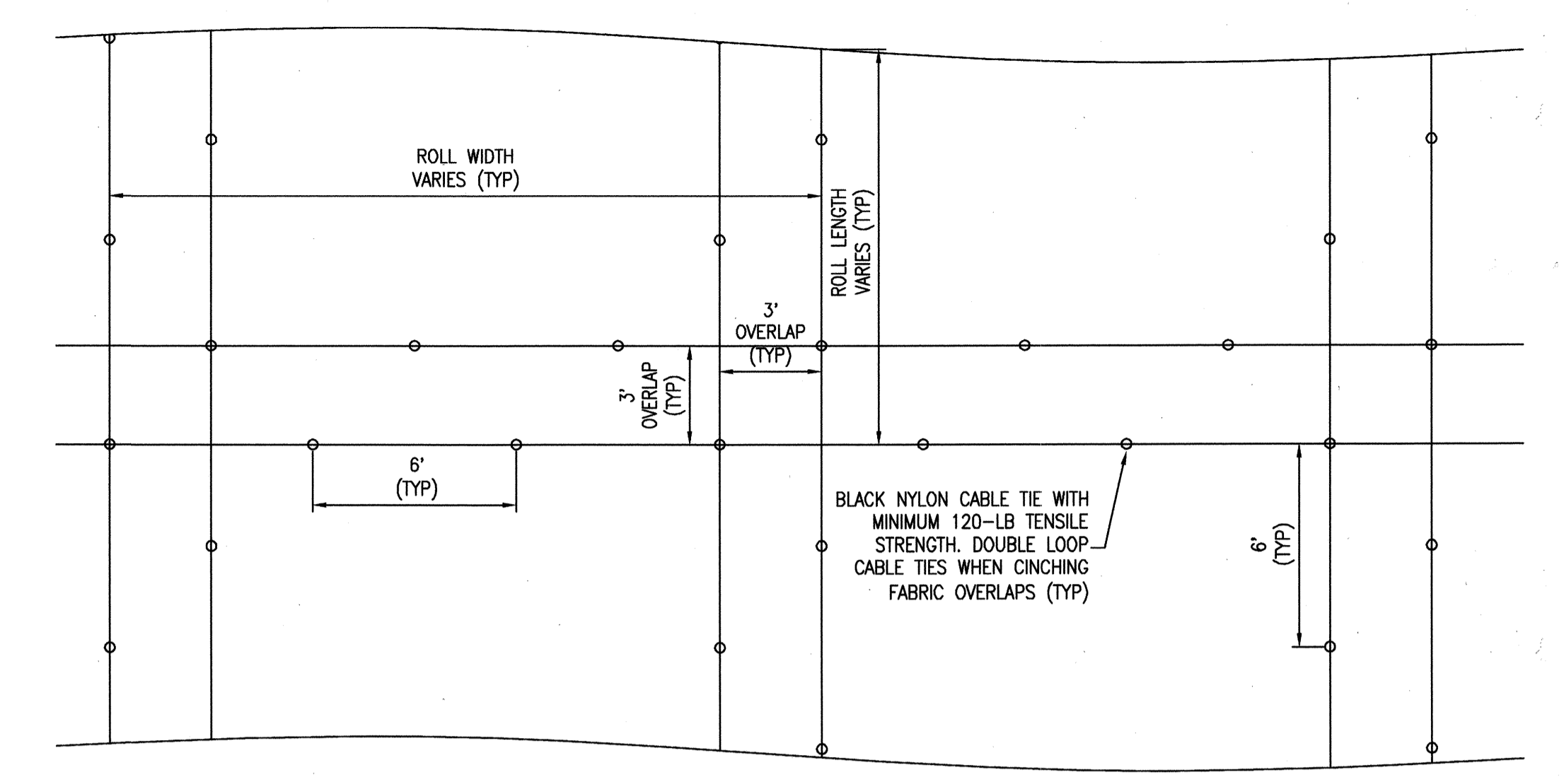
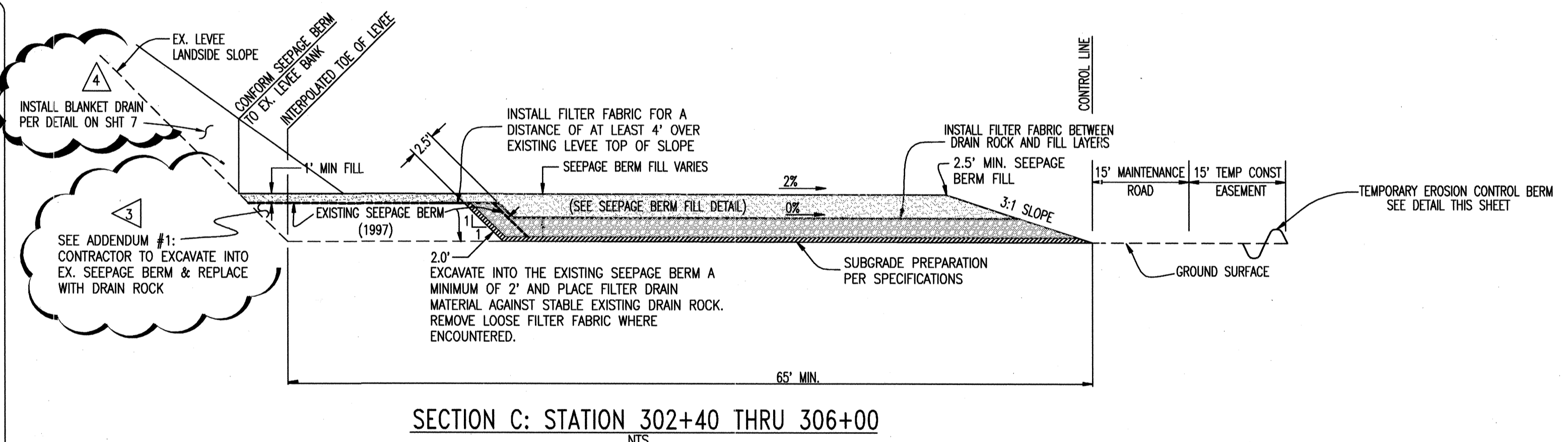
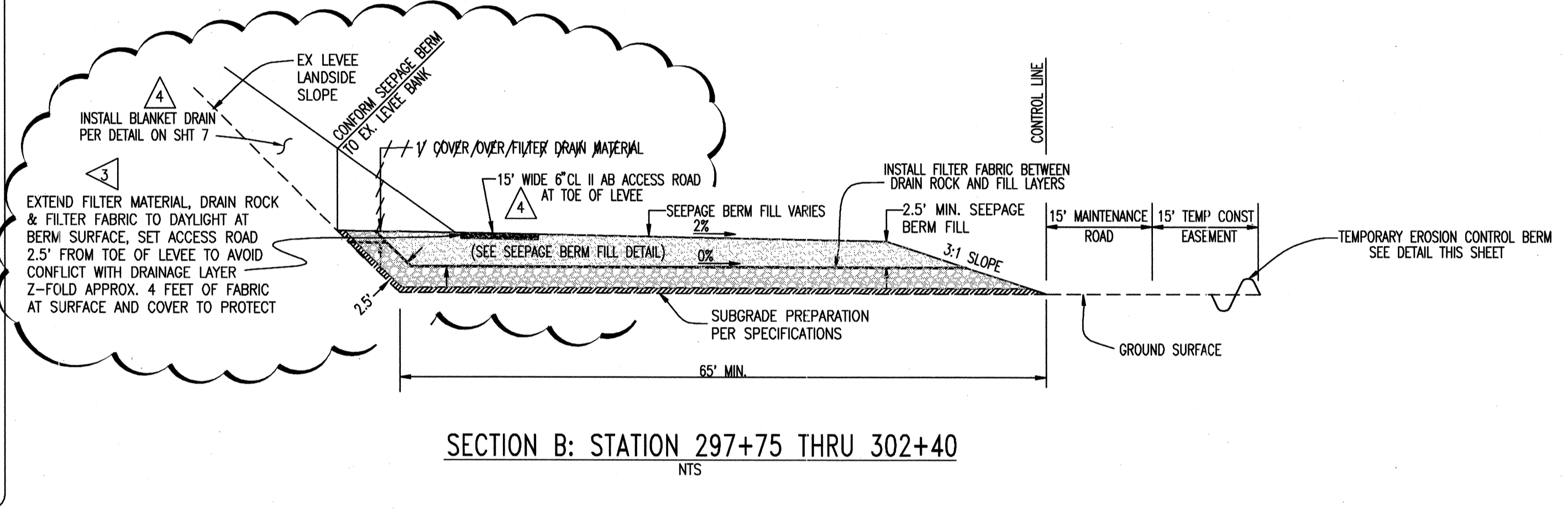
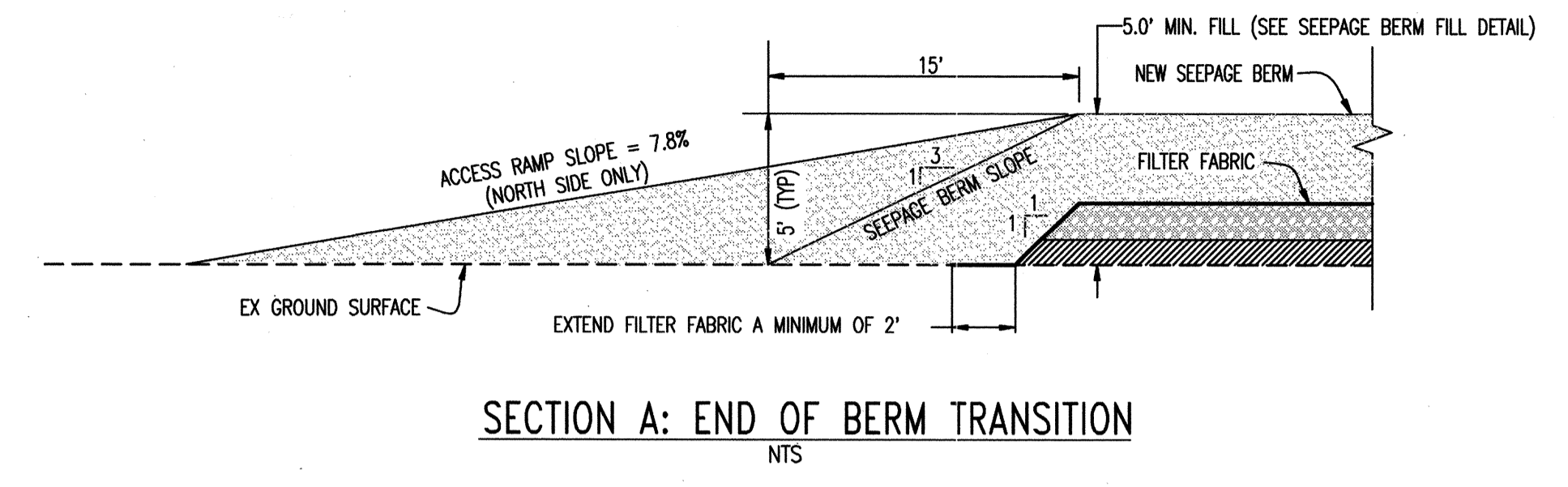
PROJECT NO. 25126.03
SHT 3
OF 9



NOTES:
 1. STABILIZE SLOPE PER GEOTECHNICAL ENGINEERS RECOMMENDATION
 2. SWALE TO BE REMOVED UPON COMPLETION OF SEEPAGE BERM CONSTRUCTION

NOT TO SCALE

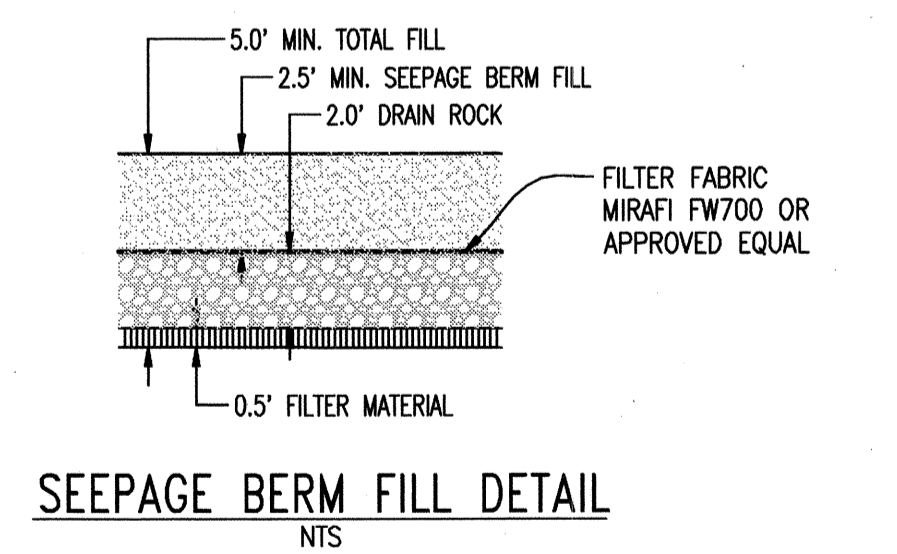
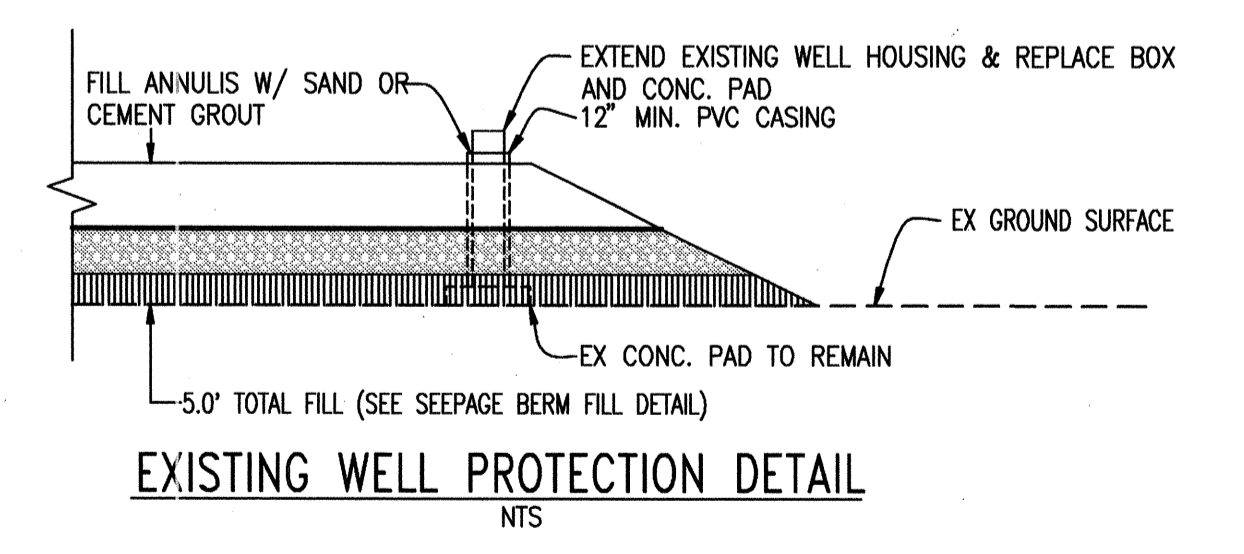
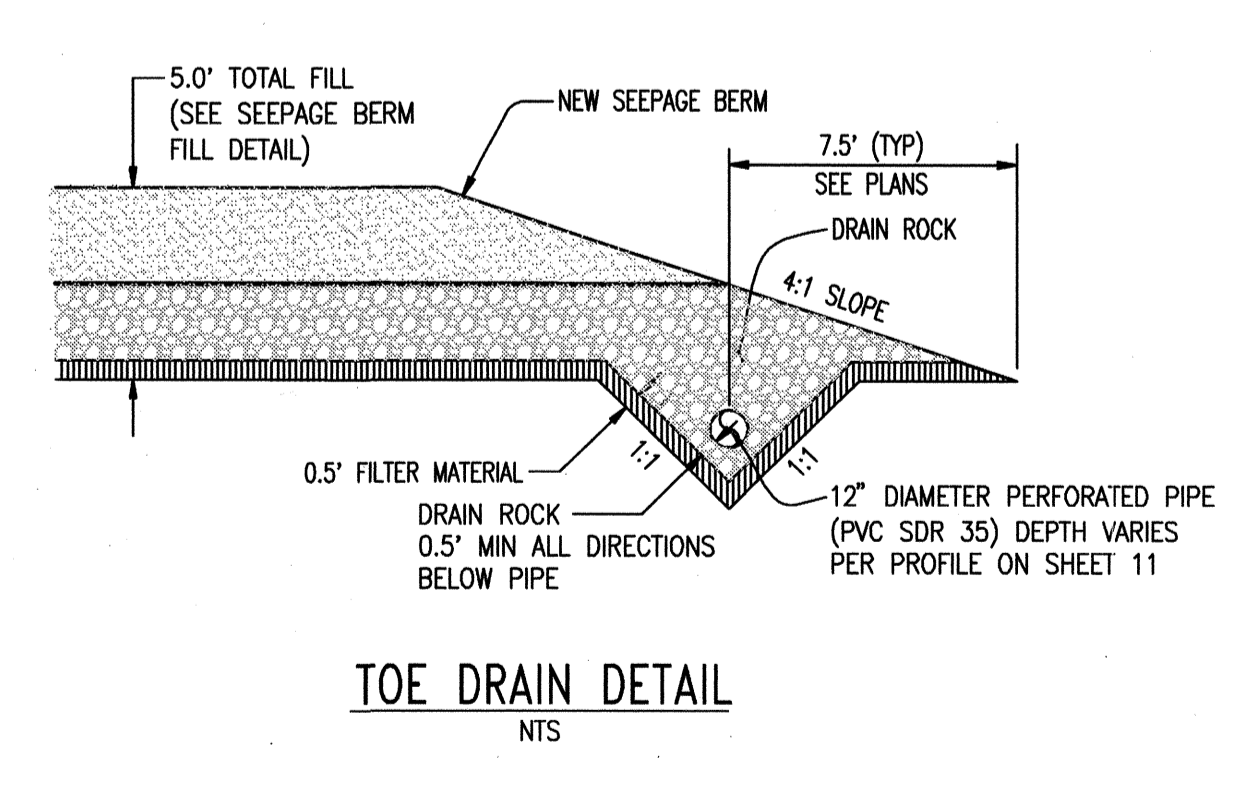
TYPICAL EROSION CONTROL BERM



NOTES:
 1. CONSTRUCT AT ALL ENTRANCES TO THE PROJECT SITE AS APPROVED BY THE ENGINEER
 2. THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING WITH ROCK MATERIAL
 3. ACCESSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL, WITH MAINTENANCE PROVIDED AS NECESSARY. PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.

NOT TO SCALE

STABILIZED CONSTRUCTION SITE ACCESS



REGISTERED PROFESSIONAL ENGINEER
 JAMES F. TEMPLETON
 No. 43061
 EXP. 3/31/12
 CIVIL
 STATE OF CALIFORNIA

RECORD DRAWINGS
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE SIGNATURE OF THE CONTRACTOR AND INSPECTOR.

PLANS REVIEWED AND APPROVED BY:

KSN
KJELSDEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17, MOSSALE TRACT ELEMENT 1D DATED MARCH 13, 2009

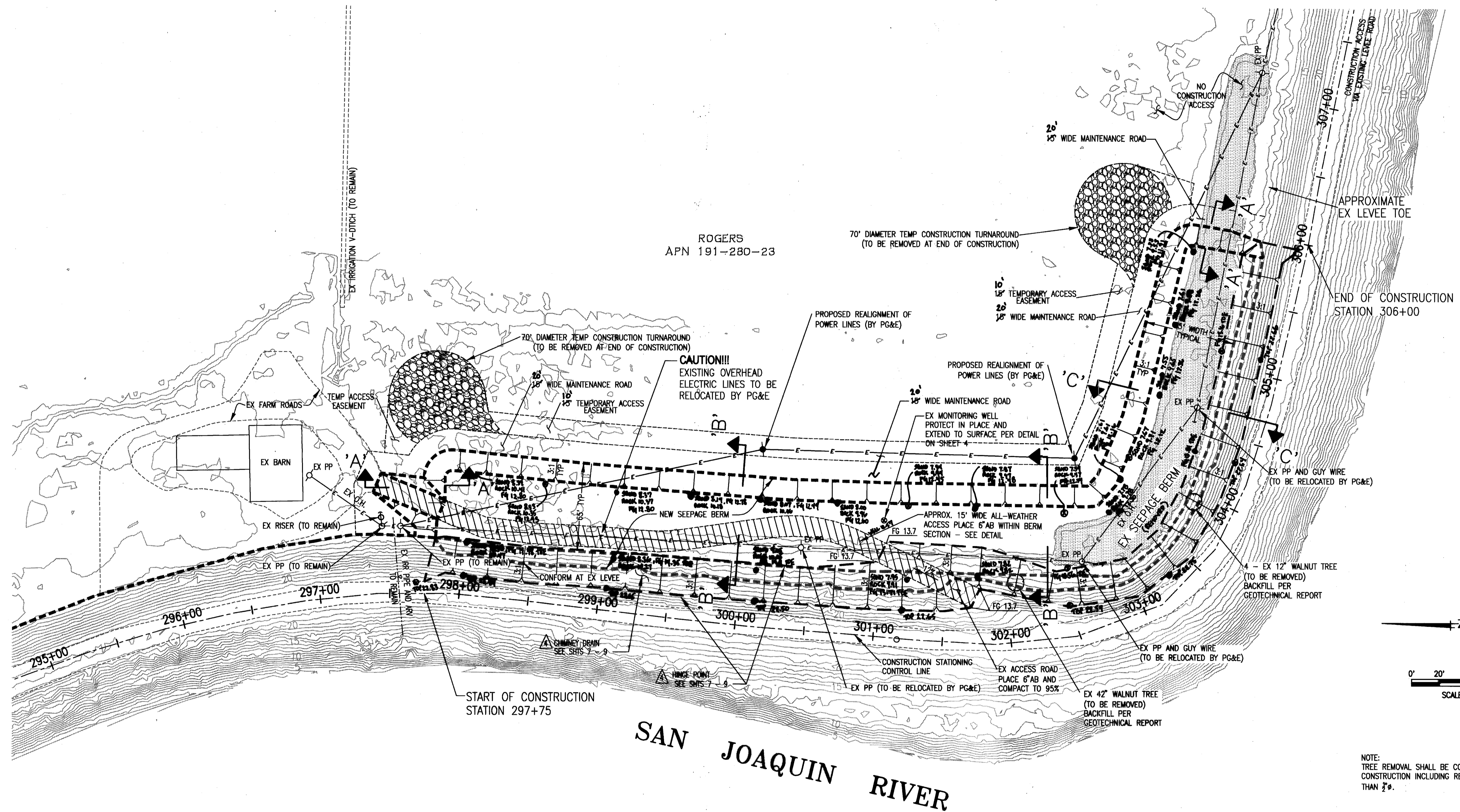
ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

MacKay & Somp
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite 6, Pleasanton, CA 94588 (925) 226-0890

RECLAMATION DISTRICT NO. 17
 ELEMENT I-D
 TYPICAL SECTIONS AND DETAILS
 SAN JOAQUIN COUNTY CALIFORNIA

DATE:	JULY 2009	PROJECT NO.	25126.03
SCALE:		DRAWN BY:	GB
DESIGNED BY:	GB	CHECKED BY:	JSL
CHECKED BY:	JSL	DATE:	7/20/09
NO.	REVISION	DATE	
5	As-Quoted	6-16-10	
4	THRU SEEPAGE: REV. SHTS. 1, 4, & 5, ADDED SHTS. 7-9	4/16/10	
3	REVISE BERM SECTION AT TOE OF LEVEE & ISSUE ADDENDUM #1	10/8/09	
2	ISSUE CONSTRUCTION DOCUMENTS	9/2/09	
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09	



NOTE:
TREE REMOVAL SHALL BE COMPLETE PRIOR TO SEEPAGE BERM
CONSTRUCTION INCLUDING REMOVAL OF STUMP AND ROOTS LARGER
THAN 3".

WARNING • CAUTION
EXISTING UNDERGROUND UTILITIES
CONTACT : UNDERGROUND SERVICE ALERT
PHONE: (800) 642-2444
FOR MARKING PRIOR TO DIGGING

PLANS REVIEWED AND APPROVED BY:

KSN KJELSDEN SINNOCK NEUDECK INC.
Consulting Engineers and Land Surveyors
Post Office Box 844
711 N. Pershing Avenue
Stockton, CA 95201-0844
Office: (209) 946-0268
Faxes: (209) 946-0296
E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT
FILED: UNDER SEEPAGE EVALUATION, RD. NO. 17
POSSIBLE TRACT ELEMENT 1D DATED MARCH 13, 2009

ENGEO
INCORPORATED
EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

Mackay & Sojms
ENGINEERS PLANNERS SURVEYORS
6142 Franklin Drive, Suite B, Pleasanton, CA 94568 (925) 226-0880

RECLAMATION DISTRICT NO. 17
ELEMENT I-D
SEEPAGE BERM PLAN VIEW

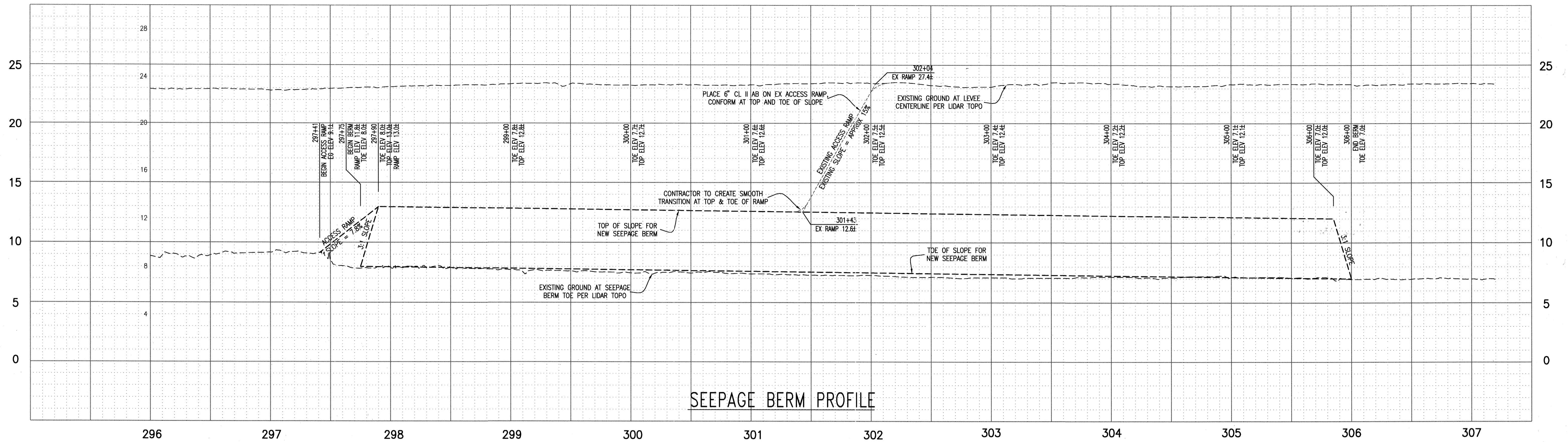
SAN JOAQUIN COUNTY CALIFORNIA

RECORD DRAWINGS

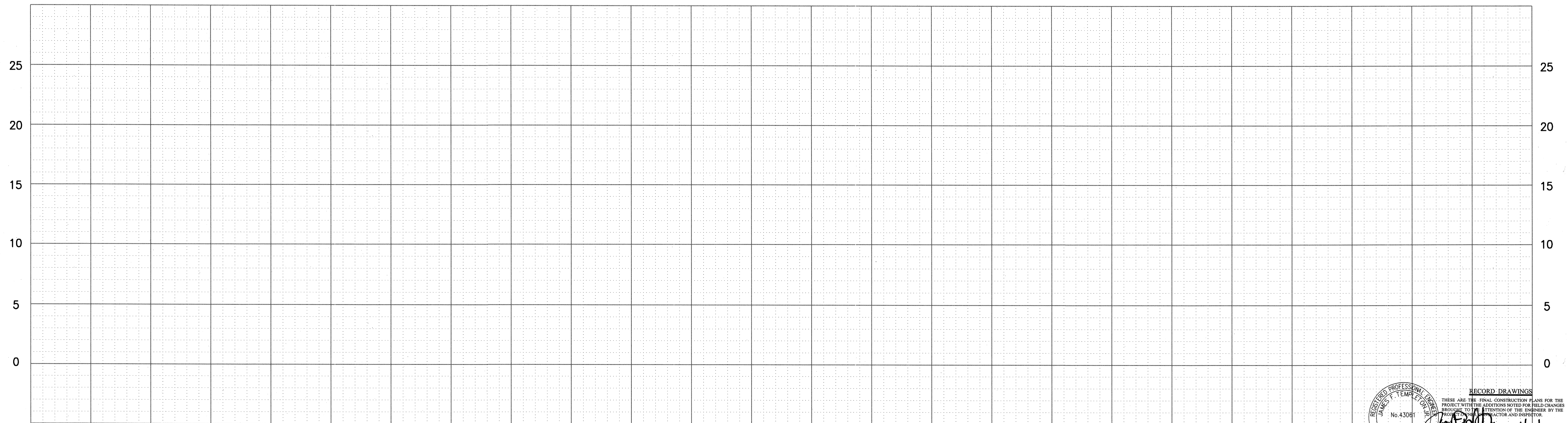
NO. 43061
EXP. 3/31/12

CIVIL ENGINEER
STATE OF CALIFORNIA

DATE:	JULY 2009	PROJECT NO.	25126.03
SCALE:		DRAWN BY:	GB
		DESIGNED BY:	CWG
		CHECKED BY:	JSL
			OF 9



SEEPAGE BERM PROFILE



RECORD DRAWINGS
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE CONTRACTOR AND INSPECTOR.
 No. 43081
 EXP. 3/31/12
 CIVIL ENGINEER
 STATE OF CALIFORNIA
 DATE: 4/16/10

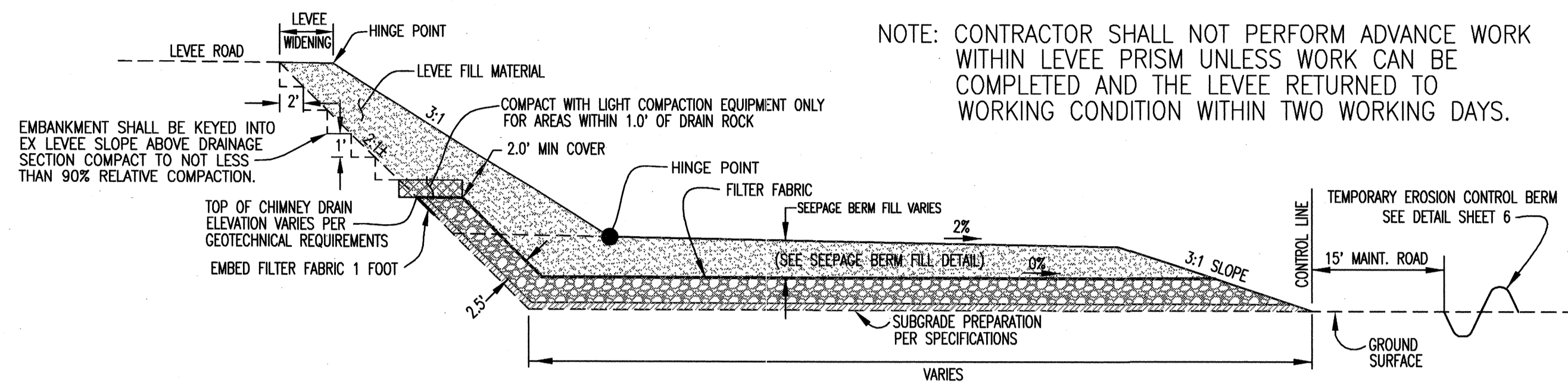
PLANS REVIEWED AND APPROVED BY:
KSN
KJELDSSEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Fax: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17, MOSSDALE TRACT ELEMENT 1D DATED MARCH 13, 2009
ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971
 No. 41637
 EXP. 12/31/09

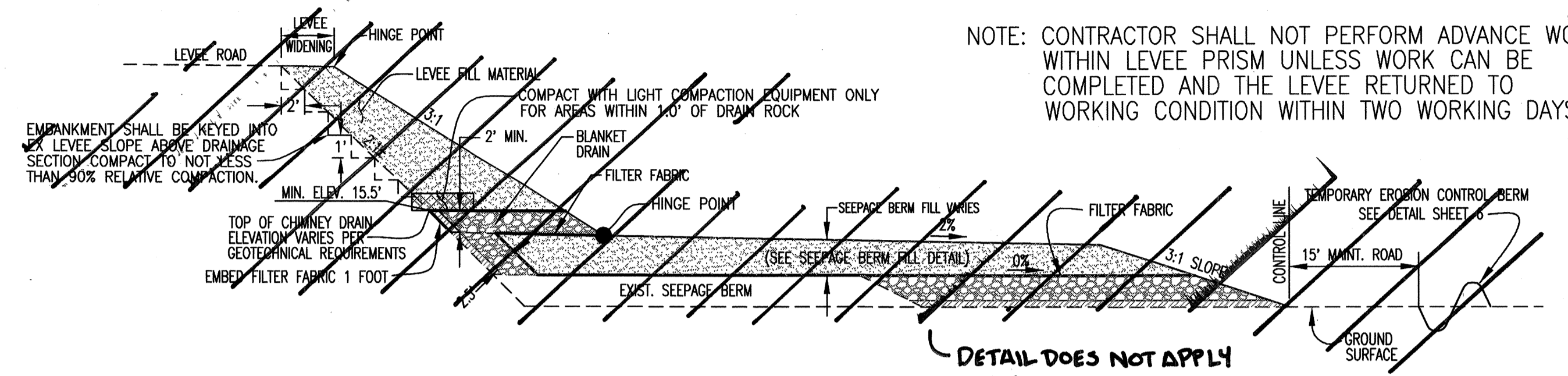
PLANS PREPARED UNDER THE DIRECTION OF:
Mackay & Somp
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94568 (925) 225-0890
 CIVIL ENGINEER
 STATE OF CALIFORNIA
 No. 41637
 EXP. 12/31/09

RECLAMATION DISTRICT NO. 17
 ELEMENT I-D
 SEEPAGE BERM PROFILE VIEW
 SAN JOAQUIN COUNTY CALIFORNIA

DATE:	JULY 2009	PROJECT NO.	25126.03
SCALE:		DRAWN BY:	GB
DESIGNED BY:	CWG	CHECKED BY:	JSL
NO.	REVISION	DATE	
5	As-Built	6-16-10	
4	THRU SEEPAGE: REV. SHTS. 1, 4, & 5, ADDED SHTS. 7-9	4/16/10	
3	REVISE BERM SECTION AT TOE OF LEVEE & ISSUE ADDENDUM #1	10/8/09	
2	ISSUE CONSTRUCTION DOCUMENTS	9/2/09	
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09	

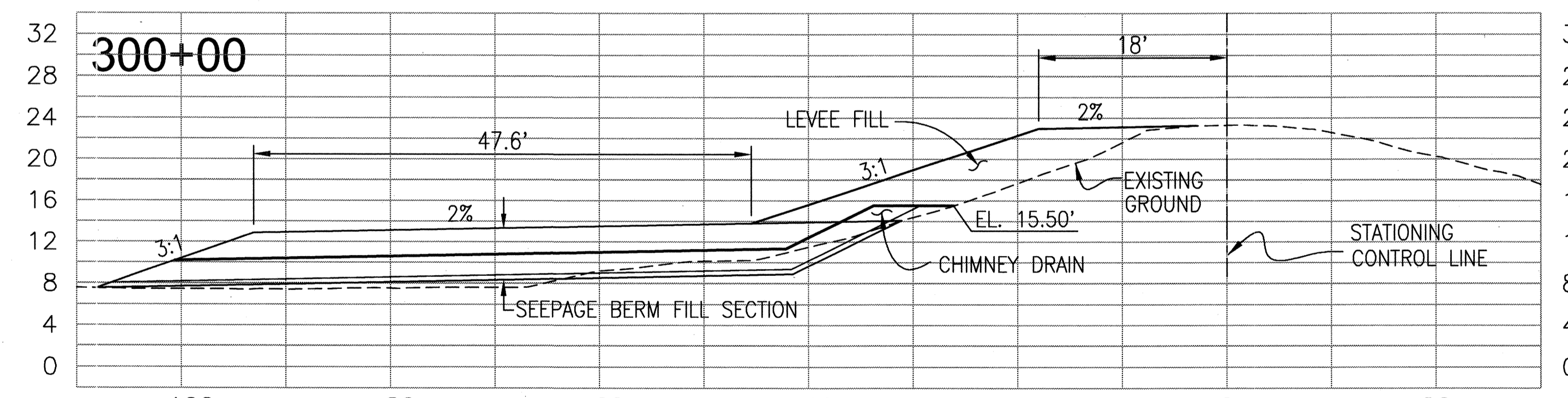
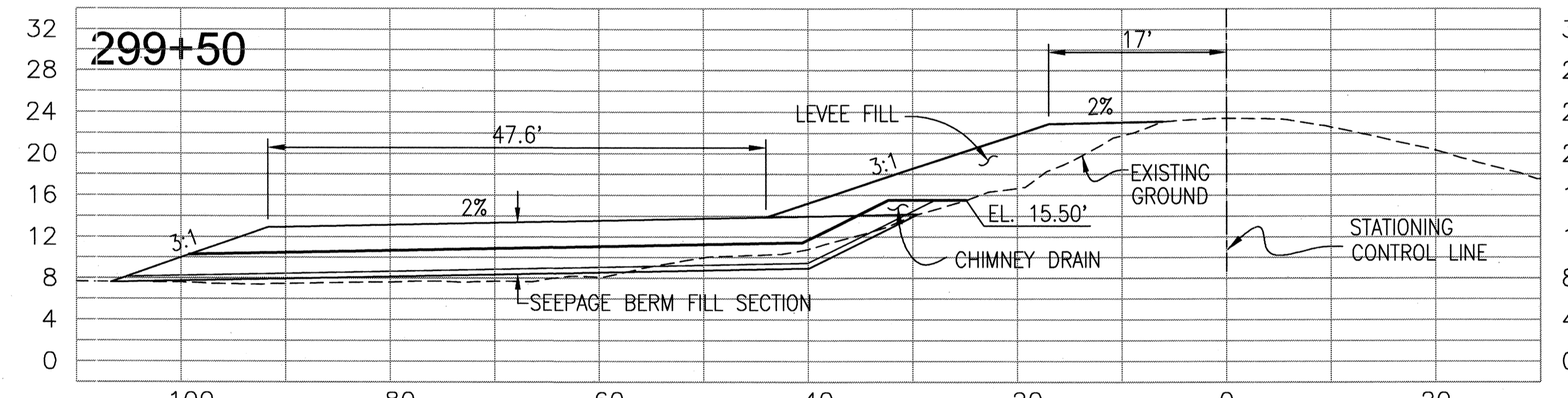
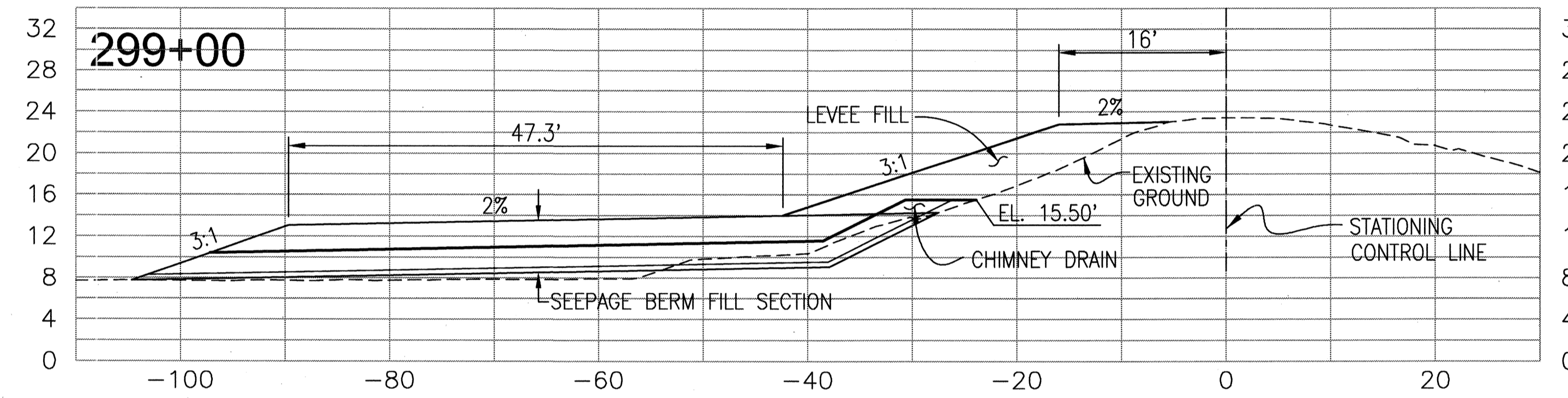
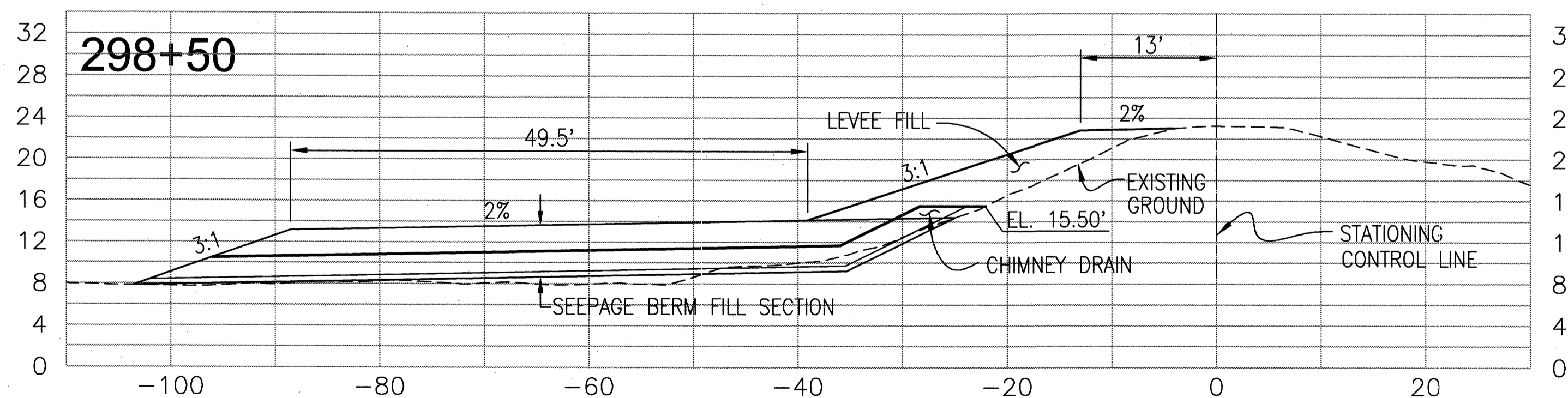
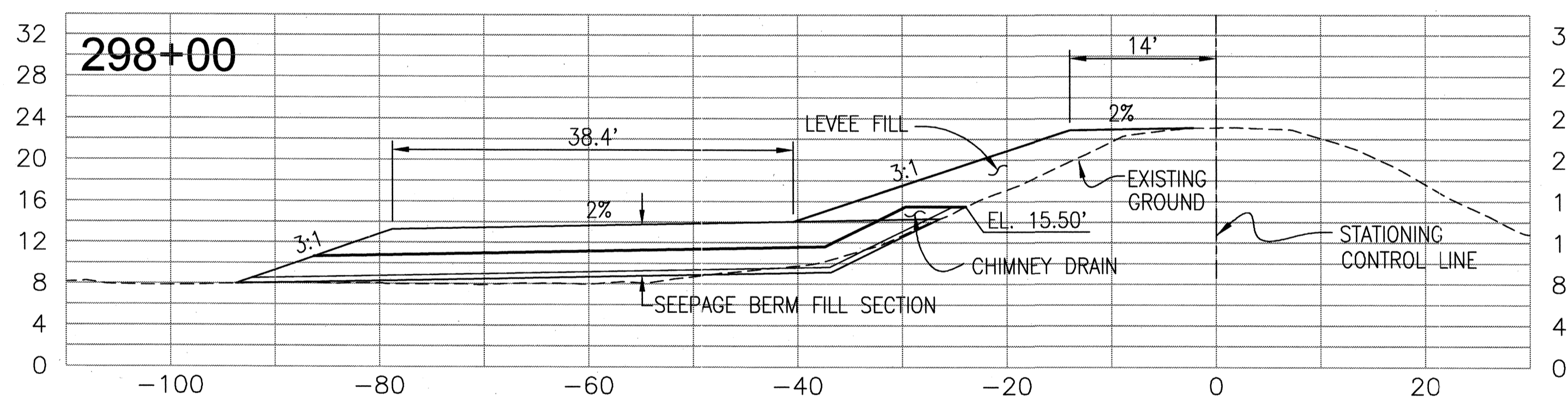
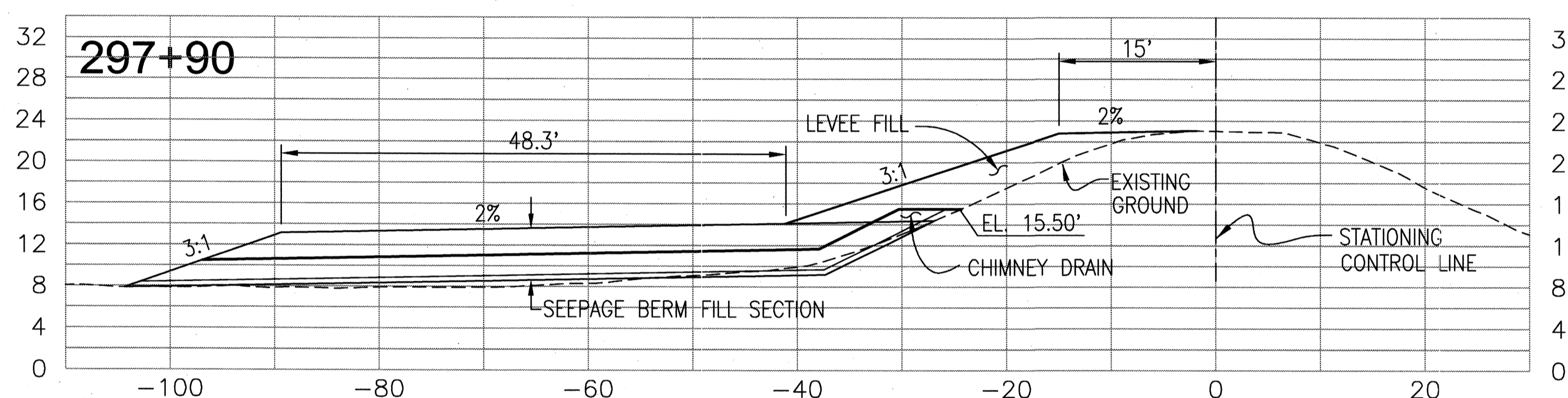


CHIMNEY DRAIN DETAIL
STA. 297+30 TO STA. 302+37 305+83
(NTS)



BLANKET DRAIN DETAIL
STA. 302+37 TO STA. 305+83
(NTS)

RECORD DRAWINGS
THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES.
No. 43061
EXP. 3/31/12
JAMES F. TEMPLETON
REGISTERED PROFESSIONAL ENGINEER
CIVIL
STATE OF CALIFORNIA



PLANS REVIEWED AND APPROVED BY:
K S N KJELSDEN SINNOCK NEUDECK INC. Consulting Engineers and Land Surveyors
Post Office Box 844
711 N. Pershing Avenue
Stockton, CA 95201-0844
Office: (209) 946-0268
Fax: (209) 946-0296
E-mail: KSN@ksninc.com

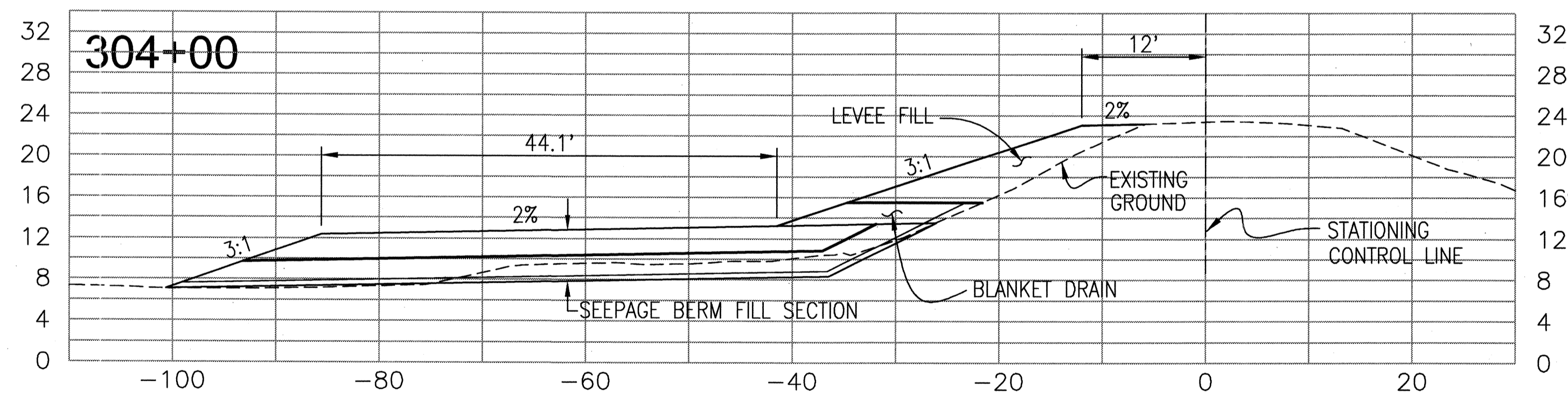
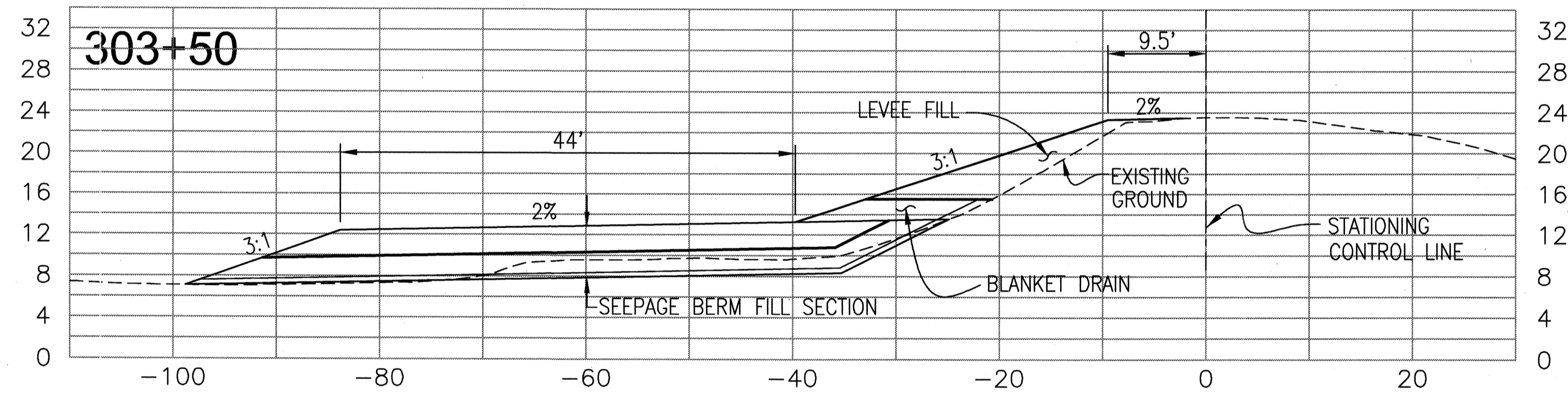
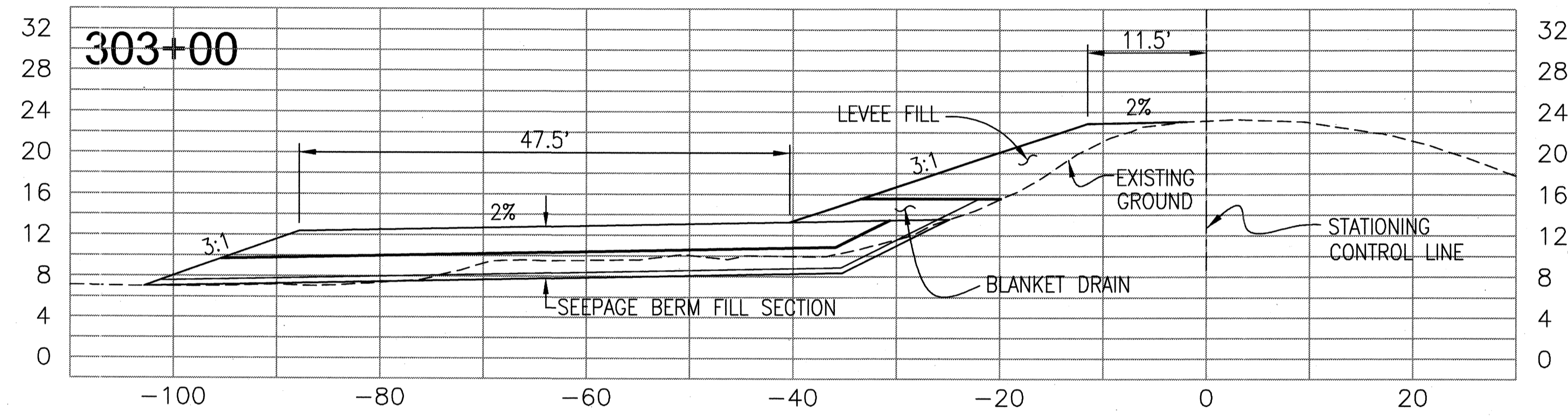
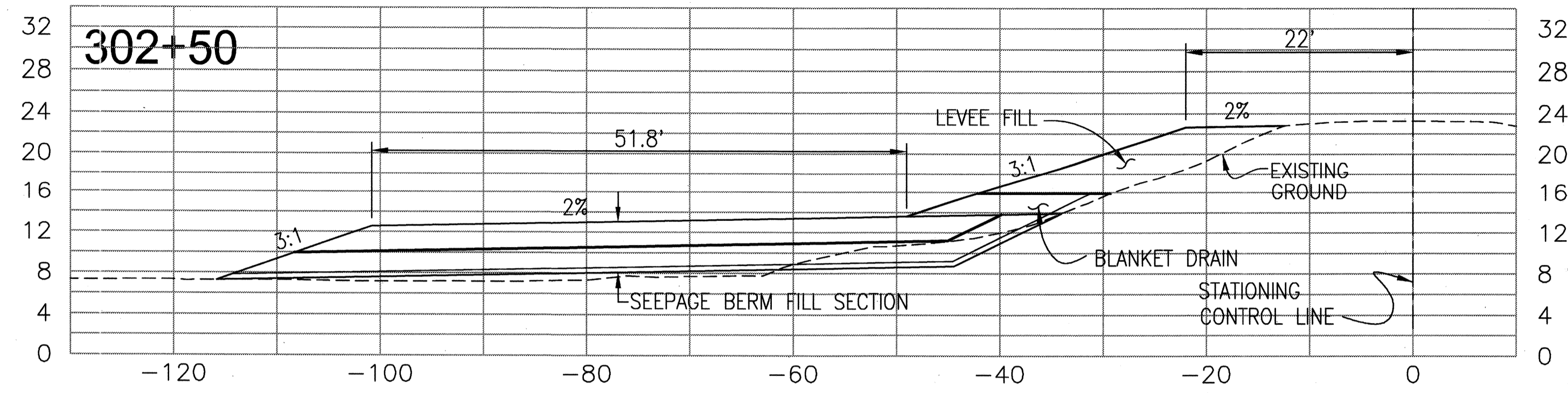
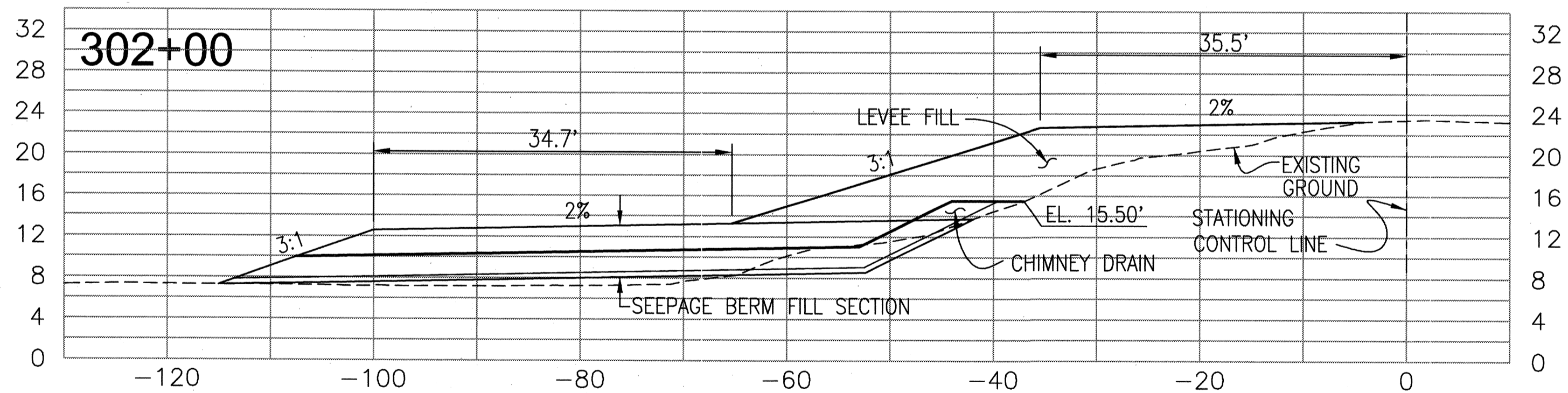
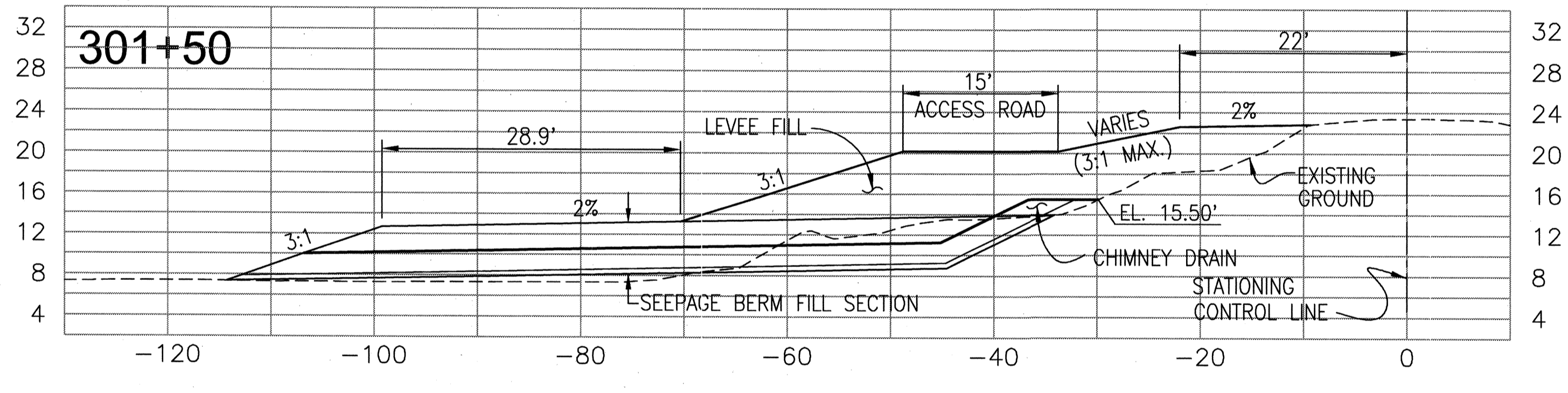
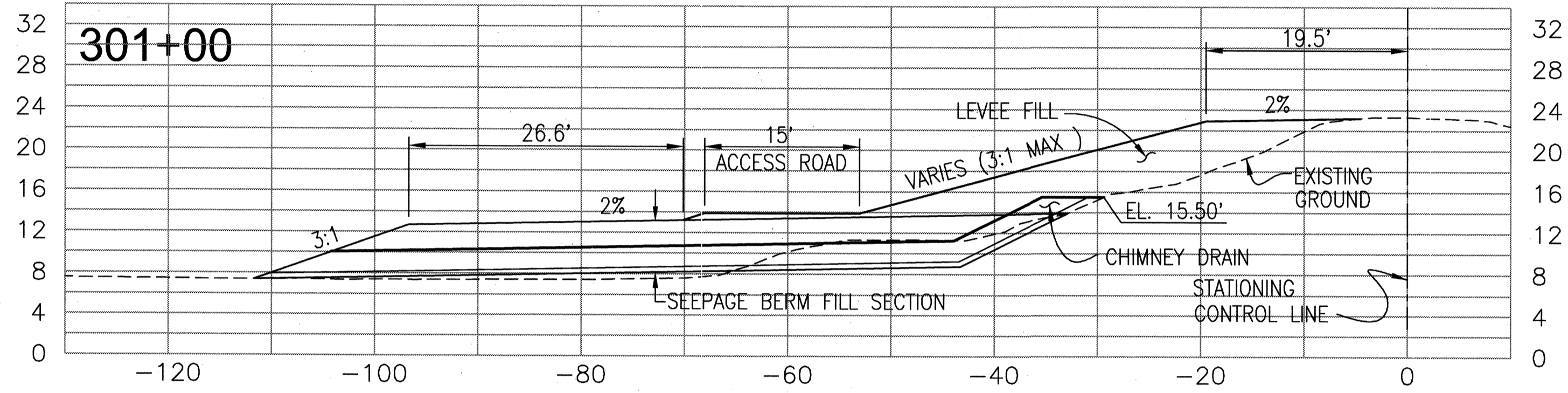
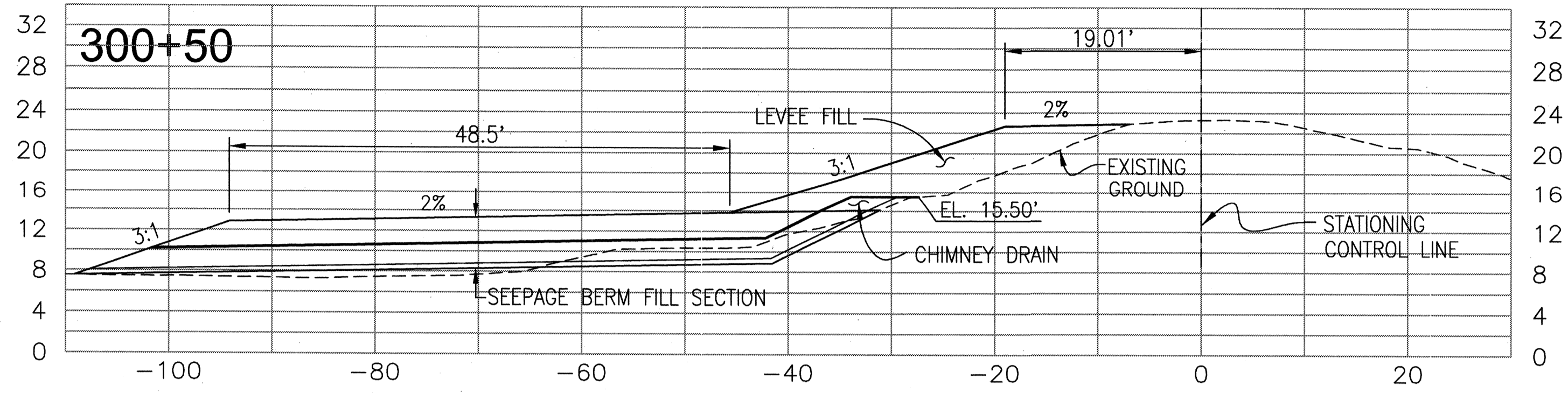
THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT ELEMENT 1D DATED MARCH 13, 2009
ENGEO INCORPORATED
EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:
Mackay & Soms ENGINEERS PLANNERS SURVEYORS
5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690

RECLAMATION DISTRICT NO. 17
ELEMENT I-D
THRU SEEPAGE SECTIONS
297+90 THRU 305+83
SAN JOAQUIN COUNTY CALIFORNIA

5	AS-BUILT	6-16-10
4	THRU SEEPAGE: REV. SHITS. 1, 4, & 5. ADDED SHITS. 7-9	4/16/10
3	REVISE BERM SECTION AT TOE OF LEVEE & ISSUE ADDENDUM #1	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	9/2/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09
NO.	REVISION	DATE

DATE: JULY 2009
SCALE: H & V: 1"=10'
DRAWN BY: GB
DESIGNED BY: CWG
CHECKED BY: JSL
PROJECT NO. 25126.03
SHEET 7 OF 9



RECORD DRAWINGS
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE EXCEPTIONS NOTED FOR FIELD CHANGES THROUGHOUT THE CONSTRUCTION OF THE ENGINEER BY THE PROJECT ARCHITECT, CONTRACTOR, AND INSPECTOR.
 No. 43061
 EXP. 3/31/12
 CIVIL
 JAMES F. TEMPLETON
 RCE 43061 EXP. 3/31/12
 DATE 6/7/10

PLANS REVIEWED AND APPROVED BY:
K S N
KJELDSSEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors
 Post Office Box 944
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Fax: (209) 946-0296
 E-mail: KSN@ksninc.com

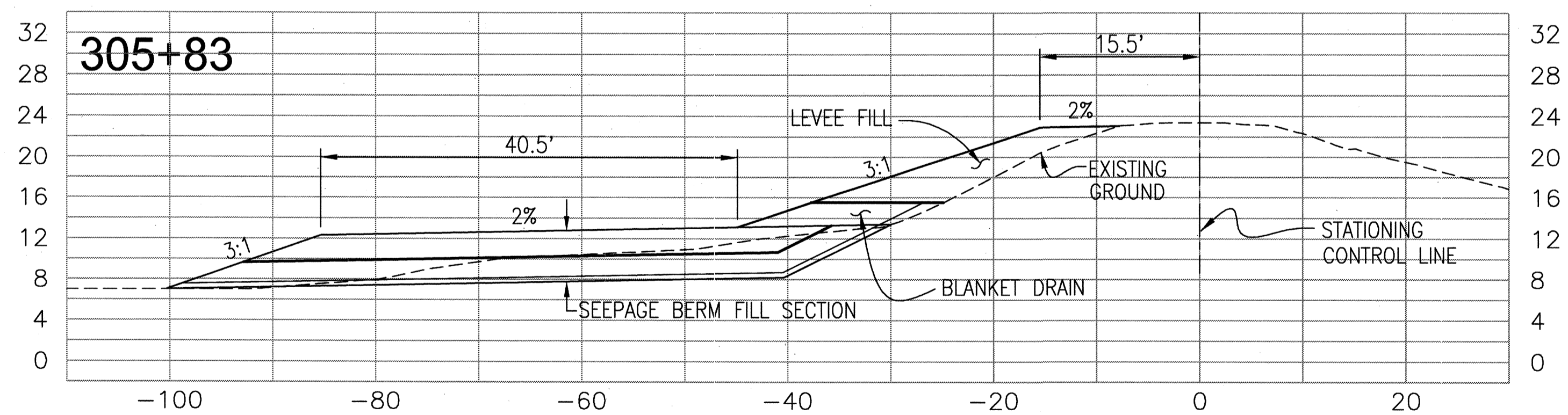
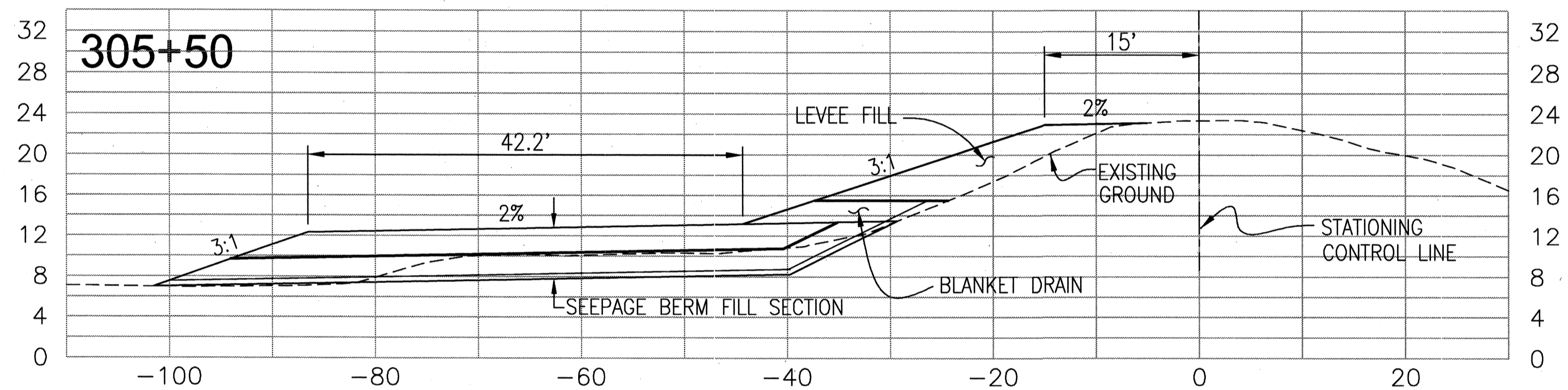
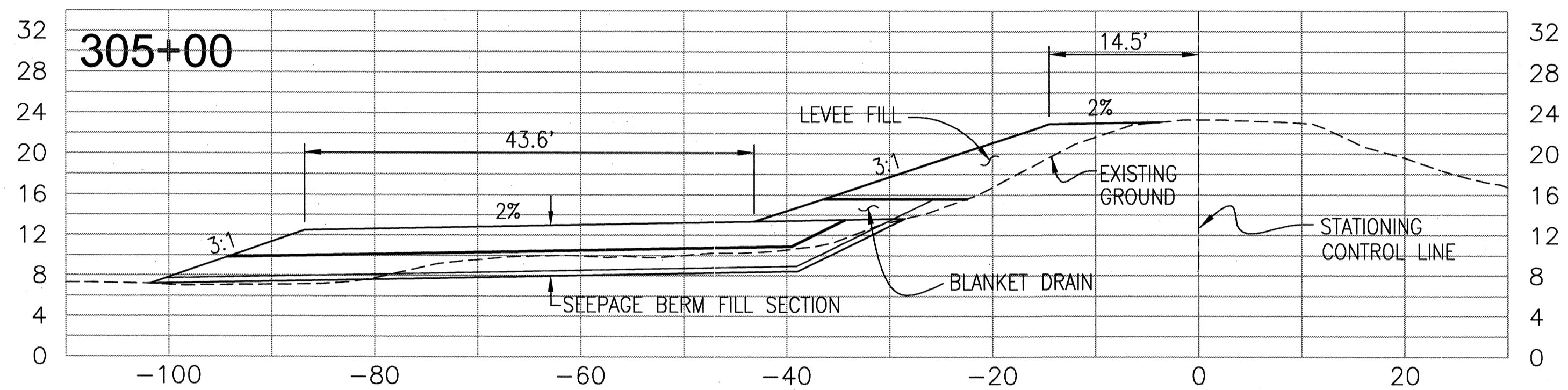
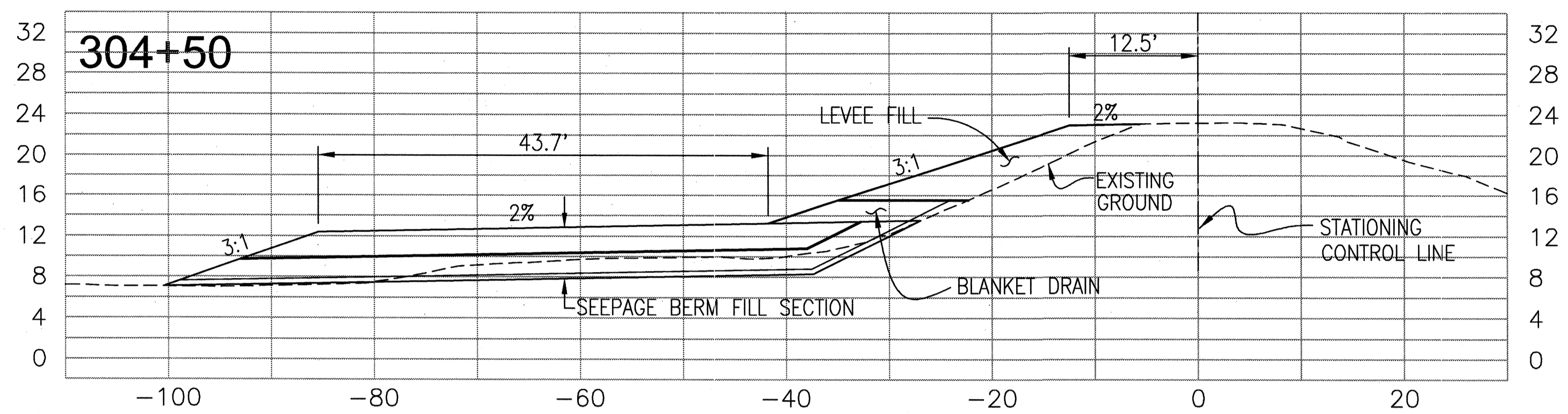
THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT ELEMENT 1D DATED MARCH 13, 2009
ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971
 5/5/09

PLANS PREPARED UNDER THE DIRECTION OF:
MACKAY & SOMPS
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690
 MACKAY & SOMPS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF REPRODUCTIONS OF THIS DOCUMENT THAT ARE GENERATED BY OTHERS FROM ELECTRONIC MEDIA.
 5/5/09

RECLAMATION DISTRICT NO. 17
 ELEMENT I-D
 THRU SEEPAGE SECTIONS
 297+90 THRU 305+83
 SAN JOAQUIN COUNTY CALIFORNIA

5	As-Noted	6-16-10
4	THRU SEEPAGE: REV. SHTS. 1, 4, & 5, ADDED SHTS. 7-9	4/16/10
3	REVISE BERM SECTION AT TOE OF LEVEE & ISSUE ADDENDUM #1	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	9/2/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09
NO.	REVISION	DATE

DATE: JULY 2009
 SCALE: H & V: 1"=10'
 DRAWN BY: GB
 DESIGNED BY: CWG
 CHECKED BY: JSL
 PROJECT NO. 25126.03
 SHEET 8 OF 9



REGISTERED PROFESSIONAL ENGINEER
 JAMES F. TEMPLETON
 No. 43061
 EXP. 3/31/12
 CIVIL ENGINEER
 STATE OF CALIFORNIA

THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE PROJECT CONTRACTOR AND INSPECTOR.
 DATE: 6/17/10

PLANS REVIEWED AND APPROVED BY:
KSN KJELSDEN SINNOCK NEUDECK
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT ELEMENT 1D DATED MARCH 13, 2009
ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971

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RECLAMATION DISTRICT NO. 17
 ELEMENT I-D
 THRU SEEPAGE SECTIONS
 297+90 THRU 305+83
 SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE
5	A5-BUILT	6-16-10
4	THRU SEEPAGE: REV. SHTS. 1, 4, & 5, ADDED SHTS. 7-9	4/16/10
3	REVISE BERM SECTION AT TOE OF LEVEE & ISSUE ADDENDUM #1	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	9/2/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

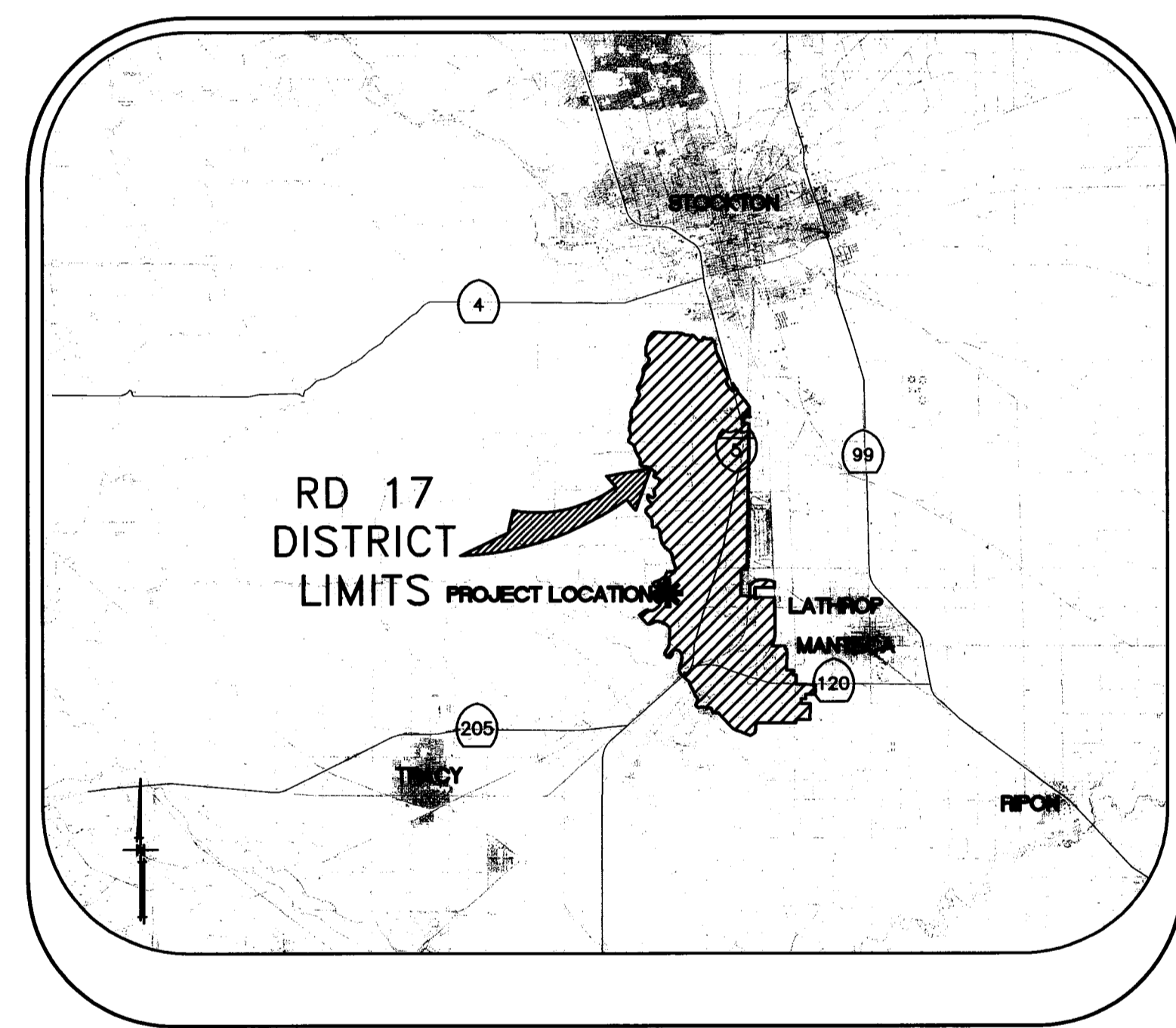
DATE: JULY 2009
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 DESIGNED BY: CWG
 CHECKED BY: JSL

PROJECT NO. 25126.03
 SHT 9 OF 9

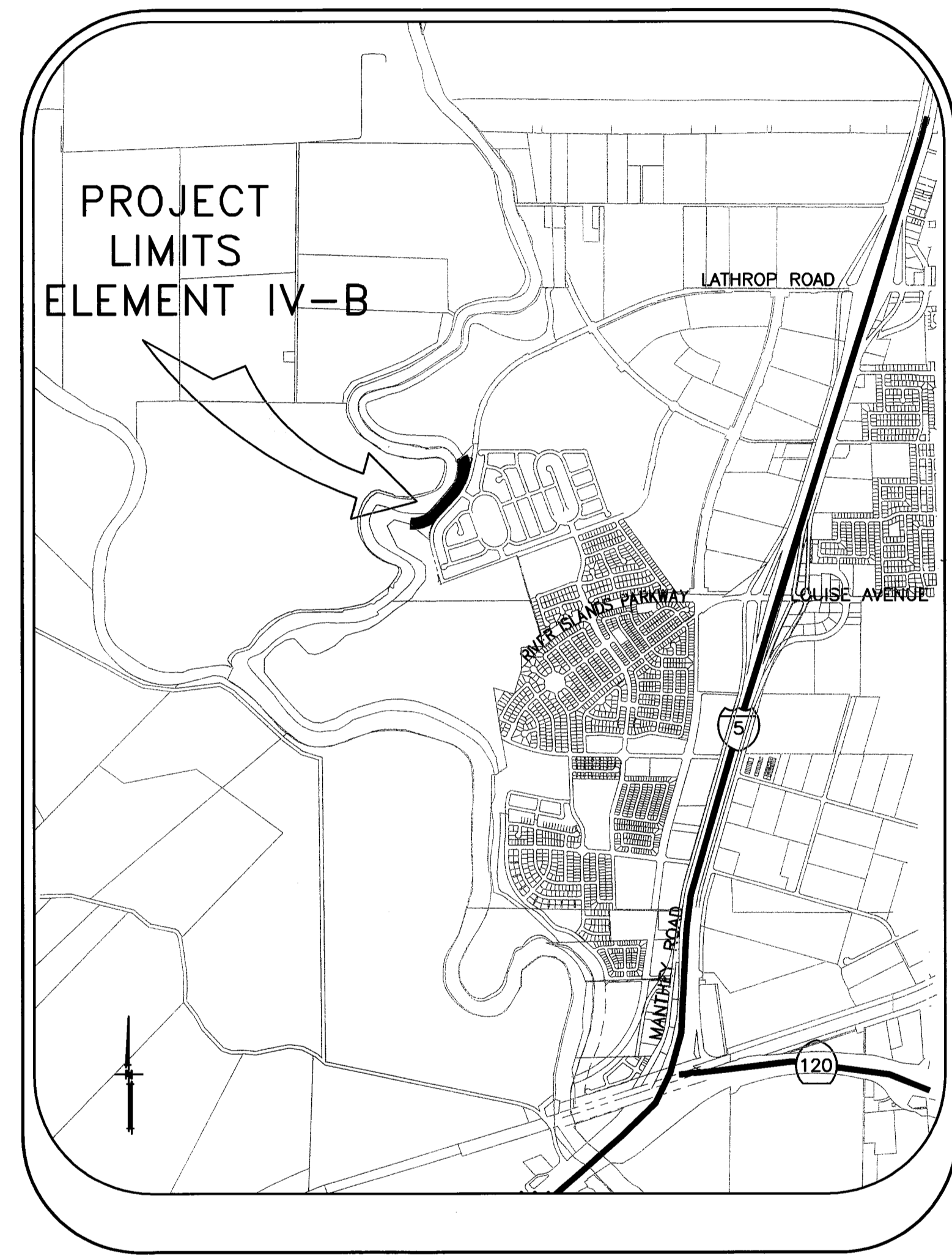
RECLAMATION DISTRICT NO. 17 LEVEE SEEPAGE PROJECT

ELEMENT IV-B STATION 574+37 THRU 587+00

IV-B (NAVD88 DATUM)



VICINITY MAP



PROJECT SITE MAP

SHEET	DESCRIPTION
1.	COVER SHEET
2.	STATIONING MAP / HAUL ROUTES
3.	NOTES & BORING LOCATIONS
4.	TYPICAL SECTIONS & DETAILS
5.	DEMOLITION PLAN - CIVIL
6.	DEMOLITION PLAN - CIVIL
7.	DEMOLITION PLAN - LANDSCAPE
8.	DEMOLITION PLAN - LANDSCAPE
9.	SEEPAGE BERM PLAN VIEW
10.	SEEPAGE BERM PLAN VIEW
11.	SEEPAGE BERM PROFILE / SELECTED CROSS SECTIONS
12.	THRU-SEEPAGE SECTIONS
13.	THRU-SEEPAGE SECTIONS
14.	THRU-SEEPAGE SECTIONS

INDEX

RECORD DRAWING

THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.

REGISTERED PROFESSIONAL ENGINEER
JAMES F. TEMPLETON JR.
No. 43061
EXP. 3/31/12
CIVIL
STATE OF CALIFORNIA

JAMES F. TEMPLETON JR.
RCE
No. 43061
EXPIRES: MARCH 31, 2012

PLANS REVIEWED AND APPROVED BY:

K S N
INC. Consulting Engineers and Land Surveyors

Post Office Box 844
711 N. Pershing Avenue
Stockton, CA 95201-0844
Office: (209) 946-0268
Faxes: (209) 946-0296
E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT ELEMENT IV-4B DATED MARCH 27, 2009

ENGEO
INCORPORATED
EXCELLENT SERVICE SINCE 1971

REGISTERED PROFESSIONAL ENGINEER
JAMES F. TEMPLETON JR.
No. 41637
EXP. 12/31/09
CIVIL
STATE OF CALIFORNIA

PLANS I

Mackay & Somps
INCORPORATED

NO.	DESCRIPTION	DATE
1	COVER SHEET	11/15/11
2	PLAN SHEETS 12-14	4/16/10
3	REVISIONS	8/17/09
4	LAN CHECK COMMENTS	7/20/09
5	REVISION	DATE

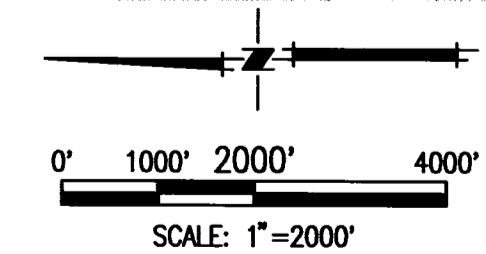
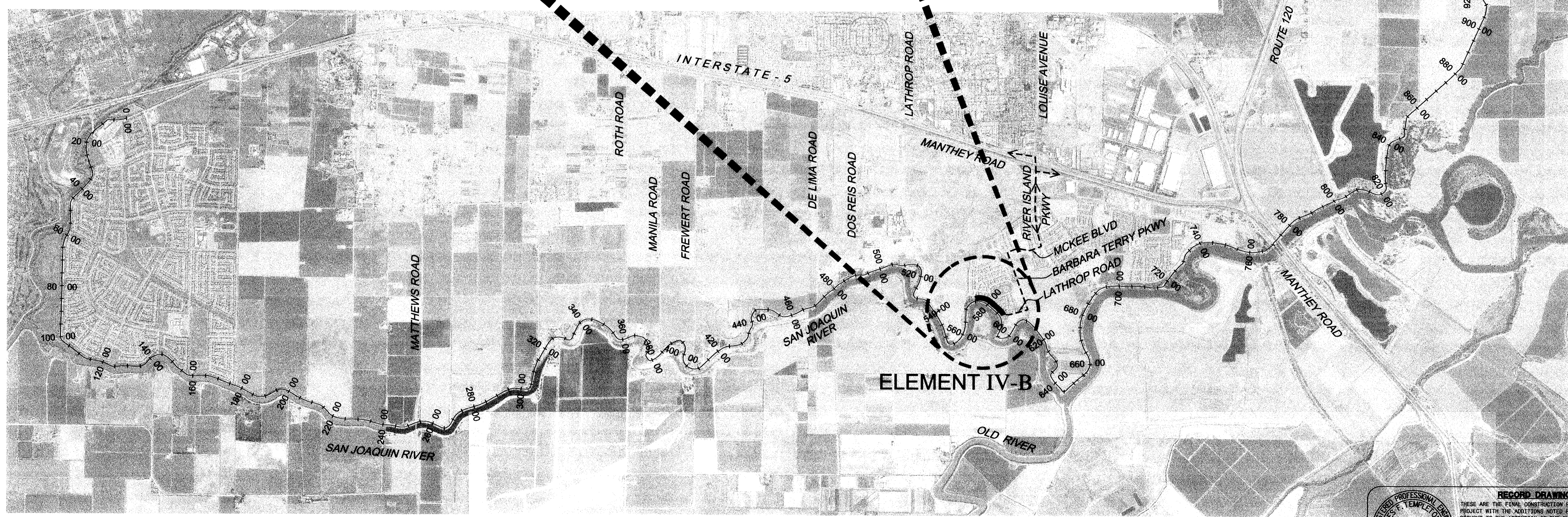
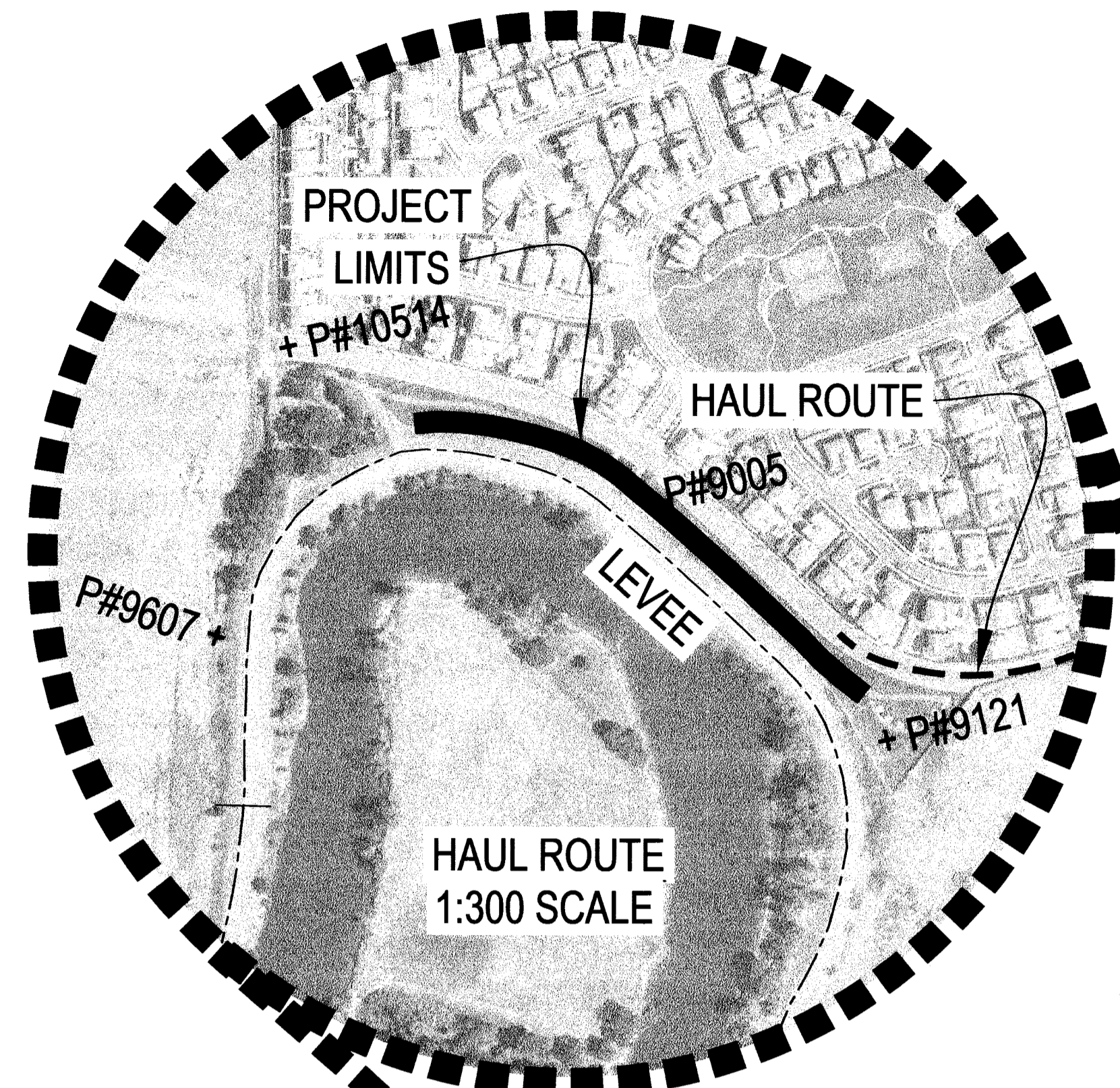
DATE: JULY 2009	PROJECT NO. 25126.03
SCALE: NOT TO SCALE	SHT 1
DRAWN BY: EJN	OF 14
DESIGNED BY: CWG	
CHECKED BY: JSL	

CONTROL POINTS

P#9005 N2120953.935 E6326410.201 EL= 29.28 HV104 (3/4" IN IP)
 P#9121 N2120368.619 E6325841.798 EL=29.32 MS83
 P#9607 N2121738.207 E6325726.294 EL=29.57 WP-SJR1
 P#10514 N2121624.333 E6326719.045 EL=10.84 EX. MON DISC)

← ← ← ← → → → →
 INDICATES HAUL ROUTES TO BE USED BY CONTRACTOR

THE BASIS OF BEARINGS IS NORTH 12°33'37.56" EAST BETWEEN NATIONAL GEODETIC SURVEY HORIZONTAL CONTROL POINTS HPGN-D CA 10 HG (PID AA4256) AND MATTHEW (PID HS0118), CALIFORNIA COORDINATE SYSTEM ZONE 3, NAD83, EPOCH DATE 1997.30, AS CALCULATED AND ADJUSTED BY THE NATIONAL GEODETIC SURVEY IN JULY, 1998, AS SHOWN ON RECORDS OF SURVEY RECORDED AT BOOK 34 PAGES 163 - 163B, OF SAN JOAQUIN COUNTY RECORDS. ALL DISTANCES SHOWN HEREON ARE GROUND DISTANCES. TO CONVERT TO GRID DISTANCE, MULTIPLY GROUND DISTANCE BY AVERAGE COMBINED SCALE FACTOR OF 0.999929125. ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).



REGISTERED PROFESSIONAL ENGINEER
 JAMES F. TEMPLETON JR.
 No. 43061
 EXP. 3/31/12
 CIVIL
 STATE OF CALIFORNIA

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JAMES F. TEMPLETON JR.
 RICE #43061
 EXPIRES: MARCH 31, 2012

PLANS REVIEWED AND APPROVED BY:

K S N
KJELDSSEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors

Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17 MOSSDALE TRACT ELEMENT IV-4B DATED MARCH 27, 2009

ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

MACKAY & SOMPS
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690

MACKAY & SOMPS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF REPRODUCTIONS OF THIS DOCUMENT THAT ARE GENERATED BY OTHERS FROM ELECTRONIC MEDIA.

RECLAMATION DISTRICT NO. 17
 ELEMENT IV-B
 STATIONING MAP / HAUL ROUTES
 SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE
4	RECORD DRAWINGS (NAVD88)	11/15/11
3	ADD THRU-SEEPAGE PLANS SHITS 12-14	4/16/10
2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

DATE: JULY 2009	PROJECT NO. 25126.03
SCALE: 1"=2000'	SHT 2
DRAWN BY: EUN	OF 14
DESIGNED BY: CWG	
CHECKED BY: JSL	

ROLES:

THE "DISTRICT" AS REFERRED TO IN THESE NOTES MEANS RECLAMATION DISTRICT 17.
 THE "ENGINEER" AS REFERRED TO IN THESE NOTES MEANS THE DISTRICT ENGINEER: KJELDSEN SINNOCK AND NEUDECK. THE ENGINEER SHALL PROVIDE INSPECTION OF THE PROJECT AND OVERALL CONSTRUCTION MANAGEMENT INCLUDING COORDINATION WITH PUBLIC UTILITIES, PUBLIC AGENCIES, THE DESIGN ENGINEER AND THE GEOTECHNICAL ENGINEER.

THE "DESIGN ENGINEER" MEANS MACKAY AND SOMPS, CIVIL ENGINEERS INC. THE DESIGN ENGINEER WILL PERFORM DISTRICT PROVIDED CONSTRUCTION STAKING AND "AS-GRADED" SURVEYS.
 THE "GEOTECHNICAL ENGINEER" MEANS ENGO INC. THE GEOTECHNICAL ENGINEER WILL PROVIDE MATERIALS TESTING, COMPACTION TESTING AND OTHER GEOTECHNICAL RELATED TESTING.

CONTRACTOR SHALL BE RESPONSIBLE FOR SUPERVISION OF ALL CONTRACTOR'S EMPLOYEES, SUBCONTRACTORS, INCLUDING SCHEDULING AND ALL SAFETY MATTERS.

GENERAL NOTES:

- PRIOR TO THE COMMENCEMENT OF WORK, A JOINT INSPECTION BETWEEN THE ENGINEER OR HIS REPRESENTATIVE, AND THE CONTRACTOR OR HIS REPRESENTATIVE, WILL BE CONDUCTED TO REVIEW THE PRE-CONSTRUCTION CONDITIONS (E.G. ROADS, PUMPS DISCHARGE PIPES, SIPHONS, RAMPS, GATES, SIGNS, ETC.) IF SUCH EXISTING FACILITIES ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR, AT HIS EXPENSE, SHALL REPLACE OR RESTORE THEM TO THE CONDITION THAT EXISTED PRIOR TO THE COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT (209) 946-0268, A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.
- THE DISTRICT RESERVES THE RIGHT TO SUSPEND CONSTRUCTION AT ANY TIME IN THE EVENT OF EXTREME HIGH OR LOW TIDES, FLOOD EVENTS, OTHER CONDITIONS OR EMERGENCIES THAT MAY JEOPARDIZE THE INTEGRITY OF THE DISTRICT'S LEVEE AND ROAD SYSTEM.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, COUNTY AND LOCAL REQUIREMENTS, AS REQUIRED FOR TRAFFIC CONTROL AND PUBLIC SAFETY DURING PROJECT CONSTRUCTION.
- THE DISTRICT WILL FURNISH ALL RIGHT-OF-WAY FOR ALL LEVEE ROADS AND DESIGNATED ACCESS HAUL ROUTES. THE CONTRACTOR WILL SECURE RIGHT-OF-WAY FOR ALL OTHER AREAS NOT UNDER THE DISTRICT'S JURISDICTION.
- IF DELIVERING MATERIAL OR EQUIPMENT BY TRUCK, ALL TRUCK TRAFFIC SHALL BE LIMITED TO THE DISTRICT LEVEE ROADS AND/OR PUBLIC ROADS AS SHOWN ON HAUL ROUTE PLAN, UNLESS OTHERWISE APPROVED.
- MAXIMUM SPEED LIMIT ON DISTRICT LEVEE ROADS IS 30 MPH, OR AS POSTED. CONTRACTOR SHALL POST LARGE SLOW/CAUTION SIGNS AND SPEED LIMIT SIGNS FOR PURPOSES OF NOTIFYING BOTH CONTRACTOR'S EMPLOYEES AND THE PUBLIC. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFETY AT ALL TIMES ALONG ALL HAUL ROUTES AND IN ALL PROJECT AREAS (PUBLIC AND PRIVATE).
- THE DISTRICT WILL PROVIDE CONSTRUCTION SURVEY STAKES AS DESCRIBED IN CONSTRUCTION SURVEYING SECTION. PLEASE CONTACT KJELDSEN SINNOCK AND NEUDECK WITH STAKING REQUESTS (209-946-0268) WITH AT LEAST TWO WORKING DAYS ADVANCE NOTICE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CONSTRUCTION STAKING AND SURVEYING BEYOND THAT PROVIDED BY THE DISTRICT AS DESCRIBED IN THE CONSTRUCTION SURVEYING SECTION ON THIS SHEET.
- THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE DISTRICT, THE ENGINEER, THE DESIGN ENGINEER AND THE GEOTECHNICAL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DISTRICT, THE ENGINEER, THE DESIGN ENGINEER OR THE GEOTECHNICAL ENGINEER.
- ANY DEFICIENCIES NOTED DURING INTERIM AND FINAL INSPECTIONS BY THE ENGINEER AND/OR DISTRICT SHALL BE CORRECTED BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE BY THE DISTRICT. ANY ADDITIONAL COSTS AND EXPENSES FOR MOBILIZATION AND/OR DEMOBILIZATION, LABOR, EQUIPMENT AND OTHER ASSOCIATED COSTS REQUIRED TO CORRECT THE DEFICIENCIES NOTED, EXCEPT SPECIFIED MATERIAL(S), SHALL BE BORNE BY THE CONTRACTOR.
- THE CONTRACTOR SHALL NOT CLOSE ANY ROAD, STREET, OR HIGHWAY TO THE PUBLIC EXCEPT WITH THE PERMISSION OF THE ENGINEER AND THE PROPER GOVERNMENTAL AUTHORITY. TEMPORARY PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO ENSURE CONTINUOUS ACCESS TO PUBLIC AND PRIVATE DRIVEWAYS, AND PROPER FUNCTIONING OF CULVERTS, DRAINAGE AND IRRIGATION DITCHES, AND NATURAL WATER COURSES.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER, AND HE SHALL NOTIFY THE ENGINEER WHENEVER THERE IS A CHANGE IN SITE CONDITIONS OR AN ADJUSTMENT TO BE MADE IN WORK REQUIREMENTS.
- SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER AT (209) 946-0268 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
- THE INTENT OF THESE PLANS IS TO SERVE AS A GUIDE AND TO PROVIDE THE CONTRACTOR WITH INFORMATION AND DETAILS NECESSARY TO CONSTRUCT THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES AND AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATIONS. IF THE PLANS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE OSHA REGULATIONS AND SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL AT ALL TIMES BE RESPONSIBLE FOR THE SECURITY OF HIS PLANT AND EQUIPMENT. THE DISTRICT WILL NOT BE RESPONSIBLE FOR MISSING OR DAMAGED EQUIPMENT, TOOLS, OR PERSONAL BELONGINGS.

ENVIRONMENTAL NOTES:

- THE CONTRACTOR SHALL NOT DISCHARGE SMOKE, DUST, OR ANY OTHER AIR CONTAMINANTS INTO THE ATMOSPHERE IN SUCH QUANTITIES AS WILL VIOLATE THE REGULATIONS OF ANY LEGALLY CONSTITUTED AUTHORITY. HE SHALL ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING AND SPRINKLING WITH WATER, OR OTHER MEANS AS NECESSARY. THE USE OF WATER IN AN AMOUNT WHICH RESULTS IN MUD ON PUBLIC ROADS IS NOT ACCEPTABLE AS A SUBSTITUTE FOR SWEEPING OR OTHER METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ADJACENT PUBLIC ROADS CLEAN & CLEAR FROM CONSTRUCTION IMPACTS OR DEBRIS.
- THE CONTRACTOR SHALL EXERCISE EVERY REASONABLE PRECAUTION TO PROTECT STREAMS, WATERWAYS AND OTHER BODIES OF WATER FROM POLLUTION WITH FUELS, OIL, BITUMENS, CALCIUM CHLORIDE, AND OTHER HAZARDOUS MATERIALS AND SHALL CONDUCT AND SCHEDULE HIS OPERATIONS SO AS TO AVOID OR MINIMIZE MUDDYING AND SILTING OF SAID WATERS. CARE SHALL BE EXERCISED TO PRESERVE ROADSIDE VEGETATION BEYOND THE LIMITS OF CONSTRUCTION.

ENVIRONMENTAL NOTI

3. THROUGHOUT AL FINAL ACCEPTAN CLEAN AND FRE

DUST AND MUD CON

- DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL KEEP ALL CONSTRUCTION AREAS, FILL AREAS, HAUL ROUTES, OTHER ROADWAYS, AND OTHER USE AREAS WHERE DUST IS GENERATED WELL WATERED; AND DURING WET CONDITIONS, AREAS USED BY LOCAL TRAFFIC, FREE AND CLEAR FROM MUD. CONTRACTOR SHALL PROVIDE EFFORTS NECESSARY TO MINIMIZE DUST AND OTHER DISTURBANCES NEAR EXISTING RESIDENCES AND ALL BUILDINGS NEAR HAUL ROUTES AND THE PROJECT SITE.
 - CROP DAMAGE: THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL TO PREVENT CROP DAMAGE AND FOR ANY AREAS IN ADDITION TO THOSE MENTIONED THAT GENERATE DUST AND/OR OTHER CONDITIONS WHICH MIGHT DAMAGE CROPS.
 - NON WORK DAYS: THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL THROUGHOUT THE DURATION OF THE PROJECT INCLUDING NON WORKDAYS IN ALL PROJECT AREAS, INCLUDING CONSTRUCTION ROADS AND CROP AREAS WHICH ARE USED BY THE CONTRACTOR, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL DEDICATE AT LEAST ONE (1) WATER TRUCK (OR MORE AS NEEDED OR DIRECTED BY THE ENGINEER) TO MAINTAIN ADEQUATE DUST CONTROL FOR THE FOLLOWING AREAS:
 - PROJECT AREAS
 - HAUL ROUTES
 - LEVEE TOE BERM FILL AREAS
 - OTHER CONSTRUCTION USE AREAS
 - CROP DAMAGE PREVENTION
 - RESIDENTIAL BUILDING AREAS

UTILITY NOTES:

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE ACTUAL LOCATION OF ALL UNDERGROUND, SURFACE, OVERHEAD, AND SUBMARINE IMPROVEMENTS, OR FACILITIES WHICH MAY BE SUBJECT TO DAMAGE BY REASON OF HIS OPERATIONS.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL SUCH FACILITIES IN THE AREA OF CONSTRUCTION, AND SHALL NOTIFY UTILITIES FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION. (UNDERGROUND SERVICE ALERT (800) 642-2444).
- THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES AND IRRIGATION AND DRAINAGE FACILITIES INCLUDING, BUT NOT LIMITED TO, SIPHONS, DITCHES, CROSSINGS, DISTRIBUTION BOXES, SLIDE GATES, ETC., DURING THE TERM OF THE CONTRACT. THE EXISTING IRRIGATION AND DRAINAGE FACILITIES MUST REMAIN FULLY OPERATIONAL DURING THE PERIOD OF CONSTRUCTION.

POWER LINES:

- THE CONTRACTOR SHALL TAKE NOTE OF THE POWER LINES WITHIN THE CONSTRUCTION ZONE. EXTREME CAUTION SHALL BE EXERCISED WHILE WORKING AROUND THE LIVE LINES.
- IF POWER POLES, LINES AND GUY WIRES ARE WITHIN THE IMMEDIATE WORK AREA, CONTRACTOR SHALL ADHERE TO ALL SAFETY STANDARDS AND REQUIREMENTS OF THE UTILITY COMPANY.
- FILL AROUND POLES SHALL BE PLACED AND COMPACTED IN A MANNER SO AS TO AVOID ANY ADVERSE IMPACTS TO THE INTEGRITY OF THE EXISTING POLES AND POWER SYSTEM & CONSISTENT WITH THE RECOMMENDATIONS OF THE SOILS REPORT.

TRAFFIC CONTROL:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AS DESCRIBED IN SPECIAL PROVISIONS, SECTION 1.12, "TRAFFIC CONTROL" AND DIVISION 2, SECTION 0242B "TRAFFIC CONTROL OF THE PROJECT SPECIFICATIONS (AS PREPARED BY THE ENGINEER)

CLEANUP:

- THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, AND UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE PREMISES OCCUPIED BY HIM IN A CLEAN AND ORDERLY CONDITION, DISPOSING OF REFUSE IN A MANNER SATISFACTORY TO THE ENGINEER.
- THE CONTRACTOR, UPON COMPLETION OF ALL WORK, SHALL RESTORE ALL HAUL ROUTES AND PROJECT SITES IN A MANNER SATISFACTORY TO THE ENGINEER AND THE DISTRICT.

CONSTRUCTION NOTES:

HAUL ROUTES:

- THE CONTRACTOR SHALL IMPROVE, MAINTAIN, AND REPAIR UPON COMPLETION, THE ACCESS ROADS AND HAUL ROUTES AS REQUIRED FOR TRANSPORTATION AND HAULING MATERIAL TO THE REPAIR AREAS.
- THE CONTRACTOR SHALL REVIEW THE HAUL ROUTES AND DETERMINE THE LOCATION FOR TURNOUTS, RAMPS, ROAD DRAINAGE, ALIGNMENT, ETC., UPON COMPLETION OF THE PROJECT, SOME PORTIONS OF THE HAUL ROUTES WHICH REMAIN SHALL BE LEFT IN GOOD CONDITION FOR THE DISTRICT, FARMERS, AND OTHER LOCAL TRAFFIC.
- THE HAUL ROUTES FOR THIS PROJECT MAY REQUIRE THE CONTRACTOR TO MODIFY AND REWORK THE GRADING OF THE EXISTING ROADS TO MEET THE CONTRACTOR'S HAULING AND ROAD DRAINAGE REQUIREMENTS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAKING ANY NECESSARY IMPROVEMENTS, MODIFICATIONS, AND ALTERATIONS TO MEET HIS REQUIREMENTS AND FOR THE MAINTENANCE OF ALL ACCESS ROADS AND HAUL ROUTES.
- THE CONTRACTOR'S EQUIPMENT SHALL BE RESTRICTED TO OPERATE ONLY ON THOSE HAUL ROUTES AND WITHIN THOSE SPECIFIED WORK AREAS INDICATED ON THE PLANS UNLESS OTHERWISE APPROVED BY THE ENGINEER, DISTRICT, AND LANDOWNERS.
- THE CONTRACTOR SHALL EXTEND, STRENGTHEN, REPLACE, OR OTHERWISE MODIFY THE EXISTING CROSSINGS (E.G. CULVERTS, SIPHONS, DRAIN PIPES, IRRIGATION PIPES, PUMP DISCHARGE PIPES, WET SPOTS, ETC.) AS NECESSARY TO ACCOMMODATE HIS EQUIPMENT. THE CONTRACTOR SHALL PROVIDE WHATEVER MEASURES ARE NECESSARY TO PRESERVE, PROTECT, AND MAINTAIN THE CROSSINGS SO AS TO ENSURE CONTINUOUS AND UNINTERRUPTED CONSTRUCTION OPERATIONS DURING THE ENTIRE TERM OF THIS CONTRACT.
- THE HAUL ROUTES MAY REQUIRE TEMPORARY IRRIGATION OR DISCHARGE PIPE EXTENSIONS AND RAMPING DURING CONSTRUCTION OPERATIONS. TEMPORARY EXTENSIONS AND RAMPING WILL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT HIS EXPENSE, INCLUDING REMOVAL IF REQUIRED, IN A MANNER WHICH MEETS WITH THE APPROVAL OF THE ENGINEER AND THE LANDOWNERS.
- NEITHER THE DISTRICT NOR THE ENGINEER MAKES ANY WARRANTY OR GUARANTEE AS TO THE ADEQUACY OF THE EXISTING MATERIALS TO SUPPORT THE CONSTRUCTION TRAFFIC ON THE HAUL ROUTES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAKING THE NECESSARY IMPROVEMENTS AND PROVIDING THE NECESSARY MEASURES REQUIRED TO ACCOMMODATE HIS ANTICIPATED NEEDS. REPAIRS TO HAUL ROUTES DAMAGED BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR MUST MAINTAIN ACCESS BY THE DISTRICT AND/OR PUBLIC (AS APPLICABLE) ON THE HAUL ROUTES USED AT ALL TIMES DURING CONSTRUCTION.

LEVEE SEEPAGE BERM SECTION:

- THE CONTRACTOR SHALL FURNISH, DELIVER, AND PLACE THE SPECIFIED MATERIALS (PER THE ENGINEER'S SPECIFICATIONS) AND UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER TO THE DESIGNATED SEEPAGE BERM SITES.
- THE SEEPAGE BERM SHALL BE CONSTRUCTED WITH ACCEPTABLE MATERIALS SUFFICIENT TO MEET DESIGN GRADES AND SPECIFICATIONS.
- ALL SUBGRADE AREAS RECEIVING THE FILTER DRAIN MATERIAL SHALL BE PREPARED AS REQUIRED BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR MAY BE REQUIRED TO PERFORM ADDITIONAL SUBGRADE PREPARATION WORK WITHIN THE SEEPAGE BERM AREAS PRIOR TO THE ACCEPTANCE OF THE MATERIAL.
- THE CONTRACTOR SHALL DELIVER THE FILTER DRAIN MATERIAL, DRAIN ROCK, AND SEEPAGE BERM FILL TO THE REQUIRED SECTIONS AS UNIFORM MIXTURES. THE MIXTURE SHALL BE DEPOSITED AND SPREAD TO THE REQUIRED COMPACTED THICKNESS. SEGREGATION OF MATERIAL SHALL BE AVOIDED AND EACH LAYER OF MATERIAL, AS SPREAD, SHALL BE FREE FROM POCKETS OF COARSE OR FINE MATERIAL.
 - THE FILTER DRAIN MATERIAL AND SEEPAGE BERM FILL SHALL BE PLACED IN LOOSE HORIZONTAL LAYERS NOT MORE THAN EIGHT INCHES (8") IN THICKNESS PRIOR TO COMPACTION. THE MATERIAL SHALL BE GENTLY SPREAD OUT. UNDER NO CIRCUMSTANCES SHALL ANY MATERIAL BE DROPPED FROM ANY HEIGHT ONTO THE FILL SECTION.
 - IF SEGREGATION OCCURS, MATERIAL SHALL BE WORKED UNTIL IT IS UNIFORMLY AND SATISFACTORILY BLENDED. AFTER SPREADING, THE MATERIAL SHALL BE WATERED AND SHAPED TO THE REQUIRED SECTION AND THEN COMPACTED AS SPECIFIED.
 - AT THE TIME MATERIALS ARE SPREAD, IT SHALL HAVE A MOISTURE CONTENT IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS. SUCH MOISTURE SHALL BE UNIFORMLY DISTRIBUTED THROUGHOUT THE MATERIAL.
- THE CONTRACTOR SHALL GRADE THE BASE OF THE SEEPAGE BERM TO MAINTAIN THE DESIGNATED GRADE AND CROSS-SECTIONS AS SHOWN ON THE PLANS. CONTRACTOR SHALL CUT AND FILL AS NECESSARY AND STOCKPILE ANY ADDITIONAL FILL FOR USE AS SEEPAGE BERM FILL.

FINISHING AND SLOPING GRADING:

- THE SURFACE OF THE TOP LAYER SHALL BE FINISHED TO THE DESIGNATED GRADE AND CROSS SECTION. THE FINISHED SURFACE SHALL BE OF UNIFORM TEXTURE, DRESSED AND GRADED TO DRAIN AND PREVENT WATER PONDING.

COMPACTION EQUIPMENT:

- COMPACTION SHALL BE PERFORMED WITH A NON-VIBRATORY TYPE ROLLER COMPACTOR. VIBRATORY EQUIPMENT WILL NOT BE PERMITTED ON LEVEE TOE BERM FILLS.

TESTING:

- THE DISTRICT WILL RETAIN ENGO, INC. TO PERFORM SAMPLING AND TESTING AS REQUIRED AND TO CHECK FOR COMPLIANCE WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL ASSIST IN THE REMOVAL OF SURFACE MATERIALS AT LOCATIONS DESIGNATED BY THE TESTING ENGINEER AT NO COST TO THE DISTRICT. ENGO, INC. WILL SAMPLE AND PERFORM ALL REQUIRED TESTS SUCH AS MOISTURE CONTENT, GRADATION, AND MOISTURE DENSITY RELATIONSHIPS ON THE EXCAVATED AND SEEPAGE BERM FILL MATERIALS.

GEOTEXTILE FABRIC:

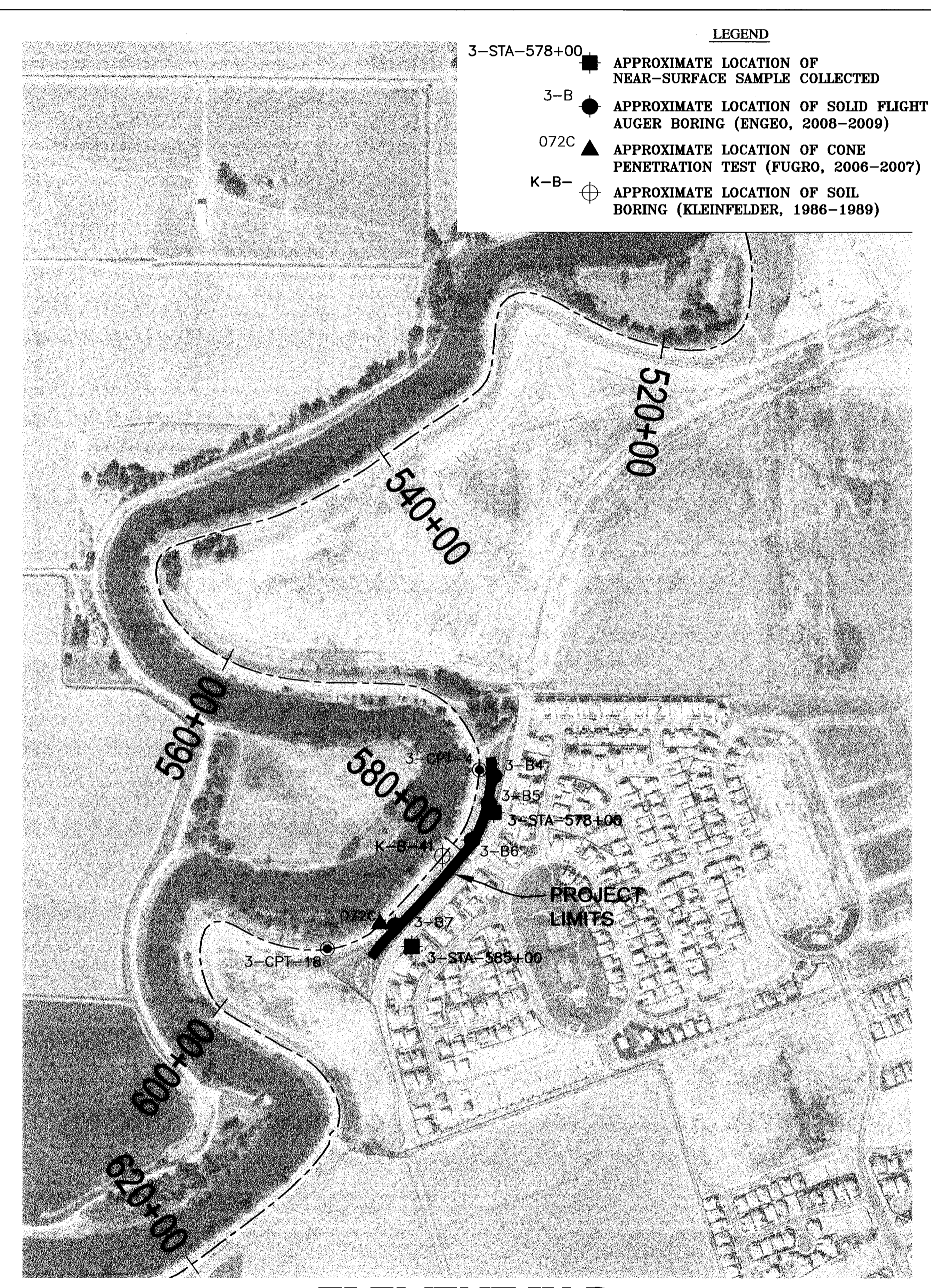
- GEOTEXTILE FABRIC SHALL BE MIRAFI FW700 WOVEN GEOTEXTILE OR AN APPROVED EQUAL.
- THE GEOTEXTILE FABRIC SHALL BE PLACED WITHIN THE AREA DESIGNATED BETWEEN THE SEEPAGE BERM FILL AND THE DRAIN ROCK MATERIAL.
- MEASUREMENT AND PAYMENT WILL BE BY THE SQUARE FOOT NEAT (WITHOUT OVERLAP) AND BASED UPON THE FABRIC PLACED TO THE DIMENSIONS AND AT THE LOCATIONS DESIGNATED AND ACCEPTED BY THE ENGINEER.
- FOR PAYMENT PURPOSES, MEASUREMENT OF THE FABRIC PLACED WILL NOT INCLUDE OVERLAPS AS REQUIRED BY THESE PLANS.

ROAD PREP, MAINTENANCE, AND SWPPP:

- PER THE IMPROVEMENT PLANS AND SWPPP (AS PREPARED BY ENGO), CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF REQUIRED:
 - EROSION CONTROL FACILITIES
 - CONSTRUCTION ENTRANCE
 - STREET SWEEPING
 - SITE/CONSTRUCTION MATERIALS MAINTENANCE
 - SITE SECURITY

LEGEND

---	EX FC	EXISTING FACE OF CURB
---	EX ROW	EXISTING RIGHT OF WAY
---	EX SD/EX PERF PIPE	EXISTING STORM DRAIN
---	NEW PERF PIPE	NEW TOE DRAIN
---	EX W	EXISTING WATER LINE
---	EX RW	EXISTING RECYCLED WATER LINE
---	CONFORM	NEW SEEPAGE BERM SLOPE
---	TOP	
---	TOE	



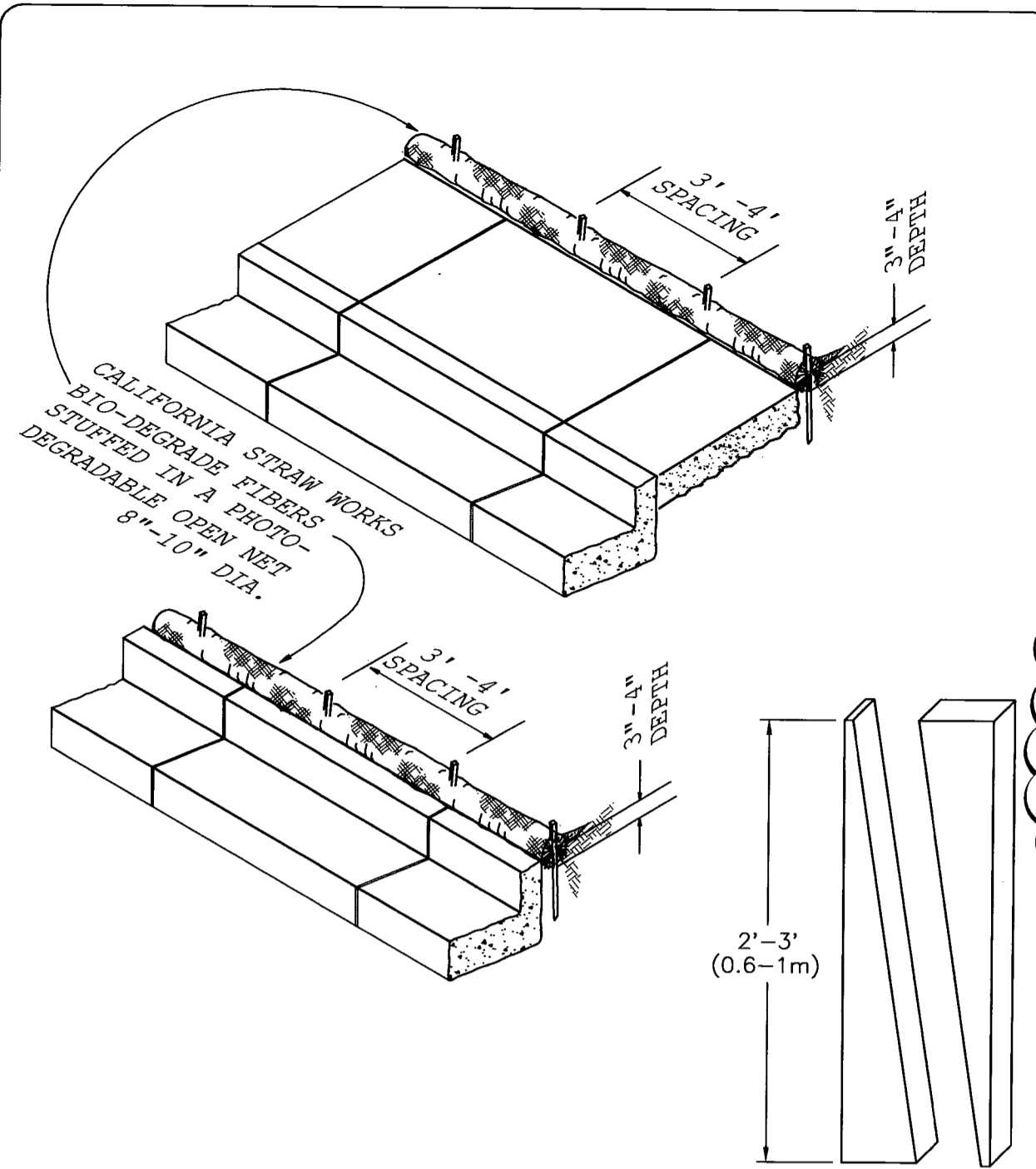
**ELEMENT IV-B
BORING LOCATIONS**
SCALE 1"=500'

RECORD DRAWING

THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.

James F. Templeton Jr. 4/28/11
 CIVIL ENGINEER
 No. 43061
 EXP. 3/31/12
 STATE OF CALIFORNIA

RCE #43061
 EXPIRES: MARCH 31, 2012



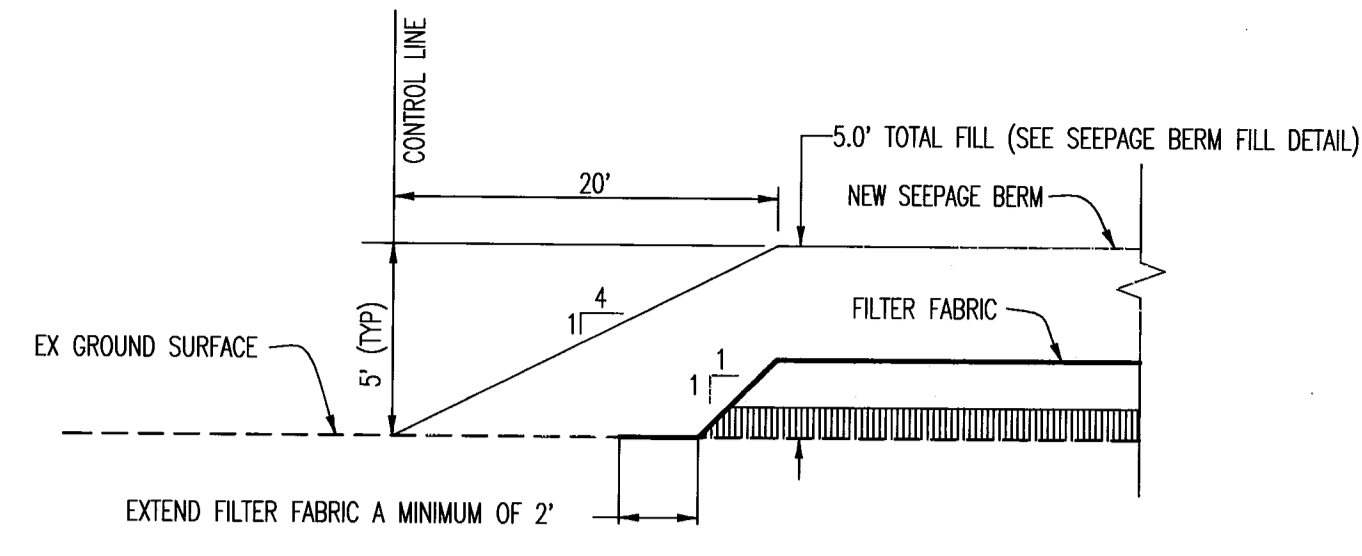
- NOTES:
- REPAIR OR REPLACE SPLIT, TORN, UNRAVELING OR SLUMPING FIBER ROLLS.
 - INSPECT FIBER ROLLS WHEN RAIN IS FORECAST, FOLLOWING RAIN EVENTS AND AT LEAST DAILY DURING PROLONGED RAINFALL. PERFORM REQUIRED MAINTENANCE.
 - IN MOST CASES, FIBER ROLLS DO NOT REQUIRE REMOVAL AND CAN BE ABANDONED IN PLACE. IF NOT EXCESSIVELY SOILED, ROLLS MAY BE REPLACED AND REUSED.

TYPICAL CONSTRUCTION STAKE
SAW 2X4 (100X50mm) LUMBER
ON DIAGONAL

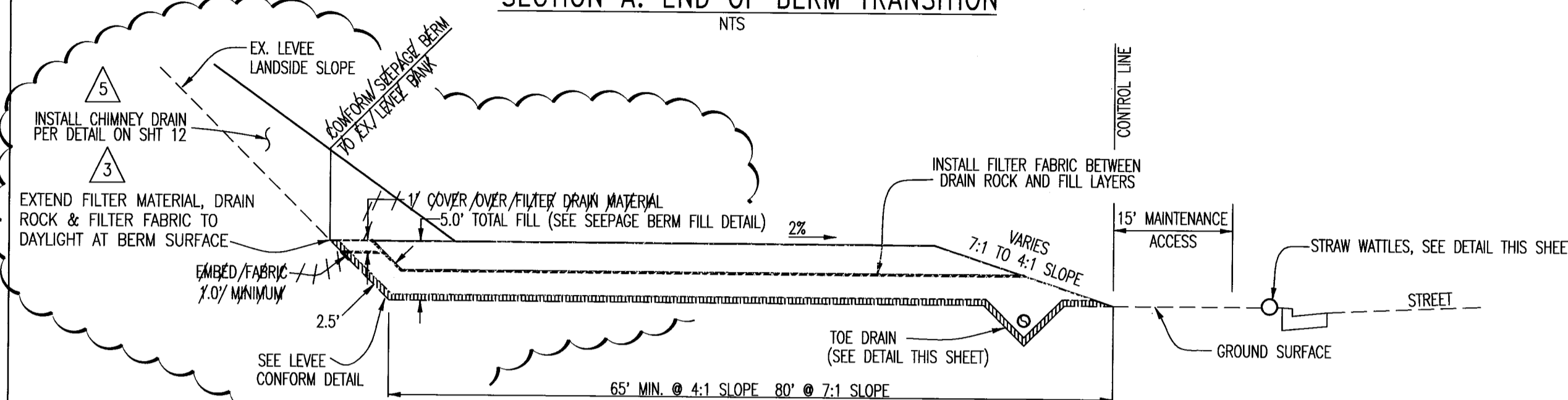
NOT TO SCALE

**WATTLES ALONG
C/G & SIDEWALK**

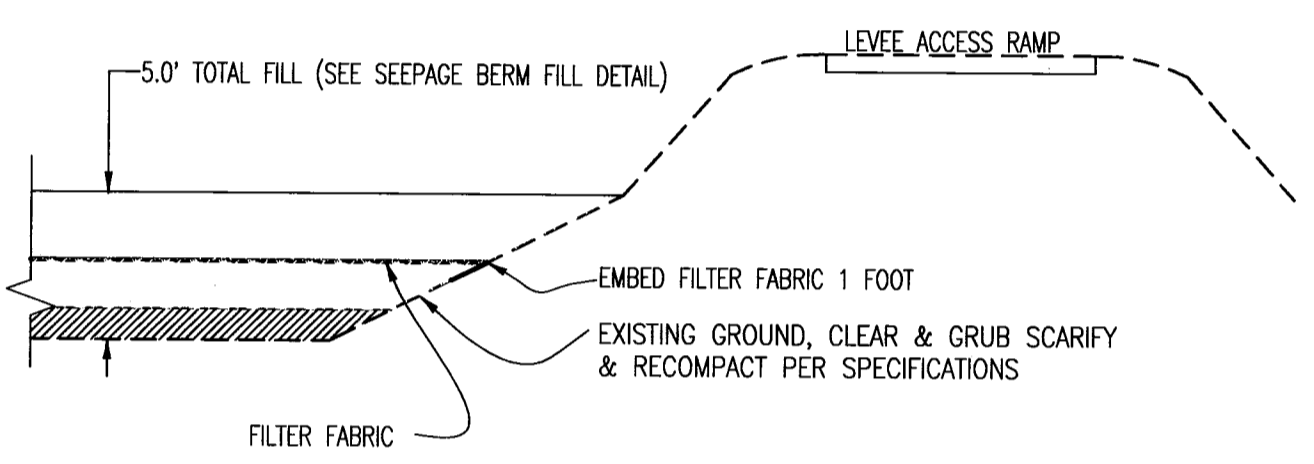
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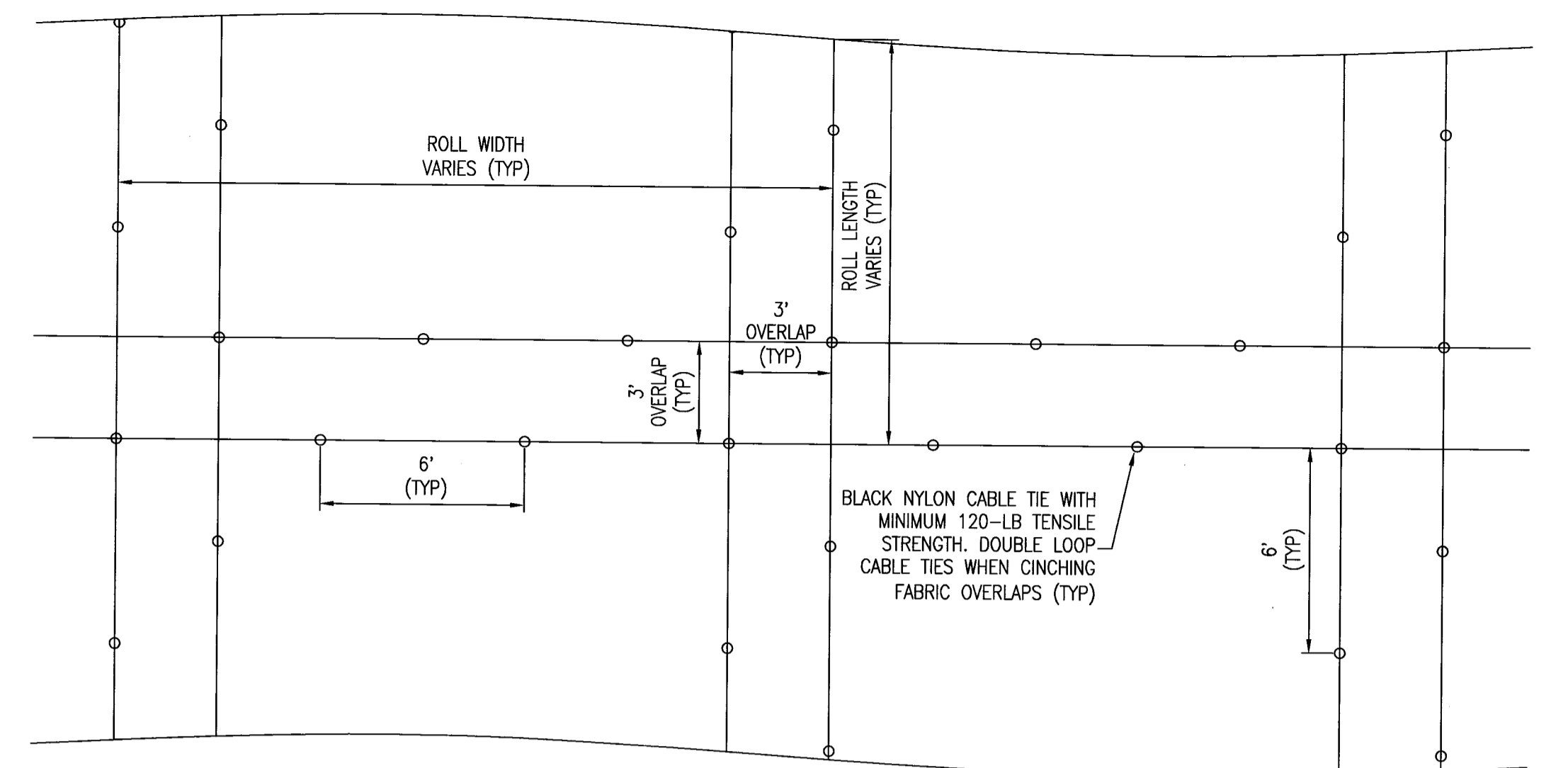
SECTION A: END OF BERM TRANSITION
NTS



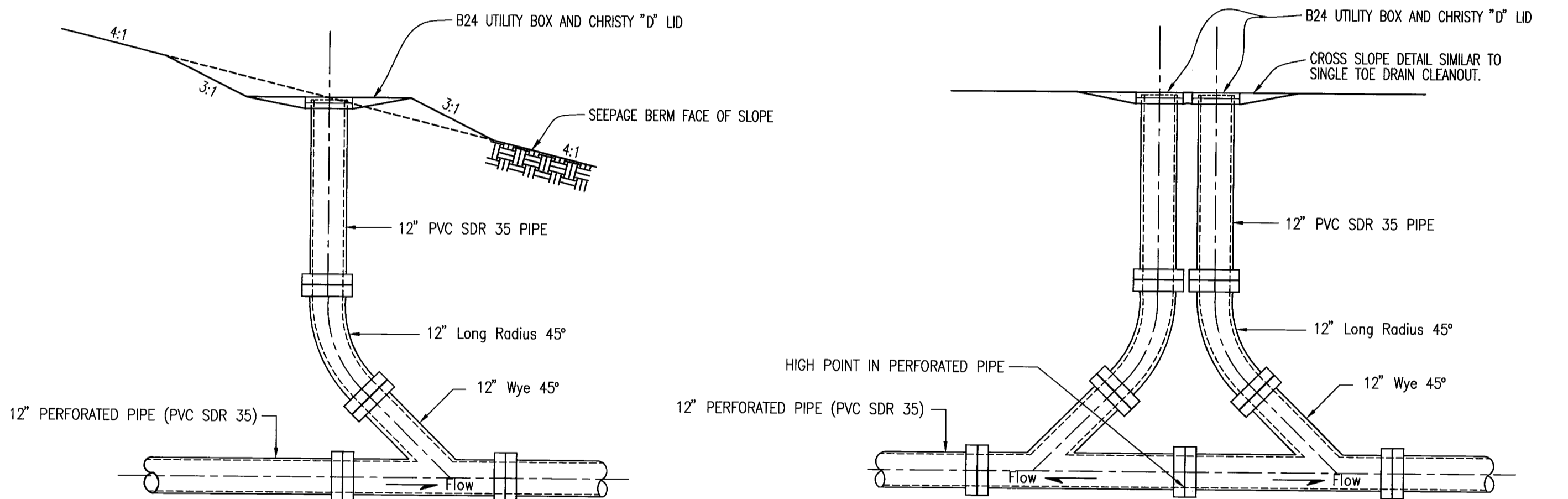
SECTION B: TYPICAL SEEPAGE BERM
NTS



SECTION C: END OF BERM TRANSITION AT LEVEE ACCESS RD
NTS

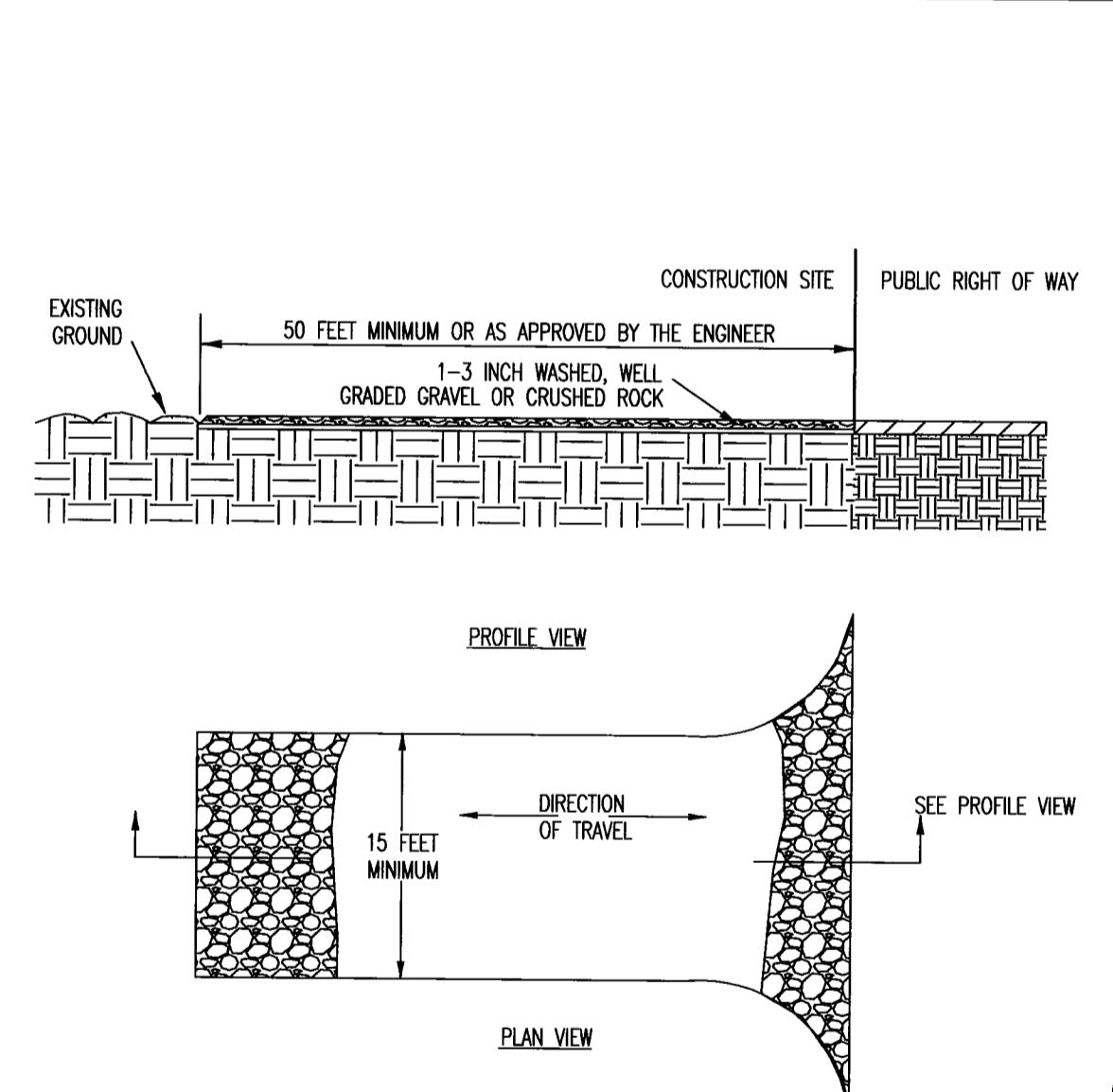


TYPICAL MIRAFI FW700 OVERLAP INSTALLATION DETAIL
NTS



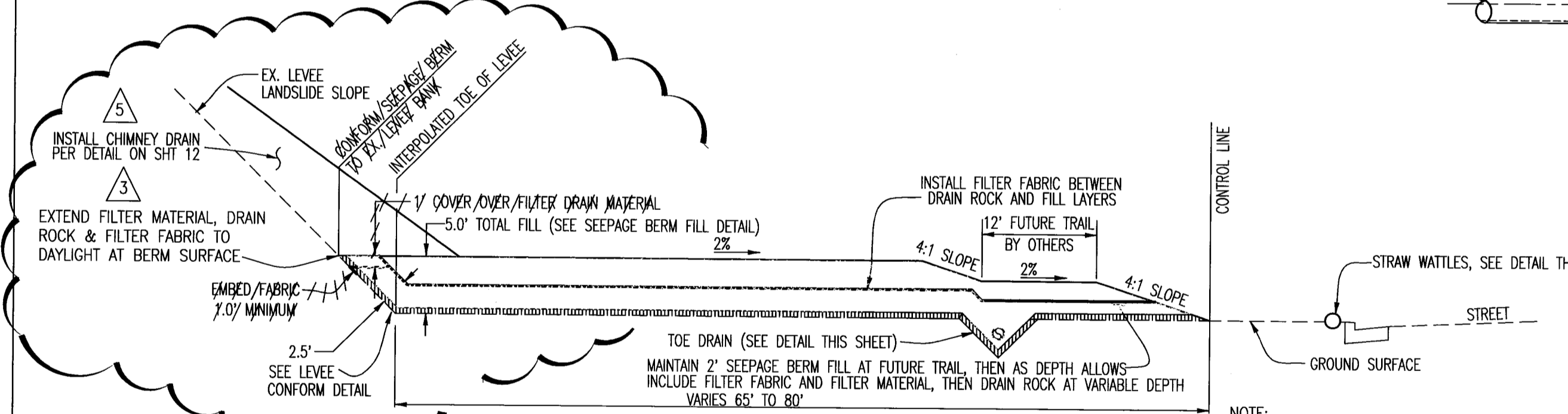
TOE DRAIN CLEANOUT
NTS

TOE DRAIN CLEANOUT (DOUBLE)
AT HIGH POINTS
NTS

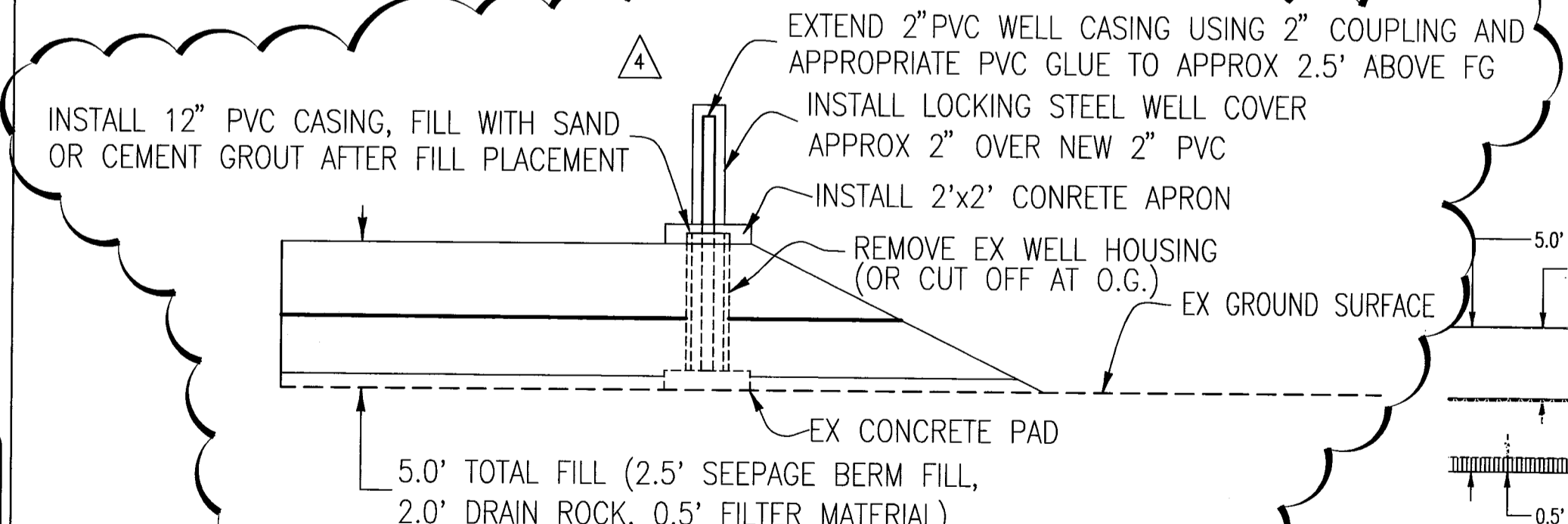


NOT TO SCALE

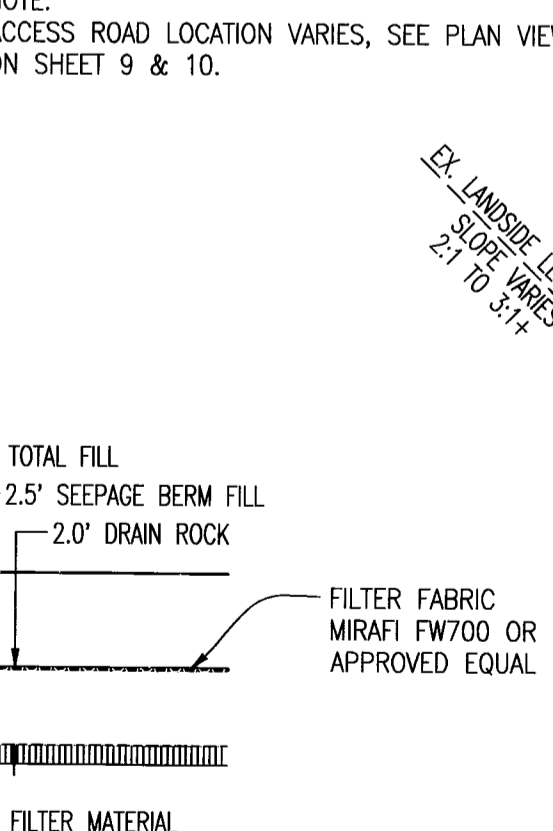
**STABILIZED
CONSTRUCTION
SITE ACCESS**



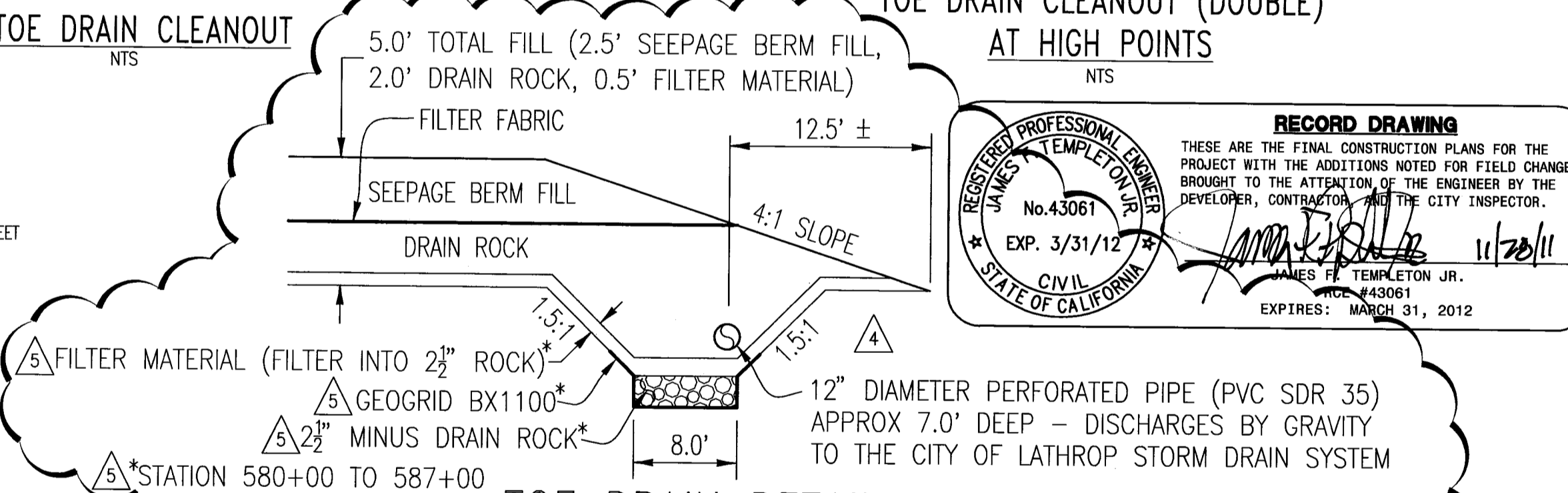
SECTION D: TRAIL/BERM CROSSING
NTS



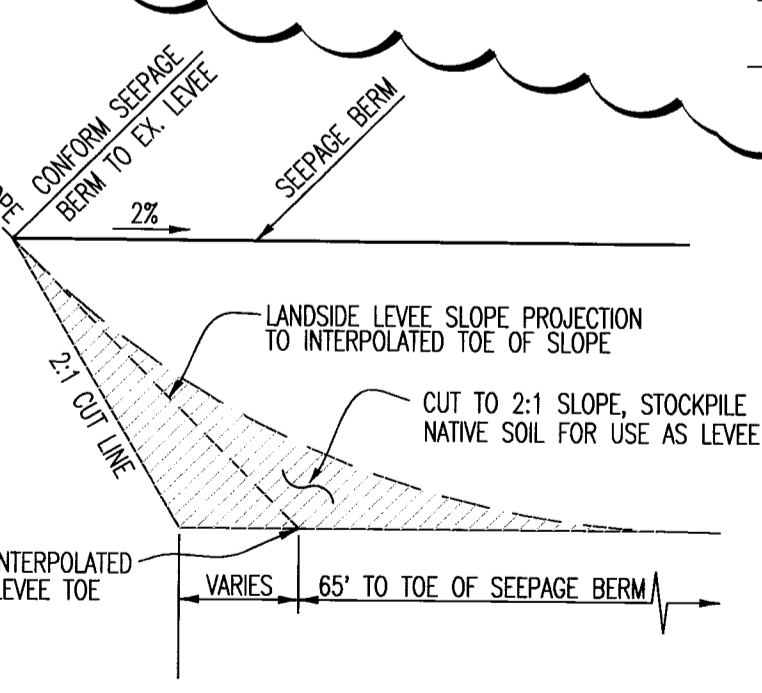
EXISTING WELL PROTECTION DETAIL
NTS



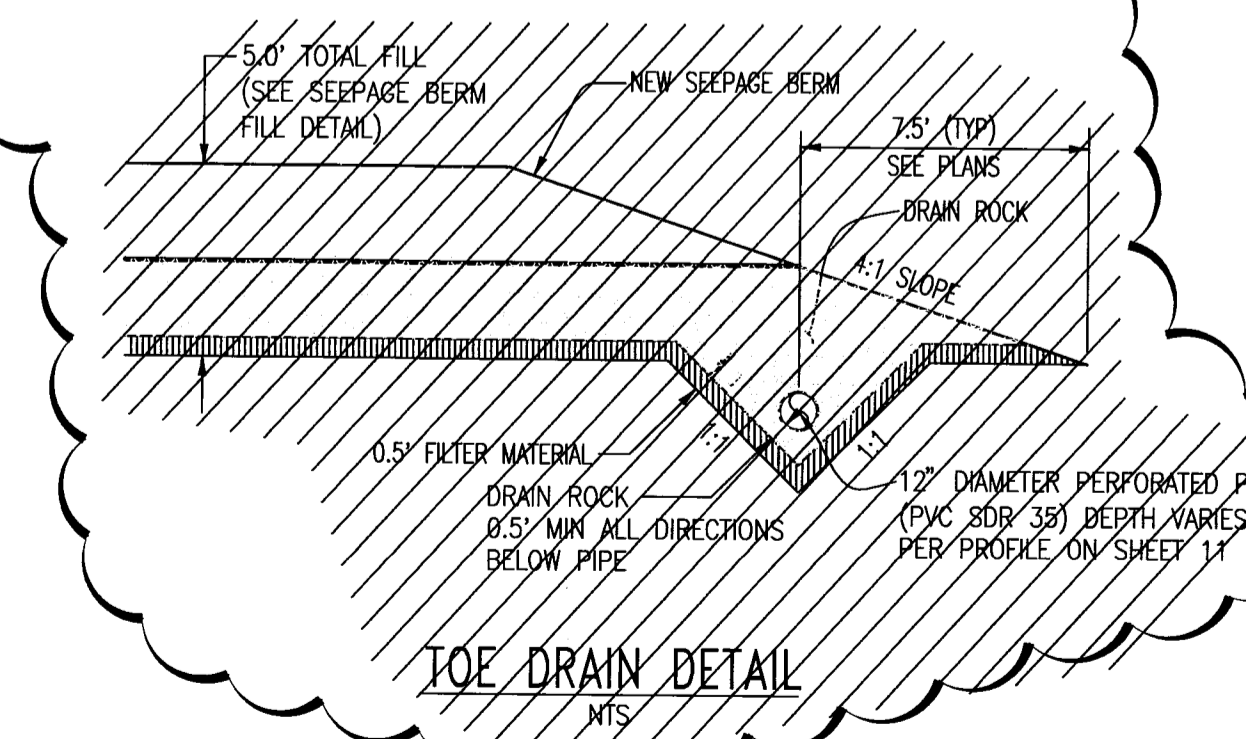
SEEPAGE BERM FILL DETAIL
NTS



TOE DRAIN DETAIL
NTS



LEVEE CONFORM DETAIL
NTS



TOE DRAIN DETAIL
NTS

RECORD DRAWING

THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.

JAMES F. TEMPLETON JR.
REGISTERED PROFESSIONAL ENGINEER
No. 43061
EXP. 3/31/12
CIVIL
STATE OF CALIFORNIA

EXPIRES: MARCH 31, 2012

PLANS REVIEWED AND APPROVED BY:

K S N
KJELSDEN SINNOCK NEUDECK
INC. Consulting Engineers and Land Surveyors

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E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17 MOSSDALE TRACT ELEMENT IV-B DATED MARCH 27, 2009

ENGEO
INCORPORATED
EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

MACKAY & SOMPS
ENGINEERS PLANNERS SURVEYORS
5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690

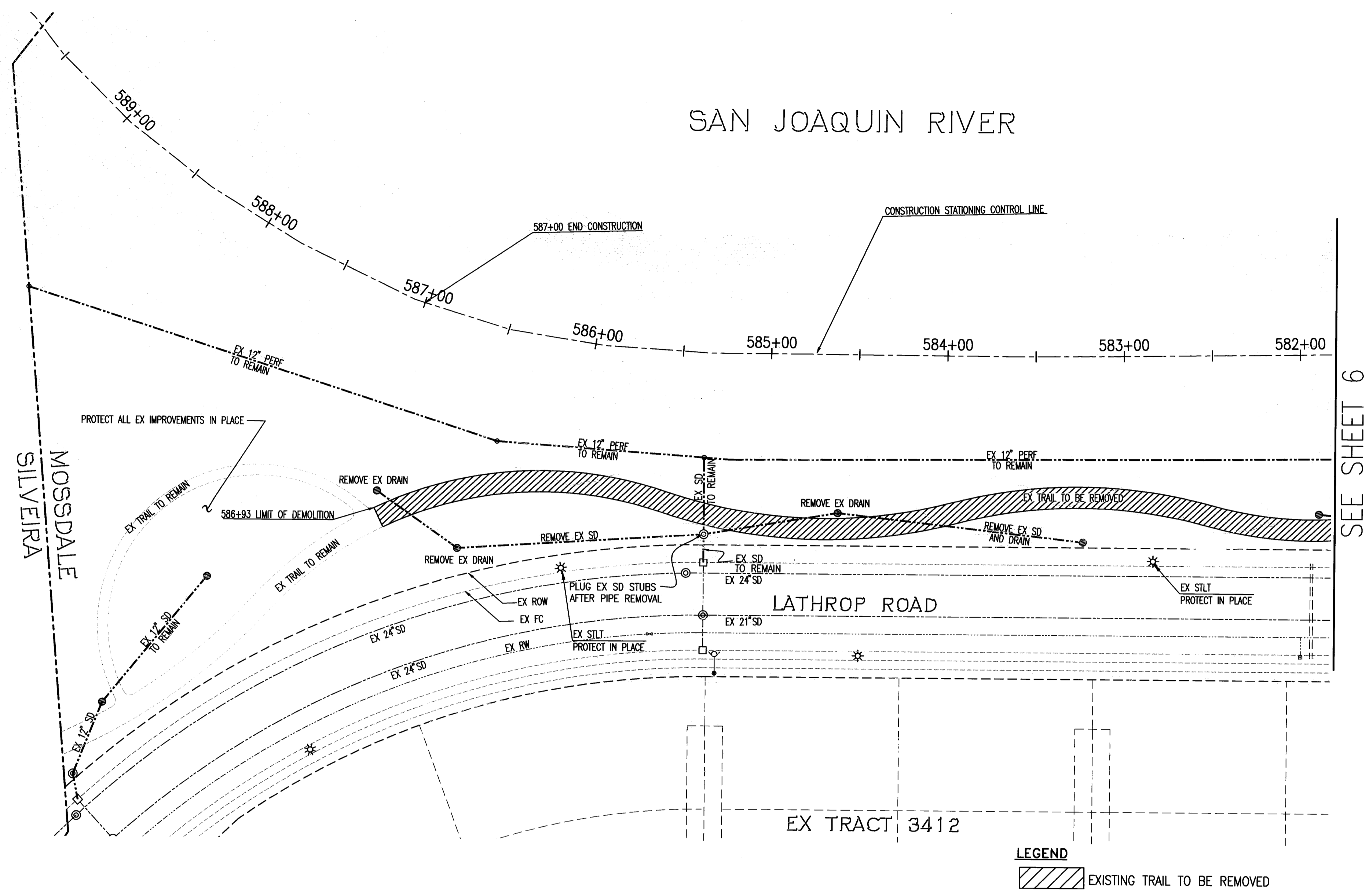
**RECLAMATION DISTRICT NO. 17
ELEMENT IV-B
TYPICAL SECTIONS AND DETAILS**

SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE
6	RECORD DRAWINGS (NAVB88)	11/15/11
5	ADD 2-1/2\"/>	

DATE: JULY 2009
SCALE: NOT TO SCALE
DRAWN BY: EUN
DESIGNED BY: CWG
CHECKED BY: JSL

PROJECT NO.: 25126.03
SHT: 4
OF: 14

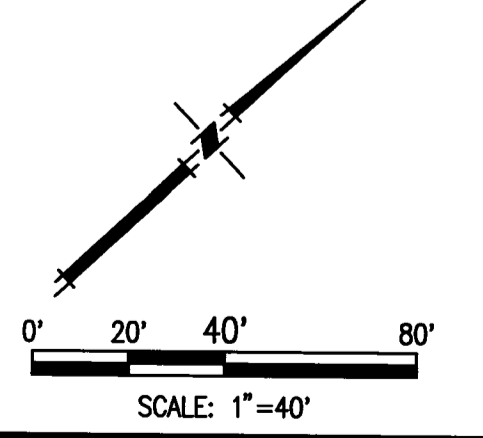


LEGEND
 EXISTING TRAIL TO BE REMOVED

NOTES:
 TREE REMOVAL SHALL COMPLETED IN ADVANCE OF THE SEEPAGE BERM CONSTRUCTION AND SHALL INCLUDE THE REMOVAL OF STUMPS AND ROOTS GREATER THAN 1/2 INCH IN DIAMETER.

WARNING • CAUTION
 EXISTING UNDERGROUND UTILITIES
 CONTACT : UNDERGROUND SERVICE ALERT
 PHONE: (800) 642-2444
 FOR MARKING PRIOR TO DIGGING

RECORD DRAWING
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR AND THE CITY INSPECTOR.
 No. 43061
 EXP. 3/31/12
 CIVIL ENGINEER
 STATE OF CALIFORNIA
 JAMES F. TEMPLETON JR.
 RCE #43061
 EXPIRES: MARCH 31, 2012



TOPOLOGY SOURCE: LIDAR TOPO-SUMMER 2008

PLANS REVIEWED AND APPROVED BY:

K S N
KJELDSSEN SINNOCK NEUDECK
 INC. Consulting Engineers and Land Surveyors
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 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
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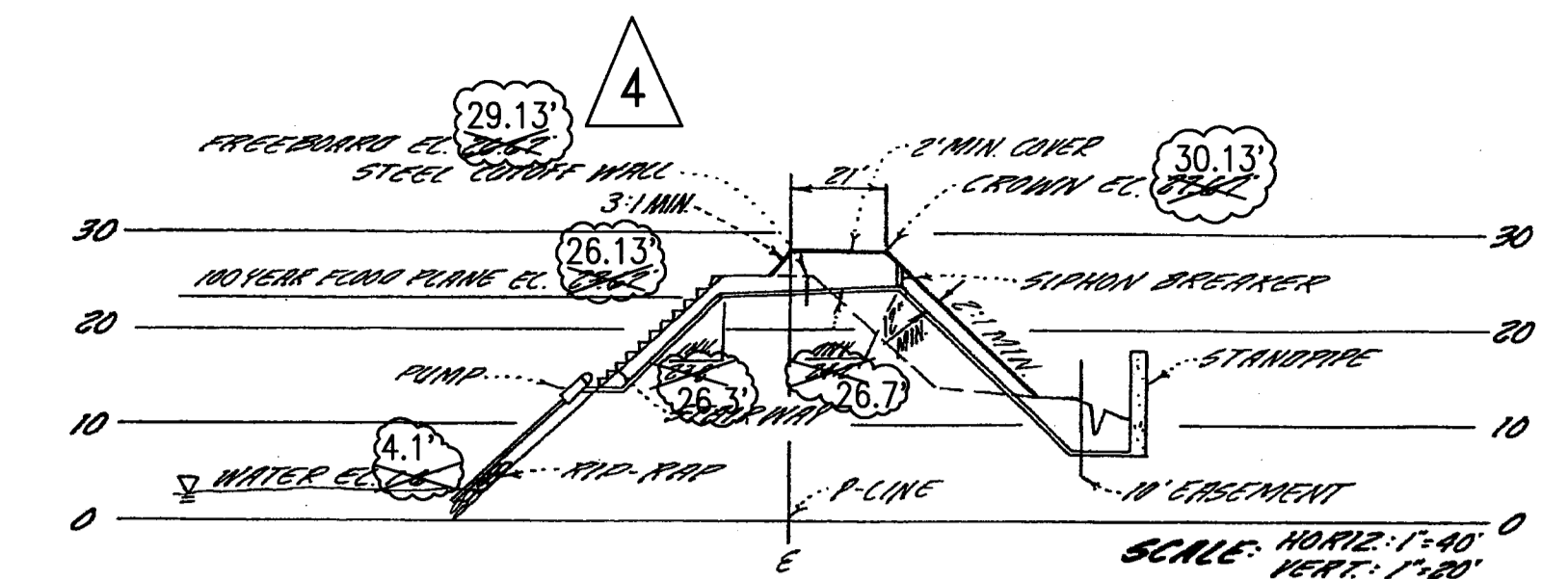
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RECLAMATION DISTRICT NO. 17
 ELEMENT IV-B
 DEMOLITION PLAN - CIVIL
 SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE
4	RECORD DRAWINGS (NAVD88)	11/15/11
3	ADD THRU-SEEPAGE PLANS SHTS 12-14	4/16/10
2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

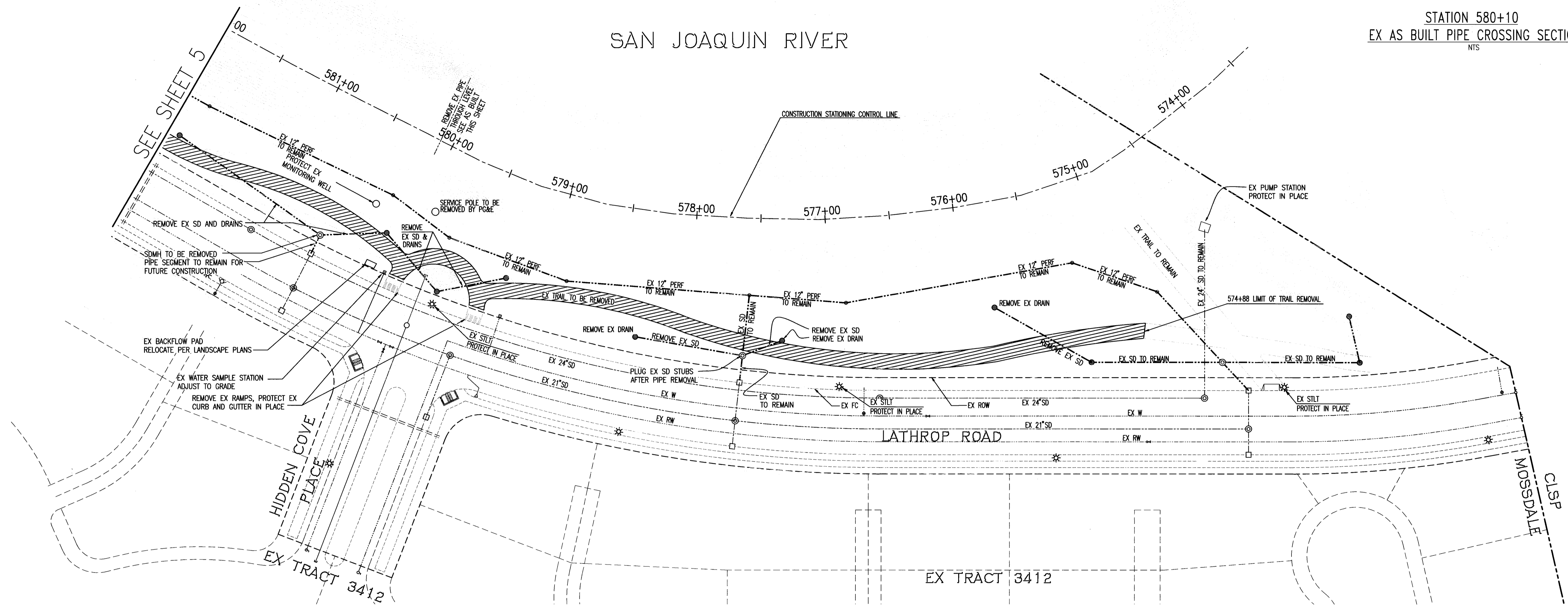
DATE: JULY 2009
 SCALE: 1"=40'
 DRAWN BY: E.J.N.
 DESIGNED BY: CWG
 CHECKED BY: JSL

PROJECT NO. 25126.03
 SHT 5 OF 14



STATION 580+10
EX AS BUILT PIPE CROSSING SECTION
NTS

SAN JOAQUIN RIVER



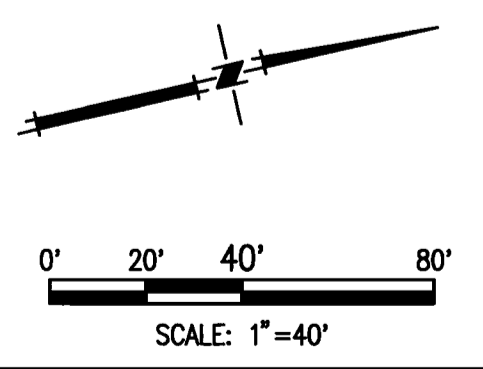
LEGEND
 EXISTING TRAIL TO BE REMOVED

NOTES:
 TREE REMOVAL SHALL COMPLETED IN ADVANCE OF THE SEEPAGE BERM CONSTRUCTION AND SHALL INCLUDE THE REMOVAL OF STUMPS AND ROOTS GREATER THAN 1/2 INCH IN DIAMETER.

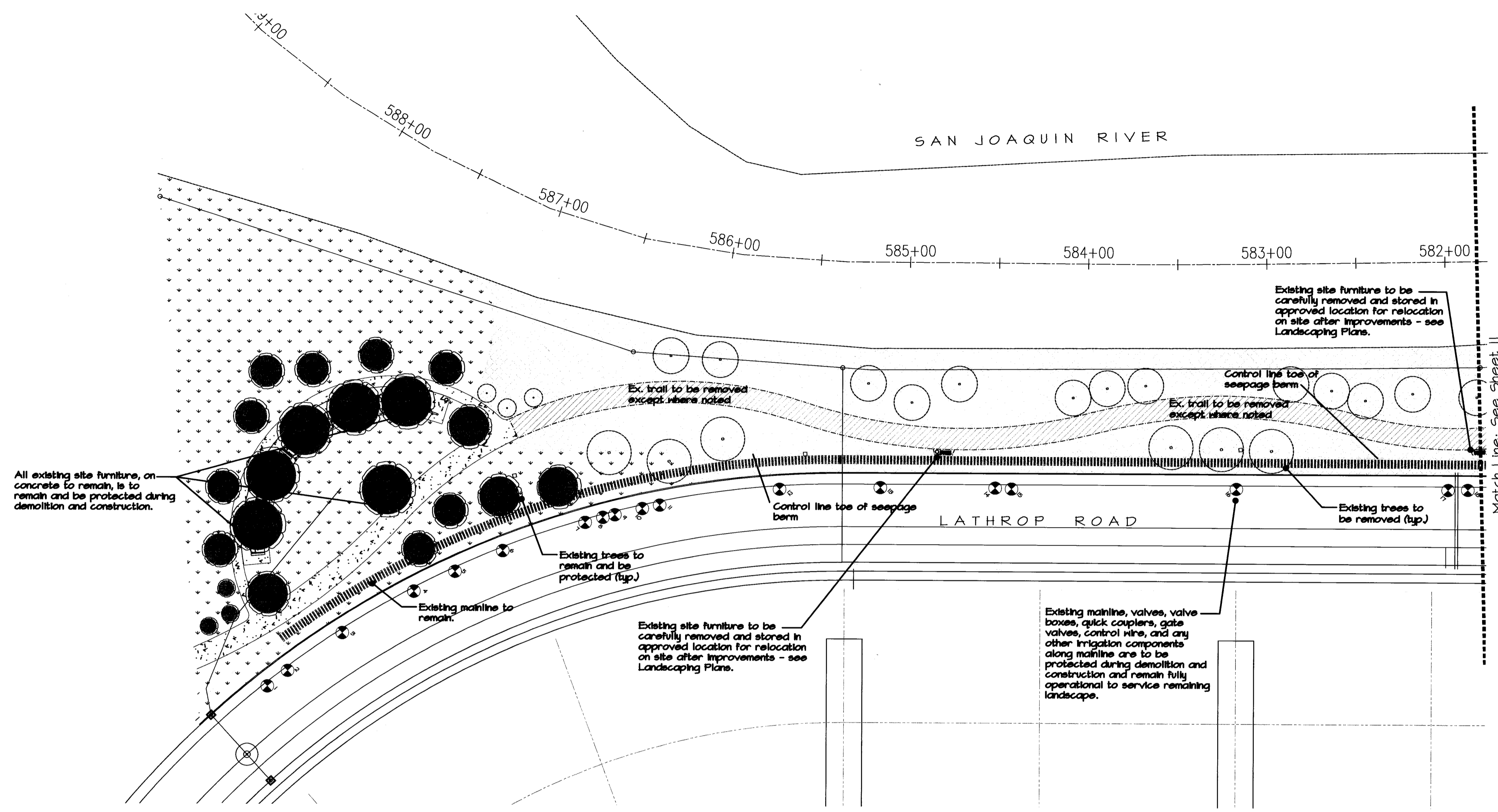
WARNING • CAUTION
 EXISTING UNDERGROUND UTILITIES
 CONTACT - UNDERGROUND SERVICE ALERT
 PHONE: (800) 642-2444
 FOR MARKING PRIOR TO DIGGING

REGISTERED PROFESSIONAL ENGINEER
 JAMES F. TEMPLETON JR.
 No. 43061
 EXP. 3/31/12
 CIVIL
 STATE OF CALIFORNIA

RECORD DRAWING
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 JAMES F. TEMPLETON JR.
 RBE #43061
 EXPIRES: MARCH 31, 2012



TOPOLOGY SOURCE: LIDAR TOPO-SUMMER 2008



Abbreviation List

ADA	American with Disabilities Act
CJ	Control Joint
CMU	Concrete masonry unit
CYRD	Cubic yard
EJ	Expansion Joint
EQ	Equal
FT	Foot (Feet)
GAL	Gallon
GPM	Gallons per minute
IN	Inch
LB	Pound
MAX	Maximum
MIN	Minimum
NCH	No Common Name
OC	On Center
PSI	Pounds per square inch
R	Radius
SCH	Schedule
SF	Square feet
TYP	Typical
VIF	Verify in field
WWM	Welded wire mesh

General Demolition Notes

1. Call USA before any demolition. Protect any encountered utilities during demolition and construction unless designated for removal.
2. Remove specified vegetation and irrigation as described. See Demolition Legend.
3. Contractor to keep existing irrigation system in operation for existing-to-remain turf throughout demolition and construction.
4. Unless otherwise noted on the drawings, all materials indicated to be removed and disposed of shall become the property of the contractor. Disposal of such material shall become the responsibility of the contractor and shall be made outside of the project site in an approved location. All costs associated with material removal shall be paid for by the contractor.
5. Demolition shown in diagrammatic and general. Perform all demolition as required for the construction of the project including all items in the way of new work whether or not specifically shown. Contact Landscape Architect for any items in question.
6. Demolition contractor shall field verify the location of all pressurized irrigation mainline, valves, flow meter, gate valves, quick couplers, backflow preventer, water meter, control wires, and irrigation controller. All of these items are to be protected in place. Should any be damaged the contractor shall notify the City Parks Maintenance Department and repair the damage under the supervision of and to the satisfaction of the City. Should any of the irrigation components be required to be relocated for demolition, the contractor shall notify the Landscape Architect and City prior to relocation.

Note: Review all existing site conditions. Alert Owner and/or Land Arch of any discrepancies or required clarifications prior to commencing demolition.

Demolition Legend

	Tree to remain and be protected. See General Tree Protection During Construction.		Completely remove all trees, turf, shrubs, groundcovers, grasses and any plant material not designated to remain. Remove all main root systems. Contact Landscape Architect for any plants in question. Completely remove all existing irrigation components from the valves to the end of each circuit including laterals, heads, and emitters. Do not abandon any irrigation components in their existing location. Do not remove any valves, mainline, or control wires. Dispose of all material in approved location. Contractor to pay any fees associated with the disposal. Existing mainline, valves, valve boxes, quick couplers, gate valves, control wire, and any other irrigation components along mainline are to be protected during demolition and construction and remain fully operational to service remaining Landscape areas.
	Tree to be completely removed. Grind stump below final finish grade and remove main root system. Dispose of material in approved location. Contractor to pay any fees associated with the disposal.		Existing turf to remain and be protected during construction. Maintain existing irrigation in fully operational order. Damaged turf and/or irrigation shall be repaired in the landscape installation phase.
	Existing path to be demolished. Dispose of material in approved offsite location.		Existing path and site concrete to remain and be protected during demolition and construction. Repair any damage that occurs during demolition or construction.
	Irrigation Mainline to remain		

General Tree Protection During Construction

1. All trees that are shown on the demolition plan specifically shown not to be removed are to remain on site and to be cared for throughout the construction process in accordance with the following notes. If there is a question as to whether a tree is to remain or be removed, ask the landscape architect or owner prior to removal. The contractor will be required to replace any trees that are removed or die due to negligence or not specifically following these notes.
2. Protect root zones of trees during demolition and construction. Do not store items on the soil within the drip line of the trees. (Construction equipment and storage causes soil compaction which can kill the trees.)
3. Utility lines and all associated trenching are to be laid-out to avoid conflict and cutting of the existing tree roots.
4. Any damage inadvertently caused to the trees such as broken branches, etc. is to be reviewed immediately by a certified arborist. The recommendations made by the arborist are to be carried out immediately to the satisfaction of the owner.
5. It is the responsibility of the General Contractor to ensure the health of all existing trees. Trees damaged or killed during construction are to be replaced at a size large enough to the satisfaction of the owner.



www.klaia.com

151 N. Herbin St., Stockton, CA 95210
(209)532-2656 (209)532-8616 fax

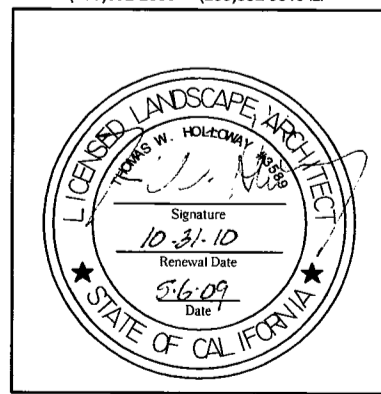
RECORD DRAWING
THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.

JAMES F. TEMPLETON JR.
REG. #43061
CIVIL
STATE OF CALIFORNIA
EXP. 3/31/12



REVISION

NO.	REVISION	DATE
4	RECORD DRAWINGS (NAVDB8)	11/15/11
3	ADD THRU-SEEPAGE PLANS SHTS 12-14	4/16/10
2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09



PLANS REVIEWED AND APPROVED BY:

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Consulting Engineers and Land Surveyors
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Faxes: (209) 946-0296
E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT DATED UNDER-SEEPAGE EVALUATION, RD. NO. 17 MOSSDALE TRACT ELEMENT IV-4 DATED MARCH 23, 2009

ENGEO INCORPORATED
EXCELLENT SERVICE SINCE 1971
5/5/09

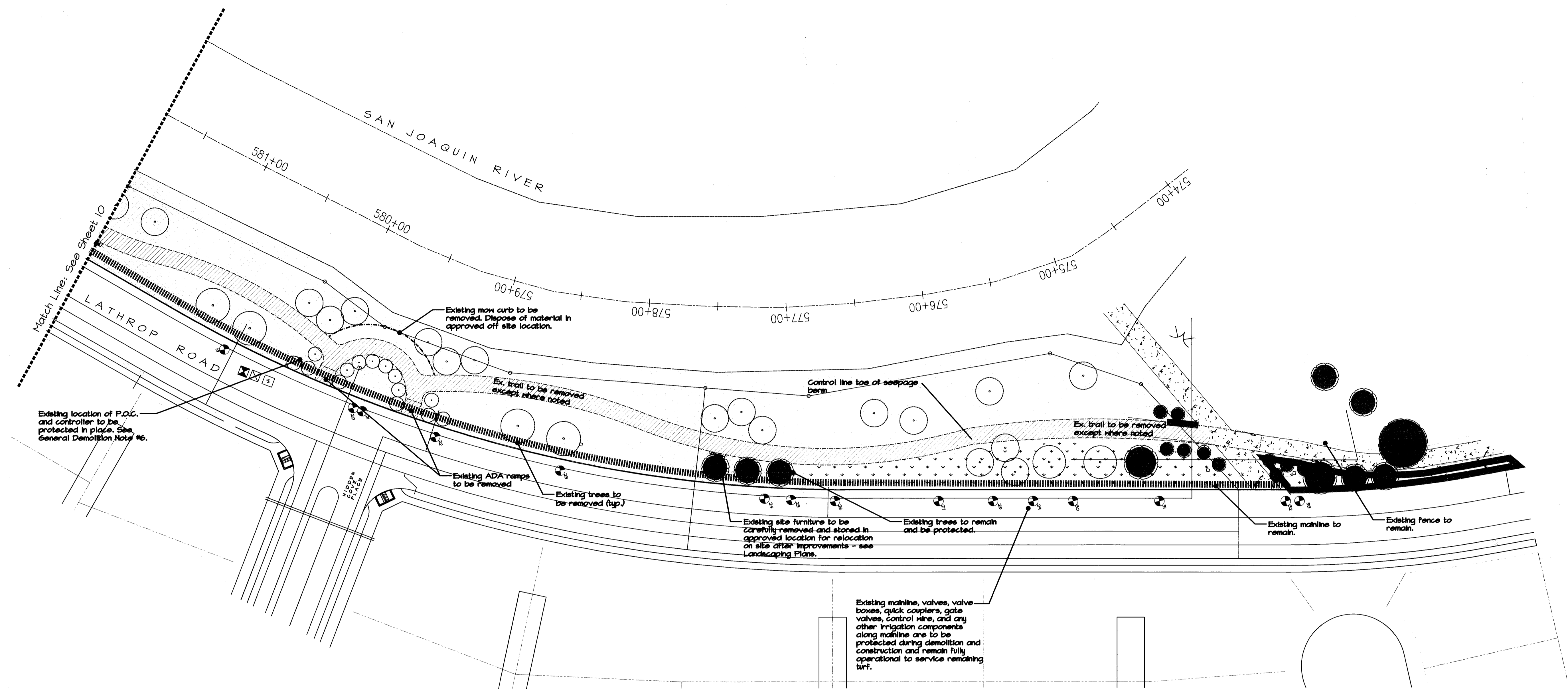
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RECLAMATION DISTRICT NO. 17
ELEMENT IV-B
LANDSCAPE DEMOLITION EXHIBIT
SAN JOAQUIN COUNTY CALIFORNIA

DATE:	APRIL 2009
SCALE:	
DRAWN BY:	VLW
DESIGNED BY:	
CHECKED BY:	TWH
DATE:	

PROJECT NO.	1315
SHT	7
OF	14



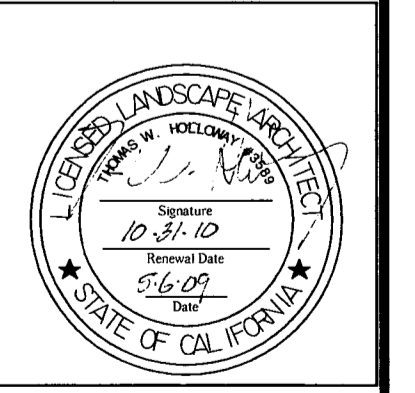
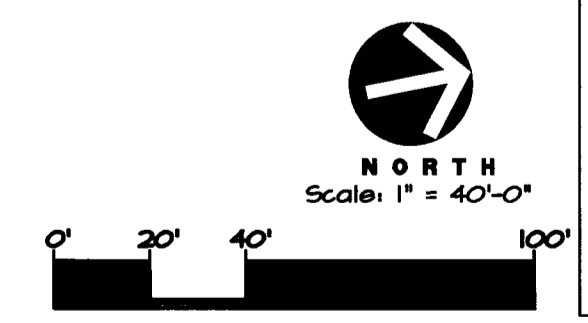
Demolition Legend

- Tree to remain and be protected. See General Tree Protection During Construction.
- Tree to be completely removed. Grind stump below final finish grade and remove main root system. Dispose of material in approved location. Contractor to pay any fees associated with the disposal.
- Completely remove all trees, turf, shrubs, groundcovers, grasses and any plant material not designated to remain. Remove all main root systems. Contact Landscape Architect for any plants in question. Completely remove all existing irrigation components from the valves to the end of each circuit including laterals, heads, and emitters. Do not abandon any irrigation components in their existing location. Do not remove any valves, mainline, or control wires. Dispose of all material in approved location. Contractor to pay any fees associated with the disposal. Existing mainline, valves, valve boxes, quick couplers, gate valves, control wire, and any other irrigation components along mainline are to be protected during demolition and construction and remain fully operational to service remaining Landscape areas.
- Existing turf to remain and be protected during construction. Maintain existing irrigation in fully operational order. Damaged turf and/or irrigation shall be repaired in the landscape installation phase.
- Existing path to be demolished. Dispose of material in approved offsite location.
- Existing path and site concrete to remain and be protected during demolition and construction. Repair any damage that occurs during demolition or construction.
- Irrigation Mainline to remain

Note:
For General Demolition and Tree Protection notes- See sheet 7.

REGISTERED PROFESSIONAL ENGINEER
 JAMES F. TEMPLETON JR.
 No. 43061
 EXP. 3/31/12
 CIVIL
 STATE OF CALIFORNIA

RECORD DRAWING
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.
 JAMES F. TEMPLETON JR.
 RCE #43061
 EXPIRES: MARCH 31, 2012



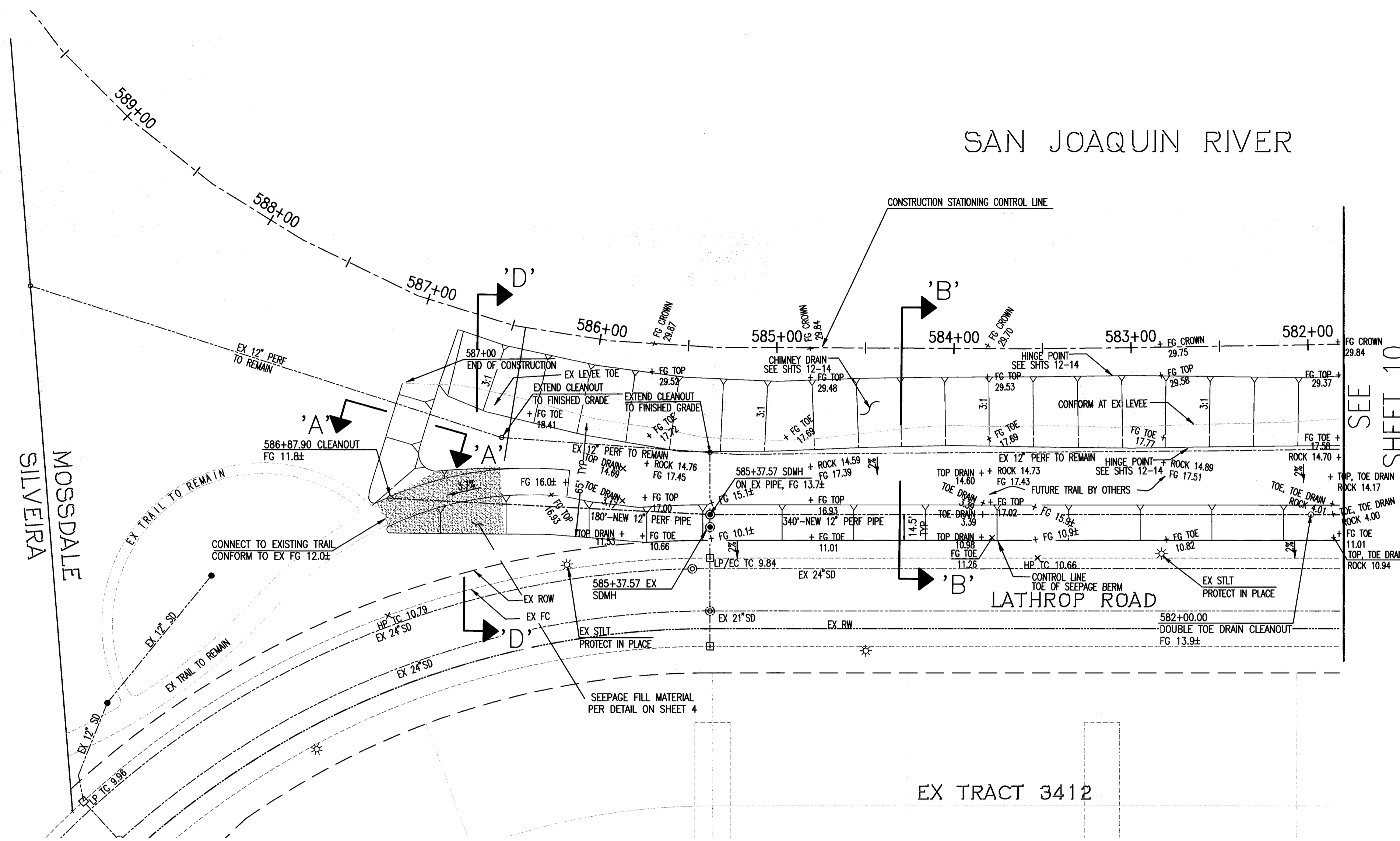
www.knoxla.com
 151 N. Norlin St., Sonoma, CA 95070
 (209)632-2858 (209)632-9510

PLANS REVIEWED AND APPROVED BY:

K S N KJELDSSEN SINNOCK NEUDECK INC.
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 Faxes: (209) 946-
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McKAY & SOMPS



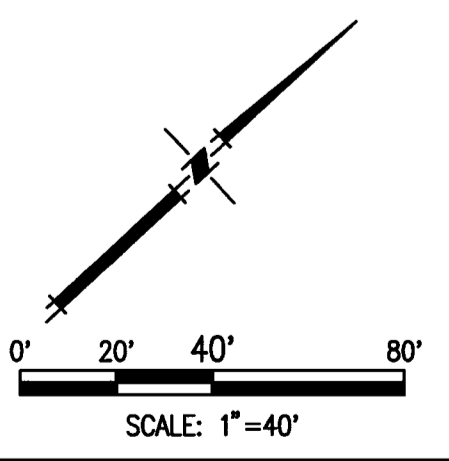
NOTE:
 FOR 12" PERFORATED PIPE, SEE TOE DRAIN
 DETAIL ON SHEET 4 AND TOE DRAIN PROFILE
 ON SHEET 11.

WARNING • CAUTION
 EXISTING UNDERGROUND UTILITIES
 CONTACT : UNDERGROUND SERVICE ALERT
 PHONE: (800) 642-2444
 FOR MARKING PRIOR TO DIGGING

REGISTERED PROFESSIONAL ENGINEER
JAMES F. TEMPLETON JR.
 No. 43061
 EXP. 3/31/12
 CIVIL
 STATE OF CALIFORNIA

RECORD DRAWING
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 BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE
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 JAMES F. TEMPLETON JR.
 RCE #43061
 EXPIRES: MARCH 31, 2012

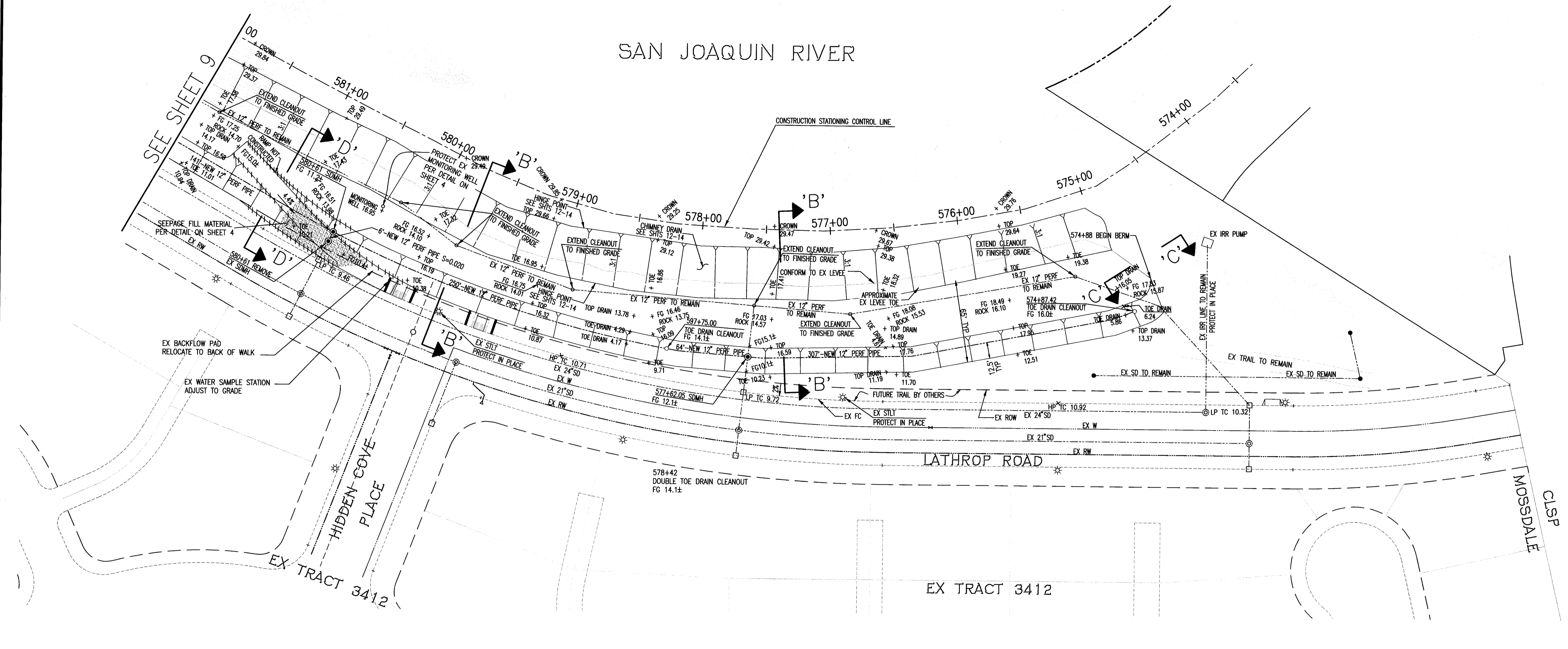
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TOPOLOGY SOURCE: LIDAR TOPO-SUMMER 2008

MACKAY & SOMPS

SAN JOAQUIN RIVER



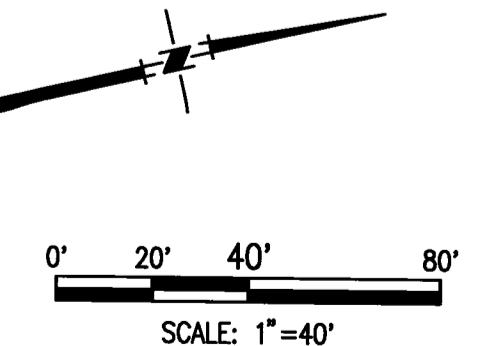
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NO. 43061
 EXP. 3/31/12
 CIVIL
 STATE OF CALIFORNIA

JAMES F. TEMPLETON JR.
 P.E. #428061
 11/20/11



PLANS REVIEWED AND APPROVED BY:

K S N
KJELDSSEN SINNOCK NEUDECK
 Consulting Engineers and Land Surveyors

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 711 N. Pershing Avenue
 Stockton, CA 95201-0844
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 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

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 ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE
 TRACT ELEMENT IV-B DATED MARCH 27, 2009

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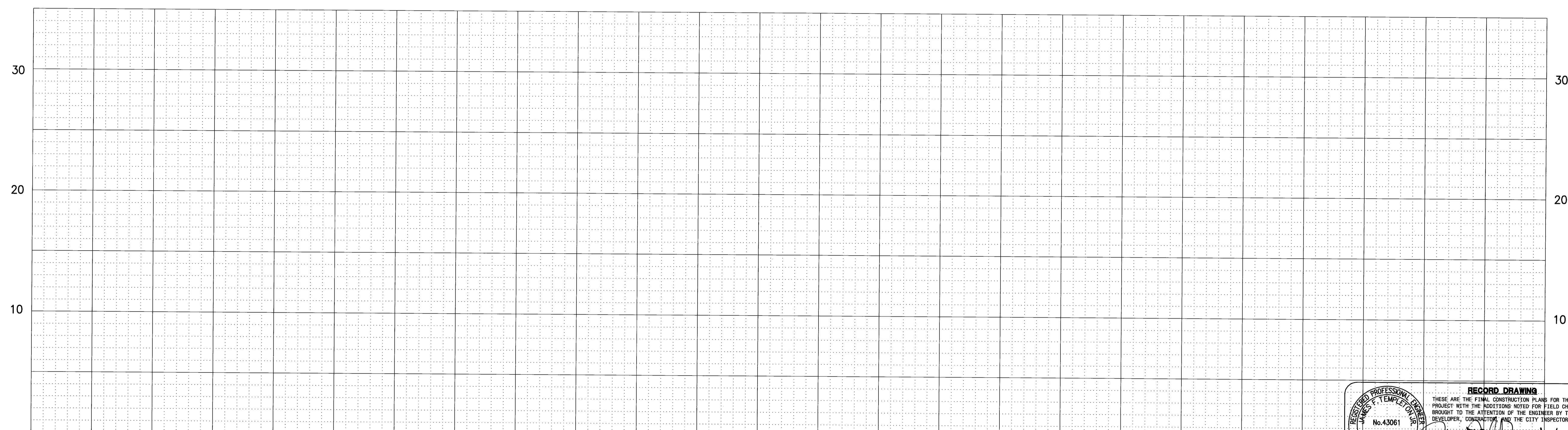
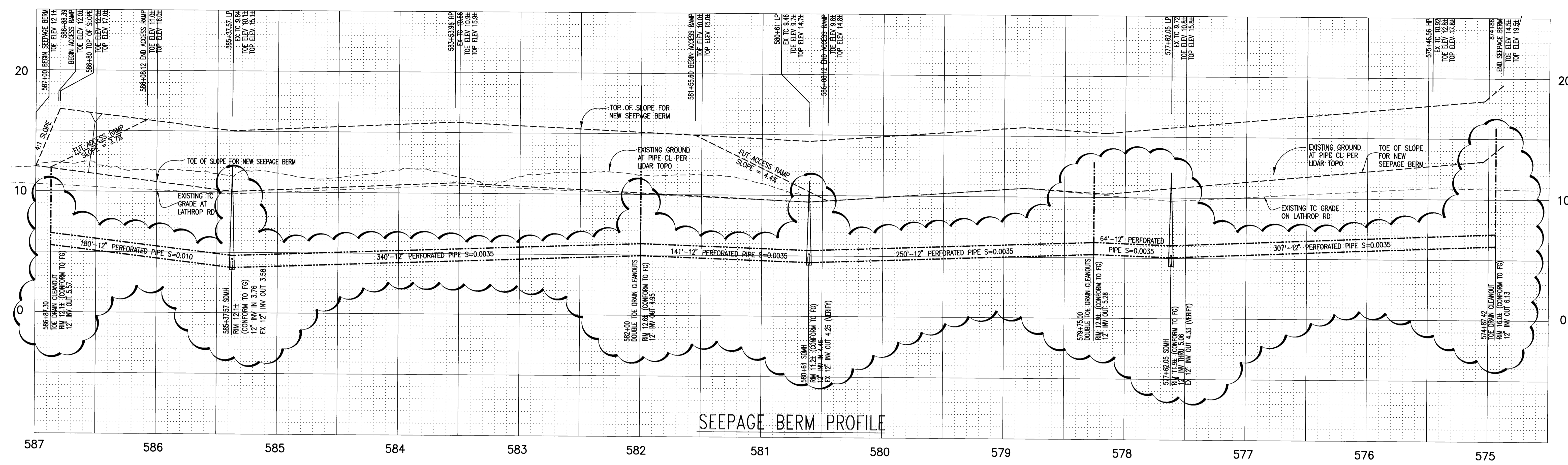
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RECLAMATION DISTRICT NO. 17
 ELEMENT IV-B
 SEEPAGE BERM PLAN VIEW

SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE	PROJECT NO.
4	RECORD DRAWINGS (NAVD88)	11/15/11	25126.03
3	ADD THRU-SEEPAGE PLANS SHTS 12-14	4/16/10	SHT
2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09	10a
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09	OF
			14

DATE: JULY 2009
 SCALE: 1"=40'
 DRAWN BY: EUN
 DESIGNED BY: CWG
 CHECKED BY: JSL



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 EXP. 3/31/12
 CIVIL ENGINEER
 STATE OF CALIFORNIA
 JAMES F. TEMPLETON JR.
 RCE #43061
 EXPIRES: MARCH 31, 2012

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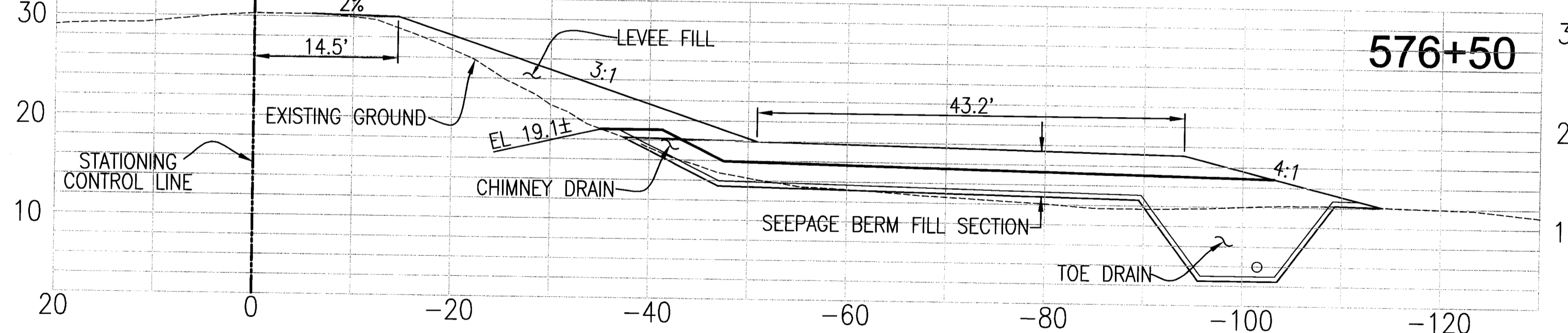
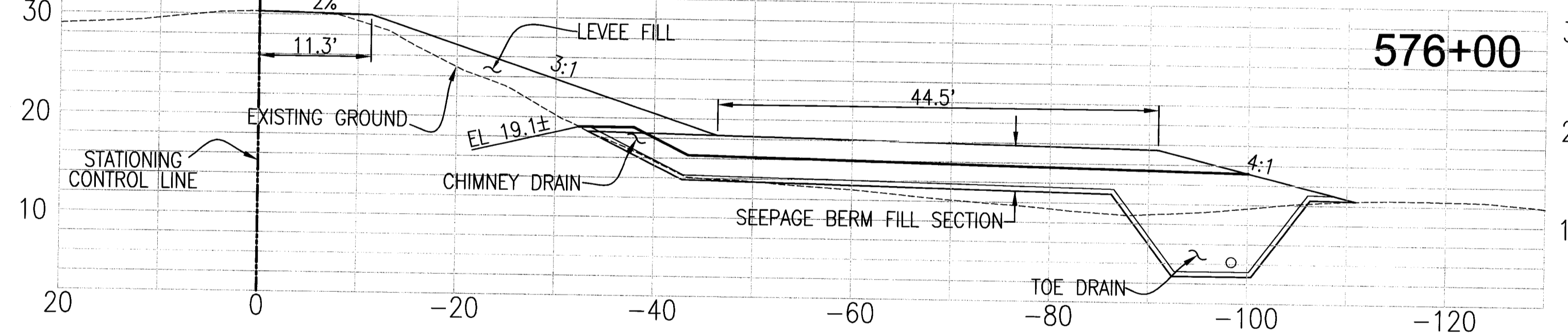
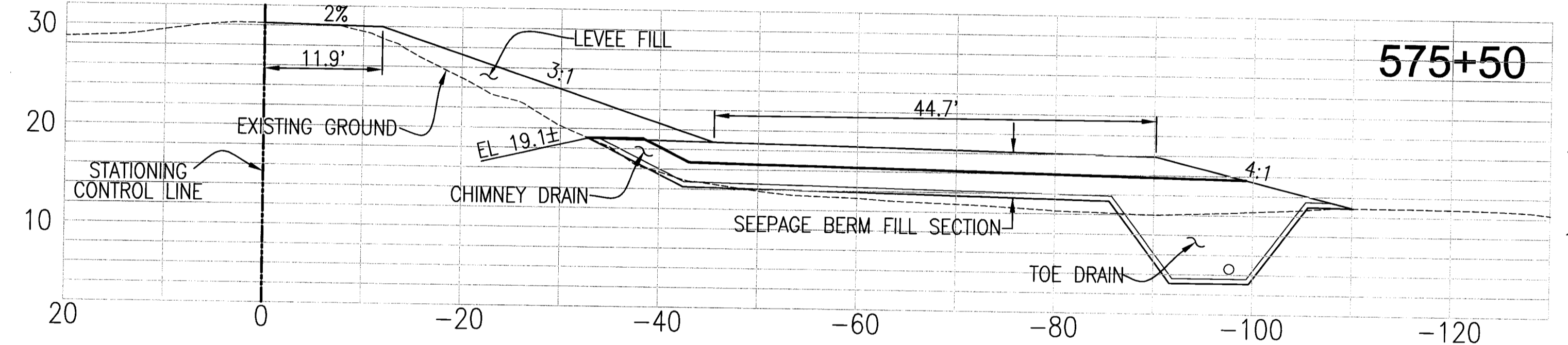
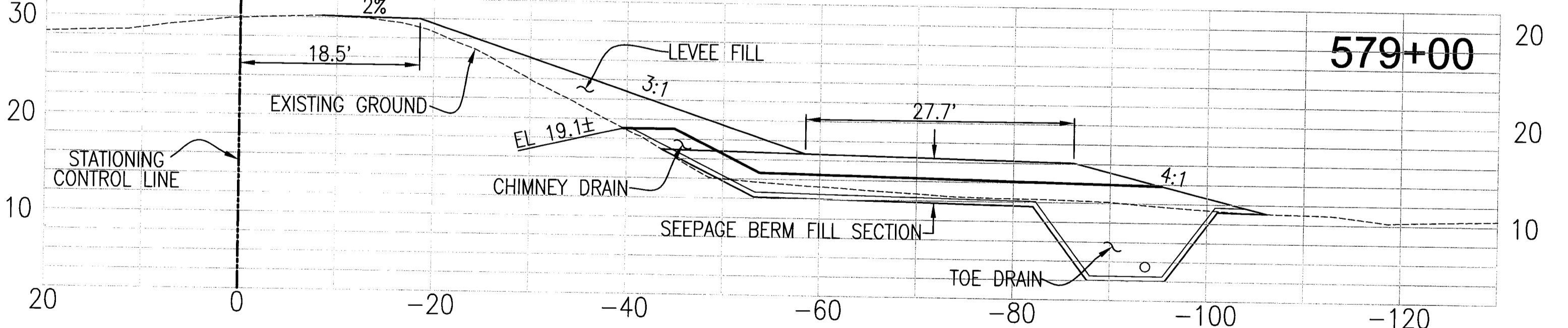
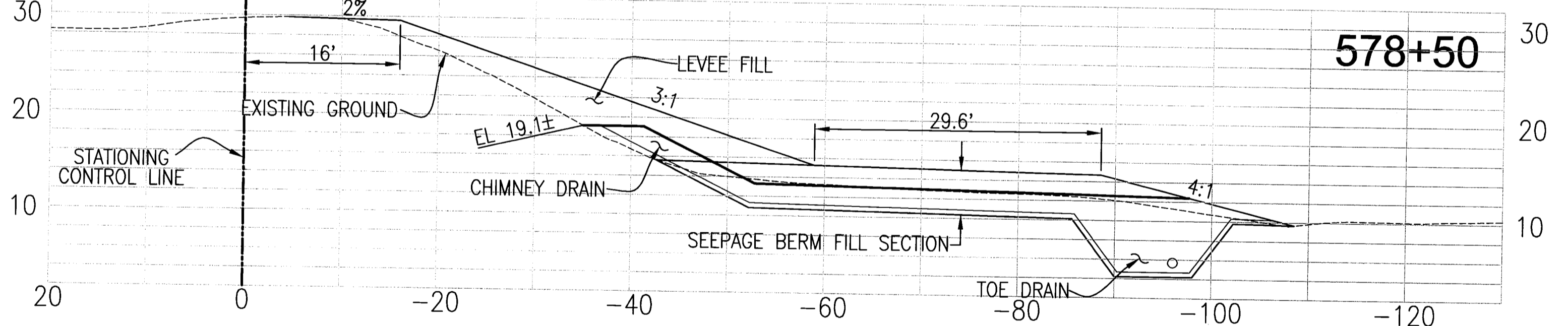
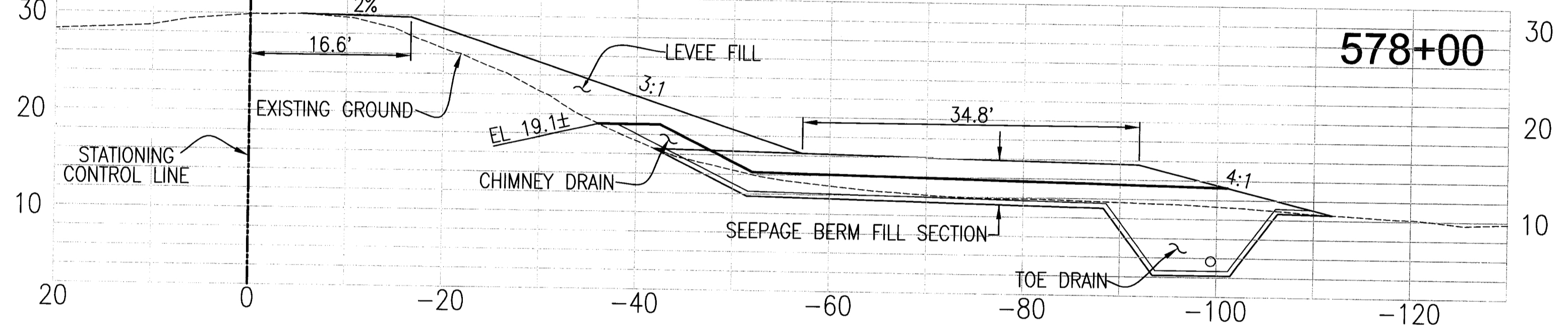
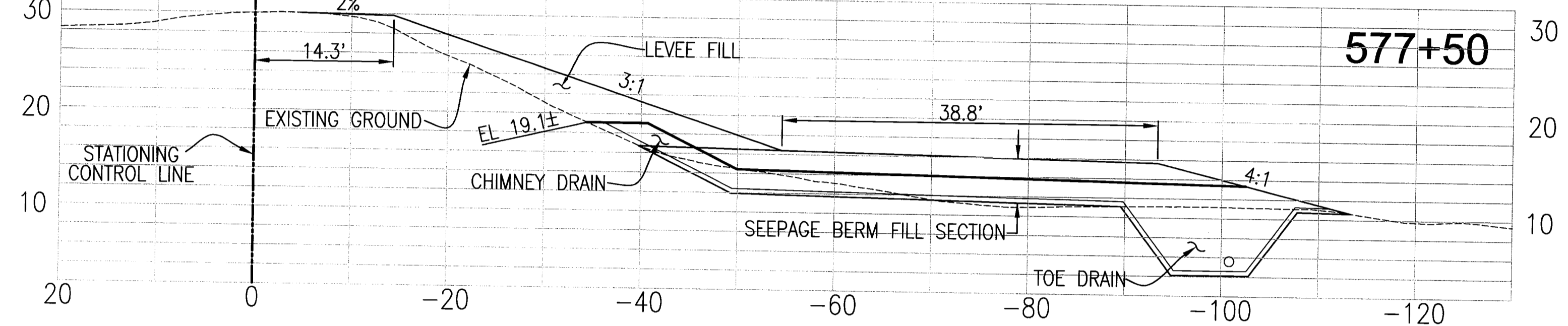
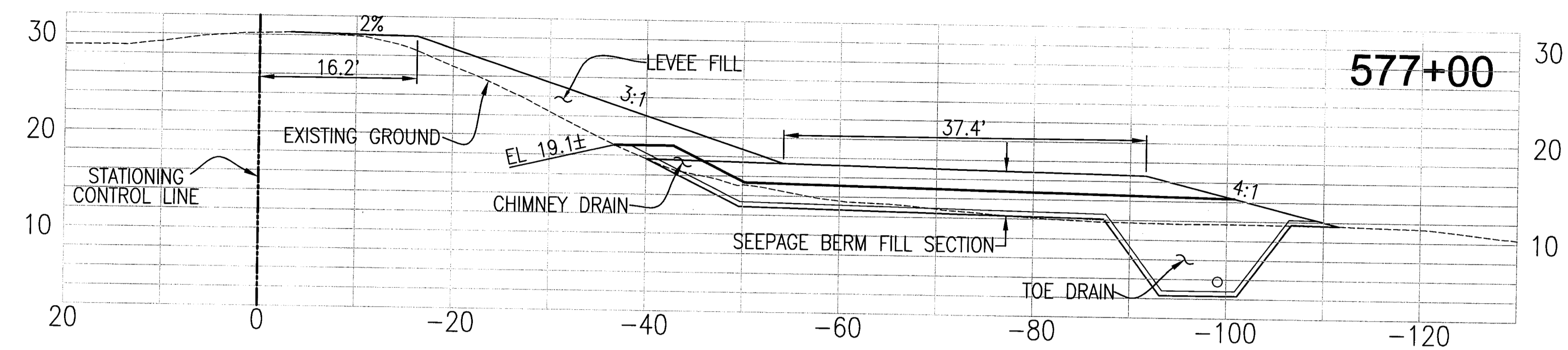
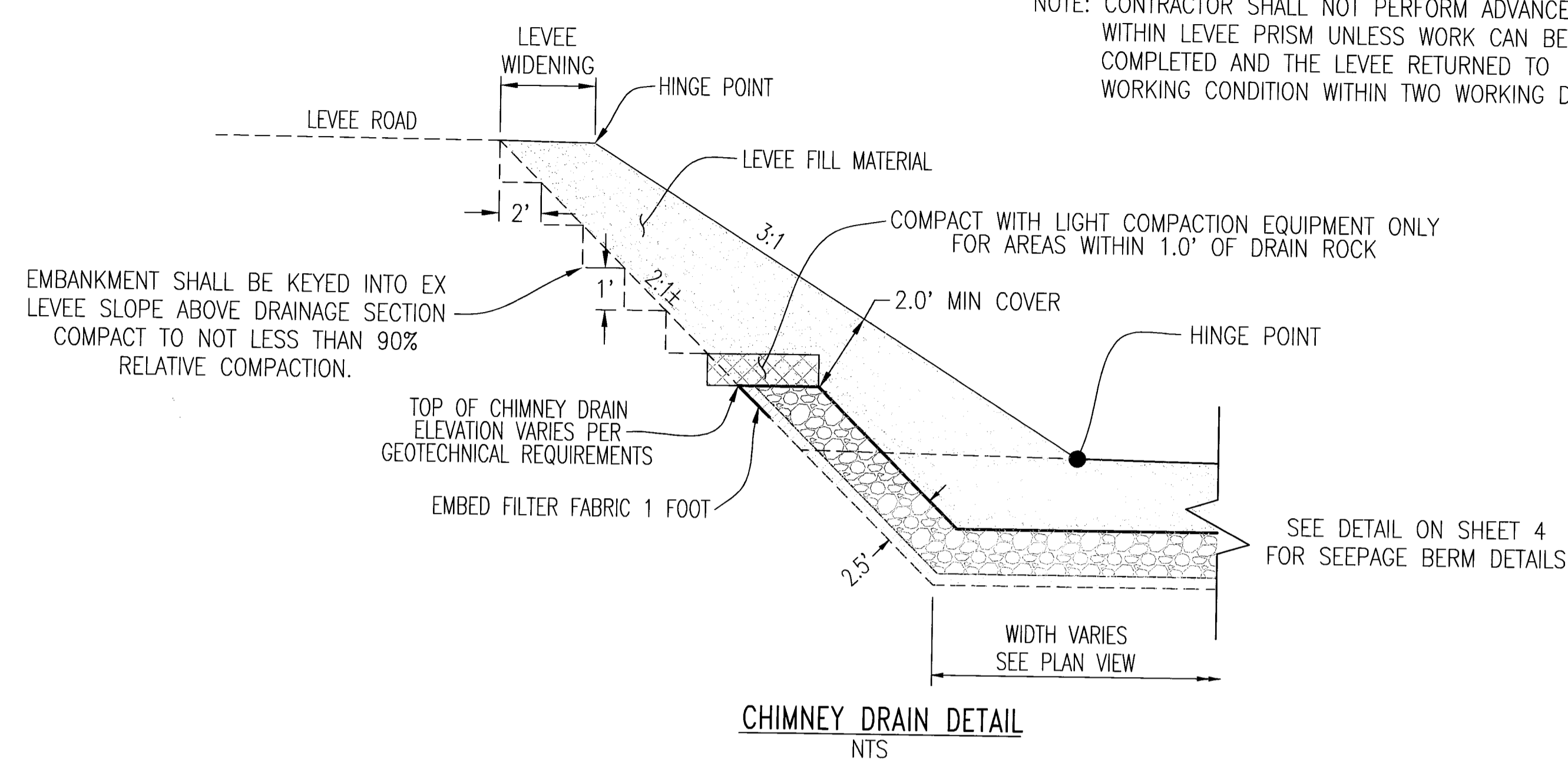
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ENGEO
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 5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690
 CIVIL ENGINEER
 STATE OF CALIFORNIA
 No. 41637
 EXP. 12/31/09
 5-5-09

RECLAMATION DISTRICT NO. 17
 ELEMENT IV-B
 SEEPAGE BERM PROFILE / SELECTED CROSS SECTIONS
 SAN JOAQUIN COUNTY CALIFORNIA

DATE: JULY 2009	PROJECT NO. 25126.03
SCALE:	SHT 11
DRAWN BY: EUN	OF 14
DESIGNED BY: CWG	
CHECKED BY: JSL	
NO.	REVISION
4	RECORD DRAWINGS (NAVD88)
3	ADD THRU-SEEPAGE PLANS SHTS 12-14
2	ISSUE CONSTRUCTION DOCUMENTS
1	REVISION TO ADDRESS PLAN CHECK COMMENTS
	DATE

NOTE: CONTRACTOR SHALL NOT PERFORM ADVANCE WORK WITHIN LEVEE PRISM UNLESS WORK CAN BE COMPLETED AND THE LEVEE RETURNED TO WORKING CONDITION WITHIN TWO WORKING DAYS.



RECORD DRAWING
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 EXP. 3/31/12
 CIVIL
 JAMES B. TEMPLETON JR.
 RCE #43061
 EXPIRES: MARCH 31, 2012

PLANS REVIEWED AND APPROVED BY:

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THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17 MOSSDALE TRACT ELEMENT IV-4B DATED MARCH 27, 2009

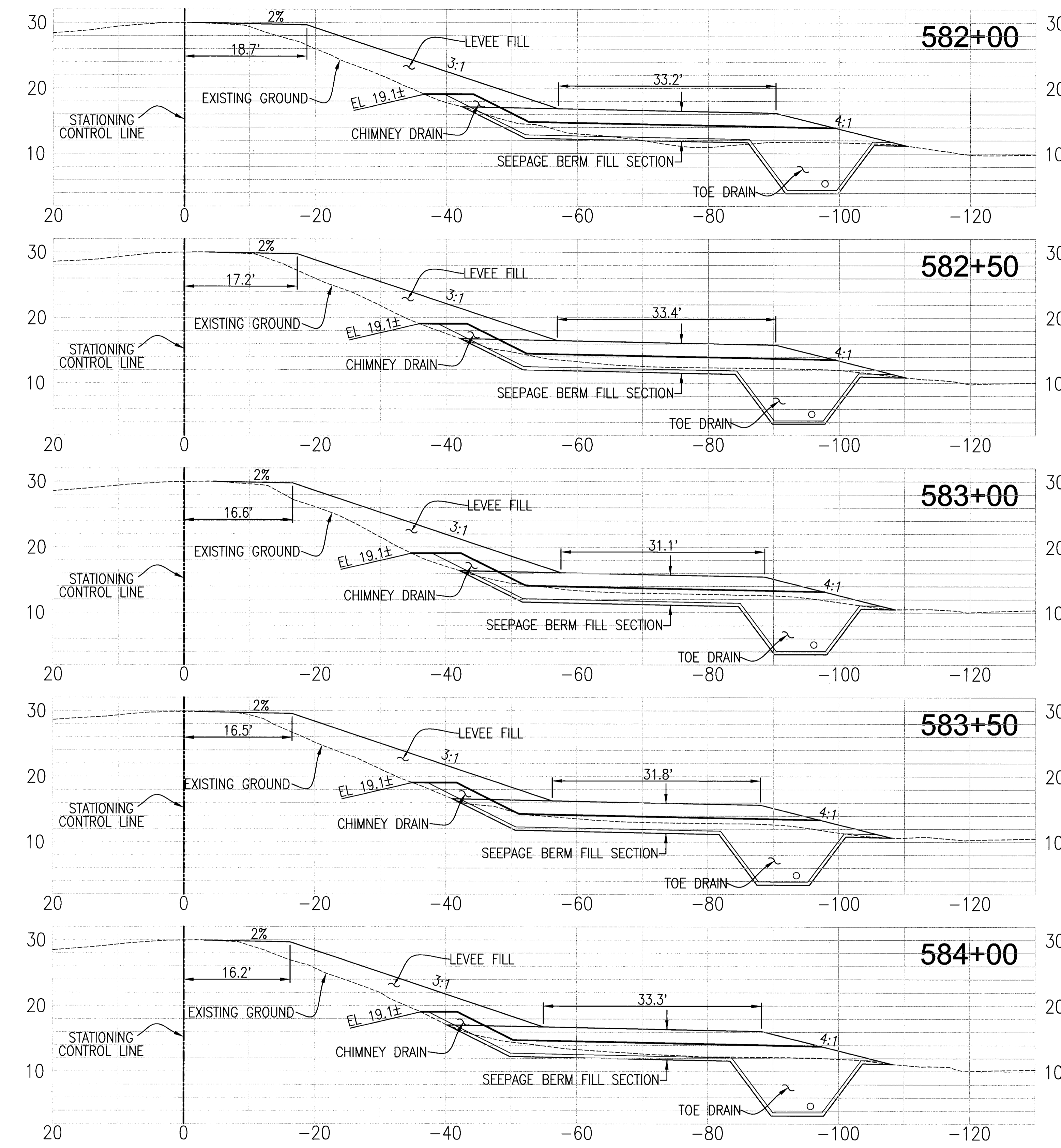
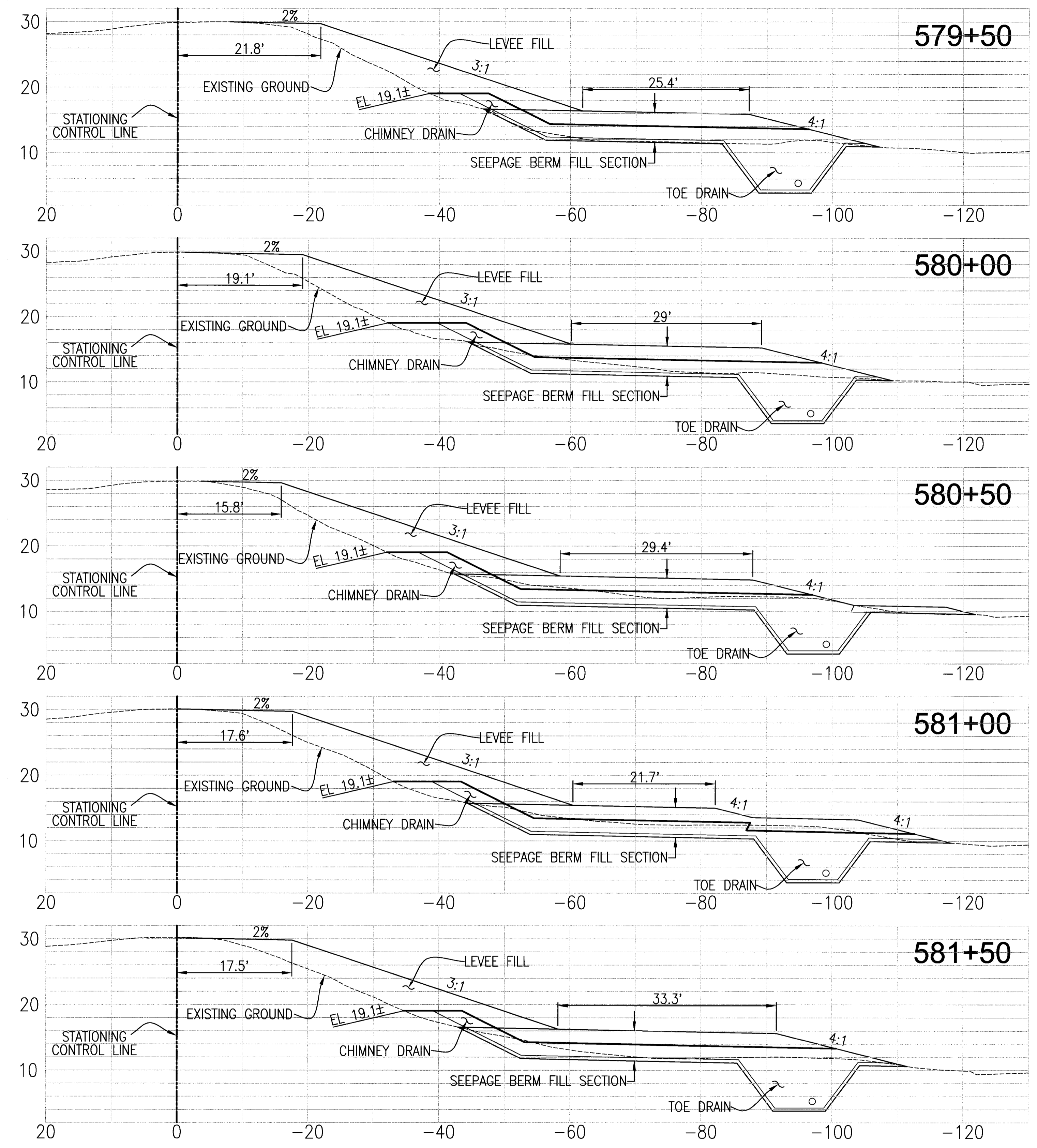
ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

MACKEY & SOMPS
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite 6, Pleasanton, CA 94588 (925) 225-0690

RECLAMATION DISTRICT NO. 17
 ELEMENT IV-B
 THRU SEEPAGE SECTIONS
 575+50 THRU 579+00
 SAN JOAQUIN COUNTY CALIFORNIA

4	RECORD DRAWINGS (NAVD88)	11/15/11	PROJECT NO.	25126.03
3	ADD THRU-SEEPAGE PLANS SHTS 12-14	4/15/10	DRAWN BY:	EJN
2	ISSUE CONSTRUCTION DOCUMENTS	6/17/09	DESIGNED BY:	CWG
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09	CHECKED BY:	JSL
	NO. REVISION	DATE		



RECORD DRAWING
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.

REGISTERED PROFESSIONAL ENGINEER
 JAMES F. TEMPLETON JR.
 No. 43061
 EXP. 3/31/12
 CIVIL
 STATE OF CALIFORNIA

[Signature]
 JAMES F. TEMPLETON JR.
 RCE #43061
 EXPIRES: MARCH 31, 2012

GEO

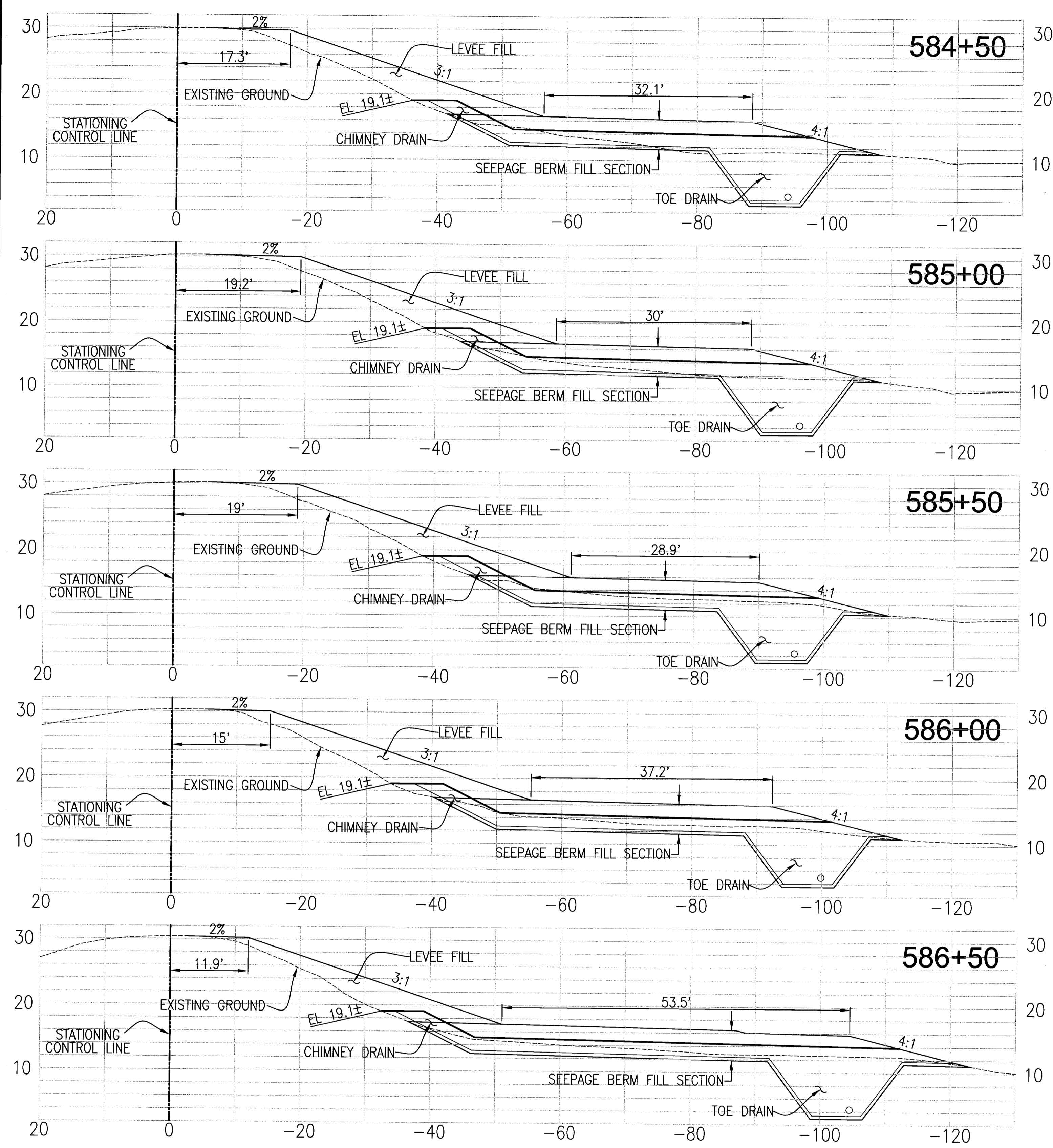
MACKAY & SOMPS

SAN JOAQUIN COUNTY CALIFORNIA

RECLAMATION DISTRICT NO. 17
ELEMENT IV-B
THRU SEEPAGE SECTIONS
579+50 THRU 584+00

4	RECORD DRAWINGS (NAVD88)	11/15/11
3	ADD THRU-SEEPAGE PLANS SHETS 12-14	4/15/10
2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09
	DATE	

DATE:	JULY 2009	PROJECT NO.	25126.03
SCALE:		SHT	13
DRAWN BY:	EJN	OF	14
DESIGNED BY:	CWG		
CHECKED BY:	JSL		



RECORD DRAWING
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 No. 43061
 EXP. 3/31/12
 CIVIL
 STATE OF CALIFORNIA
 JAMES F. TEMPLETON JR.
 RCE #43061
 EXPIRES: MARCH 31, 2012

PLANS REVIEWED AND APPROVED BY:

K S SINOCH
INC.
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17 MOSSDALE TRACT ELEMENT IV-B DATED MARCH 27, 2009

ENGEIO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

MACKAY & SOMPS
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690
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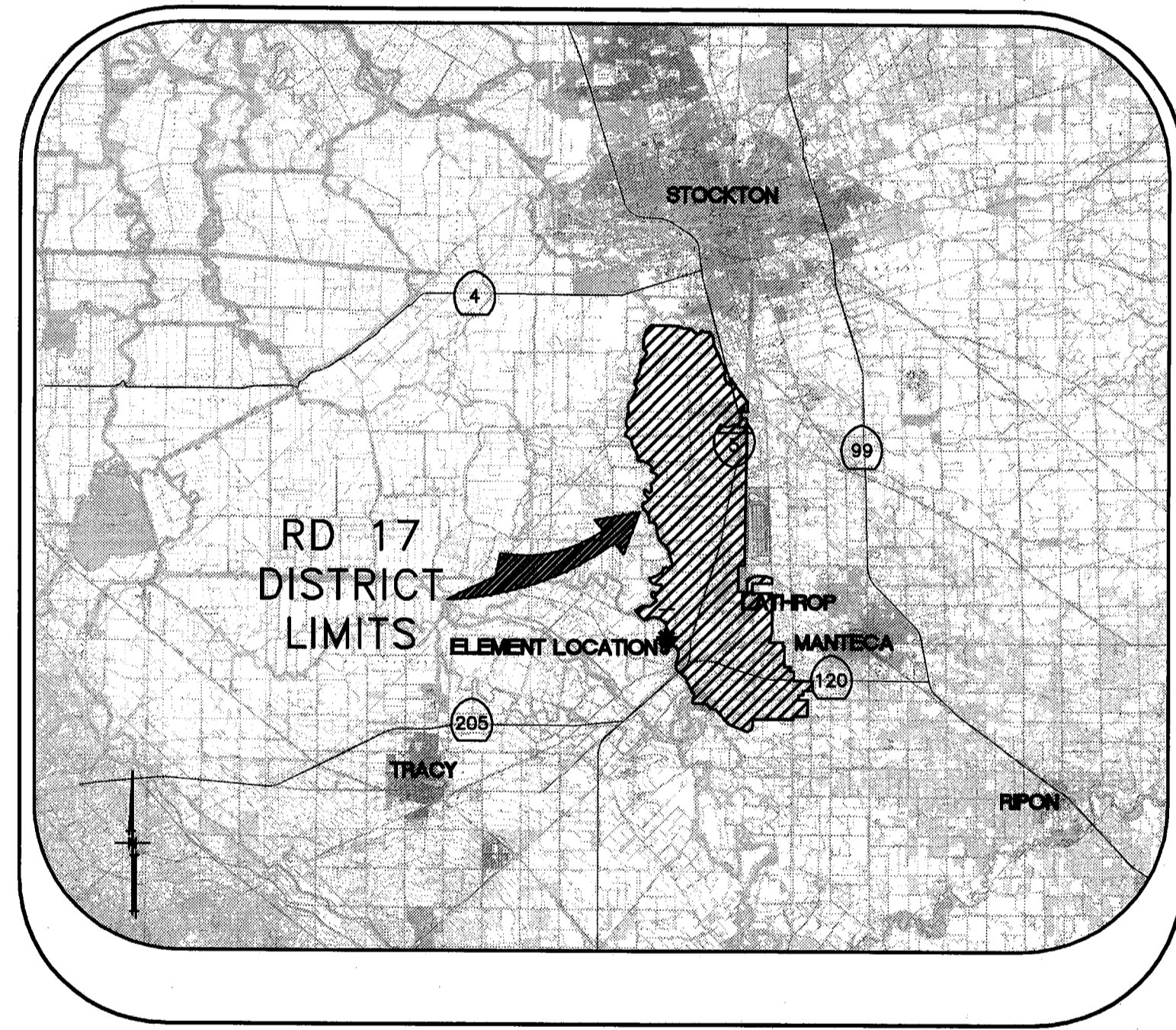
RECLAMATION DISTRICT NO. 17
ELEMENT IV-B
THRU SEEPAGE SECTIONS
584+50 THRU 586+50
 SAN JOAQUIN COUNTY CALIFORNIA

DATE: JULY 2009	PROJECT NO. 25126.03
SCALE:	SHT 14
DRAWN BY: EUN	OF 14
DESIGNED BY: CWG	
CHECKED BY: JSL	
NO. 4	REVISION
3	RECORD DRAWINGS (NAVD88)
2	ADD THRU-SEEPAGE PLANS SHITS 12-14
1	ISSUE CONSTRUCTION DOCUMENTS
	REVISION TO ADDRESS PLAN CHECK COMMENTS
	DATE

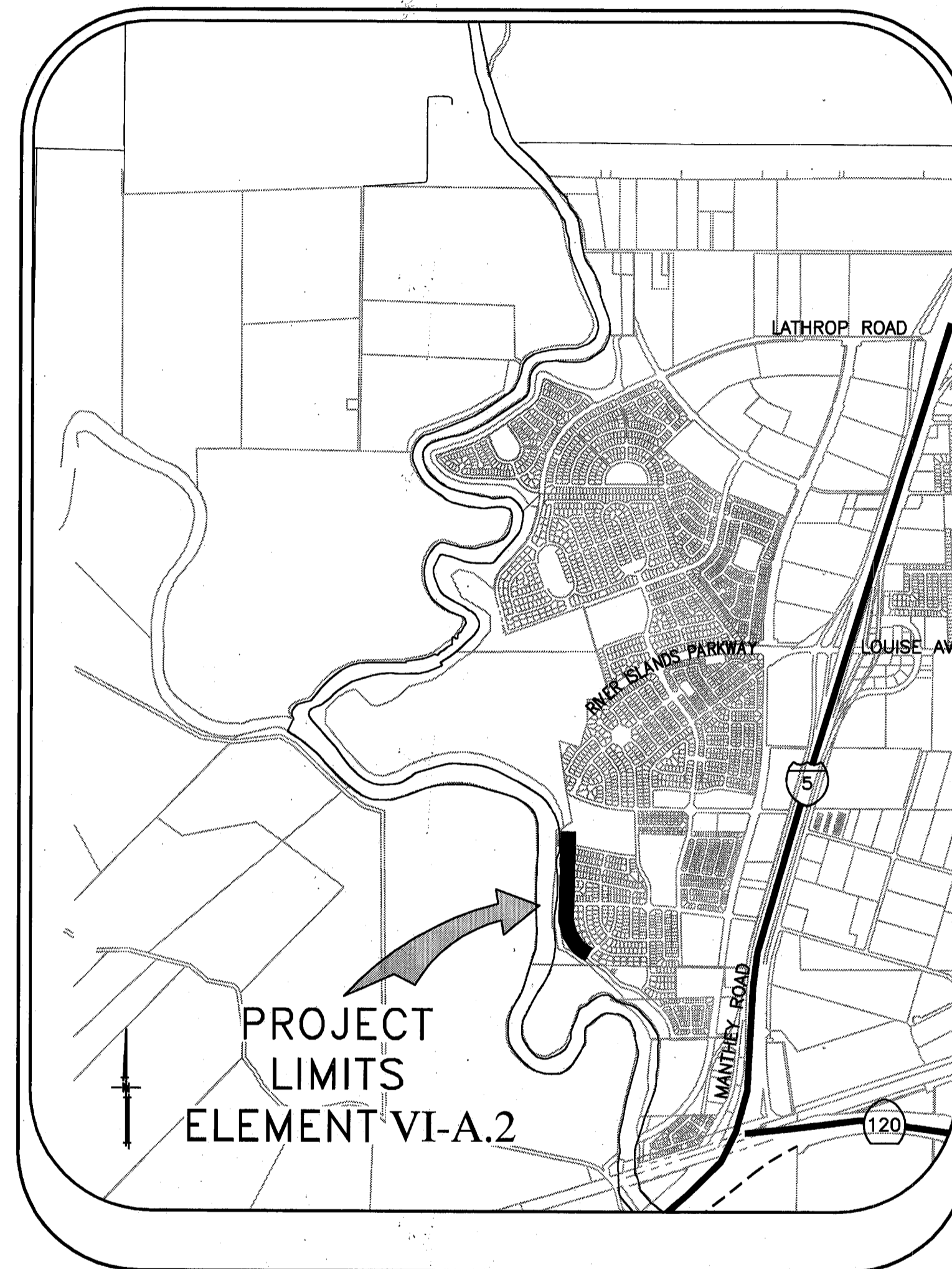
RECLAMATION DISTRICT NO. 17 LEVEE SEEPAGE PROJECT

ELEMENT VI-A.2 STATION 700+00 THRU 723+47

VI-A.2



VICINITY MAP



PROJECT SITE MAP

SHEET	DESCRIPTION
1.	COVER SHEET
2.	STATIONING MAP/ HAUL ROUTES/ CONTROL
3.	NOTES & BORING LOCATIONS
4.	TYPICAL SECTIONS & DETAILS
5.	DEMOLITION PLAN - CIVIL
6.	DEMOLITION PLAN - CIVIL
7.	DEMOLITION PLAN - LANDSCAPE
8.	DEMOLITION PLAN - LANDSCAPE
9.	SEEPAGE BERM PLAN VIEW
10.	SEEPAGE BERM PLAN VIEW
11.	SEEPAGE BERM PROFILE VIEW
12.	SELECTED CROSS-SECTIONS
13.	KEYSTONE WALL STRUCTURAL DESIGN
14.	KEYSTONE WALL STRUCTURAL DESIGN
15.	THROUGH SEEPAGE IMPROVEMENTS
16.	THROUGH SEEPAGE IMPROVEMENTS
17.	THROUGH SEEPAGE IMPROVEMENTS
18.	THROUGH SEEPAGE IMPROVEMENTS
19.	THROUGH SEEPAGE IMPROVEMENTS

INDEX

RECORD DRAWING

THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.

BY: *J. Steven Lichliter* 9-30-10
 J. STEVEN LICHLITER RCE NO. 41637
 EXP. 12/31/11
 CIVIL
 STATE OF CALIFORNIA

PLANS REVIEWED AND APPROVED BY:

KJELDSSEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors

Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17 MOSSDALE TRACT ELEMENT VI-A.2 DATED MARCH 27, 2009

ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

MACKAY & SOMPS
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94568 (925) 225-0690

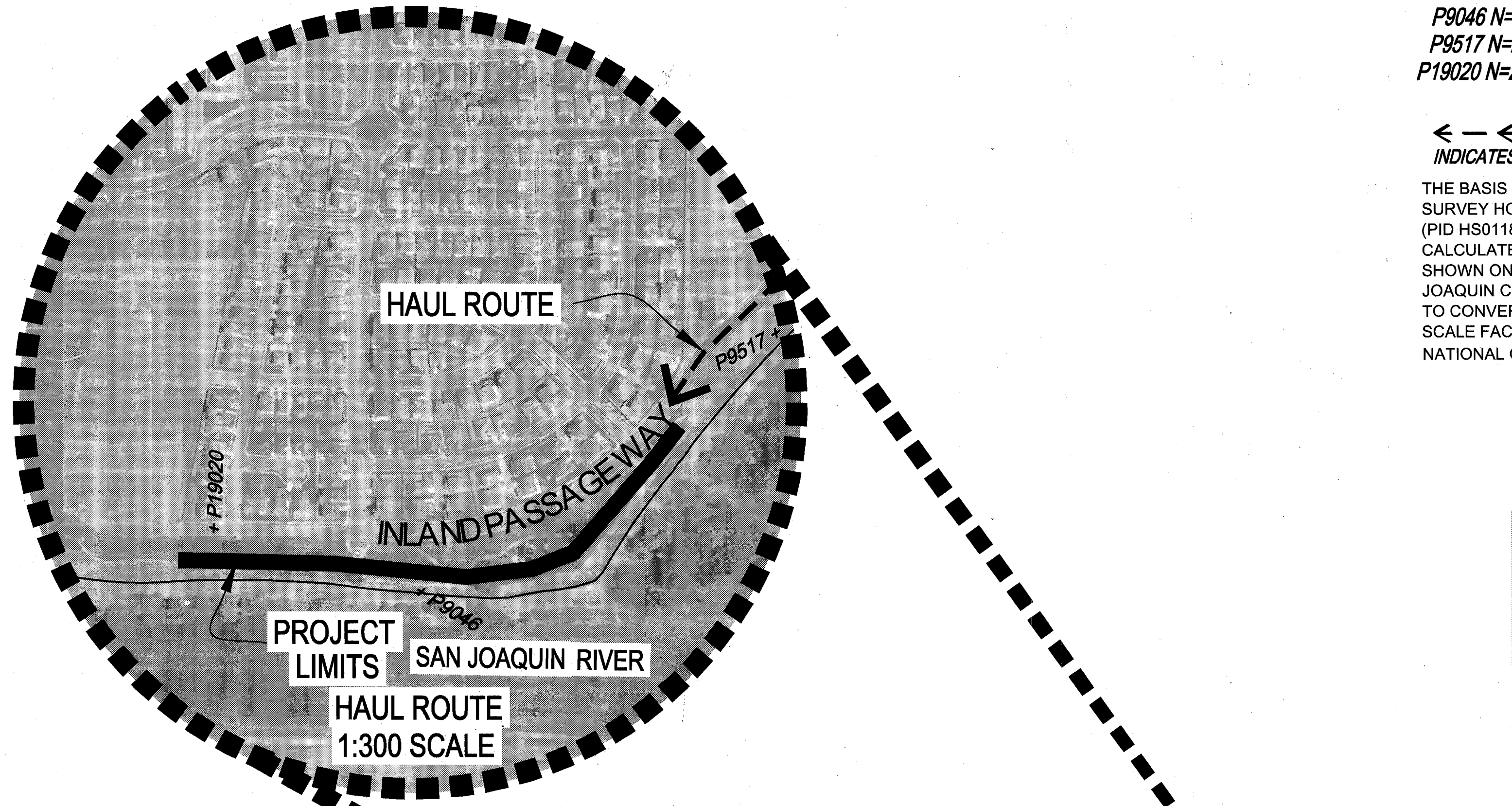
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RECLAMATION DISTRICT NO. 17
 ELEMENT VI-A.2
 COVER SHEET
 SAN JOAQUIN COUNTY CALIFORNIA

NO.	DATE	REVISION
1	7/20/09	REVISION
2	8/17/09	ISSUE CONSTRUCTION DOCUMENTS
3	10/8/09	EXTEND DRAINAGE LAYER TO BERM SURFACE
4	4/16/10	THRU SEEPAGE: REV. SHTS. 1, 4, 9, & 10. ADDED SHTS. 15-19
5	4/26/10	REV THRU SEEPAGE ELEV.
6	9-28-10	AD. BUILT DRAWINGS

DATE: JULY 2009
 SCALE: NOT TO SCALE
 DRAWN BY: EJM
 DESIGNED BY: CWG
 CHECKED BY: JSL

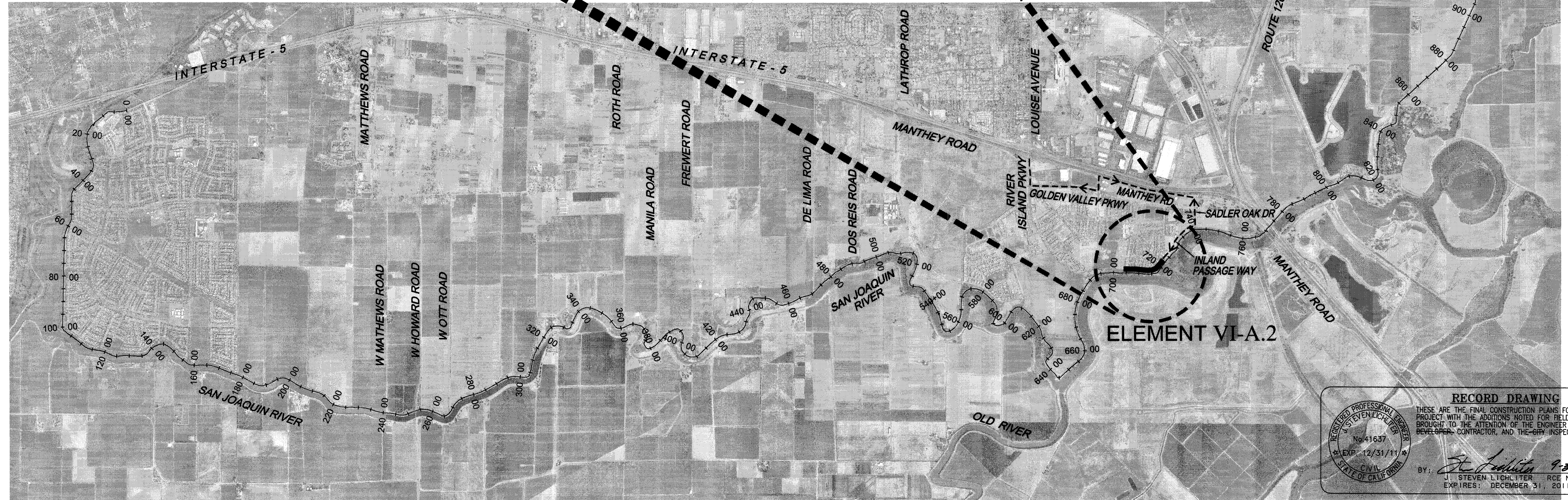
PROJECT NO. 25126.03
 SHT 1a
 OF 19



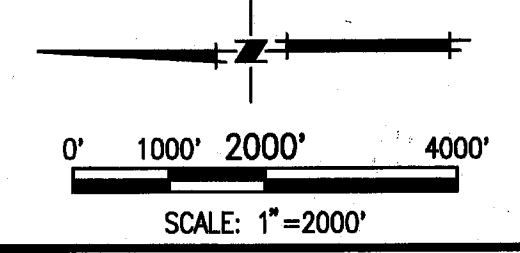
CONTROL POINTS
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 P9517 N=2113421.617 E=6327865.964 EL=0.00 (3/4IN IP)
 P19020 N=2115230.38 E=6327214.16 EL=11.87 CUT SQ

← ← ← → → → →
 INDICATES HAUL ROUTES TO BE USED BY CONTRACTOR

THE BASIS OF BEARINGS IS NORTH 12D33'37.56" EAST BETWEEN NATIONAL GEODETIC SURVEY HORIZONTAL CONTROL POINTS HPGN-D CA 10 HG (PID AA4256) AND MATTHEW (PID HS0118), CALIFORNIA COORDINATE SYSTEM ZONE 3, NAD83, EPOCH DATE 1997.30, AS CALCULATED AND ADJUSTED BY THE NATIONAL GEODETIC SURVEY IN JULY, 1998, AS SHOWN ON RECORD OF SURVEY RECORDED AT BOOK 34 PAGES 163 - 163B, OF SAN JOAQUIN COUNTY RECORDS. ALL DISTANCES SHOWN HEREON ARE GROUND DISTANCES. TO CONVERT TO GRID DISTANCE, MULTIPLY GROUND DISTANCE BY AVERAGE COMBINED SCALE FACTOR OF 0.999929125. ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).



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 BY: *J. Steven Lightner* 9-30-10
 J. STEVEN LIGHTNER RCE NO. 41637
 EXPIRES: DECEMBER 31, 2011



PLANS REVIEWED AND APPROVED BY:
K S N KJELDSSEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
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THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SIEPAGE EVALUATION, RD. NO. 17 MOSSDALE TRACT ELEMENT VI-A.2 DATED MARCH 27, 2009
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 EXCELLENT SERVICE SINCE 1971
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RECLAMATION DISTRICT NO. 17
 ELEMENT VI-A.2
 STATIONING MAP / HAUL ROUTES / CONTROL
 SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE
6	ISSUE DRAWINGS	9-28-10
5	REV THRU SEEPAGE ELEV.	4/26/10
4	THRU SEEPAGE: REV. SHTS. 1, 4, 9, & 10. ADDED SHTS. 15-19	4/16/10
3	EXTEND DRAINAGE LAYER TO BERM SURFACE	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

DATE: JULY 2009
 SCALE: 1"=2000'
 DRAWN BY: EUN
 DESIGNED BY: CWG
 CHECKED BY: JSL
 PROJECT NO. 25126.03
 SHT 2 OF 19

ROLES:

THE "DISTRICT" AS REFERRED TO IN THESE NOTES MEANS RECLAMATION DISTRICT 17. THE "ENGINEER" AS REFERRED TO IN THESE NOTES MEANS THE DISTRICT ENGINEER: KJELSDEN SINNOCK AND NEUDECK. THE ENGINEER SHALL PROVIDE INSPECTION OF THE PROJECT AND OVERALL CONSTRUCTION MANAGEMENT INCLUDING COORDINATION WITH PUBLIC UTILITIES, PUBLIC AGENCIES, THE DESIGN ENGINEER AND THE GEOTECHNICAL ENGINEER.

GENERAL NOTES:

- 1. PRIOR TO THE COMMENCEMENT OF WORK, A JOINT INSPECTION BETWEEN THE ENGINEER OR HIS REPRESENTATIVE, AND THE CONTRACTOR OR HIS REPRESENTATIVE, WILL BE CONDUCTED TO REVIEW THE PRE-CONSTRUCTION CONDITIONS (E.G. ROADS, PUMPS DISCHARGE PIPES, SIPHONS, RAMPS, GATES, SIGNS, ETC.) IF SUCH EXISTING FACILITIES ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR, AT HIS EXPENSE, SHALL REPLACE OR RESTORE THEM TO THE CONDITION THAT EXISTED PRIOR TO THE COMMENCEMENT OF WORK.

ENVIRONMENTAL NOTES (cont'd):

- 3. THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, AND UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE WORK SITE CONDITIONS CLEAN AND FREE FROM RUBBISH AND DEBRIS.

UTILITY NOTES:

- 1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE ACTUAL LOCATION OF ALL UNDERGROUND, SURFACE, OVERHEAD, AND SUBMARINE IMPROVEMENTS, OR FACILITIES WHICH MAY BE SUBJECT TO DAMAGE BY REASON OF HIS OPERATIONS.

POWER LINES:

- 1. THE CONTRACTOR SHALL TAKE NOTE OF THE POWER LINES WITHIN THE CONSTRUCTION ZONE. EXTREME CAUTION SHALL BE EXERCISED WHILE WORKING AROUND THE LIVE LINES.

TRAFFIC CONTROL:

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AS DESCRIBED IN SPECIAL PROVISIONS, SECTION 1.12, "TRAFFIC CONTROL" AND DIVISION 2, SECTION 0242B "TRAFFIC CONTROL OF THE PROJECT SPECIFICATIONS (AS PREPARED BY THE ENGINEER)

CLEANUP:

- 1. THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, AND UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE PREMISES OCCUPIED BY HIM IN A CLEAN AND ORDERLY CONDITION, DISPOSING OF REFUSE IN A MANNER SATISFACTORY TO THE ENGINEER.

CONSTRUCTION NOTES:

- 1. THE CONTRACTOR SHALL IMPROVE, MAINTAIN, AND REPAIR UPON COMPLETION, THE ACCESS ROADS AND HAUL ROUTES AS REQUIRED FOR TRANSPORTATION AND HAULING MATERIAL TO THE REPAIR AREAS.

CLEARING & GRUBBING:

- 1. UNLESS OTHERWISE INDICATED, THE WORK AREAS SHALL BE CLEARED AND GRUBBED BY THE CONTRACTOR. CONTRACTOR SHALL USE CAUTION WHILE CLEARING AND GRUBBING AROUND POWER LINES & BURIED ELECTRICAL CABLES. ALL MATERIAL CLEARED AND REMOVED SHALL BECOME THE PROPERTY AND RESPONSIBILITY OF THE CONTRACTOR FOR REMOVAL AND DISPOSAL OFFSITE.

LEVEE SEEPAGE BERM SECTION:

- 1. THE CONTRACTOR SHALL FURNISH, DELIVER, AND PLACE THE SPECIFIED MATERIALS (PER THE ENGINEER'S SPECIFICATIONS) AND UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER TO THE DESIGNATED SEEPAGE BERM SITES.

FINISHING AND SLOPING GRADING:

- 1. THE SURFACE OF THE TOP LAYER SHALL BE FINISHED TO THE DESIGNATED GRADE AND CROSS SECTION. THE FINISHED SURFACE SHALL BE OF UNIFORM TEXTURE, DRESSED AND GRADED TO DRAIN AND PREVENT WATER PONDING.

COMPACTION EQUIPMENT:

- 1. COMPACTION SHALL BE PERFORMED WITH A NON-VIBRATORY TYPE ROLLER COMPACTOR. VIBRATORY EQUIPMENT WILL NOT BE PERMITTED ON LEVEE TOE BERM FILLS.

TESTING:

- 1. THE DISTRICT WILL RETAIN ENGeo, INC. TO PERFORM SAMPLING AND TESTING AS REQUIRED AND TO CHECK FOR COMPLIANCE WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL ASSIST IN THE REMOVAL OF SURFACE MATERIALS AT LOCATIONS DESIGNATED BY THE TESTING ENGINEER AT NO COST TO THE DISTRICT. ENGeo, INC. WILL SAMPLE AND PERFORM ALL REQUIRED TESTS SUCH AS MOISTURE CONTENT, GRADATION, AND MOISTURE DENSITY RELATIONSHIPS ON THE EXCAVATED AND SEEPAGE BERM FILL MATERIALS.

GEOTEXTILE FABRIC:

- 1. GEOTEXTILE FABRIC SHALL BE MIRAFI FW700 WOVEN GEOTEXTILE OR AN APPROVED EQUAL.

ROAD PREP, MAINTENANCE, AND SWPPP:

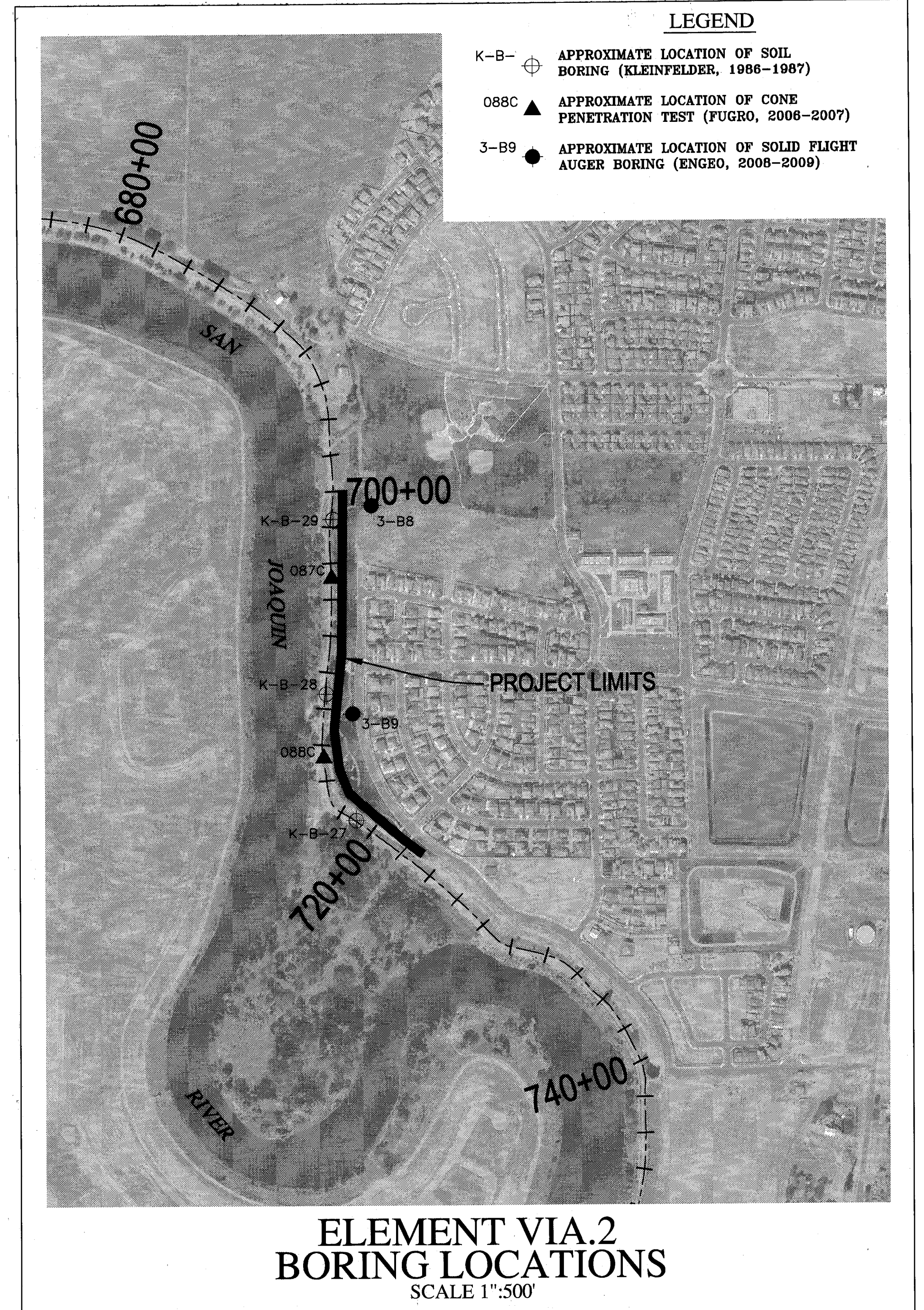
- 1. PER THE IMPROVEMENT PLANS AND SWPPP (AS PREPARED BY ENGeo), CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF REQUIRED: A. EROSION CONTROL FACILITIES B. CONSTRUCTION ENTRANCE C. STREET SWEEPING D. SITE/CONSTRUCTION MATERIALS MAINTENANCE E. SITE SECURITY

LEGEND

Table with 2 columns: Symbol and Description. Includes EX FC (EXISTING FACE OF CURB), EX ROW (EXISTING RIGHT OF WAY), EX SD/EX PERE PIPE (EXISTING STORM DRAIN), NEW PERE PIPE (NEW TOE DRAIN), EX W (EXISTING WATER LINE), EX RW (EXISTING RECYCLED WATER LINE), CONFORM (NEW SEEPAGE BERM SLOPE), TOP, TOE.

CONSTRUCTION SURVEYING:

- 1. ROUGH GRADE STAKING - SET HORIZONTAL LOCATION STAKES EVERY 100 FEET ON TANGENTS AND EVERY 50 FEET ON CURVES AT THE DESIGN TOE OF THE SEEPAGE BERM. ALSO, SET POINTS AND CORRESPONDING MARKERS AT LOCATIONS THAT ARE OFFSET FROM THE EASTERLY TOE OF BERM EVERY 100 FEET ON TANGENTS AND EVERY 50 FEET ON CURVES.



ENVIRONMENTAL NOTES:

- 1. THE CONTRACTOR SHALL NOT DISCHARGE SMOKE, DUST, OR ANY OTHER AIR CONTAMINANTS INTO THE ATMOSPHERE IN SUCH QUANTITY AS WILL VIOLATE THE REGULATIONS OF ANY LEGALLY CONSTITUTED AUTHORITY. HE SHALL ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING AND SPRINKLING WITH WATER, OR OTHER MEANS AS NECESSARY. THE USE OF WATER IN AN AMOUNT WHICH RESULTS IN MUD ON PUBLIC ROADS IS NOT ACCEPTABLE AS A SUBSTITUTE FOR SWEEPING OR OTHER METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ADJACENT PUBLIC ROADS CLEAN & CLEAR FROM CONSTRUCTION IMPACTS OR DEBRIS.

Professional Engineer stamps for KJELSDEN SINNOCK AND NEUDECK, INC. and their contact information.

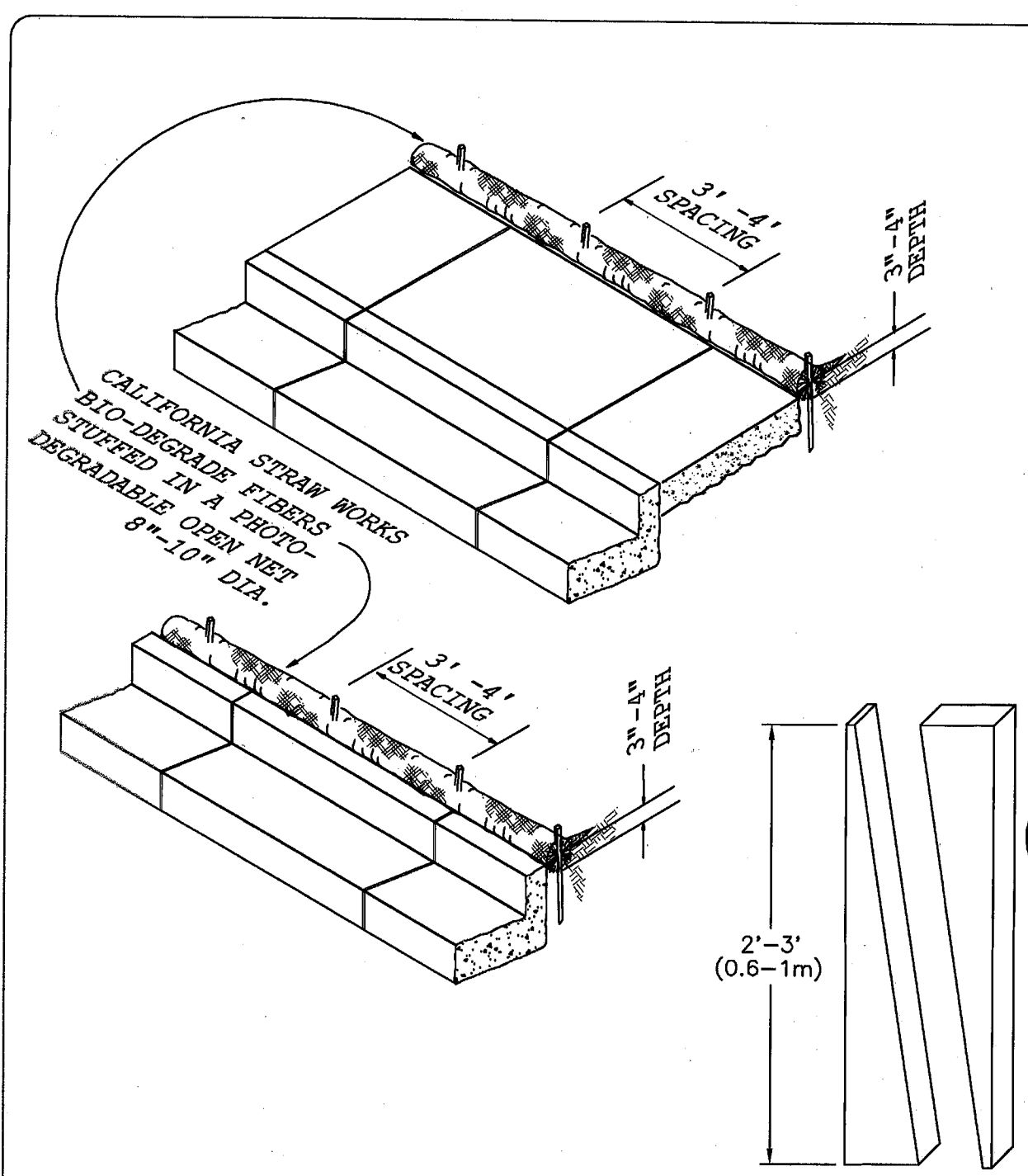
Professional Engineer stamp for ENGeo, INC. and their contact information.

Professional Engineer stamp for Mackay & Somp's and their contact information.

Project title block: RECLAMATION DISTRICT NO. 17, ELEMENT VI-A.2, NOTES & BORING LOCATIONS, SAN JOAQUIN COUNTY, CALIFORNIA.

Table with 2 columns: Item and Date. Includes Record Drawings, Rev Through Seepage Elev., Third Seepage Box Shts., Extend Drainage Layer to Berm Surface, Issue Construction Documents, Revision to Address Plan Check Comments.

Record Drawing information: DATE: JULY 2009, SCALE: 1"=50', DRAWN BY: EUN, DESIGNED BY: CWG, CHECKED BY: JSL, PROJECT NO. 25126.03, SHT 3 OF 19.

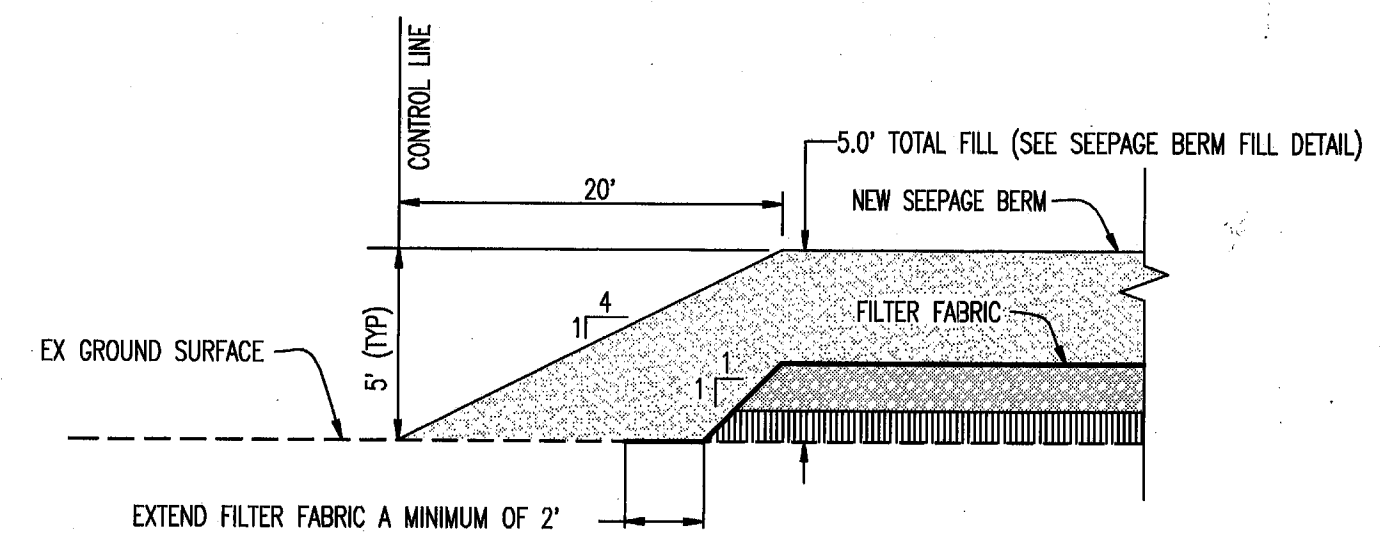


NOTES:
 1. REPAIR OR REPLACE SPLIT, TORN, UNRAVELING OR SLUMPING FIBER ROLLS.
 2. INSPECT FIBER ROLLS WHEN RAIN IS FORECAST, FOLLOWING RAIN EVENTS AND AT LEAST DAILY DURING PROLONGED RAINFALL. PERFORM REQUIRED MAINTENANCE.
 3. IN MOST CASES, FIBER ROLLS DO NOT REQUIRE REMOVAL AND CAN BE ABANDONED IN PLACE. IF NOT EXCESSIVELY SOILED, ROLLS MAY BE REPLACED AND REUSED.

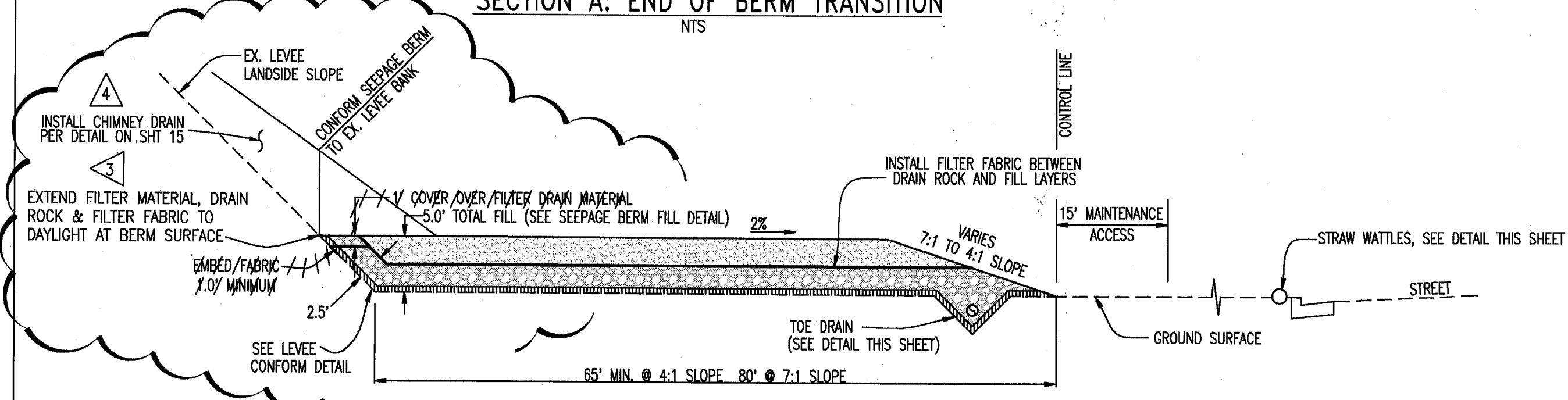
TYPICAL CONSTRUCTION STAKE
 SAW 2X4 (100X50mm) LUMBER
 ON DIAGONAL
 NOT TO SCALE

**WATTLES ALONG
 C/G & SIDEWALK**

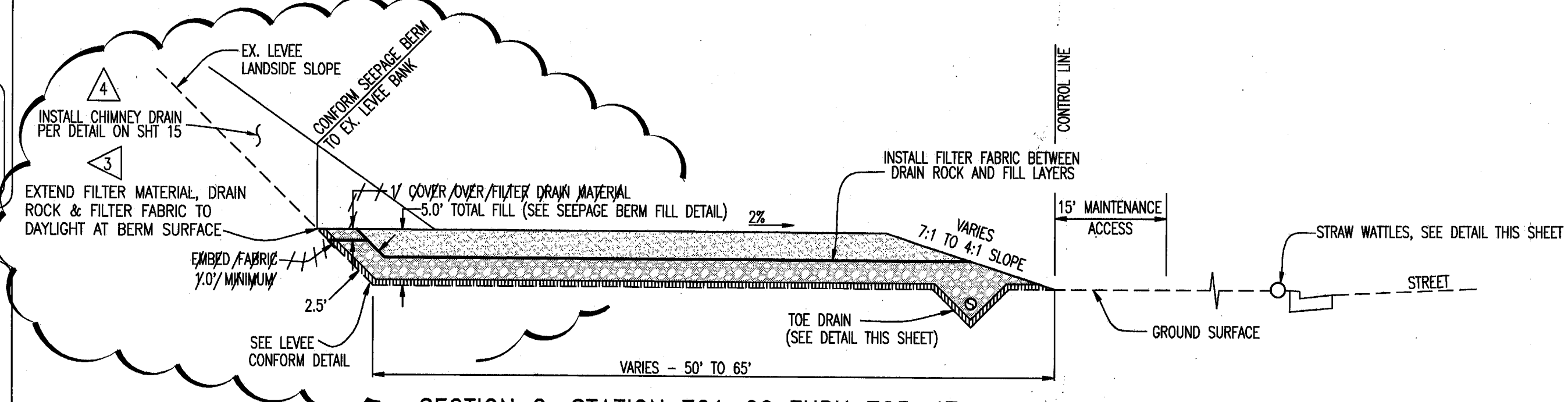
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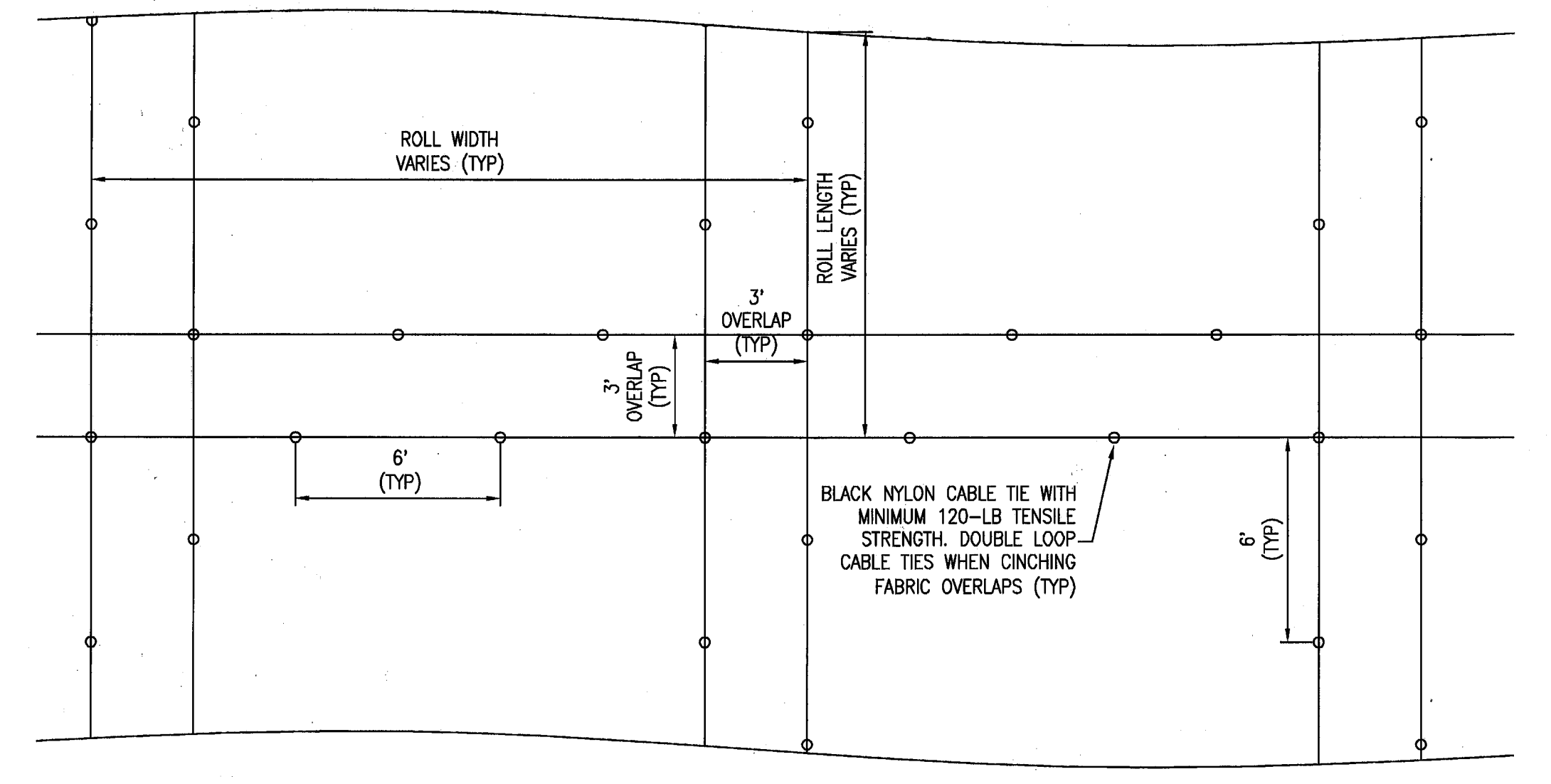
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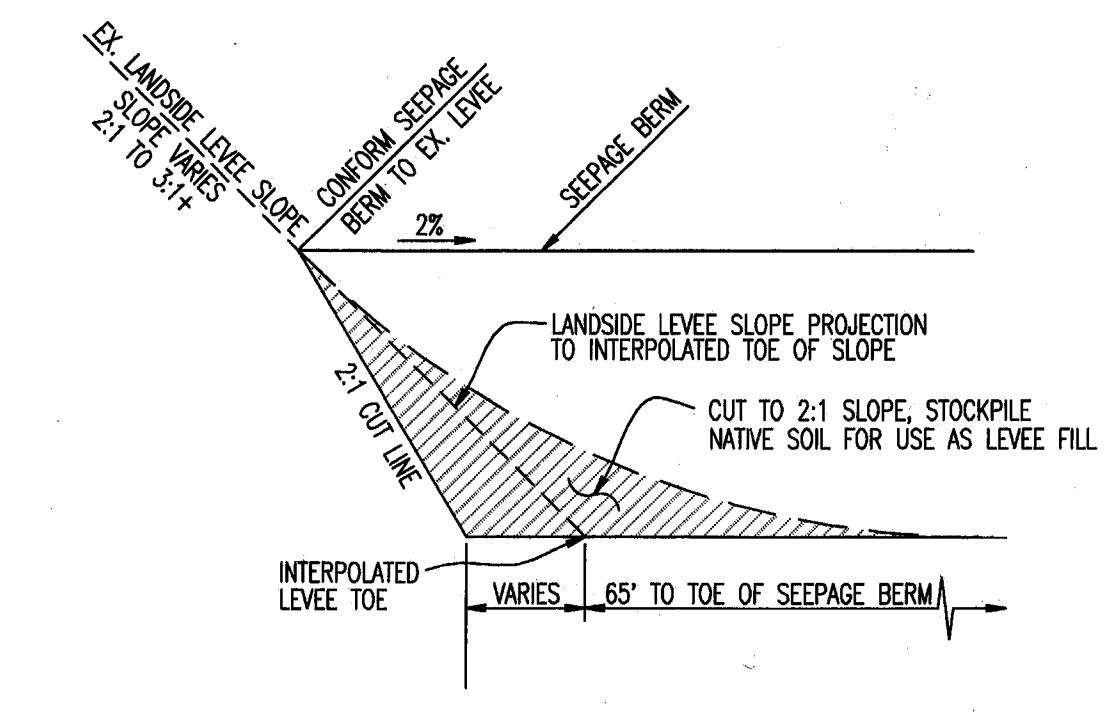
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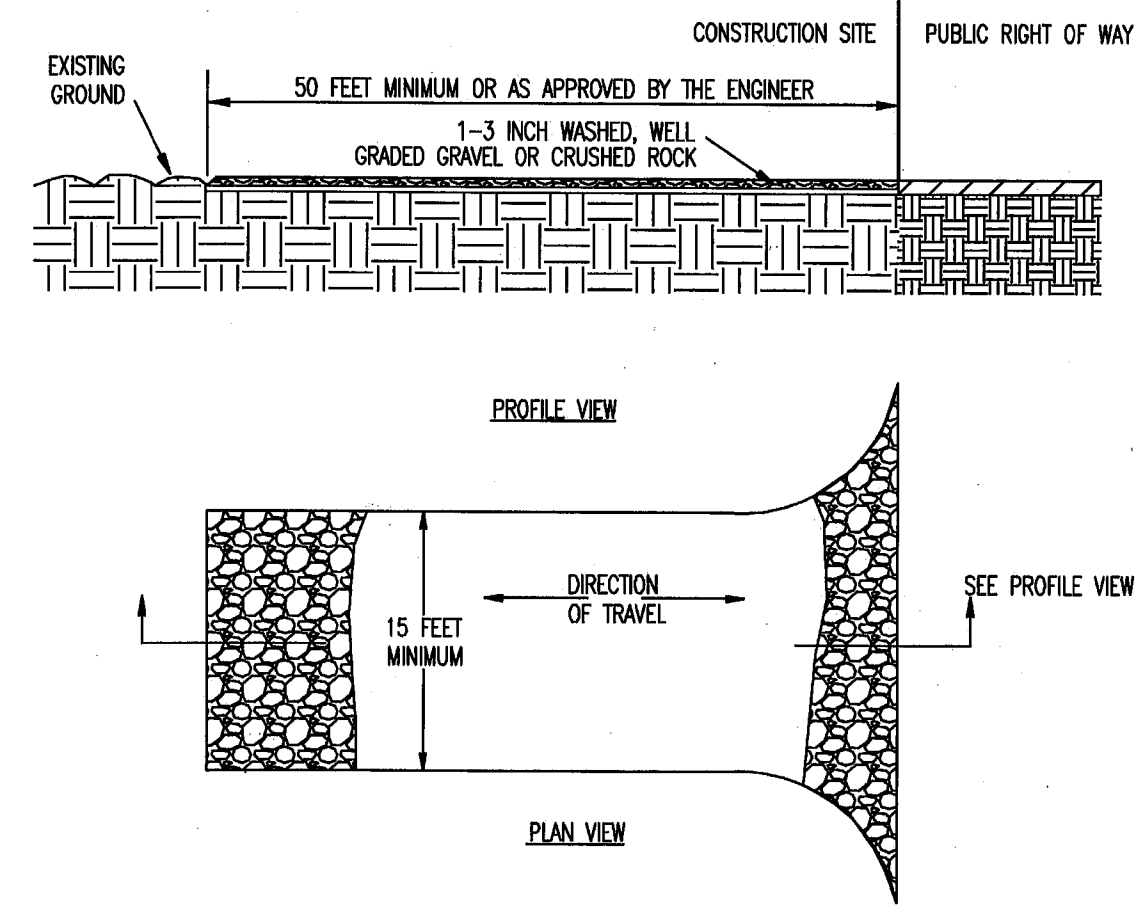
SECTION C: STATION 721+00 THRU 723+47
 NTS



TYPICAL MIRAFI FW700 OVERLAP INSTALLATION DETAIL
 NTS



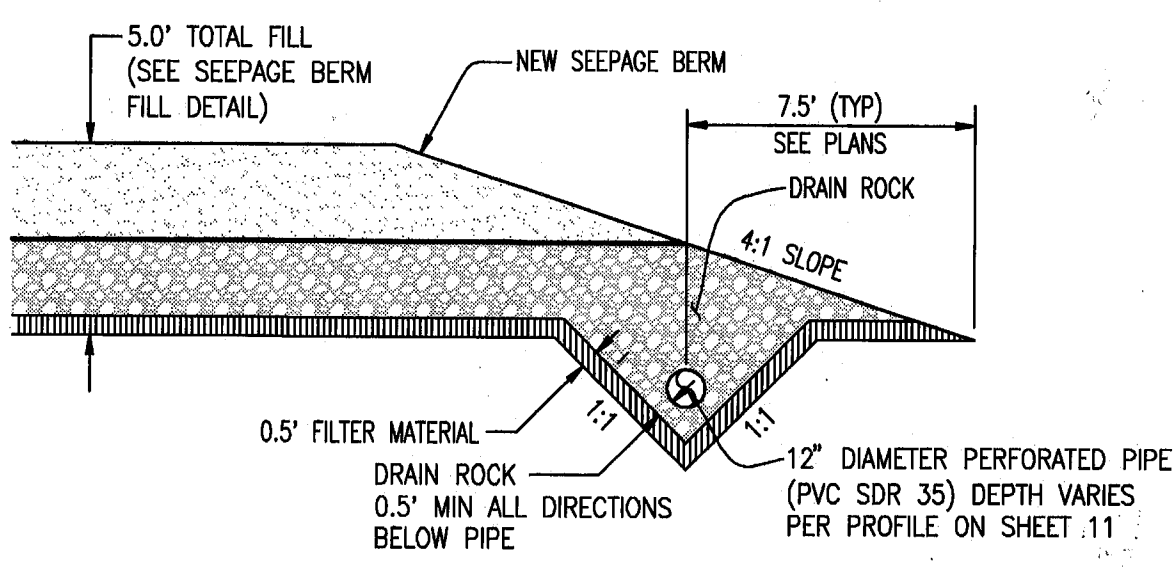
LEEVE CONFORM DETAIL
 NTS



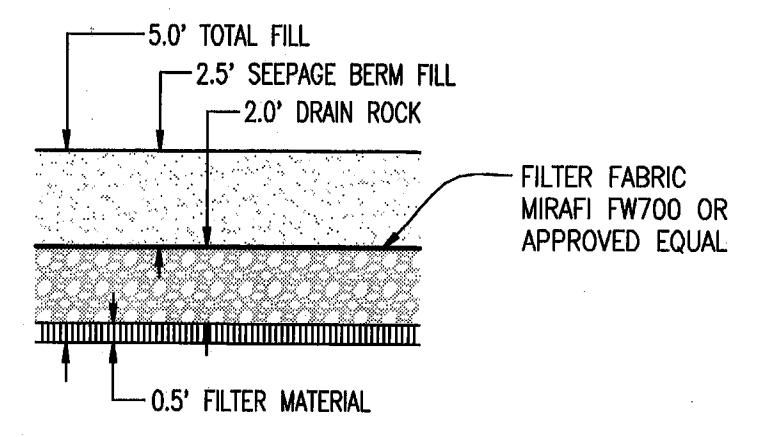
NOTES:
 1. CONSTRUCT AT ALL ENTRANCES TO THE PROJECT SITE AS APPROVED BY THE ENGINEER
 2. THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING WITH ROCK MATERIAL
 3. ACCESSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL, WITH MAINTENANCE PROVIDED AS NECESSARY. PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.

**STABILIZED
 CONSTRUCTION
 SITE ACCESS**

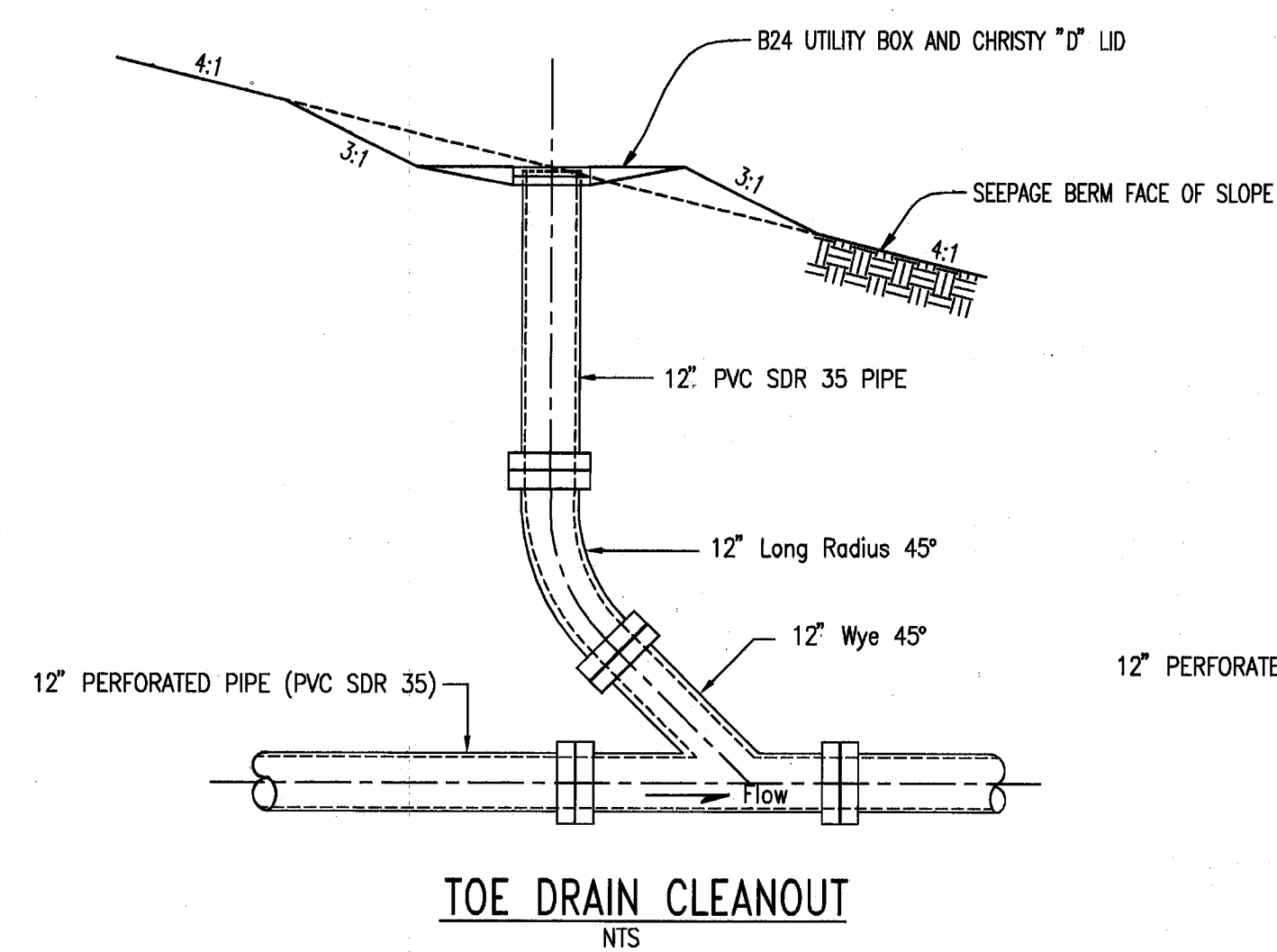
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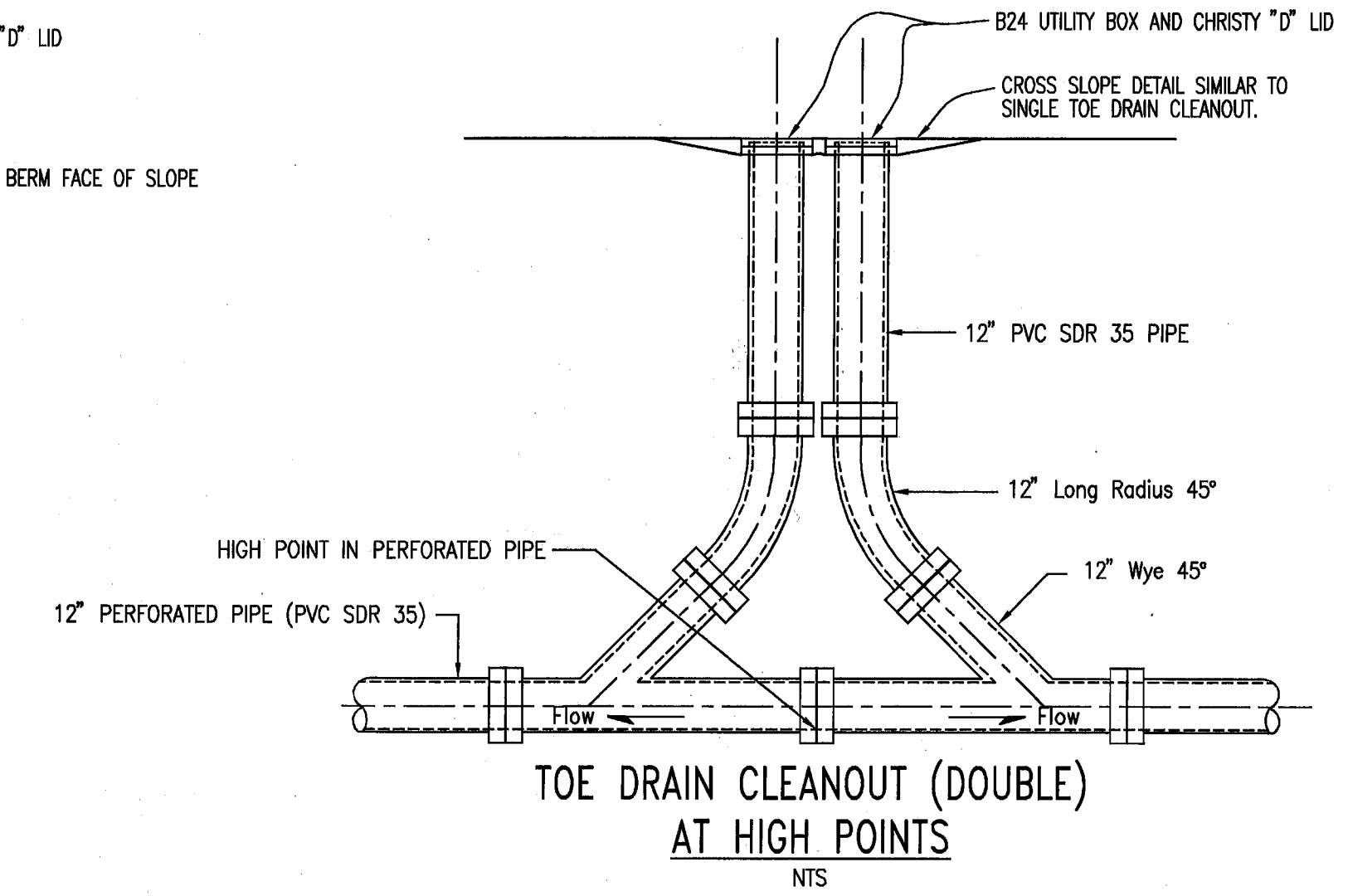
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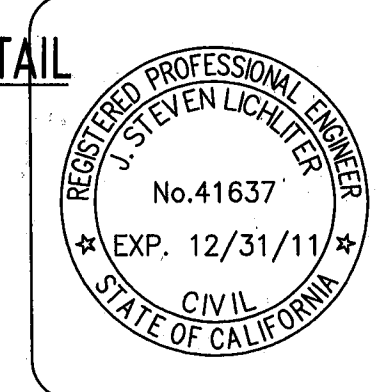
SEEPAGE BERM FILL DETAIL
 NTS



TOE DRAIN CLEANOUT
 NTS



TOE DRAIN CLEANOUT (DOUBLE)
 AT HIGH POINTS
 NTS



RECORD DRAWING
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 BY: *J. Steven Lichtler* 9-30-10
 J. STEVEN LICHTLER RCE NO. 41637
 EXPIRES: DECEMBER 31, 2011

PLANS REVIEWED AND APPROVED BY:
K S N
KJELDEN SINNOCK NEUDECK
 INC. Consulting Engineers and Land Surveyors
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THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17 MOSSDALE TRACT ELEMENT VI-A.2 DATED MARCH 27, 2009
ENGEO
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 EXCELLENT SERVICE SINCE 1971
 5/5/09

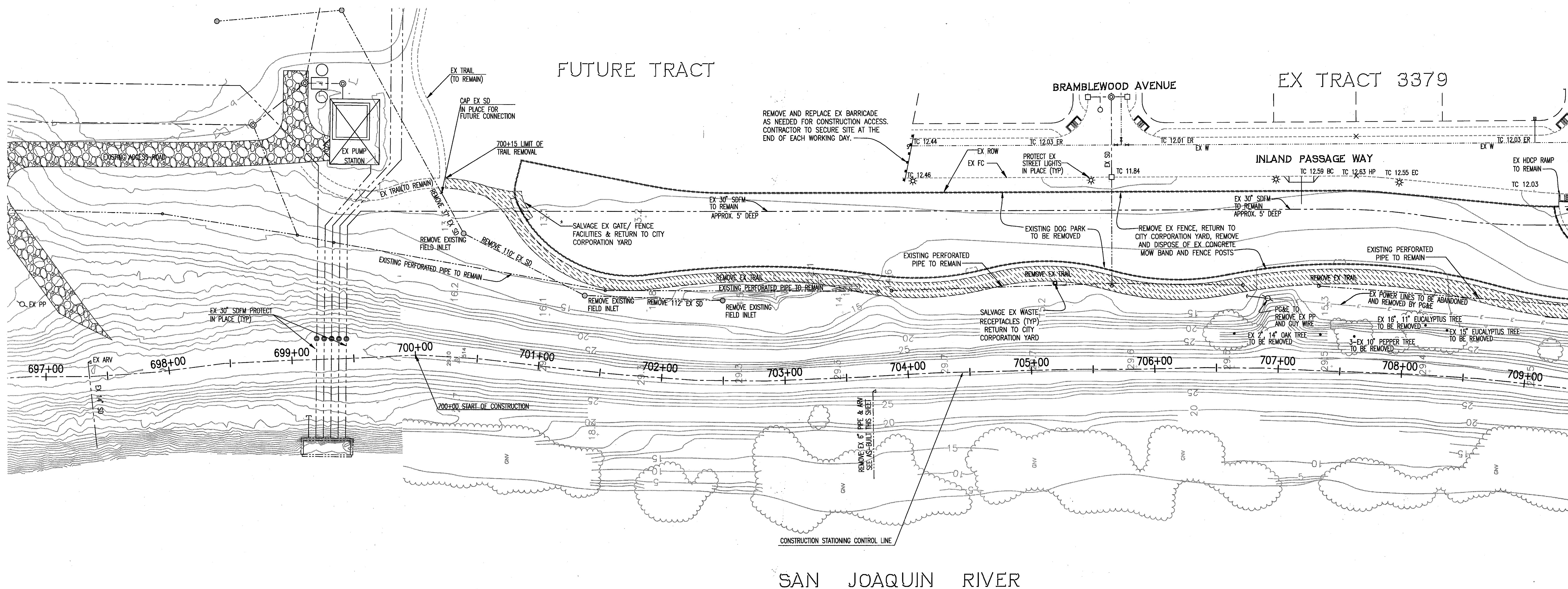
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MACKAY & SOMPS
 ENGINEERS PLANNERS SURVEYORS
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RECLAMATION DISTRICT NO. 17
 ELEMENT VI-A.2
 TYPICAL SECTIONS AND DETAILS
 SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE	CHECKED BY:	DATE
6	RECORD DRAWINGS	9-28-10	JSL	
5	REV THRU SEEPAGE ELEV.	4/28/10		
4	THRU SEEPAGE REV. SHTS. 1, 4, 9, & 10. ADDED SHTS. 15-19	4/16/10		
3	EXTEND DRAINAGE LAYER TO BERM SURFACE	10/8/09		
2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09		
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09		

DATE: JULY 2009
 SCALE: _____
 DRAWN BY: EJM
 DESIGNED BY: CWG
 CHECKED BY: JSL

PROJECT NO. 25126.03
 SHEET 4 OF 19



LEGEND
 EXISTING TRAIL TO BE REMOVED

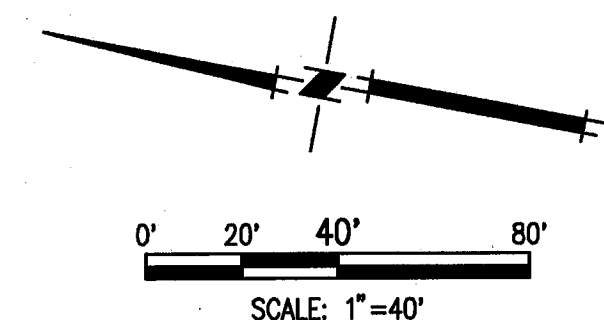
NOTES:
 TREE REMOVAL SHALL COMPLETED IN ADVANCE OF THE SEEPAGE BERM CONSTRUCTION AND SHALL INCLUDE THE REMOVAL OF STUMPS AND ROOTS GREATER THAN 1/2 INCH IN DIAMETER.

STATION 703+70
 EX AS BUILT PIPE CROSS SECTION
 NTS

WARNING • CAUTION
 EXISTING UNDERGROUND UTILITIES
 CONTACT : UNDERGROUND SERVICE ALERT
 PHONE: (800) 642-2444
 FOR MARKING PRIOR TO DIGGING

RECORD DRAWING
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE G&I INSPECTOR.

BY: *J. Steven Lichter* 9-20-10
 J. STEVEN LICHTER RCE No. 41637
 EXPIRES: DECEMBER 31, 2011



TOPOLOGY SOURCE: LIDAR TOPO-SUMMER 2008

PLANS REVIEWED AND APPROVED BY:

K S N **KJELDSSEN SINNOCK NEUDECK INC.** Consulting Engineers and Land Surveyors

Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17 MOSSDALE TRACT ELEMENT VI-A.2 DATED MARCH 27, 2009

ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971

5/5/09

PLANS PREPARED UNDER THE DIRECTION OF:

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 5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690

REGISTERED PROFESSIONAL ENGINEER
 J. STEVEN LICHTER
 No. 41637
 EXP. 12/31/09

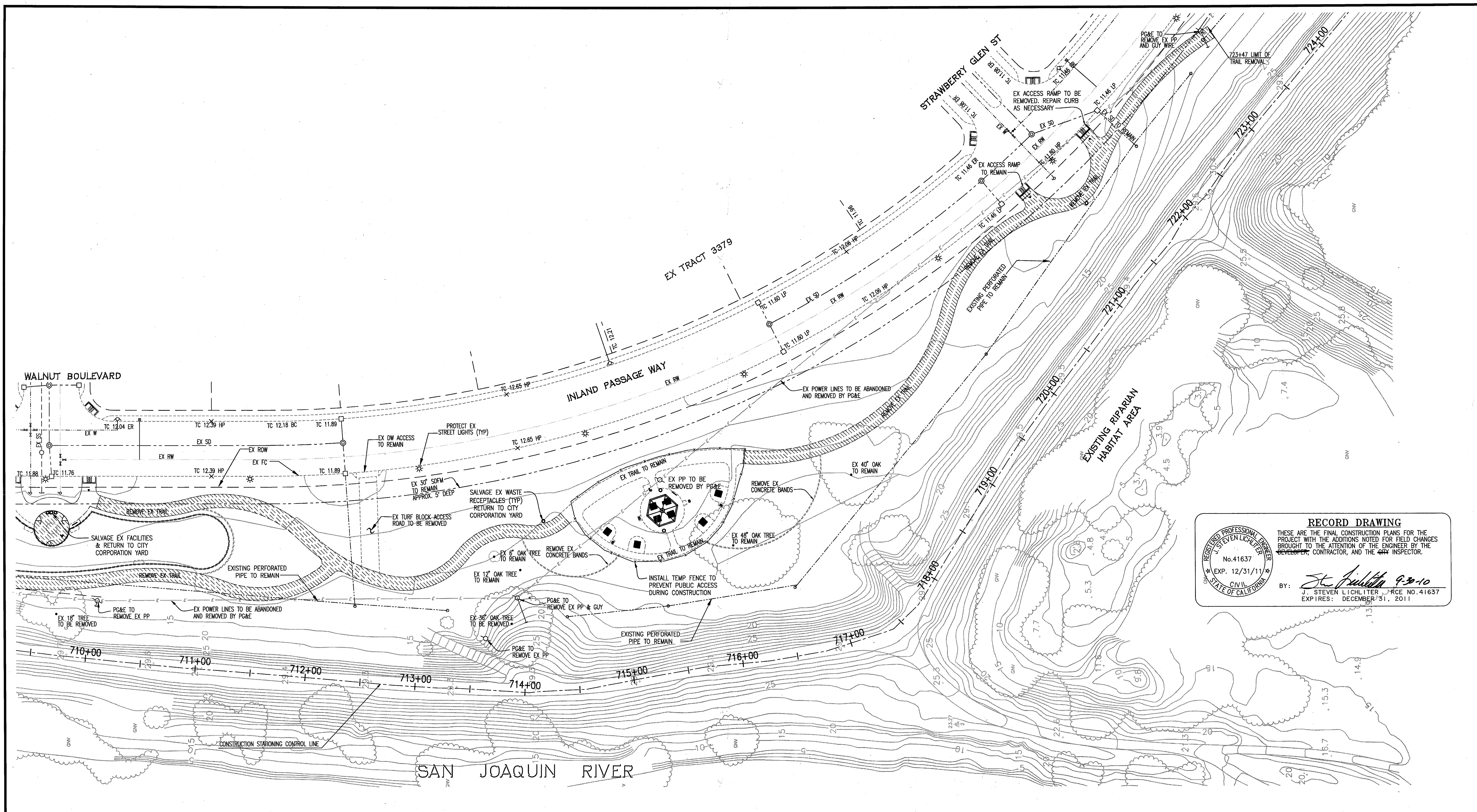
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RECLAMATION DISTRICT NO. 17
 ELEMENT VI-A.2
 DEMOLITION PLAN - CIVIL

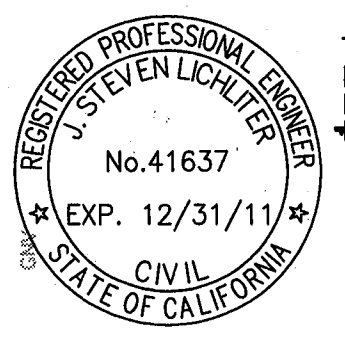
SAN JOAQUIN COUNTY CALIFORNIA

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6	RECORD DRAWINGS	9-20-10
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DATE: JULY 2009	PROJECT NO. 25126.03
SCALE:	SHT 5
DRAWN BY: EUN	OF 19
DESIGNED BY: CWG	
CHECKED BY: JSL	



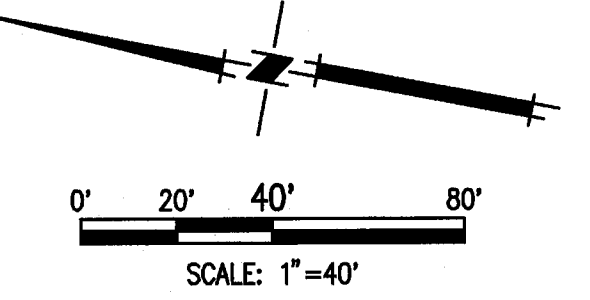
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 BY: *J. Steven Lichliter* 9-30-10
 J. STEVEN LICHLITER, P.E. NO. 41637
 EXPIRES: DECEMBER 31, 2011



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LEGEND
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TOPOLOGY SOURCE: LIDAR TOPO-SUMMER 2008

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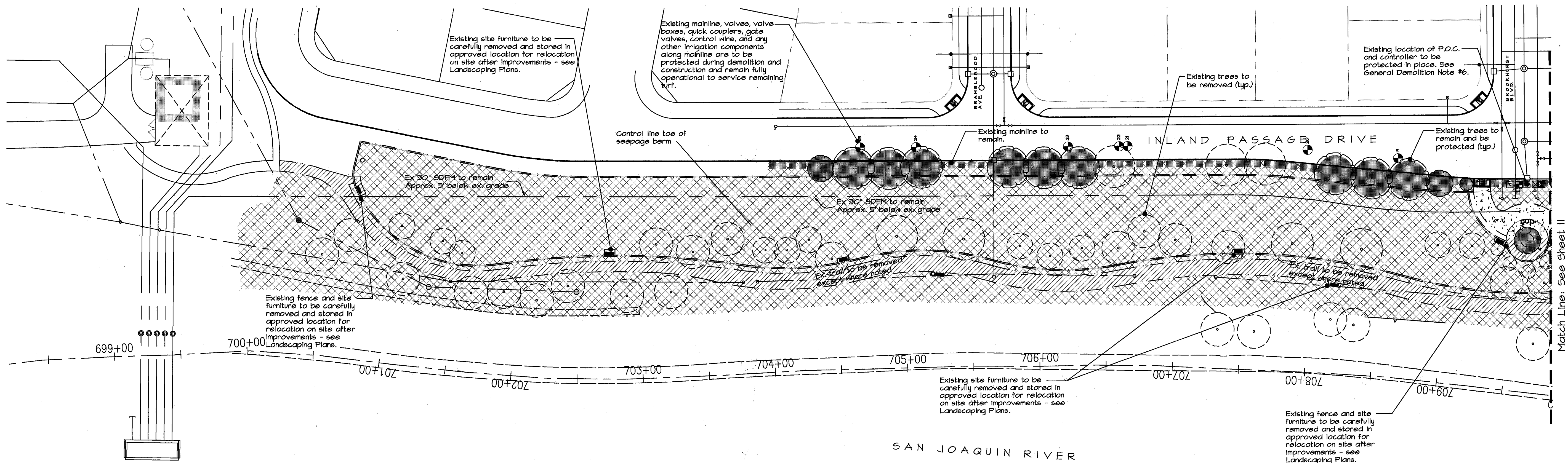
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RECLAMATION DISTRICT NO. 17
 ELEMENT VI-A.2
 DEMOLITION PLAN - CIVIL

SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE	PROJECT NO.
6	REVISION	9/28/10	25126.03
5	REV TRAIL SEEPAGE ELEV.	4/25/10	SHT 6
4	THRU SEEPAGE, REV. SHITS. 1, 4, 9, & 10. ADDED SHITS. 15-19	4/15/10	OF 19
3	EXTEND DRAINAGE LAYER TO BERM SURFACE	10/8/09	
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BY: *J. Steven Litchliter* 9-20-10
 J. STEVEN LITHLITER RCE NO. 41637
 EXPIRES: DECEMBER 31, 2011

Abbreviation List

ADA	American with Disabilities Act
CJ	Control Joint
CMU	Concrete masonry unit
CYRD	Cubic yard
EJ	Expansion Joint
EQ	Equal
FT	Foot (Feet)
GAL	Gallon
GPM	Gallons per minute
IN	Inch
LB	Pound
MAX	Maximum
MIN	Minimum
NCN	No Common Name
OC	On Center
PSI	Pounds per square inch
R	Radius
SCH	Schedule
SF	Square feet
TYP	Typical
VIF	Verify in Field
WNM	Welded wire mesh

General Demolition Notes

1. Call USA before any demolition. Protect any encountered utilities during demolition and construction unless designated for removal.
2. Remove specified vegetation and irrigation as described. See Demolition Legend.
3. Contractor to keep existing irrigation system in operation for existing-to-remain turf throughout demolition and construction.
4. Unless otherwise noted on the drawings, all materials indicated to be removed and disposed of shall become the property of the contractor. Disposal of such material shall become the responsibility of the contractor and shall be made outside of the project site in an approved location. All costs associated with material removal shall be paid for by the contractor.
5. Demolition shown is diagrammatic and general. Perform all demolition as required for the construction of the project including all items in the way of new work whether or not specifically shown. Contact Landscape Architect for any items in question.
6. Demolition contractor shall field verify the location of all pressurized irrigation mainline, valves, flow meter, gate valves, quick couplers, backflow preventer, water meter, control wires, and irrigation controller. All of these items are to be protected in place. Should any be damaged, the contractor shall notify the City Parks Maintenance Department and repair the damage under the supervision of and to the satisfaction of the City. Should any of the irrigation components be required to be relocated for demolition, the contractor shall notify the Landscape Architect and City prior to relocation.

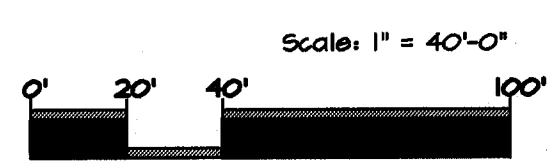
Note: Review all existing site conditions. Alert Owner and/or Land Arch of any discrepancies or required clarifications prior to commencing demolition.

Demolition Legend

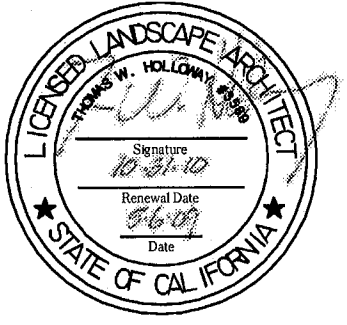
- Tree to remain and be protected. See General Tree Protection During Construction.
- Tree to be completely removed. Grind stump below final finish grade and remove main root system. Dispose of material in approved location. Contractor to pay any fees associated with the disposal.
- Completely remove all trees, turf, shrubs, groundcovers, grasses and any plant material not designated to remain. Remove all main root systems. Contact Landscape Architect for any plants in question. Completely remove all existing irrigation components from the valves to the end of each circuit including laterals, heads, and emitters. Do not abandon any irrigation components in their existing location. Do not remove any valves, mainline, or control wires. Dispose of all material in approved location. Contractor to pay any fees associated with the disposal. Existing mainline, valves, valve boxes, quick couplers, gate valves, control wire, and any other irrigation components along mainline are to be protected during demolition and construction and remain fully operational to service remaining Landscape areas.
- Existing turf to remain and be protected during construction. Maintain existing irrigation in fully operational order. Damaged turf and/or irrigation shall be repaired in the landscape installation phase.
- Existing path to be demolished. Dispose of material in approved offsite location.
- Existing path and site concrete to remain and be protected during demolition and construction. Repair any damage that occurs during demolition or construction.
- Irrigation Mainline to remain

General Tree Protection During Construction

1. All trees that are shown on the demolition plan specifically shown not to be removed are to remain on site and to be cared for throughout the construction process in accordance with the following notes. If there is a question as to whether a tree is to remain or be removed, ask the landscape architect or owner prior to removal. The contractor will be required to replace any trees that are removed or die due to negligence or not specifically following these notes.
2. Protect root zones of trees during demolition and construction. Do not store items on the soil within the drip line of the trees. (Construction equipment and storage causes soil compaction which can kill the trees.)
3. Utility lines and all associated trenching are to be laid-out to avoid conflict and cutting of the existing tree roots.
4. Any damage inadvertently caused to the trees such as broken branches, etc. is to be reviewed immediately by a certified arborist. The recommendations made by the arborist are to be carried out immediately to the satisfaction of the owner.
5. It is the responsibility of the General Contractor to ensure the health of all existing trees. Trees damaged or killed during construction are to be replaced at a size large enough to the satisfaction of the owner.



www.kla.com
 101 N. North St., Santa Ana, CA 92701
 (714) 252-2858 (714) 252-9810



PLANS REVIEWED AND APPROVED BY:

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 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT ELEMENT IV-4 DATED MARCH 23, 2009

ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971
 5/5/09

PLANS PREPARED UNDER THE DIRECTION OF:

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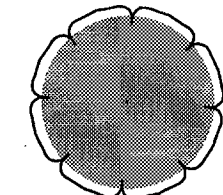
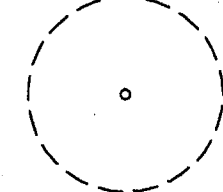
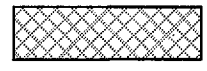
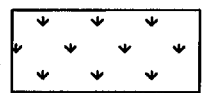
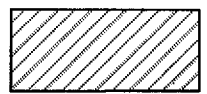


RECLAMATION DISTRICT NO. 17
ELEMENT VIa-2
 LANDSCAPE DEMOLITION EXHIBIT
 SAN JOAQUIN COUNTY CALIFORNIA

5	RECORD DRAWINGS	9-28-10
4	THRU SEEPAGE: REV. SHTS. 1, 4, 9, & 10. ADDED SHTS. 15-19	4/16/10
3	EXTEND DRAINAGE LAYER TO BERM SURFACE	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09
NO.	REVISION	DATE

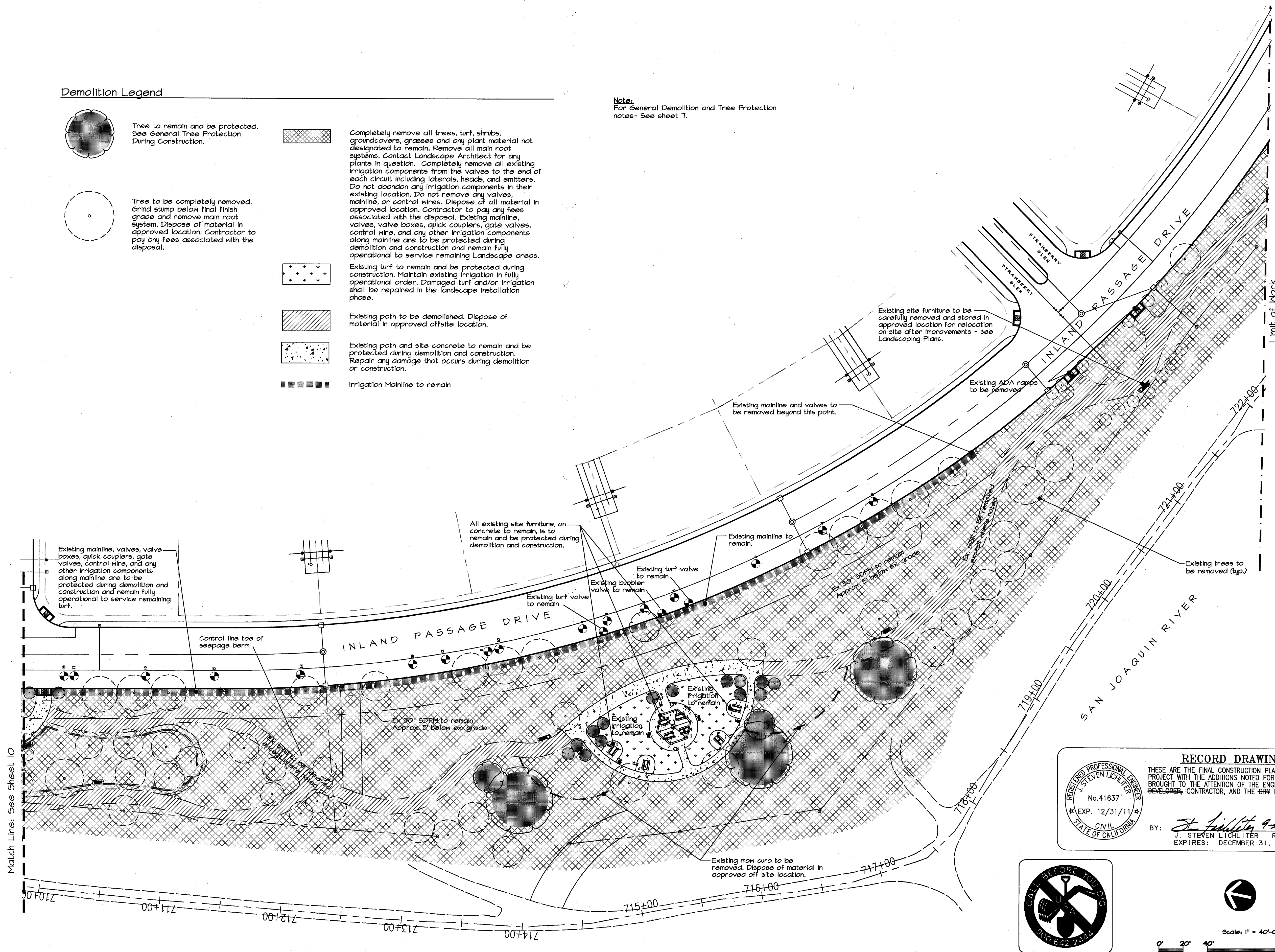
DATE: APRIL 2009
 SCALE: _____
 DRAWN BY: VLW
 DESIGNED BY: _____
 CHECKED BY: TWH

PROJECT NO. 1316
 SHT 7
 OF 19

Demolition Legend

-  Tree to remain and be protected. See General Tree Protection During Construction.
-  Tree to be completely removed. Grind stump below final finish grade and remove main root system. Dispose of material in approved location. Contractor to pay any fees associated with the disposal.
-  Completely remove all trees, turf, shrubs, groundcovers, grasses and any plant material not designated to remain. Remove all main root systems. Contact Landscape Architect for any plants in question. Completely remove all existing irrigation components from the valves to the end of each circuit including laterals, heads, and emitters. Do not abandon any irrigation components in their existing location. Do not remove any valves, mainline, or control wires. Dispose of all material in approved location. Contractor to pay any fees associated with the disposal. Existing mainline, valves, valve boxes, quick couplers, gate valves, control wire, and any other irrigation components along mainline are to be protected during demolition and construction and remain fully operational to service remaining Landscape areas.
-  Existing turf to remain and be protected during construction. Maintain existing irrigation in fully operational order. Damaged turf and/or irrigation shall be repaired in the landscape installation phase.
-  Existing path to be demolished. Dispose of material in approved offsite location.
-  Existing path and site concrete to remain and be protected during demolition and construction. Repair any damage that occurs during demolition or construction.
-  Irrigation Mainline to remain

Note:
For General Demolition and Tree Protection notes- See sheet T.



RECORD DRAWING

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BY: *J. Steven Litchiter* 9-30-10
J. STEVEN LICHLITER RCE NO. 41637
EXPIRES: DECEMBER 31, 2011

KLA LANDSCAPE ARCHITECTURE PLANNING

CIVIL ENGINEER
No. 41637
EXP. 12/31/11
STATE OF CALIFORNIA

CIVIL ENGINEER
No. 41637
EXP. 12/31/11
STATE OF CALIFORNIA

Scale: 1" = 40'-0"

0' 20' 40' 100'

PLANS REVIEWED AND APPROVED BY:

K S N KJELDEN SINNOCK NEUDECK INC.
Consulting Engineers and Land Surveyors
Post Office Box 844
711 N. Pershing Avenue
Stockton, CA 95201-0844
Office: (209) 946-0268
Faxes: (209) 946-0296
E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17 MOSSDALE TRACT ELEMENT IV-4 DATED MARCH 23, 2009

ENGEO INCORPORATED
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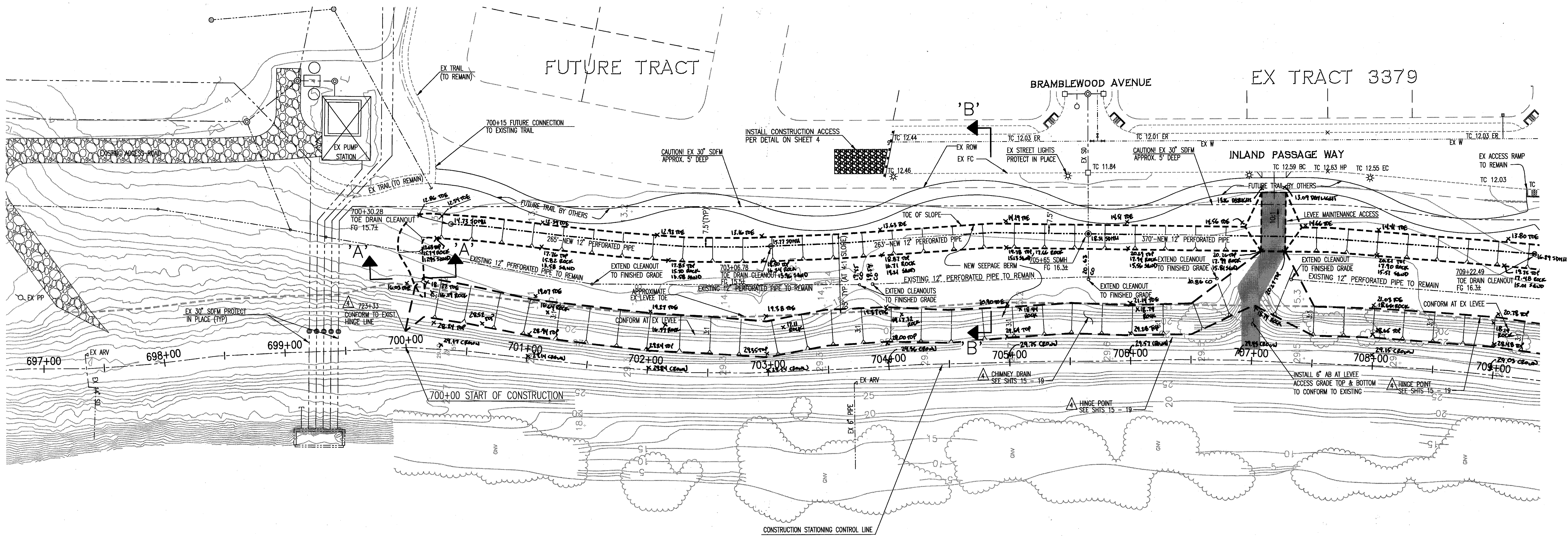
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ENGINEERS PLANNERS SURVEYORS
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RECLAMATION DISTRICT NO. 17
ELEMENT VIa-2
LANDSCAPE DEMOLITION EXHIBIT

SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE
5	RECORD DRAWING	1-28-10
4	THRU SEEPAGE REV. SHTS. 1, 4, 9, & 10. ADDED SHTS. 15-19	4/16/10
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DATE:	APRIL 2009	PROJECT NO.:	1316
SCALE:	1" = 40'-0"	SHT:	8
DRAWN BY:	VLW	OF:	19
DESIGNED BY:			
CHECKED BY:	TWH		



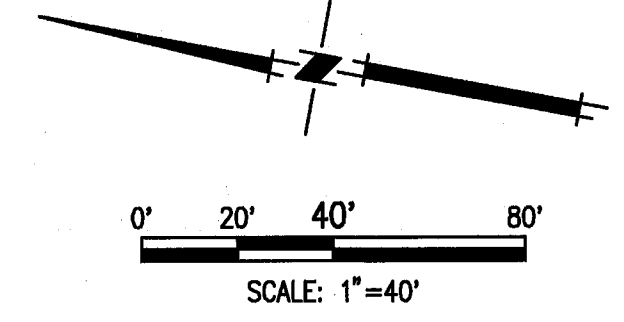
SAN JOAQUIN RIVER

NOTE:
 FOR 12" PERFORATED PIPE, SEE TOE DRAIN
 DETAIL ON SHEET 4 AND TOE DRAIN PROFILE
 ON SHEET 11.

WARNING • CAUTION
 EXISTING UNDERGROUND UTILITIES
 CONTACT : UNDERGROUND SERVICE ALERT
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BY: *J. Steven Lichliter* 9-30-10
 J. STEVEN LICHLITER RCE NO. 41637
 EXP. 12/31/11
 EXP. 12/31/11



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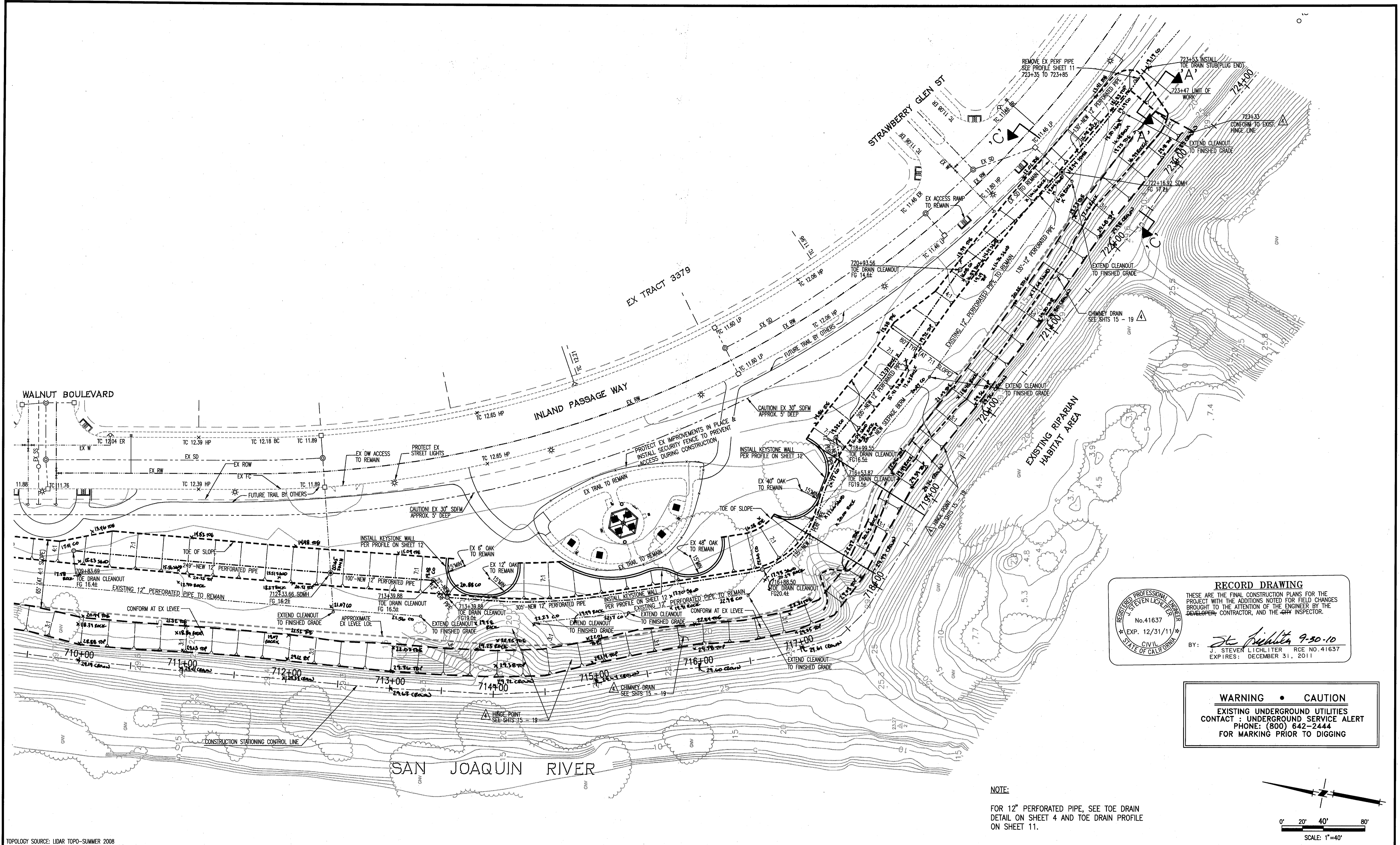
RECLAMATION DISTRICT NO. 17
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 SEEPAGE BERM PLAN VIEW

SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE
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DATE: JULY 2009
 SCALE: _____
 DRAWN BY: EUN
 DESIGNED BY: CWG
 CHECKED BY: JSL

PROJECT NO. 25126.03
 SHT 9a
 OF 19

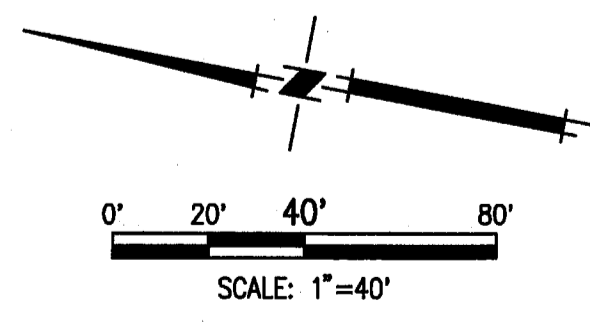


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 J. STEVEN LICHTER RCE NO. 41637
 EXP. 12/31/11
 EXPIRES: DECEMBER 31, 2011

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 DETAIL ON SHEET 4 AND TOE DRAIN PROFILE
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TOPOLOGY SOURCE: LIDAR TOPO-SUMMER 2008

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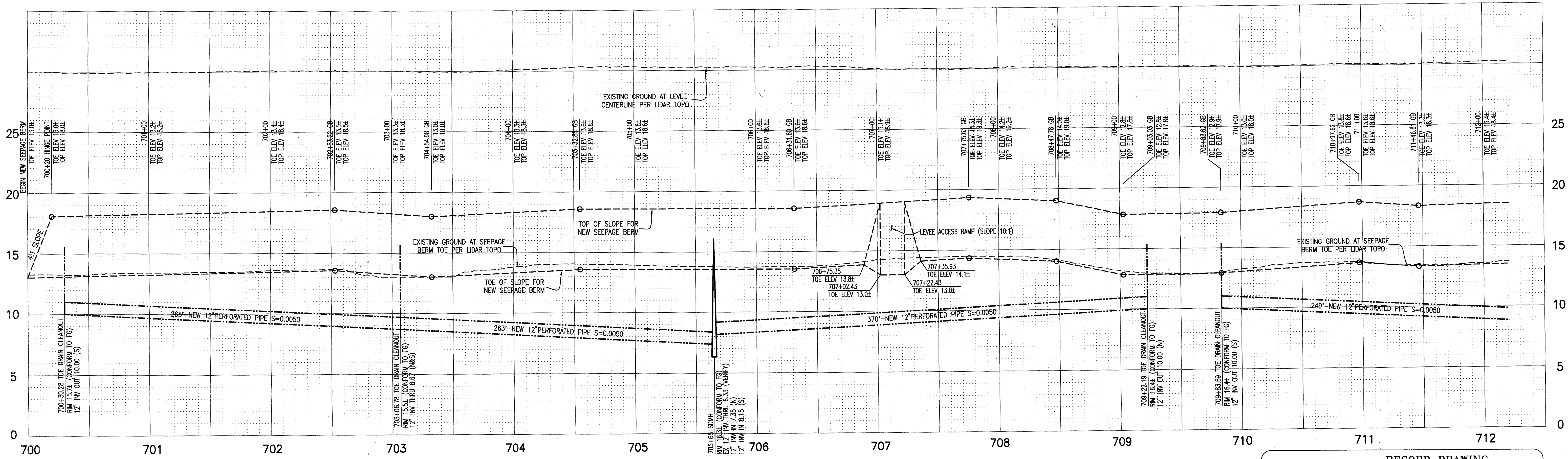
RECLAMATION DISTRICT NO. 17
ELEMENT VI-A.2
SEEPAGE BERM PLAN VIEW

SAN JOAQUIN COUNTY CALIFORNIA

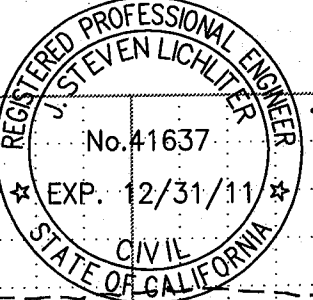
NO.	REVISION	DATE	CHECKED BY:	DESIGNED BY:	DRAWN BY:	SCALE:	DATE:	PROJECT NO.
6	RECORD REVISIONS	9-28-10	JSL	EJN	EJN	1"=40'	JULY 2009	25126.03
5	REV THRU SEEPAGE ELEV.	4/26/10						
4	THRU SEEPAGE; REV. SHTS. 1, 4, 9, & 10. ADDED SHTS. 15-19	4/16/10						
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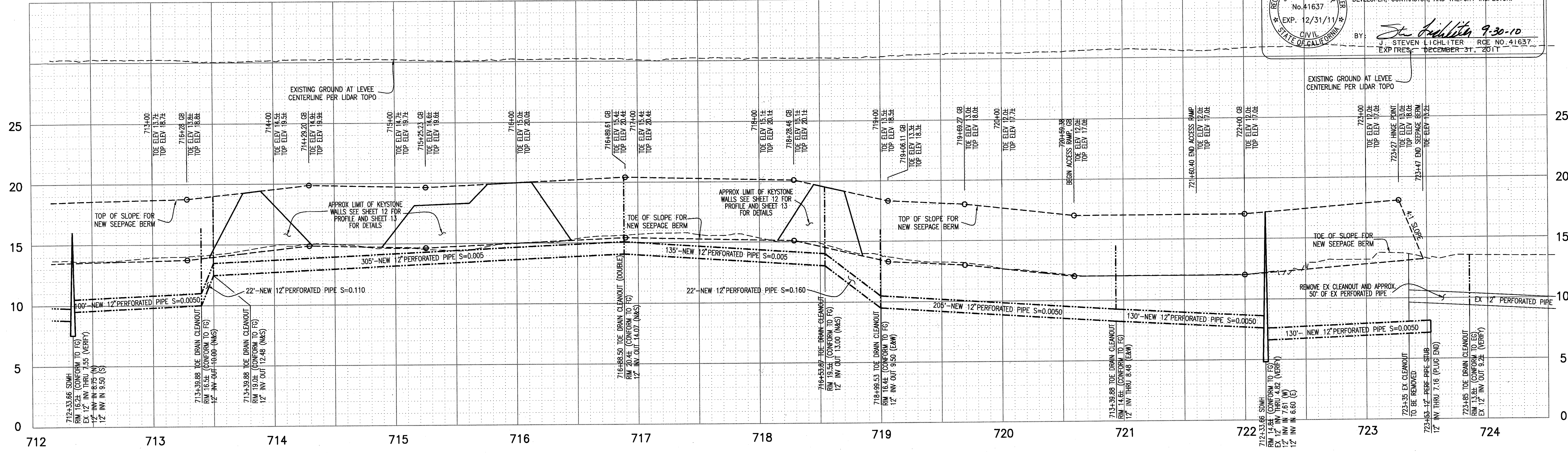
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 DRAWN BY: EJN
 DESIGNED BY: CWG
 CHECKED BY: JSL

PROJECT NO. 25126.03
 SHEET 10a OF 19



RECORD DRAWING
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.


 BY: *J. Steven Lichter* 9.30.10
 J. STEVEN LICHTER, P.E. NO. 41637
 EXP. 12/31/11
 EXP. 12/31/11



PLANS REVIEWED AND APPROVED BY:

K S N
KJELSDEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Offices: (209) 946-0268
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17 MOSSDALE, TRACT ELEMENT VI-A.2 DATED MARCH 27, 2009

ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

MACKAY & SOMPS
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690

J. Steven Lichter
 No. 41637
 Exp. 12/31/09
 State of California

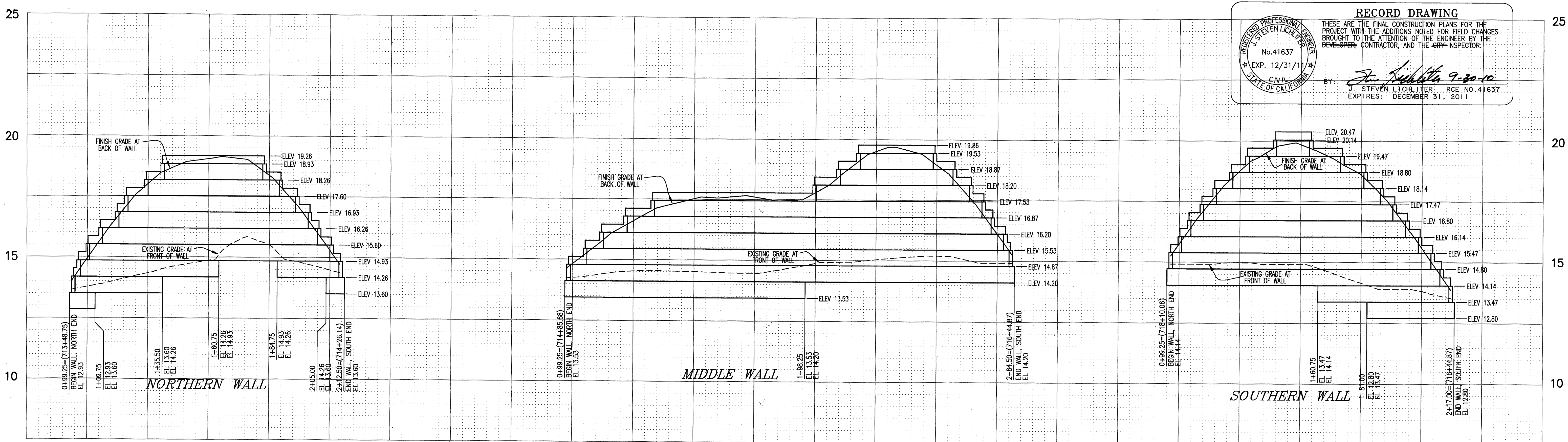
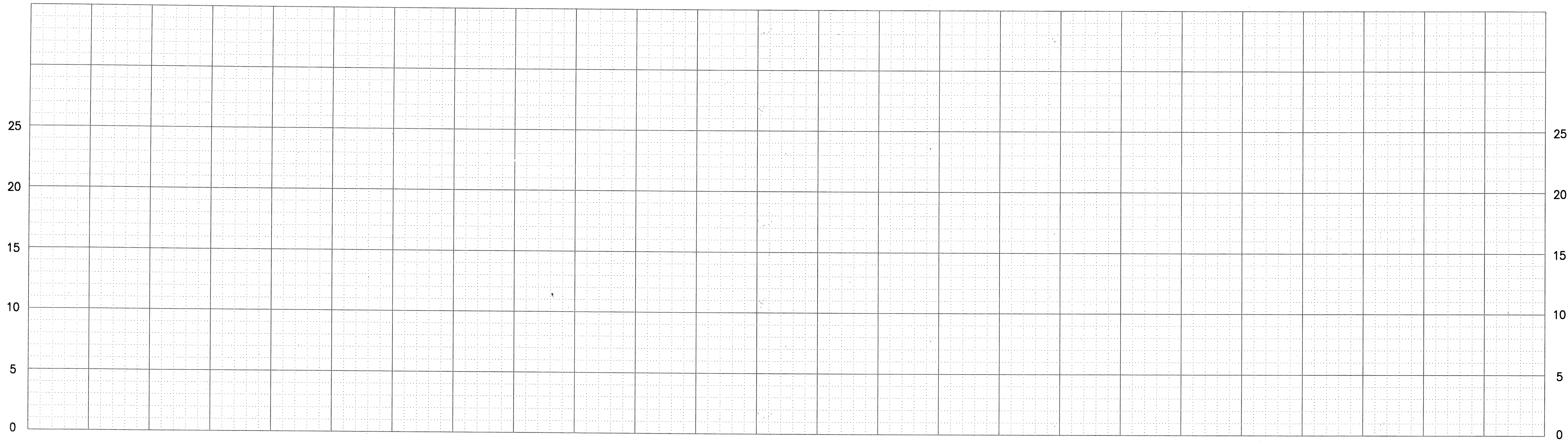
RECLAMATION DISTRICT NO. 17
ELEMENT VI-A.2
 SEEPAGE BERM PROFILE VIEW

SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE
6	RECORD DETAILS	9/28/10
5	REV THRU SEEPAGE ELEV.	4/28/10
4	THRU SEEPAGE REV. SHTS. 1, 4, 9, & 10. ADDED SHTS. 15-19	4/16/10
3	EXTEND DRAINAGE LAYER TO BERM SURFACE	10/18/09
2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

DATE: JULY 2009
 SCALE: _____
 DRAWN BY: EUN
 DESIGNED BY: CWG
 CHECKED BY: JSL

PROJECT NO. 25126.03
 SHT 11 OF 19



RECORD DRAWING

THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE INSPECTOR.

BY: *J. Steven Lichliter* 9-20-10
 J. STEVEN LICHLITER RCE NO. 41637
 EXPIRES: DECEMBER 31, 2011

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RECLAMATION DISTRICT NO. 17
ELEMENT VI-A.2
 SELECTED CROSS-SECTIONS

SAN JOAQUIN COUNTY CALIFORNIA

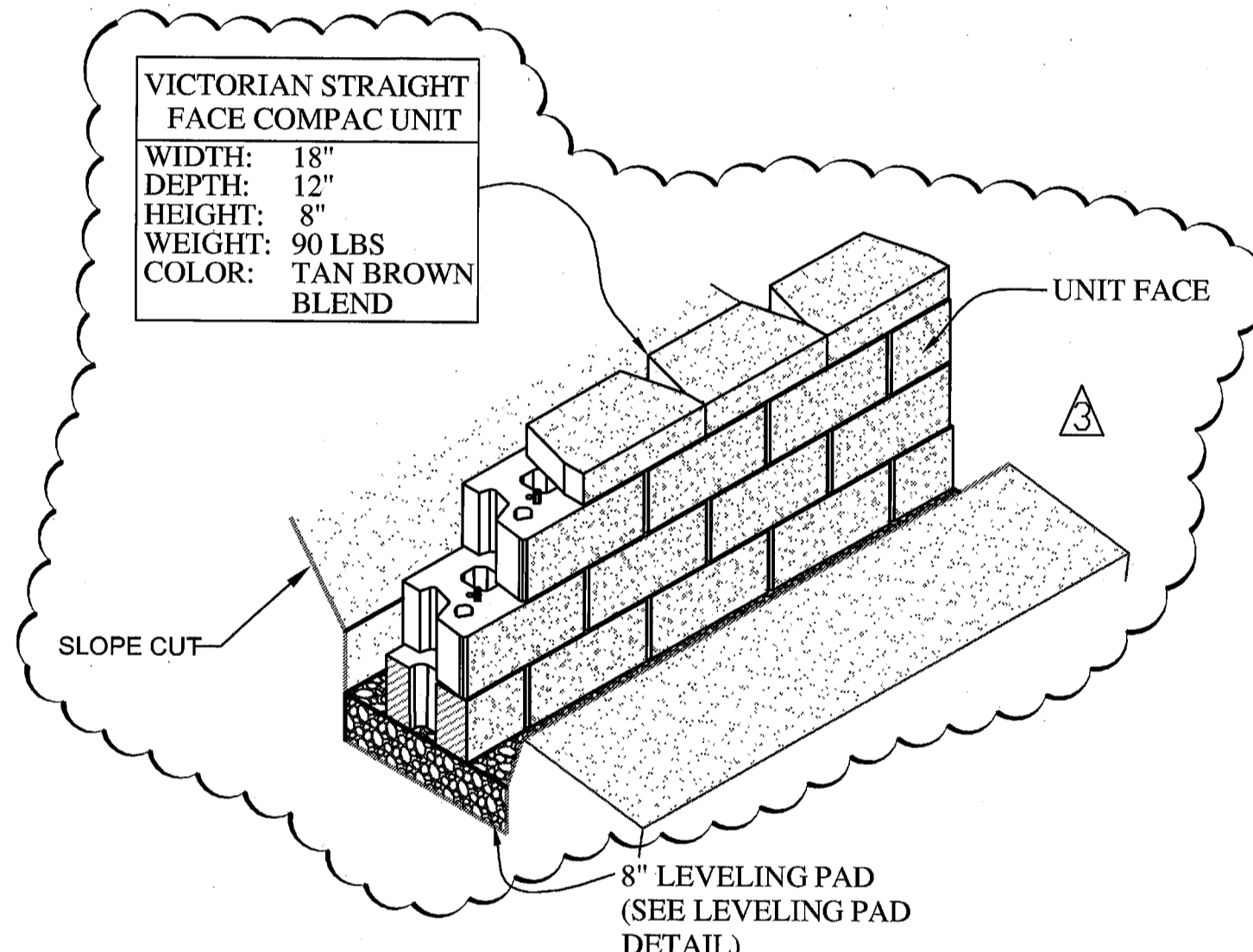
6	RECORD DRAWINGS	9 25 10	DATE: JULY 2009	PROJECT NO.
5	REV THRU SEEPAGE ELEV.	4/26/10	SCALE:	25126.03
4	THRU SEEPAGE REV. SHTS. 1, 4, 9, & 10. ADDED SHTS. 15-19	4/16/10	DRAWN BY: EUN	SHT 12
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2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09	CHECKED BY: JSL	
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09		

GENERAL NOTES:

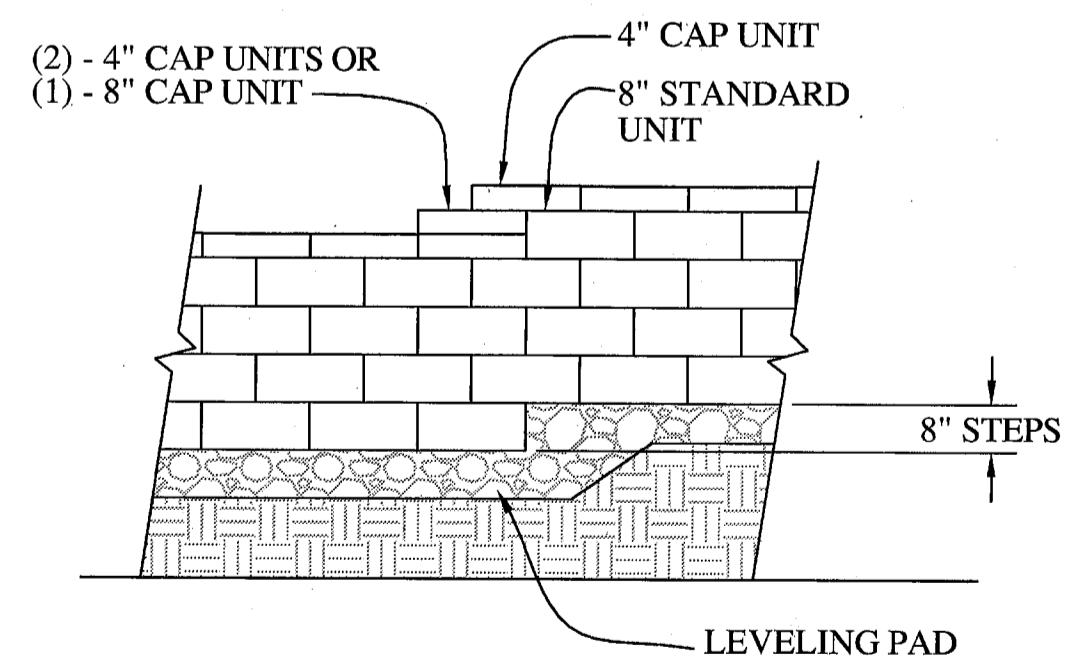
- ALL MODULAR WALL UNITS SHALL CONSIST OF KEYSTONE COMPAC PINNED UNITS (18" X 8" X 12"), WHICH SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C-90 AND ASTM C-140. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 POUNDS PER SQUARE INCH (PSI) WITH A MAXIMUM MOISTURE ABSORPTION OF 13 PERCENT, AS FOR A NORMAL WEIGHT CONCRETE.
- THE FIBERGLASS PINS SHALL BE 1/2-INCH-DIAMETER RODS. THE FLEXURAL STRENGTH FOR THE CONNECTING PINS SHALL BE AT LEAST 128,000 PSI WITH A SHORT BEAM SHEAR OF 6,400 PSI.
- THE ADHESIVE SHALL BE KEYSTONE KAPSEAL™ CONSTRUCTION MATERIAL OR APPROVED EQUIVALENT IN CONFORMANCE WITH ASTM 2339.
- LEVELING PAD SHALL CONSIST OF COMPACTED CRUSHED STONE OR CLASS 2 AGGREGATE BASE.
- FILLS FOR THE MODULAR UNITS SHALL BE FREE DRAINING CRUSHED ROCK OR GRAVEL, 3/8" TO 1/2", WITH NO MORE THAN 5 PERCENT PASSING THE NO. 50 SIEVE AND IN ACCORDANCE WITH ASTM D448. GRADATION OF THE UNIT FILL SHOULD BE APPROVED BY THE GEOTECHNICAL ENGINEER. PEA GRAVEL IS NOT ALLOWED.
- REINFORCED BACKFILL SOILS SHALL BE CONSISTENT WITH SEEPAGE BERM MATERIAL AS SHOWN ON PROJECT GRADING PLAN.
- GEOGRID REINFORCEMENT SHALL CONSIST OF STRATAGRID SG150 (AS INDICATED ON SHEET 12), OR APPROVED EQUIVALENT.
- WALL DRAINAGE SHOULD BE PROVIDED USING A 4-INCH-DIAMETER PVC PERFORATED PIPE (SCHEDULE SDR 35) EMBEDDED IN CLASS 2 PERMEABLE MATERIAL OR FREE-DRAINING GRAVEL WITH THE FREE-DRAINING GRAVEL SURROUNDED BY SYNTHETIC FILTER FABRIC. THE WIDTH OF THE DRAIN BLANKET SHOULD BE AT LEAST 12 INCHES. THE DRAIN BLANKET SHOULD EXTEND TO APPROXIMATELY 18 INCHES BELOW THE FINISHED GRADES. COLLECTOR PERFORATED PIPES SHOULD BE DIRECTED TO THE 12 INCH TOE DRAIN PIPE, OR OTHER OUTLET APPROVED BY THE CIVIL ENGINEER.

CONSTRUCTION NOTES:

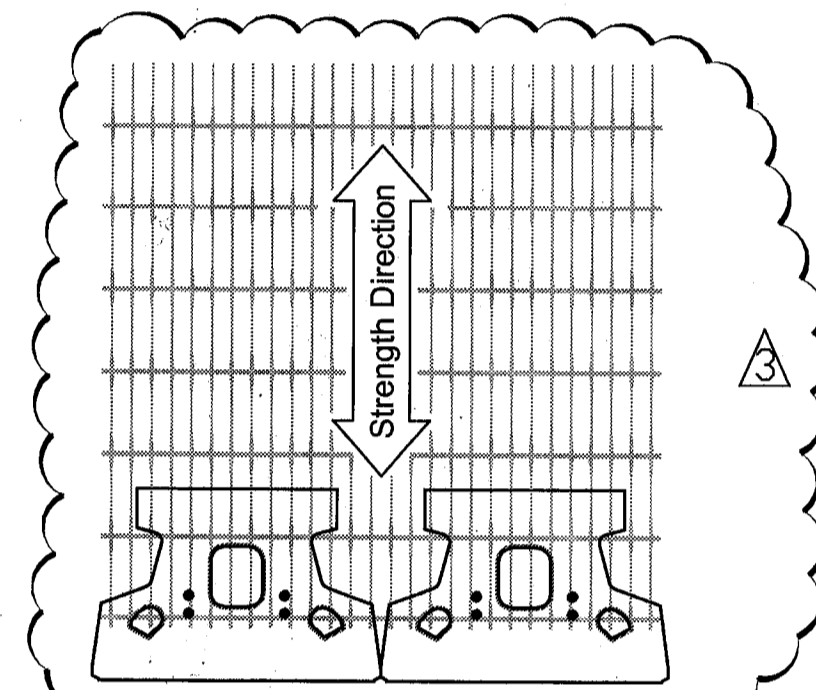
- REFER TO CIVIL GRADING PLAN FOR LOCATION AND MINIMUM HEIGHTS OF ALL WALLS.
- CONSTRUCT WALL IN ACCORDANCE WITH THESE PLANS, THE KEYSTONE CONSTRUCTION MANUAL AND THE NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA) DESIGN MANUAL FOR SEGMENTAL RETAINING WALLS. WHERE CONFLICTS OCCUR, THESE PLANS SHALL GOVERN.
- WHERE UNSUITABLE WALL SUBGRADE SOILS EXISTS, EXCAVATE THE UNSUITABLE SOIL BELOW THE WALL AND REINFORCED SOIL VOLUME FOR THE FULL LENGTH OF THE SOIL REINFORCEMENT AND TO A DEPTH AS DIRECTED BY THE SOIL ENGINEER. EXCAVATED UNSUITABLE MATERIAL SHALL BE REPLACED AND COMPACTED TO 90% COMPACTION AT A MINIMUM MOISTURE CONTENT OF 2 PERCENTAGE POINTS ABOVE OPTIMUM PER ASTM D-1557, OR AS DIRECTED BY THE SOILS ENGINEER.
- COMPACTED SOIL BACKFILL, WALL SUBGRADE, AND REINFORCED SOIL BACKFILL SHALL MEET THE REQUIREMENTS PRESENTED IN THE GEOTECHNICAL REPORT TITLE UNDER-SEEPAGE EVALUATION, DATED JULY 20, 2009 FOR THESE MATERIALS.
- GRAVEL LEVELING PAD SHALL BE COMPACTED TO 90% COMPACTION AT A MINIMUM MOISTURE CONTENT OF OPTIMUM PER ASTM D-1557 OR AS DIRECTED BY THE SOILS ENGINEER.
- MAINTAIN A MINIMUM 8 INCH SOIL COVER OVER TOP LAYER OF GEOGRID.
- ALL WORK SHOULD BE OBSERVED BY THE SOILS ENGINEER'S REPRESENTATIVE.



1 CLASSIC UNIT/BASE PAD ISOMETRIC VIEW
NO SCALE

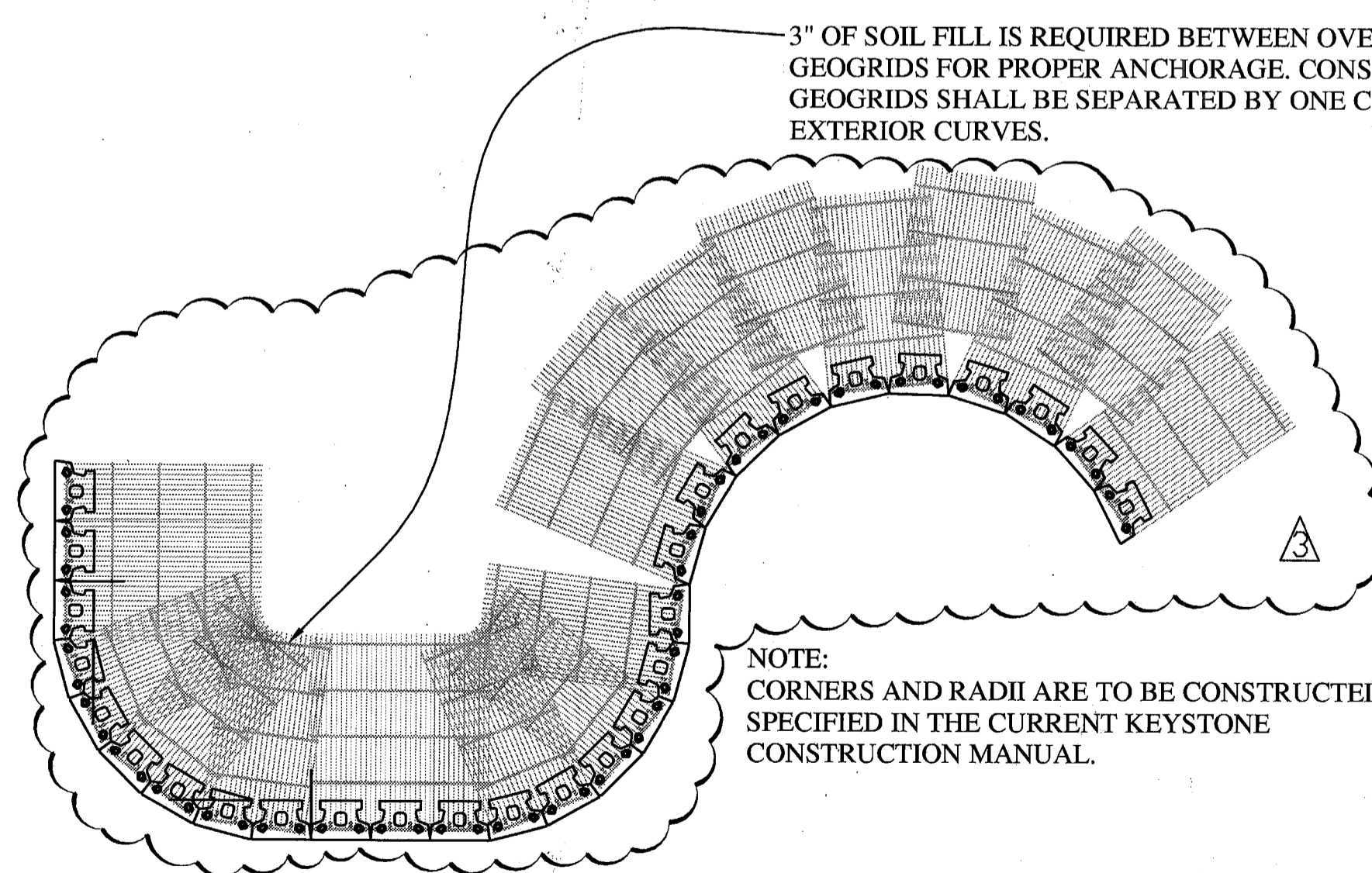


2 TOP OF WALL STEPS
NO SCALE

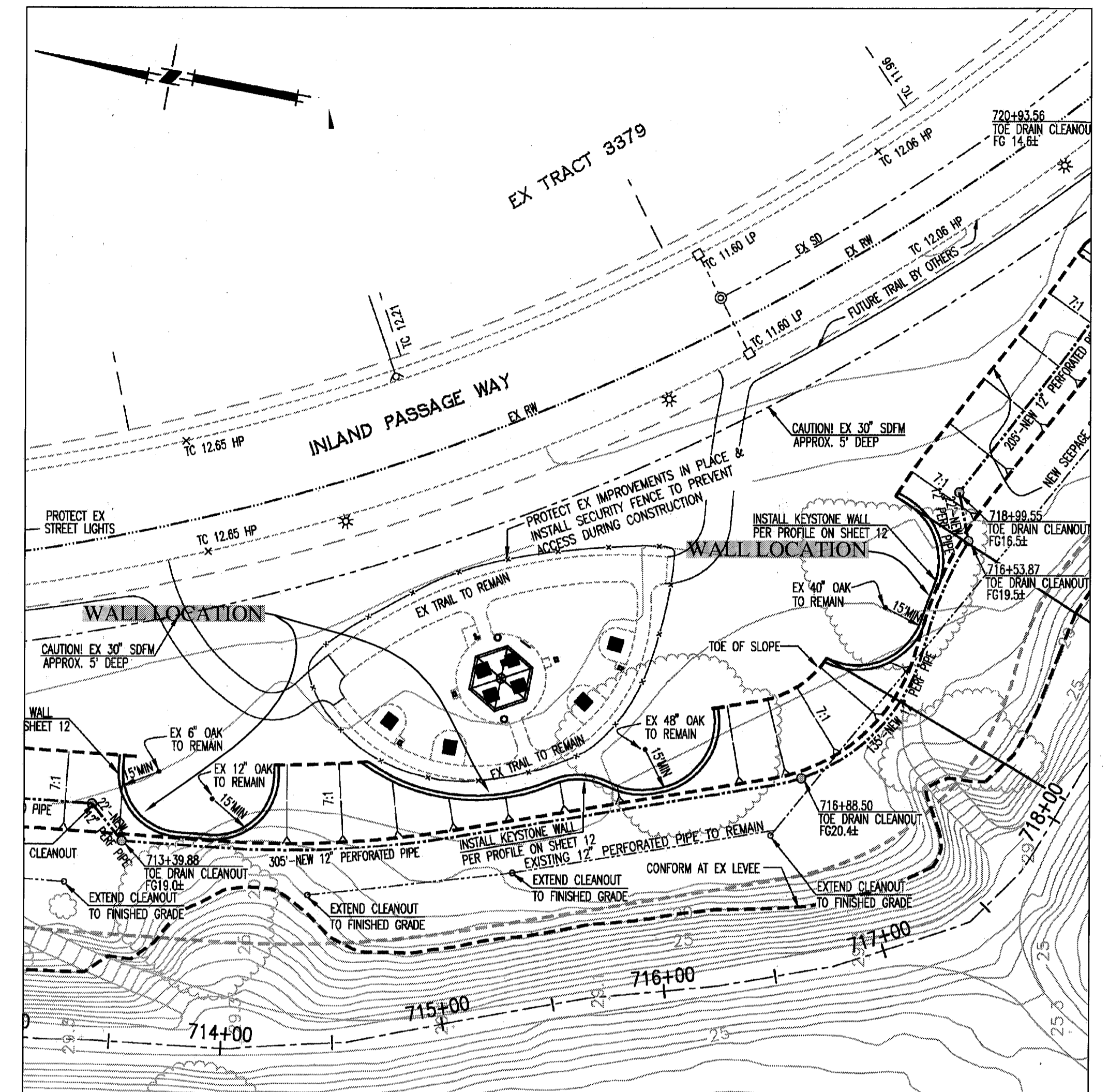


3 GRID & PIN CONNECTION
NO SCALE

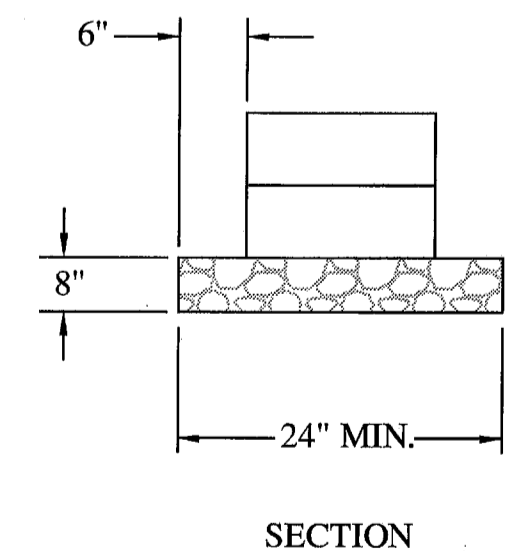
- PLACEMENT SEQUENCE:**
- PLACE GEOGRID OVER THE FIBERGLASS PINS AND EXTEND OVER LEVEL BACKFILL BEHIND FACING UNITS.
 - PLACE NEXT UNIT.
 - PULL GRID TAUGHT AND BACKFILL (STAKE AS REQUIRED TO MAINTAIN GRID TENSION)



4 GEOGRID PLACEMENT ON CURVES (PLAN VIEW)
NO SCALE



FOR WALL LOCATION SEE SHEETS 8 AND 9
NO SCALE



5 LEVELING PAD DETAIL
NO SCALE

RECORD DRAWING

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REGISTERED PROFESSIONAL ENGINEER
J. STEVEN LICHLITER
No. 41637
EXP. 12/31/11
CIVIL
STATE OF CALIFORNIA

BY: *J. Steven Lichliter* 9-20-10
J. STEVEN LICHLITER RCE NO. 41637
EXPIRES: DECEMBER 31, 2011

NOTE: DESIGN SHOWN ON THIS SHEET PREPARED BY ENGEQ, INC.

PLANS REVIEWED AND APPROVED BY:

KJELSDEN SINNOCK NEUDECK INC.
Consulting Engineers and Land Surveyors

Post Office Box 844
711 N. Pershing Avenue
Stockton, CA 95201-0844
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THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17 MOSSDALE TRACT ELEMENT VI-A.2 DATED MARCH 27, 2009

ENGEQ
INCORPORATED
EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

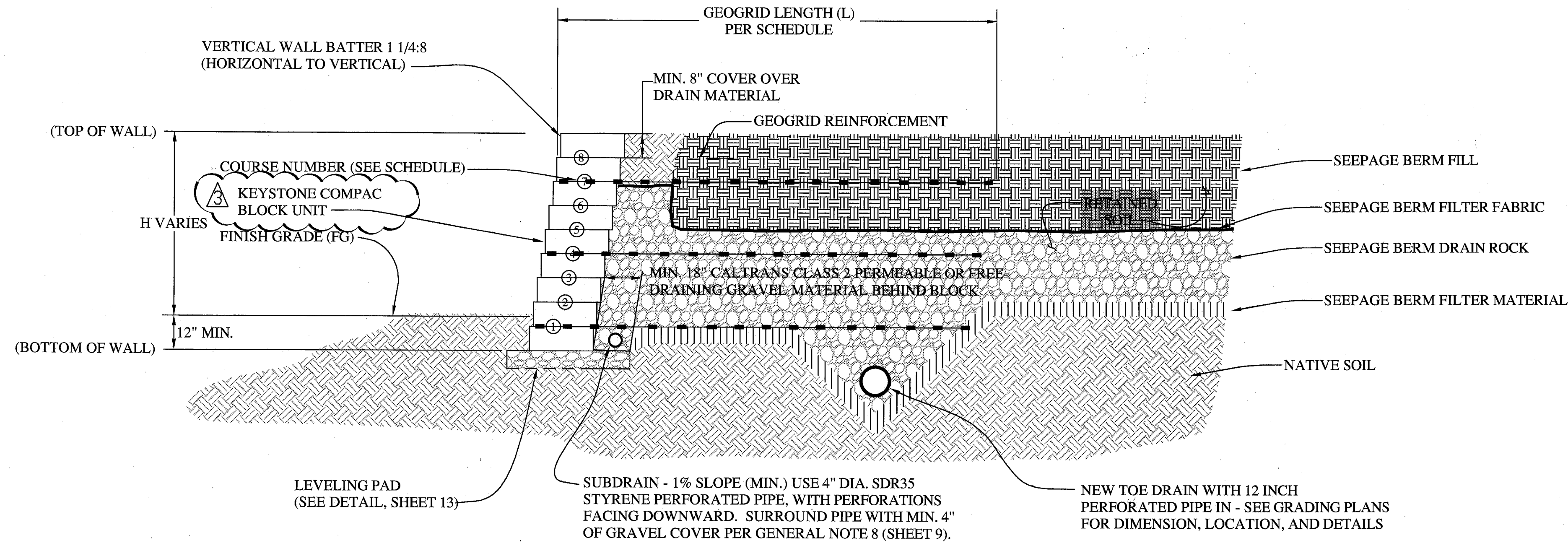
MACKAY & SOMPS
ENGINEERS PLANNERS SURVEYORS

5142 Franklin Drive, Suite B, Pleasanton, CA 94568 (925) 225-0690

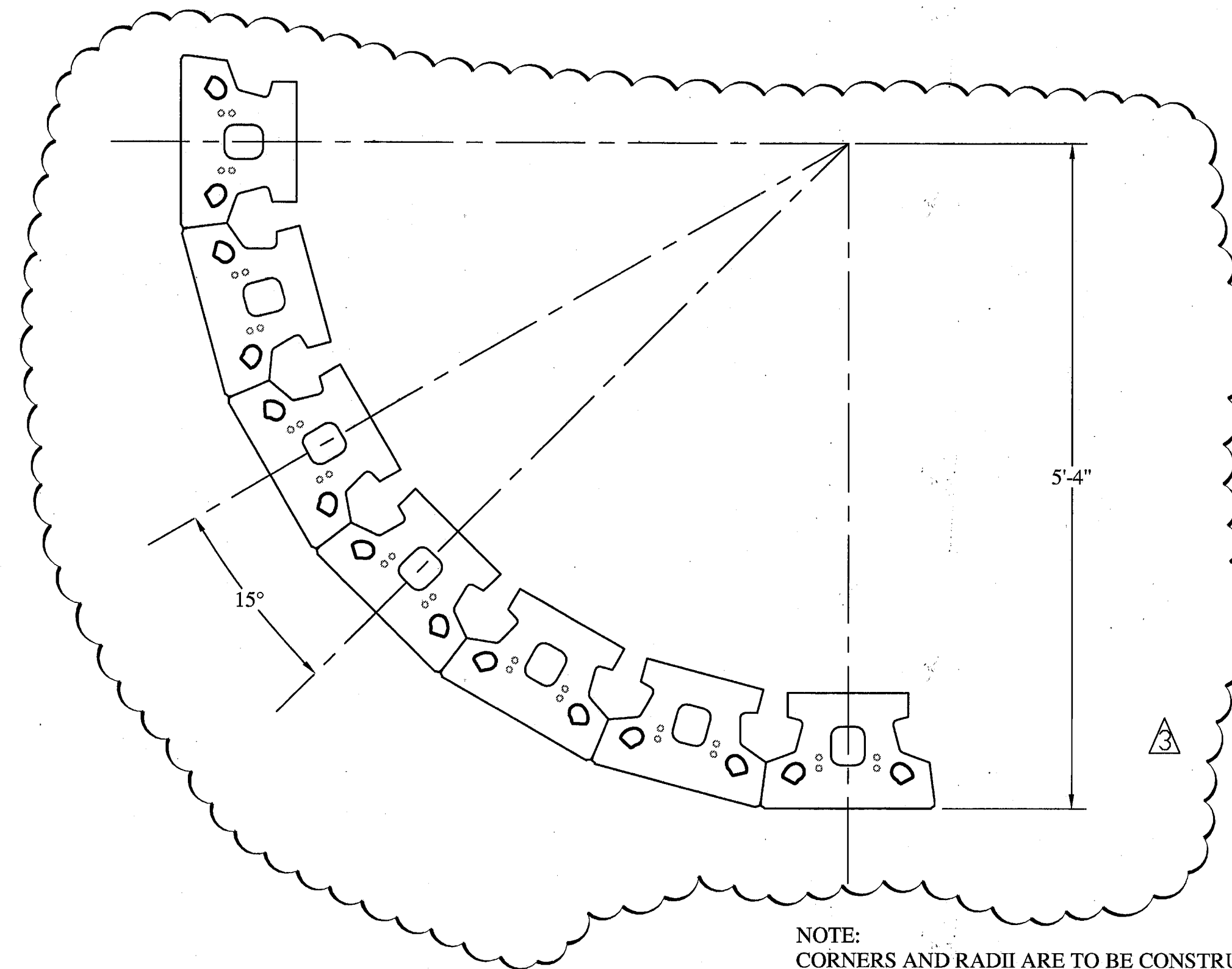
RECLAMATION DISTRICT NO. 17
ELEMENT VI-A.2
KEYSTONE WALL STRUCTURAL DESIGN

SAN JOAQUIN COUNTY CALIFORNIA

5	RECORD DRAWINGS	9/16/10	DATE: JULY 2009	PROJECT NO. 25126.03
4	THRU SEEPAGE: REV. SHTS. 1, 4, 9, & 10. ADDED SHTS. 15-19	4/16/10	SCALE:	SHT 13
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2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09	DESIGNED BY: CWG	
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09	CHECKED BY: JSL	



KEYSTONE RETAINING WALL TYPICAL SECTION
NO SCALE



NOTE: CORNERS AND RADII ARE TO BE CONSTRUCTED AS SPECIFIED IN THE CURRENT KEYSTONE CONSTRUCTION MANUAL.

6 RADIUS DETAIL (PLAN)
NO SCALE

GEOGRID SCHEDULE			
RETAINED HEIGHT "H"	GEOGRID LOCATION (COURSE NO.)	MINIMUM GEOGRID LENGTH "L" (FEET)	GEOGRID TYPE
1	N/A	N/A	N/A
2	N/A	N/A	N/A
3	1	4.0	STRATAGRID SG150
	4	4.0	STRATAGRID SG150
4	1	4.0	STRATAGRID SG150
	3	4.0	STRATAGRID SG150
	6	4.0	STRATAGRID SG150
5	1	4.0	STRATAGRID SG150
	4	4.0	STRATAGRID SG150
	7	4.5	STRATAGRID SG150
6	2	4.0	STRATAGRID SG150
	5	4.0	STRATAGRID SG150
	8	4.0	STRATAGRID SG150
	1	5.0	STRATAGRID SG150
	4	5.0	STRATAGRID SG150
	5	5.5	STRATAGRID SG150
	10	6.0	STRATAGRID SG150

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REGISTERED PROFESSIONAL ENGINEER
J. STEVEN LICHTNER
No. 41637
EXP. 12/31/11
CIVIL
STATE OF CALIFORNIA

BY: *J. Lichtner* 9-20-10
J. STEVEN LICHTNER RCE NO. 41637
EXPIRES: DECEMBER 31, 2011

PLANS REVIEWED AND APPROVED BY:

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Consulting Engineers and Land Surveyors

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J. STEVEN LICHTNER
No. 41637
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CIVIL
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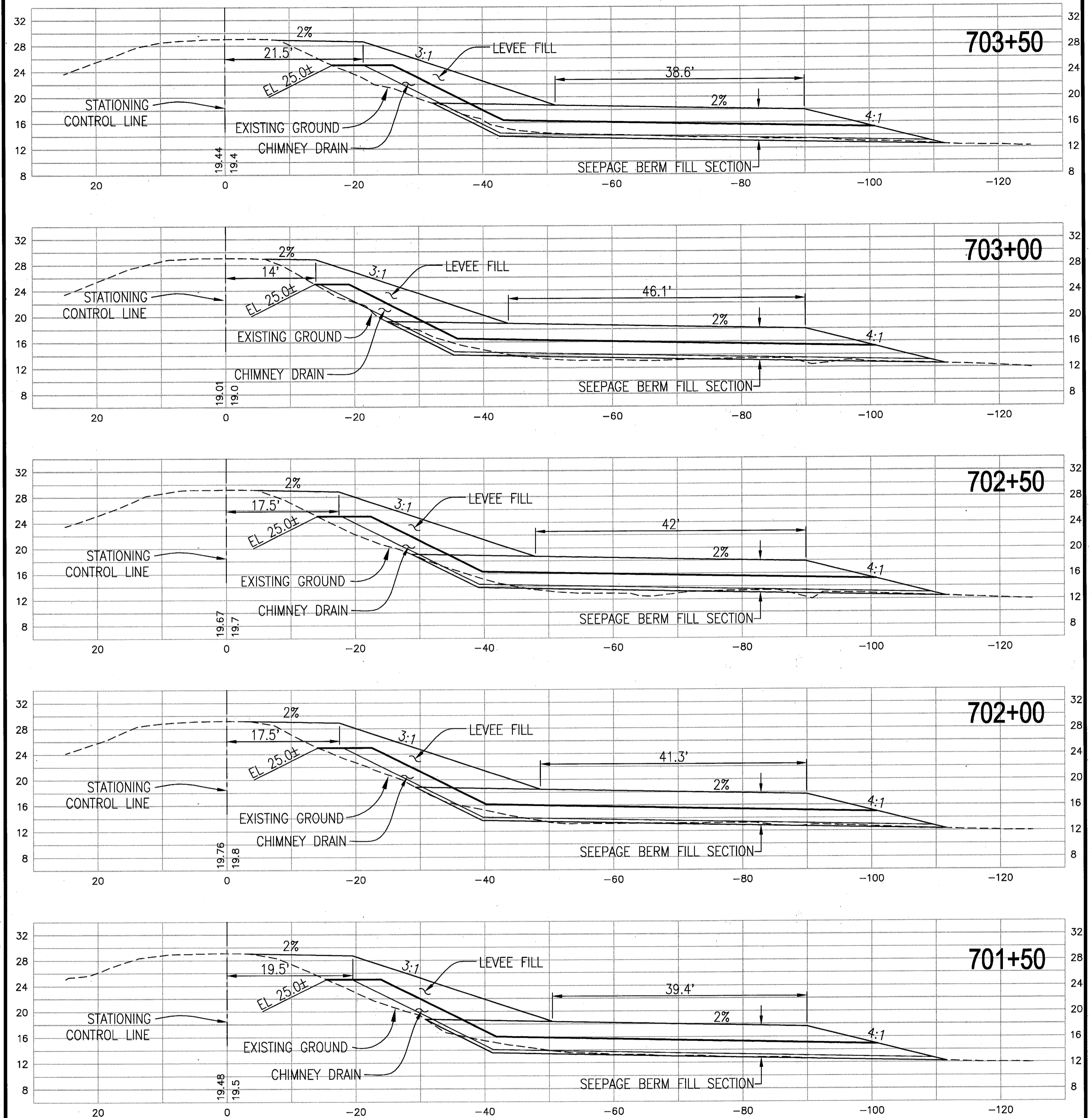
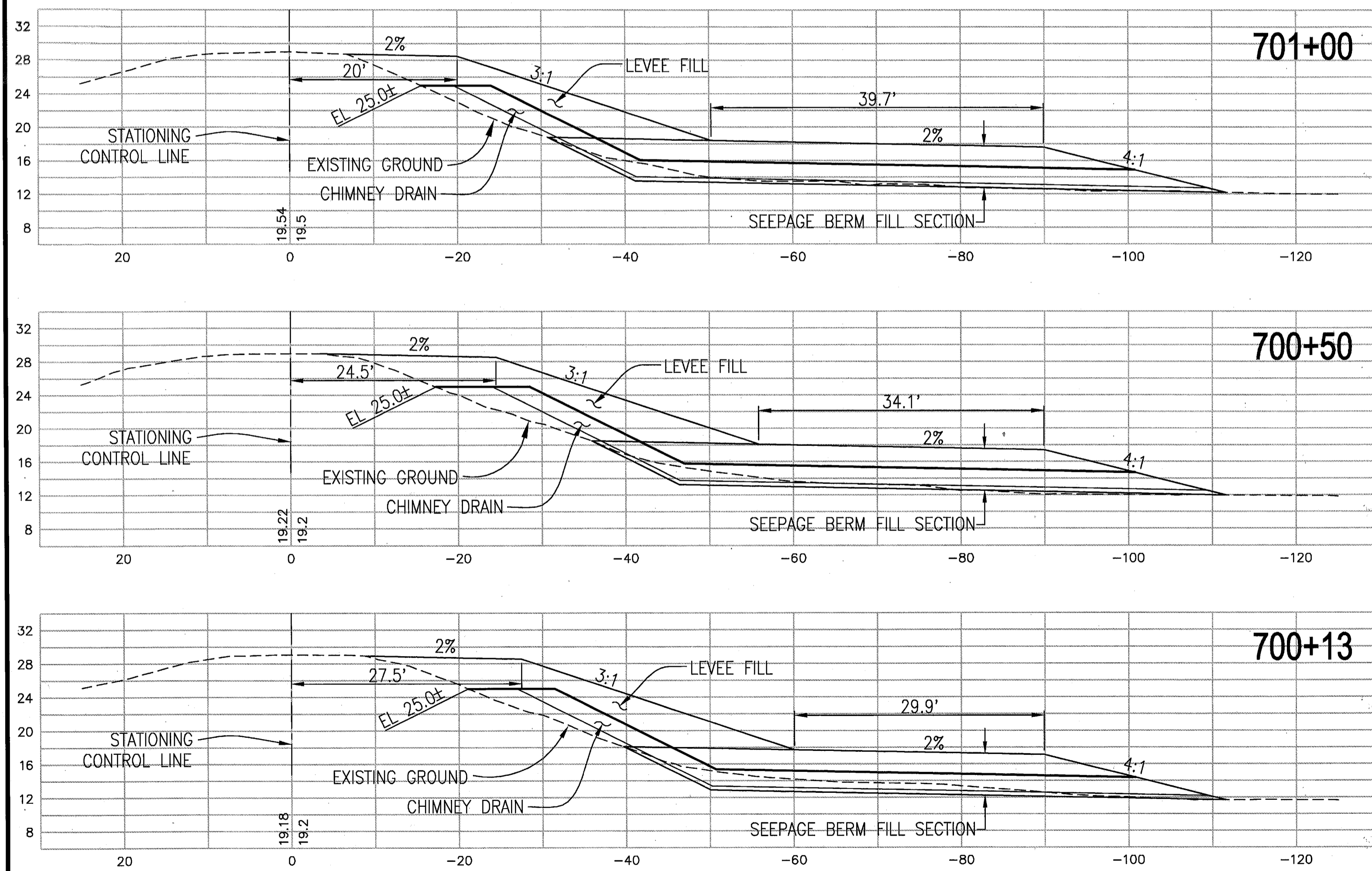
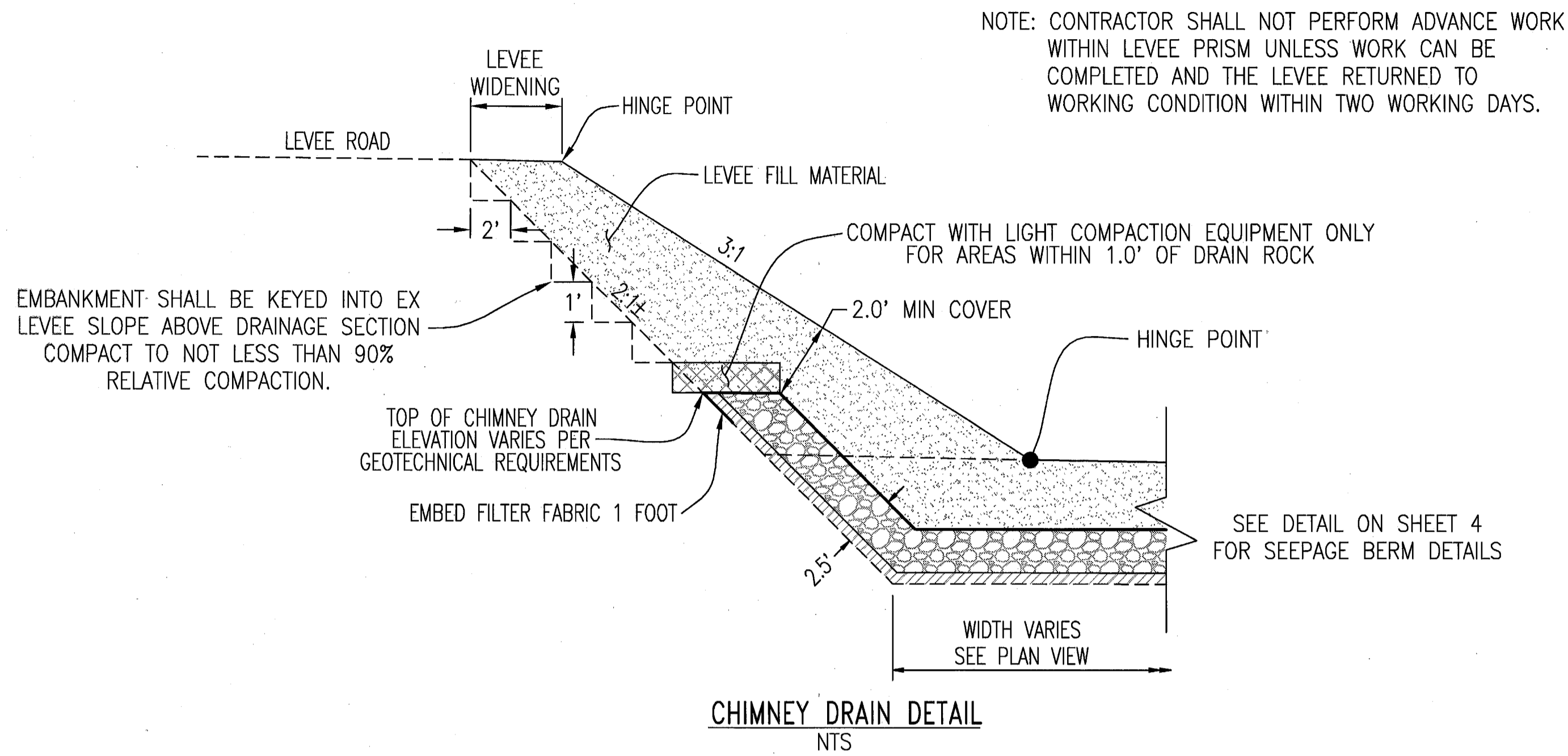
RECLAMATION DISTRICT NO. 17
ELEMENT VI-A.2
KEYSTONE WALL STRUCTURAL DESIGN

SAN JOAQUIN COUNTY CALIFORNIA

DATE: JULY 2009	PROJECT NO. 25126.03
SCALE:	SHT 14
DRAWN BY: E.J.N.	DF 19
DESIGNED BY: C.W.G.	
CHECKED BY: J.S.L.	

REVISIONS:

NO.	DESCRIPTION	DATE
5	RECORD DRAWINGS	9-26-10
4	THRU SEEPAGE REV. SHTS. 1, 4, 9, & 10. ADDED SHTS. 15-19	4/16/10
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1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/28/09



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BY: *J. Steven Lichtlter* 9-20-10
 J. STEVEN LICHTLTER RCE NO. 41637
 EXP. DEC. 31, 2011

PLANS REVIEWED AND APPROVED BY:

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ENGEO INCORPORATED
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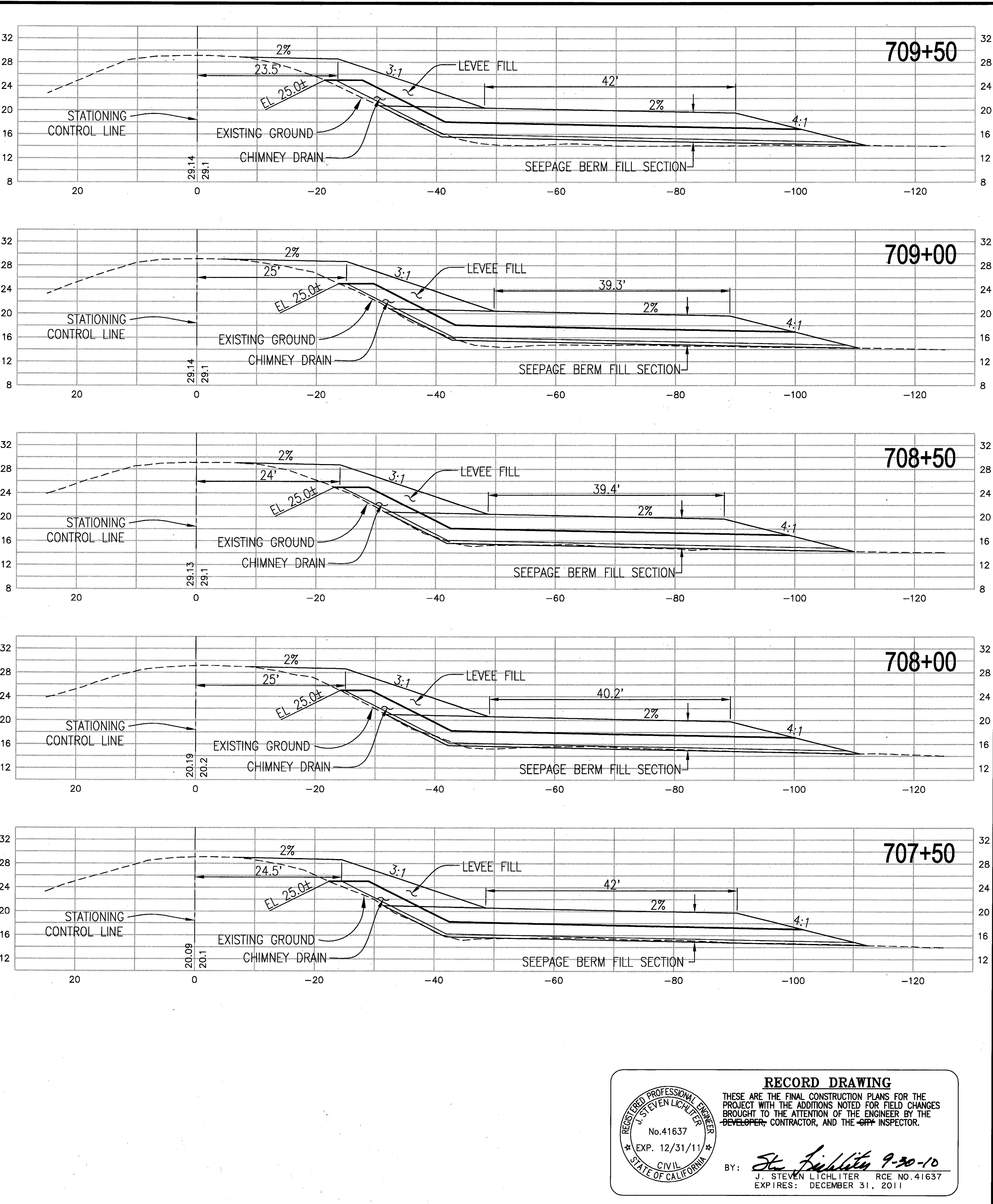
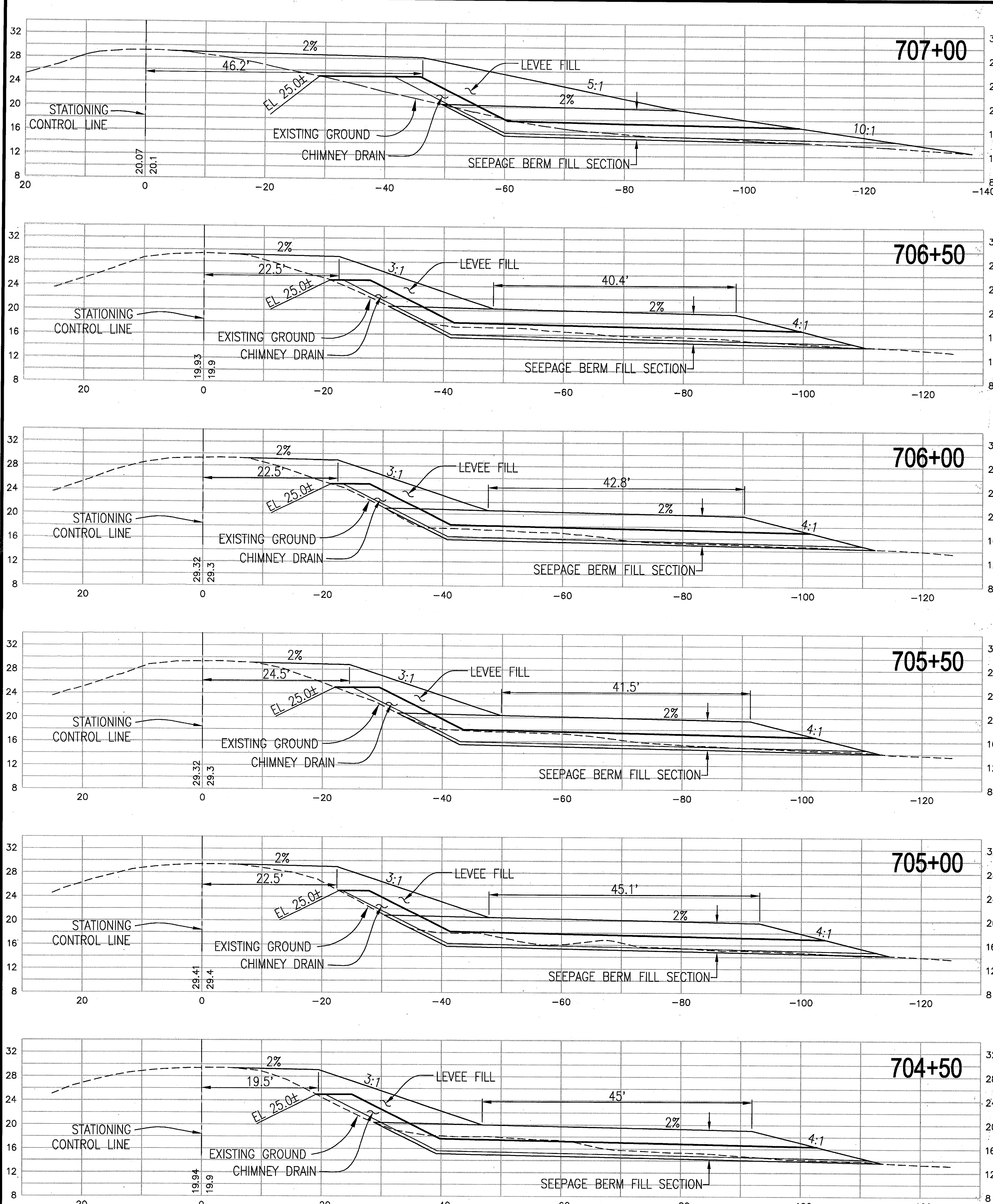
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 ELEMENT VI-A.2
 THRU SEEPAGE SECTIONS
 700+13 THRU 704+00

SAN JOAQUIN COUNTY CALIFORNIA

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DATE: JULY 2009
 SCALE:
 DRAWN BY: EUN
 DESIGNED BY: CWG
 CHECKED BY: JSL

PROJECT NO. 25126.03
 SHT 15 OF 19




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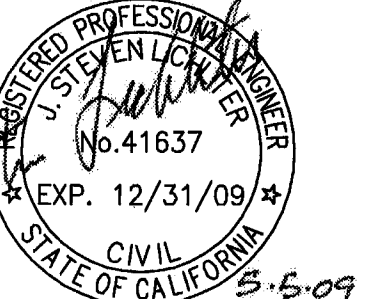
By: *St. Fiddler 9-30-10*
 J. STEVEN LICHLITER RCE NO. 41637
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 CIVIL ENGINEER
 STATE OF CALIFORNIA

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ENGeo
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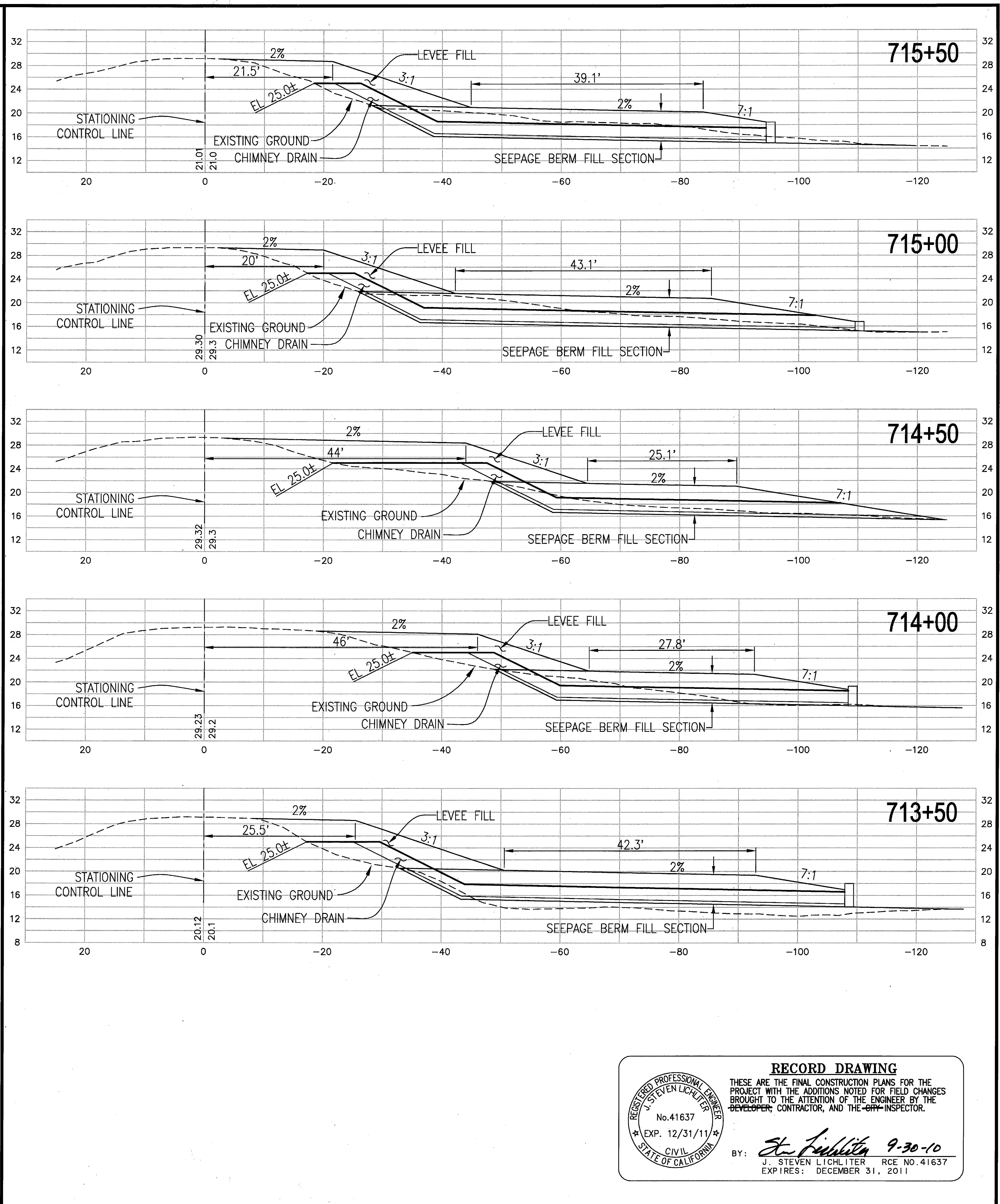
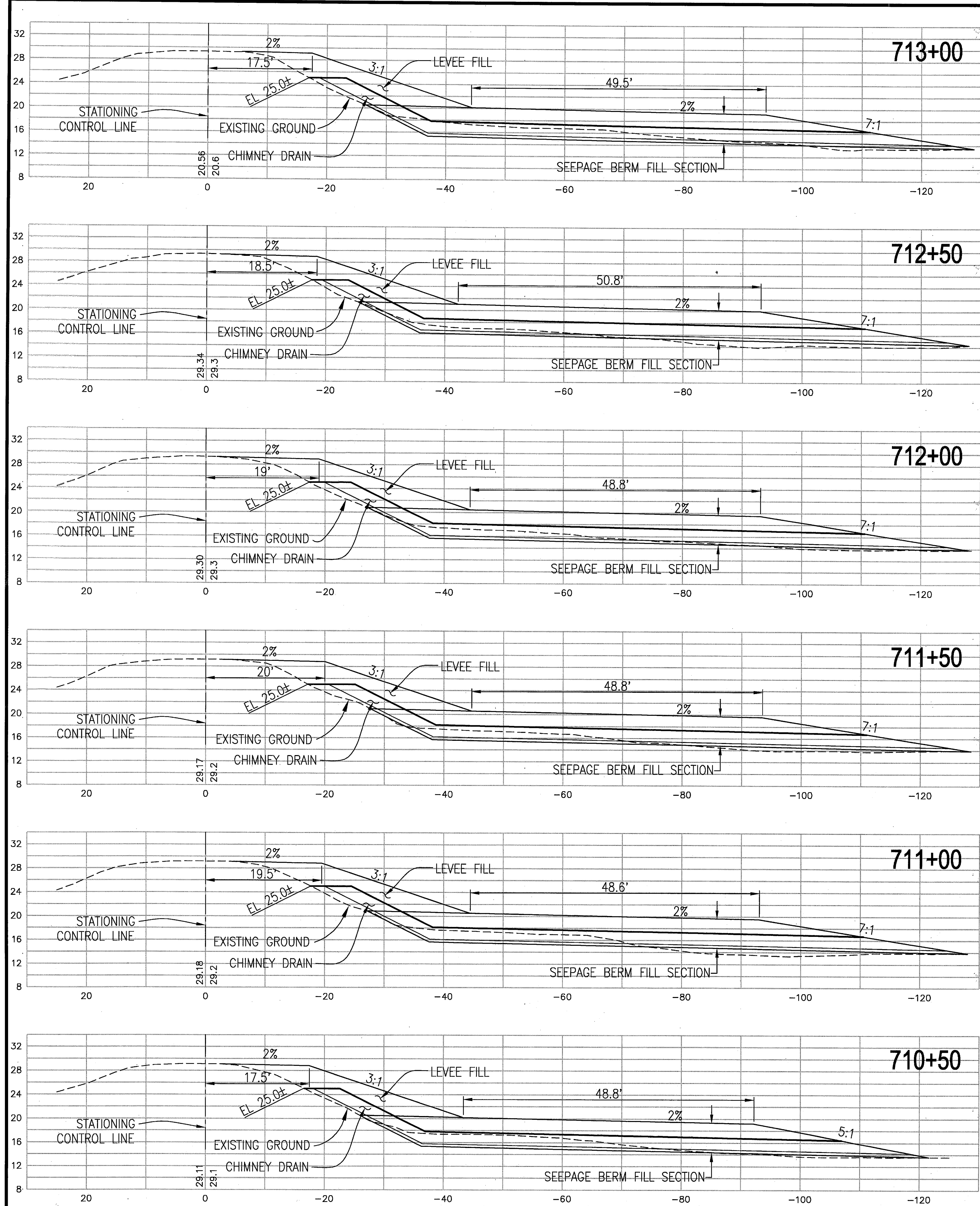
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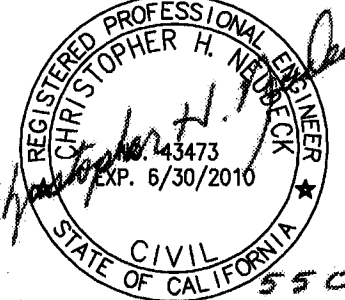
DATE: JULY 2009
 SCALE: _____
 DRAWN BY: EJM
 DESIGNED BY: CWG
 CHECKED BY: JSL

PROJECT NO. 25126.03
 SHEET 16 OF 19

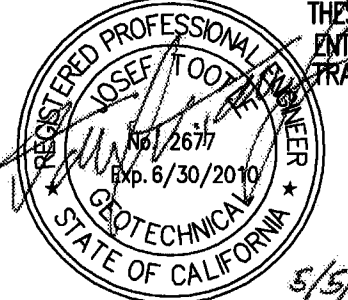


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 J. STEVEN LICHLITER RCE NO. 41637
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 CIVIL ENGINEER
 STATE OF CALIFORNIA

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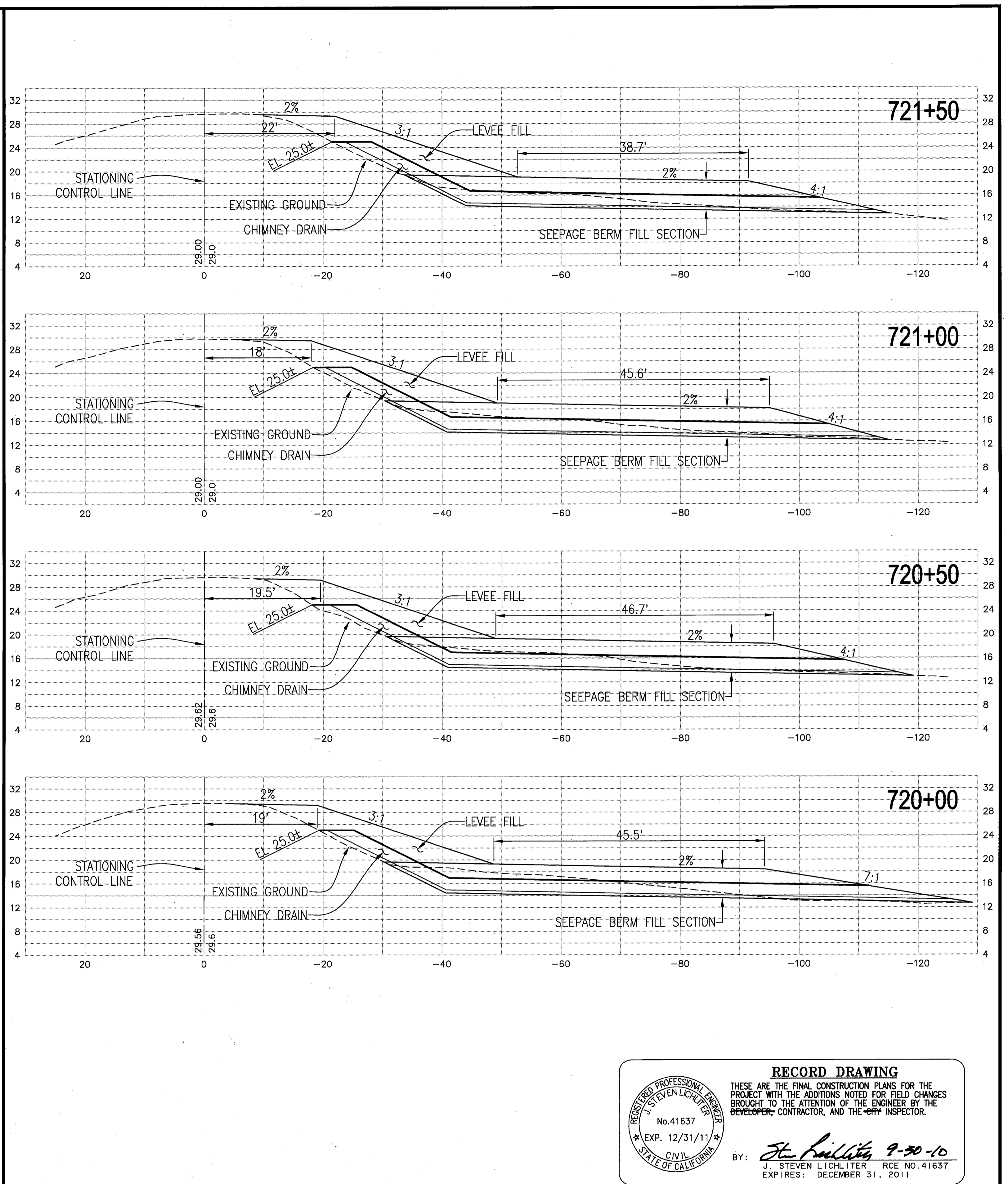
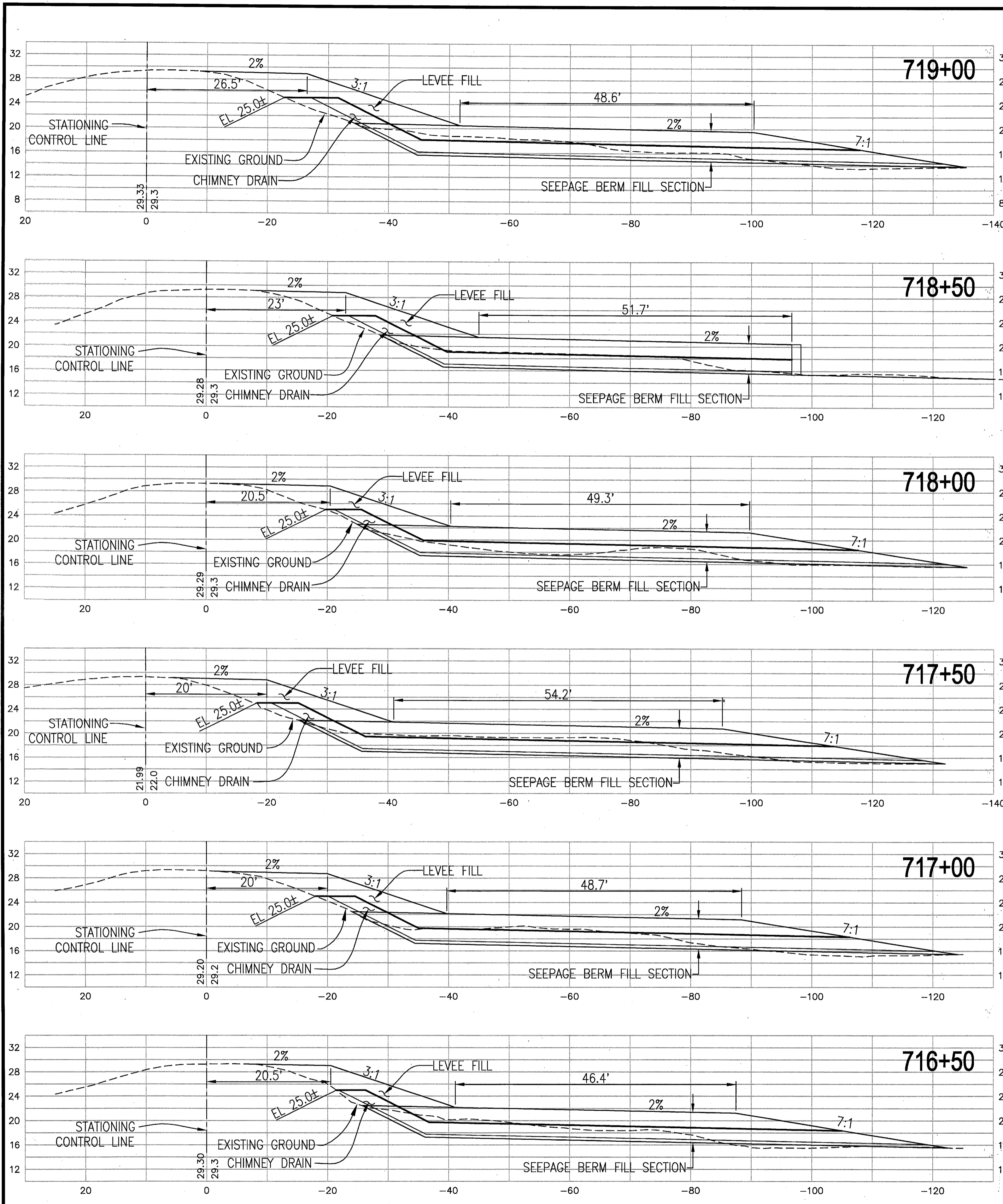
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 710+50 THRU 716+00
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NO.	REVISION	DATE
5	REV THRU SEEPAGE ELEV.	4/26/10
4	THRU SEEPAGE: REV. SHTS. 1, 4, 9, & 10. ADDED SHTS. 15-19	4/16/10
3	EXTEND DRAINAGE LAYER TO BERM SURFACE	10/6/09
2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09


DATE: JULY 2009
 SCALE: _____
 DRAWN BY: EJM
 DESIGNED BY: CWG
 CHECKED BY: JSL

PROJECT NO. 25126.03
 SHEET 17 OF 19



RECORD DRAWING

THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.


 BY: *J. Steven Lichliter* 9-30-10
 J. STEVEN LICHLITER RCE No. 41637
 EXPIRES: DECEMBER 31, 2011

PLANS REVIEWED AND APPROVED BY:

KSN KJELSDEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Fax: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17, MOSSDALE CONTRACT ELEMENT VI-A.2 DATED MARCH 27, 2009

ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

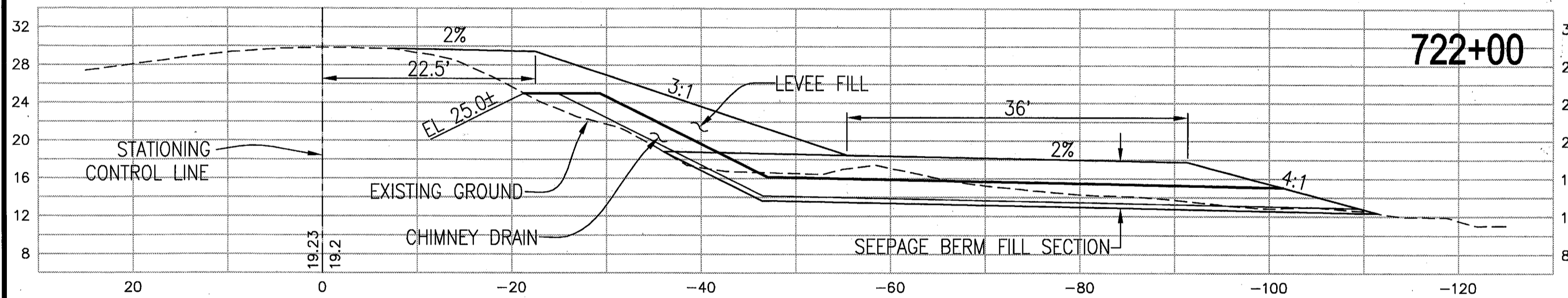
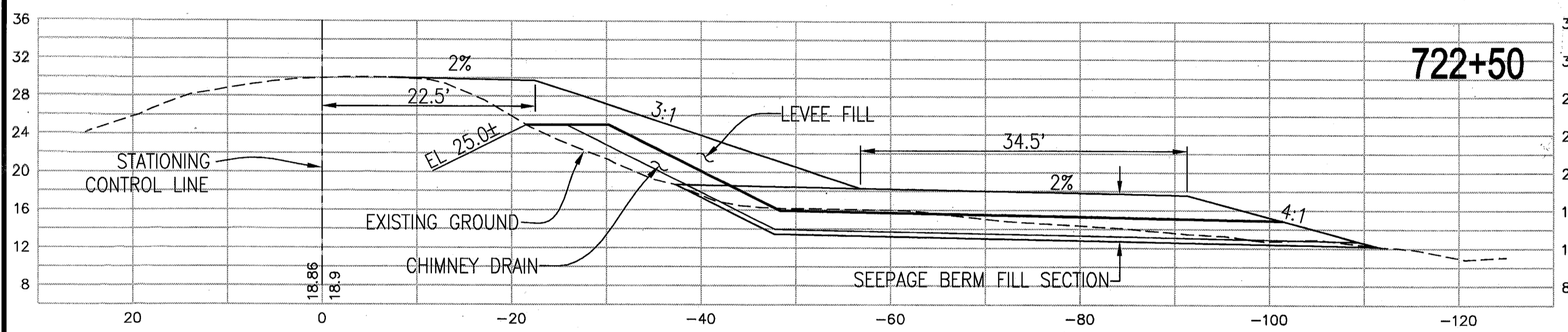
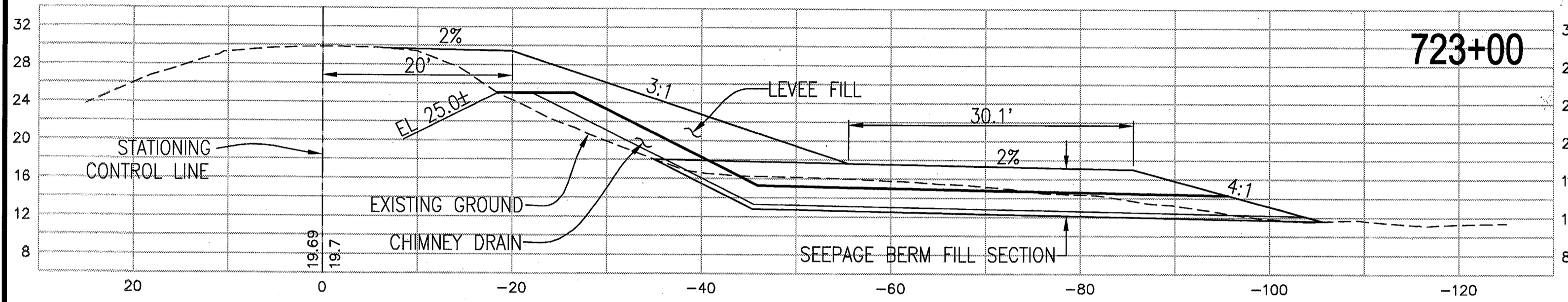
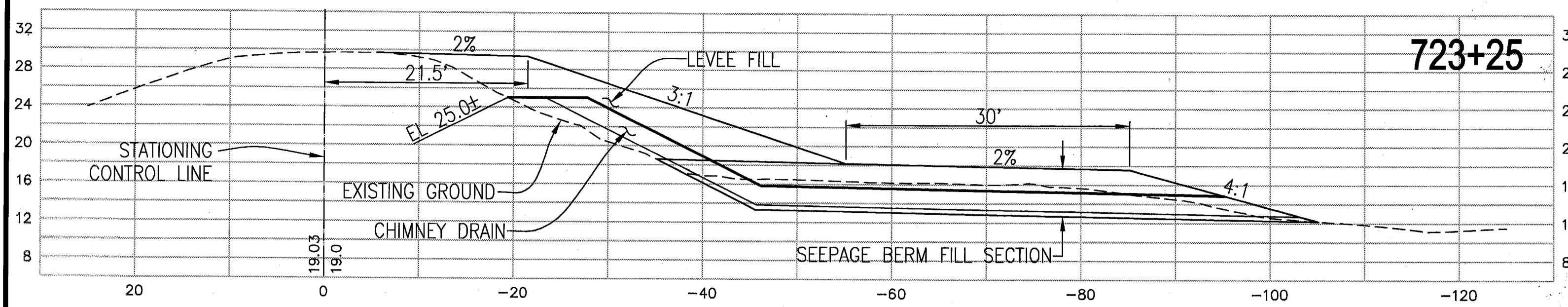
MACKAY & SOMPS
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690

RECLAMATION DISTRICT NO. 17
 ELEMENT VI-A.2
 THRU SEEPAGE SECTIONS
 716+50 THRU 721+50
 SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE
5	REV THRU SEEPAGE ELEV.	4/26/10
4	THRU SEEPAGE: REV. SHTS. 1, 4, 9, & 10. ADDED SHTS. 15-19	4/16/10
3	EXTEND DRAINAGE LAYER TO BERM SURFACE	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

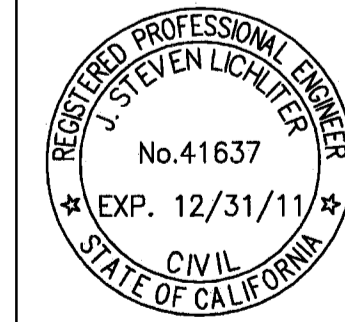
DATE: JULY 2009
 SCALE: _____
 DRAWN BY: EJJ
 DESIGNED BY: CWG
 CHECKED BY: JSL

PROJECT NO. 25126.03
 SHEET 18 OF 19



RECORD DRAWING

THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.


 BY: *J. Steven Lichliter 9-30-10*
 J. STEVEN LICHLITER RCE NO. 41637
 EXP. 12/31/11

PLANS REVIEWED AND APPROVED BY:

KJELSDEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT DATED: UNDER-SEEPAGE EVALUATION, RD. NO. 17 MOSSDALE TRACT ELEMENT VI-A.2 DATED MARCH 27, 2009

ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

MACKAY & SOMPS
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0890

RECLAMATION DISTRICT NO. 17
 ELEMENT VI-A.2
 THRU SEEPAGE SECTIONS
 722+00 THRU 723+25
 SAN JOAQUIN COUNTY CALIFORNIA

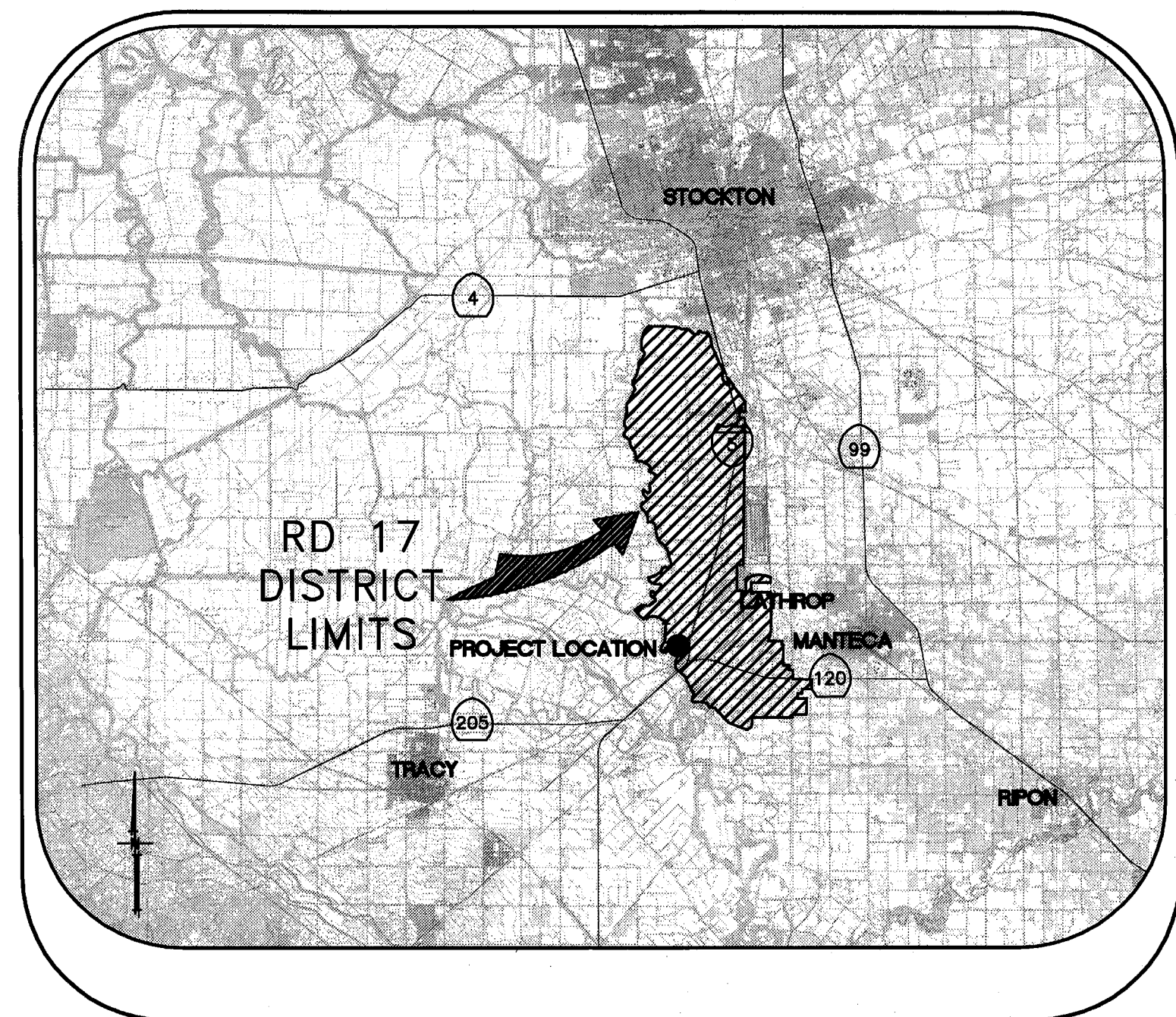
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4	THRU SEEPAGE REV. SHTS. 1, 4, 9, & 10. ADDED SHTS. 15-19	4/16/10
3	EXTEND DRAINAGE LAYER TO BERM SURFACE	10/9/09
2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09
NO.	REVISION	DATE

DATE: JULY 2009
 SCALE:
 DRAWN BY: E.J.N.
 DESIGNED BY: CWG
 CHECKED BY: JSL

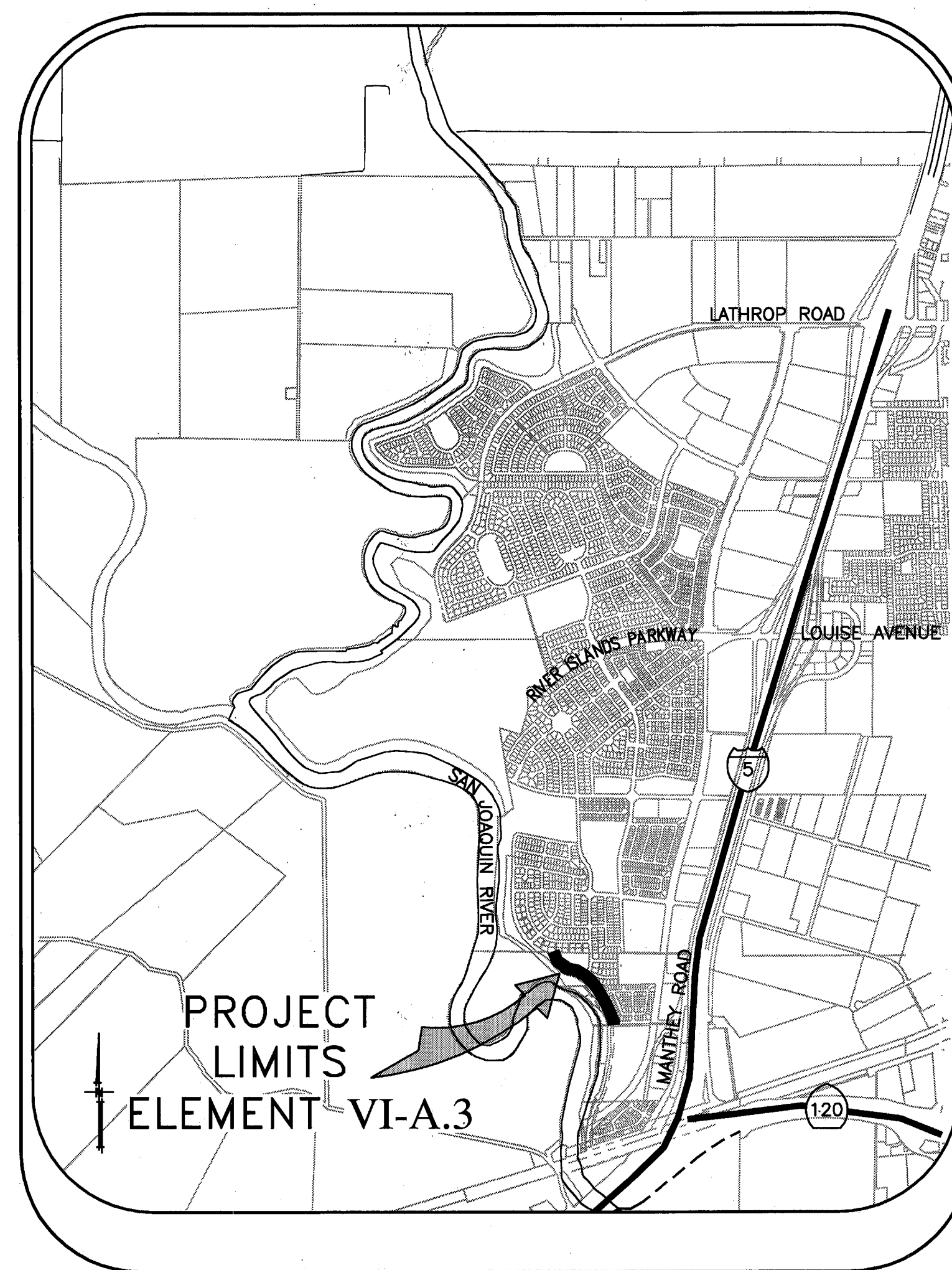
PROJECT NO. 25126.03
 SHT 19 OF 19

RECLAMATION DISTRICT NO. 17 LEVEE SEEPAGE PROJECT ELEMENT VI-A.3

STATION 723+47 THRU 740+98



VICINITY MAP



PROJECT SITE MAP

SHEET	DESCRIPTION
1.	COVER SHEET
2.	STATIONING MAP / HAUL ROUTES
3.	NOTES & BORING LOCATIONS
4.	TYPICAL SECTIONS & DETAILS
5.	SEEPAGE BERM PLAN VIEW
6.	SEEPAGE BERM PLAN VIEW
7.	SEEPAGE BERM PROFILE VIEW
8.	THRU SEEPAGE SECTIONS 723+25 - 730+00
9.	THRU SEEPAGE SECTIONS 730+50 - 735+00
10.	THRU SEEPAGE SECTIONS 735+50 - 740+00
11.	THRU SEEPAGE SECTIONS 740+50 - 740+70

INDEX

RECORD DRAWING

THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.

BY: *J. Steven Litchlter* 9-30-10
 J. STEVEN LITCHLITER RCE NO. 41637
 EXP. 12/31/11

PLANS REVIEWED AND APPROVED BY:

KSN **KJELDSSEN SINNOCK NEUDECK INC.** Consulting Engineers and Land Surveyors

Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0288
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT DATED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT ELEMENT VI-A.3 DATED

ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

MACKAY & SOMPS
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690

RECLAMATION DISTRICT NO. 17
 ELEMENT VI-A.3
 COVER SHEET
 CITY OF LATHROP, SAN JOAQUIN COUNTY CALIFORNIA

6	REVISION 9/30/10	9/30/10
5	REV. THRU SEEPAGE ELEV.	4/28/10
4	THRU SEEPAGE: REVISE SHTS. 1,4,5,6& ADD SHTS. 8-11	4/15/10
3	REVISE BERM SECTION AT EX. LEVEE, ISSUE ADDENDUM #1	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09
NO.	REVISION	DATE

DATE: JULY 2009
 SCALE: NOT TO SCALE
 DRAWN BY: GB
 DESIGNED BY: CWG
 CHECKED BY: JSL

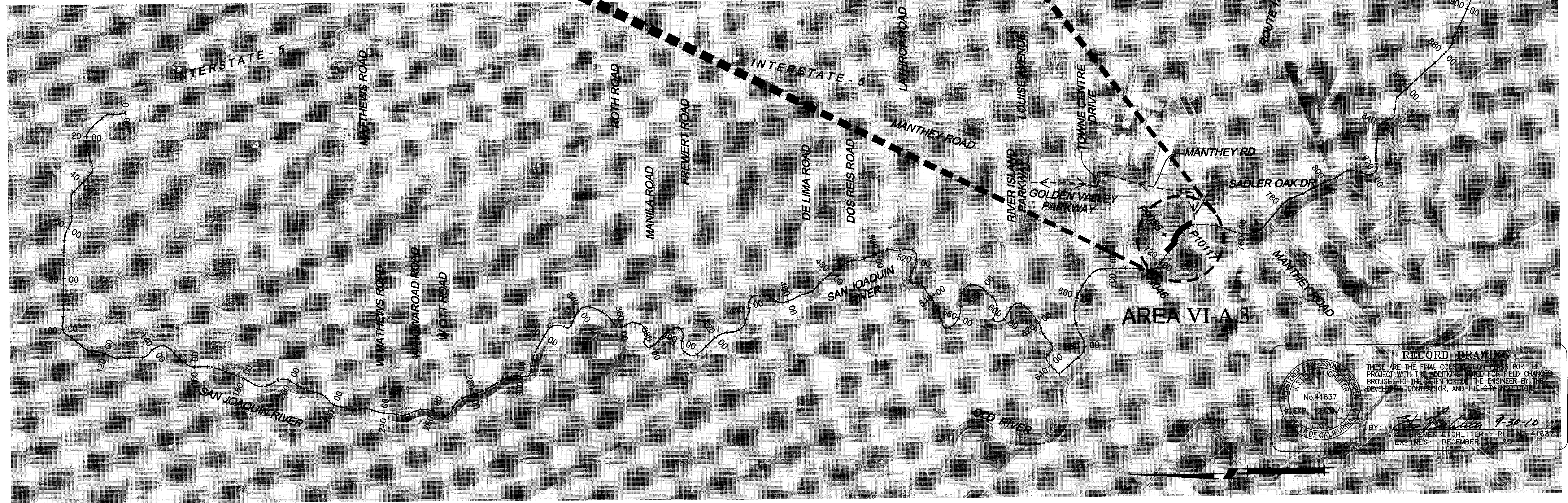
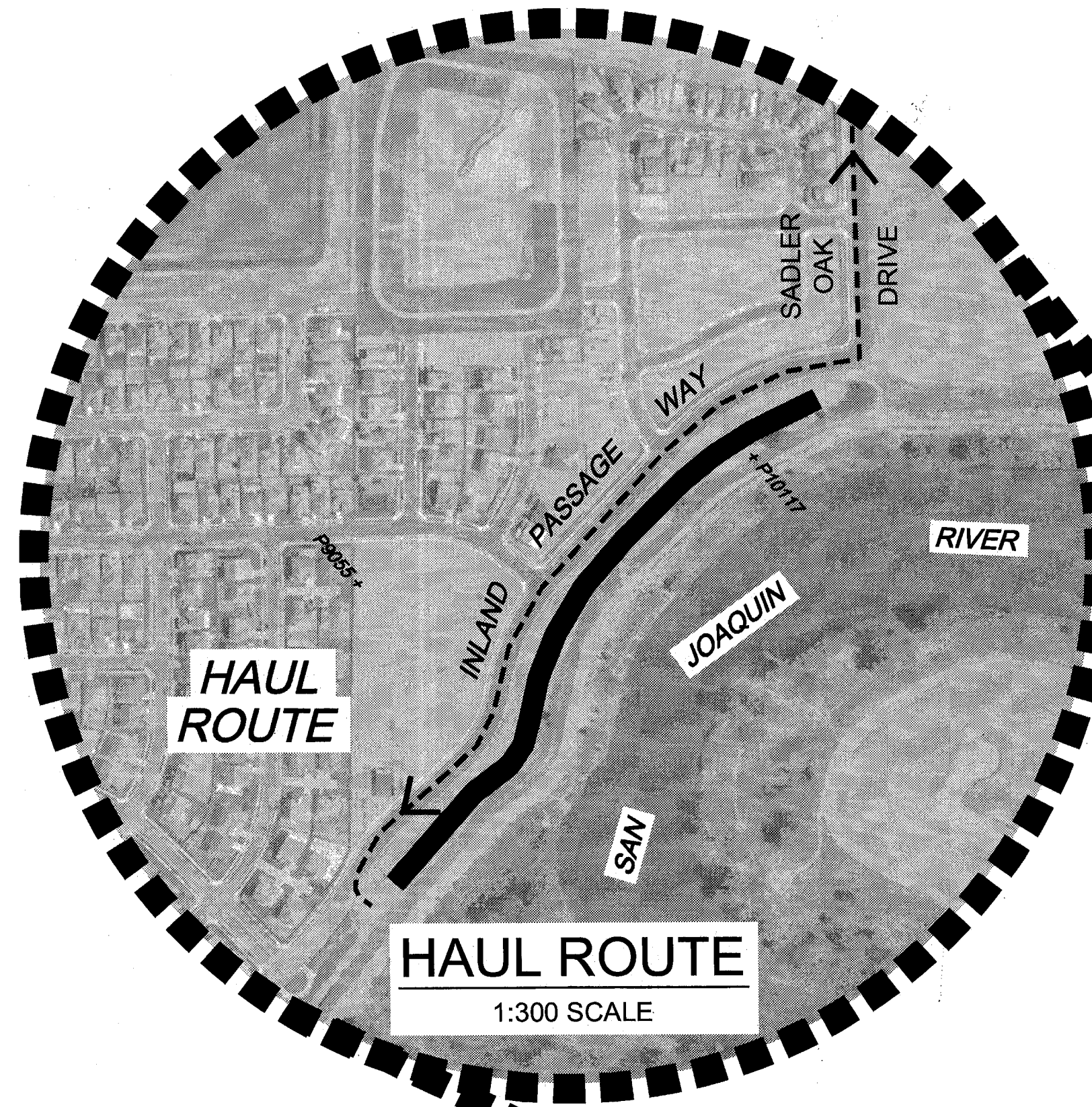
PROJECT NO. 25126.03
 SHT 1A
 OF 11

CONTROL POINTS

P9046 - N=2114590.684 E=6327040.191 ELEV=28.73 IRON PIPE
 P9055 - N=2113730.645 E=6328414.179 ELEV=12.46 SECTION CORNER
 P10117 - N=2112783.561 E=6328687.680 ELEV=29.30

←-----→
 INDICATES HAUL ROUTES TO BE USED BY CONTRACTOR

THE BASIS OF BEARINGS IS NORTH 12D33'37.56" EAST BETWEEN NATIONAL GEODETIC SURVEY HORIZONTAL CONTROL POINTS HPGN-D CA 10 HG (PID AA4256) AND MATTHEW (PID HS0118), CALIFORNIA COORDINATE SYSTEM ZONE 3, NAD83, EPOCH DATE 1997.30, AS CALCULATED AND ADJUSTED BY THE NATIONAL GEODETIC SURVEY IN JULY, 1998, AS SHOWN ON RECORD OF SURVEY RECORDED AT BOOK 34 PAGES 163 - 163B, OF SAN JOAQUIN COUNTY RECORDS. ALL DISTANCES SHOWN HEREON ARE GROUND DISTANCES. TO CONVERT TO GRID DISTANCE, MULTIPLY GROUND DISTANCE BY AVERAGE COMBINED SCALE FACTOR OF 0.999929125. ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).



RECORD DRAWING
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE INSPECTOR.

REGISTERED PROFESSIONAL ENGINEER
 J. STEVEN LICHLITER
 No. 41637
 EXP. 12/31/11
 CIVIL
 STATE OF CALIFORNIA

BY: *J. L. Smith* 9-30-10
 J. STEVEN LICHLITER RCE NO. 41637
 EXPIRES: DECEMBER 31, 2011

PLANS REVIEWED AND APPROVED BY:

KSN KJELSDEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors
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 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT (ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT ELEMENT VI-A.3 DATED 5/4/09)

ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

MACKAY & SOMPS
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690

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RECLAMATION DISTRICT NO. 17
ELEMENT VI-A.3
 STATIONING MAP / HAUL ROUTES
 CITY OF LATHROP, SAN JOAQUIN COUNTY CALIFORNIA

6	RECORD DRAWINGS	9-18-10
5	REV. THRU SEEPAGE ELEV.	4/26/10
4	THRU SEEPAGE: REVISE SHTS. 1,4,5,&6 ADD SHTS. 8-11	4/16/10
3	REVISE BERM SECTION AT EX. LEVEL. ISSUE ADDENDUM #1	10/19/09
2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	1/20/09
NO.	REVISION	DATE

DATE: JULY 2009
 SCALE: 1"=2000'
 DRAWN BY: GB
 DESIGNED BY: CWG
 CHECKED BY: JSL

PROJECT NO. 25126.03
 SHEET 2 OF 11

ROLES:

THE "DISTRICT" AS REFERRED TO IN THESE NOTES MEANS RECLAMATION DISTRICT 17.

THE "ENGINEER" AS REFERRED TO IN THESE NOTES MEANS THE DISTRICT ENGINEER: KJELDEN SINNOCK AND NEUDECK. THE ENGINEER SHALL PROVIDE INSPECTION OF THE PROJECT AND OVERALL CONSTRUCTION MANAGEMENT INCLUDING COORDINATION WITH PUBLIC UTILITIES, PUBLIC AGENCIES, THE DESIGN ENGINEER AND THE GEOTECHNICAL ENGINEER.

THE "DESIGN ENGINEER" MEANS MACKAY AND SOMPS, CIVIL ENGINEERS INC. THE DESIGN ENGINEER WILL PERFORM DISTRICT PROVIDED CONSTRUCTION STAKING AND "AS-GRADED" SURVEYS.

THE "GEOTECHNICAL ENGINEER" MEANS ENGeo INC. THE GEOTECHNICAL ENGINEER WILL PROVIDE MATERIALS TESTING, COMPACTION TESTING AND OTHER GEOTECHNICAL RELATED TESTING.

CONTRACTOR SHALL BE RESPONSIBLE FOR SUPERVISION OF ALL CONTRACTOR'S EMPLOYEES, SUBCONTRACTORS, INCLUDING SCHEDULING AND ALL SAFETY MATTERS.

GENERAL NOTES:

- 1. PRIOR TO THE COMMENCEMENT OF WORK, A JOINT INSPECTION BETWEEN THE ENGINEER OR HIS REPRESENTATIVE, AND THE CONTRACTOR OR HIS REPRESENTATIVE, WILL BE CONDUCTED TO REVIEW THE PRE-CONSTRUCTION CONDITIONS...
2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT (209) 946-0268, A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.
3. THE DISTRICT RESERVES THE RIGHT TO SUSPEND CONSTRUCTION AT ANY TIME IN THE EVENT OF EXTREME HIGH OR LOW TIDES, FLOOD EVENTS, OTHER CONDITIONS OR EMERGENCIES THAT MAY JEOPARDIZE THE INTEGRITY OF THE DISTRICT'S levee AND ROAD SYSTEM.
...
17. THE CONTRACTOR SHALL AT ALL TIMES BE RESPONSIBLE FOR THE SECURITY OF HIS PLANT AND EQUIPMENT. THE DISTRICT WILL NOT BE RESPONSIBLE FOR MISSING OR DAMAGED EQUIPMENT, TOOLS, OR PERSONAL BELONGINGS.

ENVIRONMENTAL NOTES:

- 1. THE CONTRACTOR SHALL NOT DISCHARGE SMOKE, DUST, OR ANY OTHER AIR CONTAMINANTS INTO THE ATMOSPHERE IN SUCH QUANTITY AS WILL VIOLATE THE REGULATIONS OF ANY LEGALLY CONSTITUTED AUTHORITY...
2. THE CONTRACTOR SHALL EXERCISE EVERY REASONABLE PRECAUTION TO PROTECT STREAMS, WATERWAYS AND OTHER BODIES OF WATER FROM POLLUTION WITH FUELS, OIL, BITUMENS, CALCIUM CHLORIDE, AND OTHER HAZARDOUS MATERIALS...

ENVIRONMENTAL NOTES (cont'd):

- 3. THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, AND UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE WORK SITE CONDITIONS CLEAN AND FREE FROM RUBBISH AND DEBRIS.
DUST AND MUD CONTROL:
1. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL KEEP ALL CONSTRUCTION AREAS, FILL AREAS, HAUL ROUTES, OTHER ROADWAYS, AND OTHER USE AREAS WHERE DUST IS GENERATED WELL WATERED...
2. THE CONTRACTOR SHALL DEDICATE AT LEAST ONE (1) WATER TRUCK (OR MORE AS NEEEDED OR DIRECTED BY THE ENGINEER) TO MAINTAIN ADEQUATE DUST CONTROL...
TRAFFIC CONTROL:
1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AS DESCRIBED IN SPECIAL PROVISIONS, SECTION 1.12, "TRAFFIC CONTROL" AND DIVISION 2, SECTION 0242B "TRAFFIC CONTROL OF THE PROJECT SPECIFICATIONS (AS PREPARED BY THE ENGINEER)
...
9. CONTRACTOR MUST MAINTAIN ACCESS BY THE DISTRICT AND/OR PUBLIC (AS APPLICABLE) ON THE HAUL ROUTES USED AT ALL TIMES DURING CONSTRUCTION.

CLEARING & GRUBBING:

- 1. UNLESS OTHERWISE INDICATED, THE WORK AREAS SHALL BE CLEARED AND GRUBBED BY THE CONTRACTOR. CONTRACTOR SHALL USE CAUTION WHILE CLEARING AND GRUBBING AROUND POWER LINES & BURIED ELECTRICAL CABLES. ALL MATERIAL CLEARED AND REMOVED SHALL BECOME THE PROPERTY AND RESPONSIBILITY OF THE CONTRACTOR FOR REMOVAL AND DISPOSAL OFFSITE.
SOME PRUNING/TRIMMING/THINNING OF BRANCHES OR TREES MAY BE REQUIRED.

LEVEE SEEPAGE BERM SECTION:

- 1. THE CONTRACTOR SHALL FURNISH, DELIVER, AND PLACE THE SPECIFIED MATERIALS (PER THE ENGINEER'S SPECIFICATIONS) AND UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER TO THE DESIGNATED SEEPAGE BERM SITES.
2. THE SEEPAGE BERM SHALL BE CONSTRUCTED WITH ACCEPTABLE MATERIALS SUFFICIENT TO MEET DESIGN GRADES AND SPECIFICATIONS.
3. ALL SUBGRADE AREAS RECEIVING THE FILTER DRAIN MATERIAL SHALL BE PREPARED AS REQUIRED BY THE GEOTECHNICAL ENGINEER...
4. THE CONTRACTOR SHALL DELIVER THE FILTER DRAIN MATERIAL, DRAIN ROCK, AND SEEPAGE BERM FILL TO THE REQUIRED SECTIONS AS UNIFORM MIXTURES. THE MIXTURE SHALL BE DEPOSITED AND SPREAD TO THE REQUIRED COMPACTED THICKNESS...
...
5. THE CONTRACTOR SHALL GRADE THE BASE OF THE SEEPAGE BERM TO MAINTAIN THE DESIGNATED GRADE AND CROSS-SECTIONS AS SHOWN ON THE PLANS.

FINISHING AND SLOPING GRADING:

- 1. THE SURFACE OF THE TOP LAYER SHALL BE FINISHED TO THE DESIGNATED GRADE AND CROSS SECTION. THE FINISHED SURFACE SHALL BE OF UNIFORM TEXTURE, DRESSED AND GRADED TO DRAIN AND PREVENT WATER PONDING.

COMPACTION EQUIPMENT:

- 1. COMPACTION SHALL BE PERFORMED WITH A NON-VIBRATORY TYPE ROLLER COMPACTOR. VIBRATORY EQUIPMENT WILL NOT BE PERMITTED ON LEVEE TOE BERM FILLS.

TESTING:

- 1. THE DISTRICT WILL RETAIN ENGeo, INC. TO PERFORM SAMPLING AND TESTING AS REQUIRED AND TO CHECK FOR COMPLIANCE WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL ASSIST IN THE REMOVAL OF SURFACE MATERIALS AT LOCATIONS DESIGNATED BY THE TESTING ENGINEER AT NO COST TO THE DISTRICT. ENGeo, INC. WILL SAMPLE AND PERFORM ALL REQUIRED TESTS SUCH AS MOISTURE CONTENT, GRADATION, AND MOISTURE DENSITY RELATIONSHIPS ON THE EXCAVATED AND SEEPAGE BERM FILL MATERIALS.

GEOTEXTILE FABRIC:

- 1. GEOTEXTILE FABRIC SHALL BE MIRAFI FW700 WOVEN GEOTEXTILE OR AN APPROVED EQUAL.
2. THE GEOTEXTILE FABRIC SHALL BE PLACED WITHIN THE AREA DESIGNATED BETWEEN THE SEEPAGE BERM FILL AND THE DRAIN ROCK MATERIAL.
3. MEASUREMENT AND PAYMENT WILL BE BY THE SQUARE FOOT NEAT (WITHOUT OVERLAP) AND BASED UPON THE FABRIC PLACED TO THE DIMENSIONS AND AT THE LOCATIONS DESIGNATED AND ACCEPTED BY THE ENGINEER.
4. FOR PAYMENT PURPOSES, MEASUREMENT OF THE FABRIC PLACED WILL NOT INCLUDE OVERLAPS AS REQUIRED BY THESE PLANS.

ROAD PREP, MAINTENANCE, AND SWPPP:

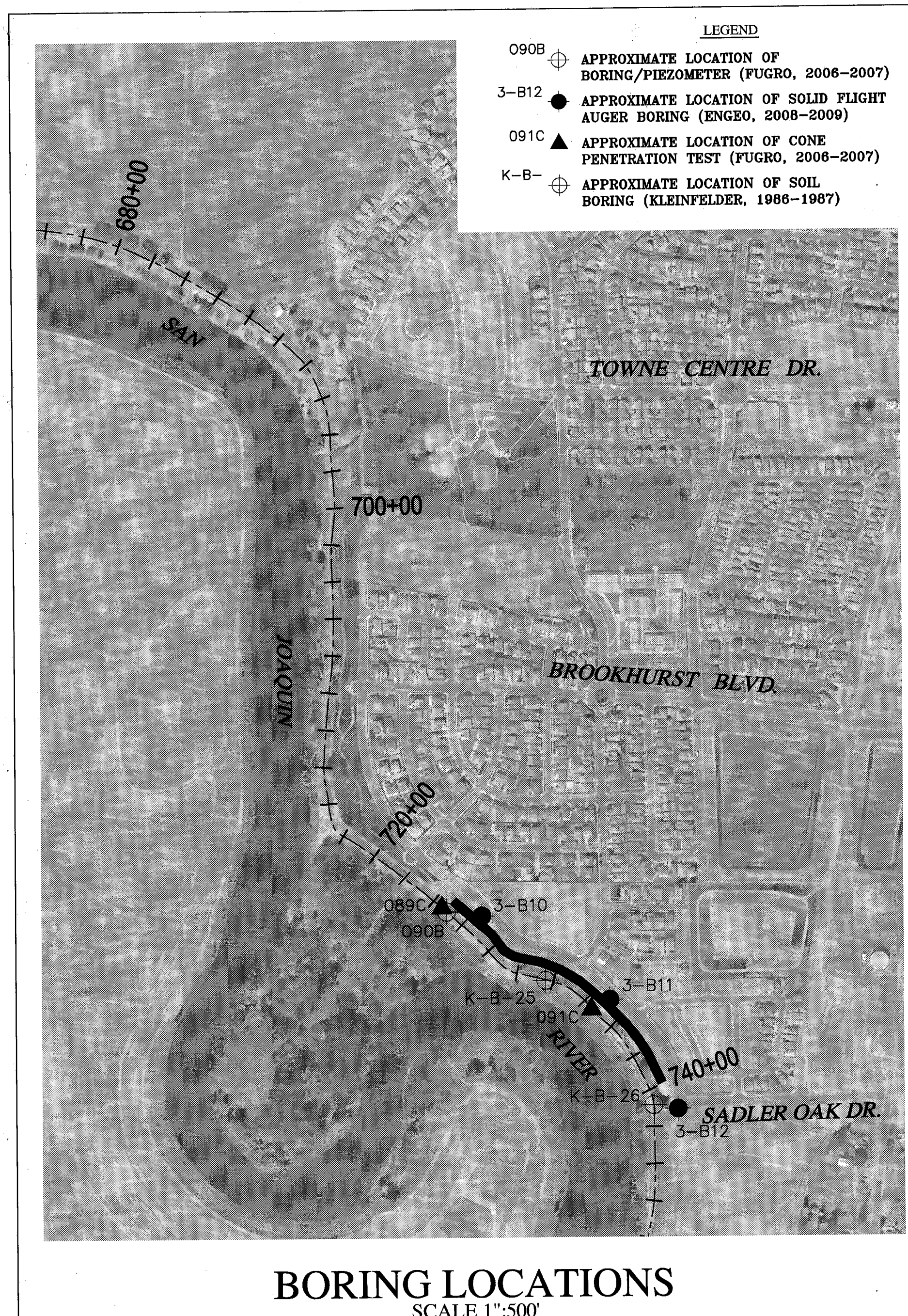
- 1. PER THE IMPROVEMENT PLANS AND SWPPP (AS PREPARED BY ENGeo), CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF REQUIRED:
A. EROSION CONTROL FACILITIES
B. CONSTRUCTION ENTRANCE
C. STREET SWEEPING
D. SITE/CONSTRUCTION MATERIALS MAINTENANCE
E. SITE SECURITY

LEGEND

Table with 2 columns: Symbol/Line Style and Description. Includes: EX FG (Existing Face of Curb), EX ROW (Existing Right of Way), EX SD/EX PERF PIPE (Existing Storm Drain), NEW PERF PIPE (New Toe Drain), EX W (Existing Water Line), EX RW (Existing Recycled Water Line), CONFORM (New Seepage Berm Slope), TOP/TOE (Seepage Berm Slope), EX SEEPAGE BERM (Seepage Berm).

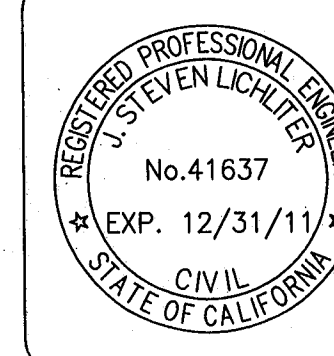
CONSTRUCTION SURVEYING:

- 1. ROUGH GRADE STAKING - SET HORIZONTAL LOCATION STAKES EVERY 100 FEET ON TANGENTS AND EVERY 50 FEET ON CURVES AT THE DESIGN TOE OF THE SEEPAGE BERM. ALSO, SET POINTS AND CORRESPONDING MARKERS AT LOCATIONS THAT ARE OFFSET FROM THE EASTERLY TOE OF BERM EVERY 100 FEET ON TANGENTS AND EVERY 50 FEET ON CURVES.
2. VERIFICATIONS DURING AND AFTER CONSTRUCTION - UPON COMPLETION OF SUBSTANTIAL PORTIONS OF WORK AND WHEN REQUESTED BY CONTRACTOR, OBTAIN "AS-GRADED" ELEVATIONS (TYPICALLY AT 50' INTERVALS) TO VERIFY THE DEPTH OF PLACED MATERIAL...



BORING LOCATIONS SCALE 1"=50'

RECORD DRAWING



THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.
BY: J. Steven Lichliter 9-20-10
RCE No. 41637
EXPIRES: DECEMBER 31, 2011

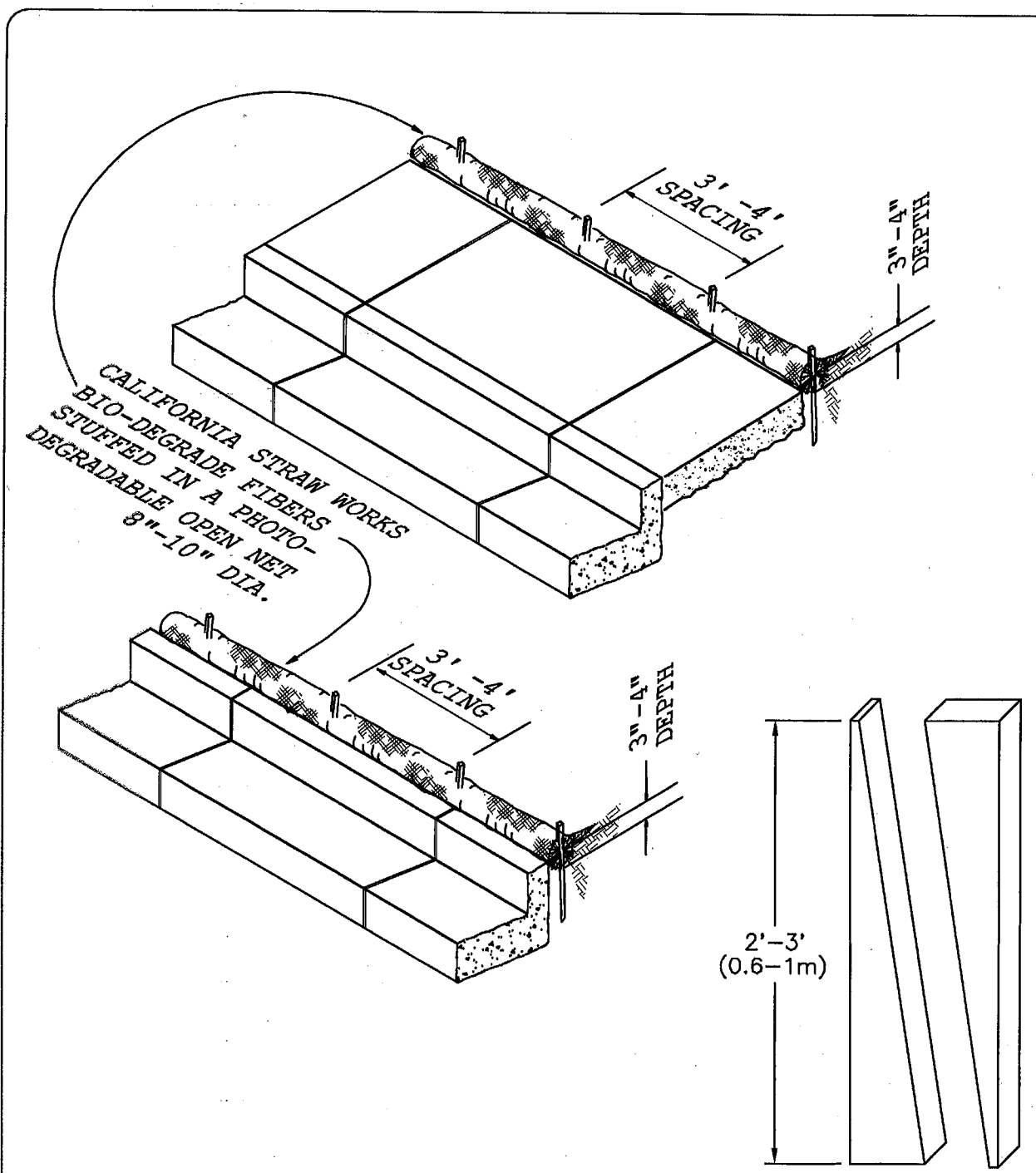
PLANS REVIEWED AND APPROVED BY: KSN (Kjeldsen, Sinnock, Neudeck) Consulting Engineers and Land Surveyors. Includes contact info for Stockton, CA and Post Office Box 844.

ENGEO INCORPORATED logo with text: THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, R.D. NO. 17, MOSSDALE TRACT ELEMENT VI-A.3 DATED 5/5/09. EXCELLENT SERVICE SINCE 1971.

MACKAY & SOMPS ENGINEERS PLANNERS SURVEYORS logo with contact info for 5142 Franklin Drive, Suite B, Pleasanton, CA. Also includes text: MACKAY & SOMPS IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF REPRODUCTIONS OF THIS DOCUMENT THAT ARE GENERATED BY OTHERS FROM ELECTRONIC MEDIA.

RECLAMATION DISTRICT NO. 17 ELEMENT VI-A.3 NOTES & BORING LOCATIONS. CITY OF LATHROP, SAN JOAQUIN COUNTY CALIFORNIA.

Table with columns: REVISION, DATE, DRAWN BY, DESIGNED BY, CHECKED BY, SCALE, PROJECT NO., SHT, OF.



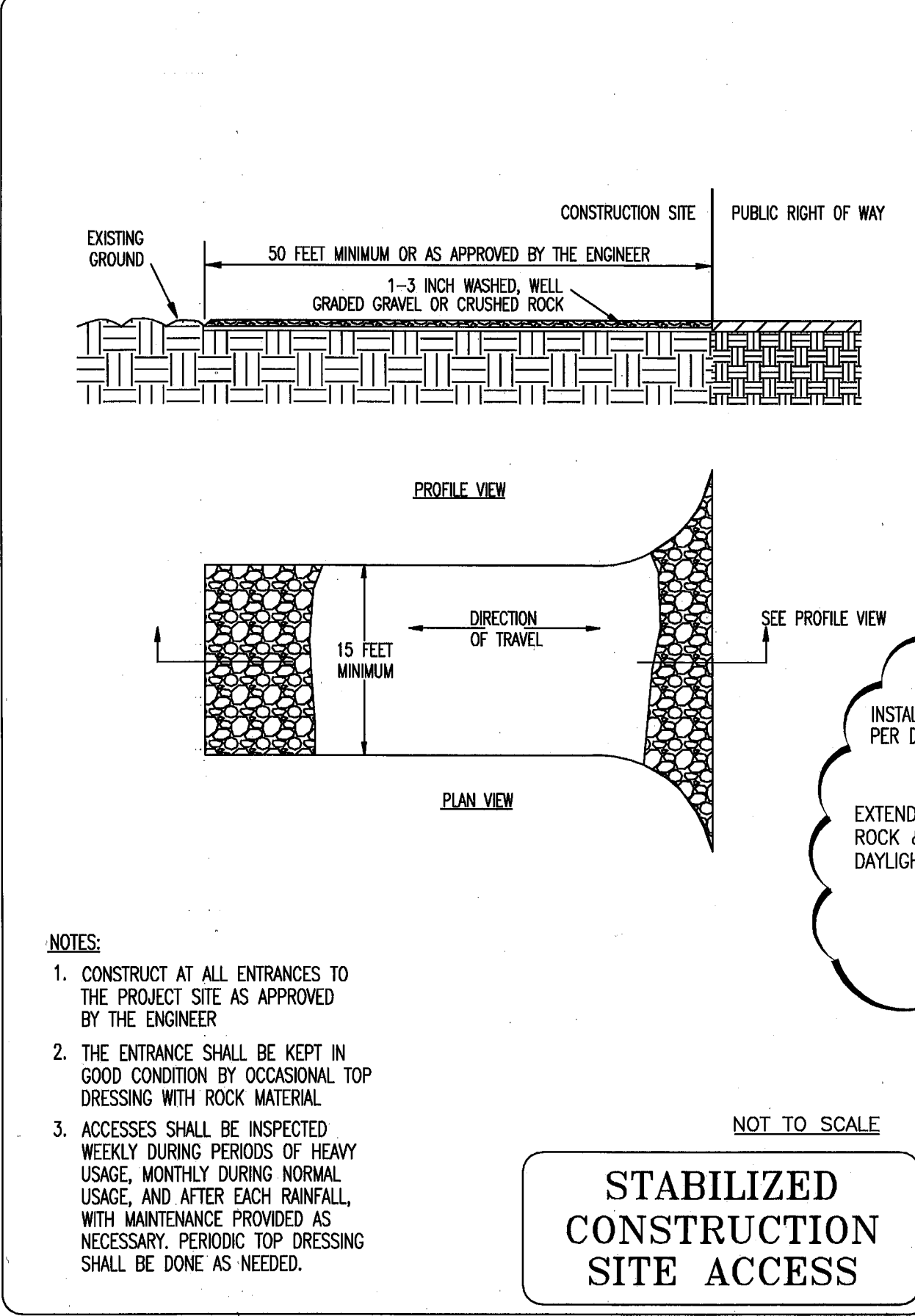
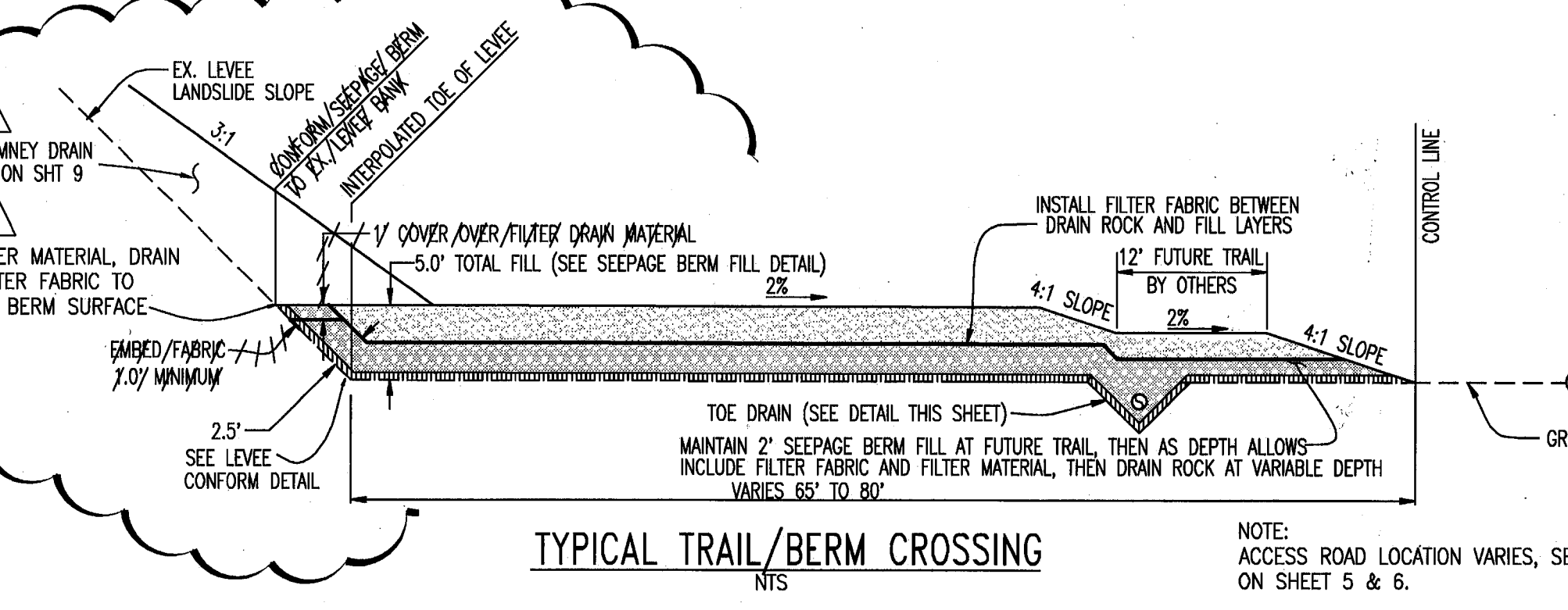
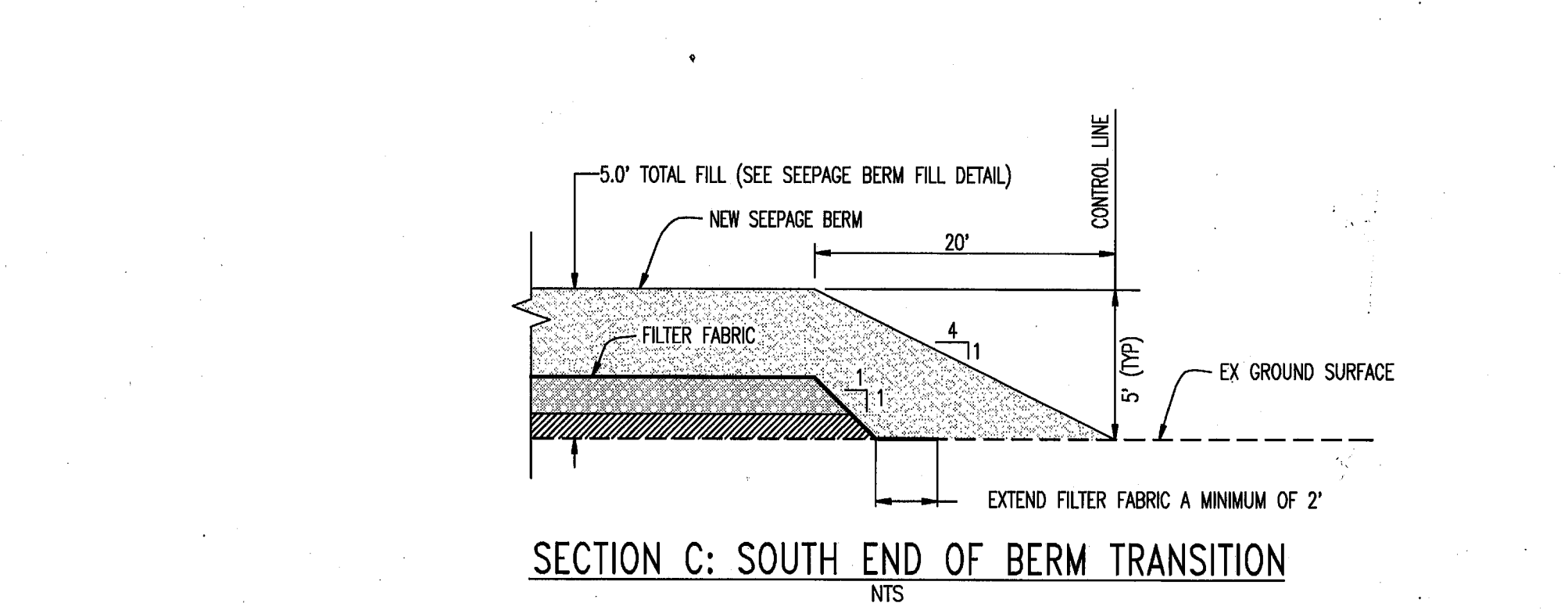
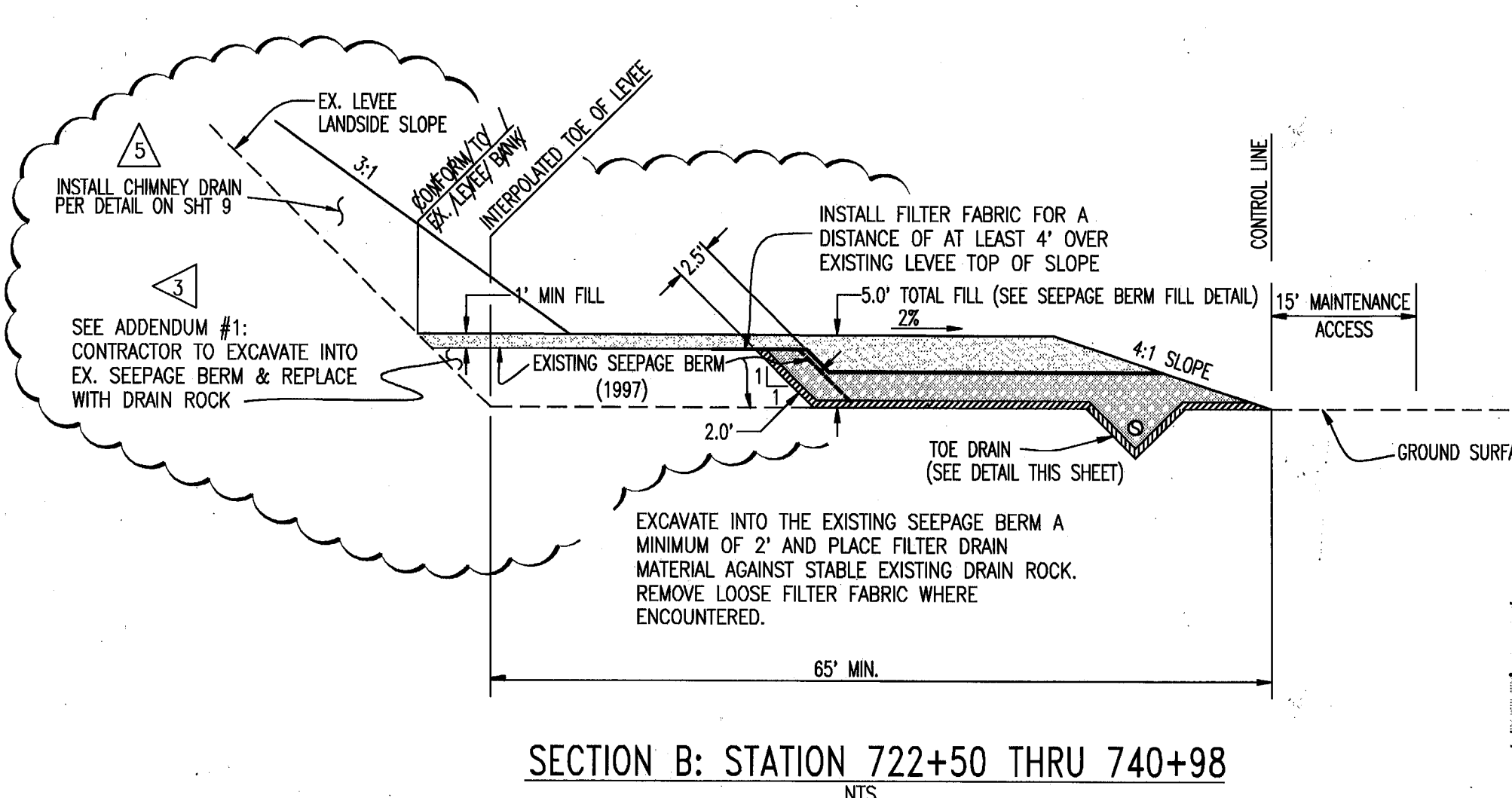
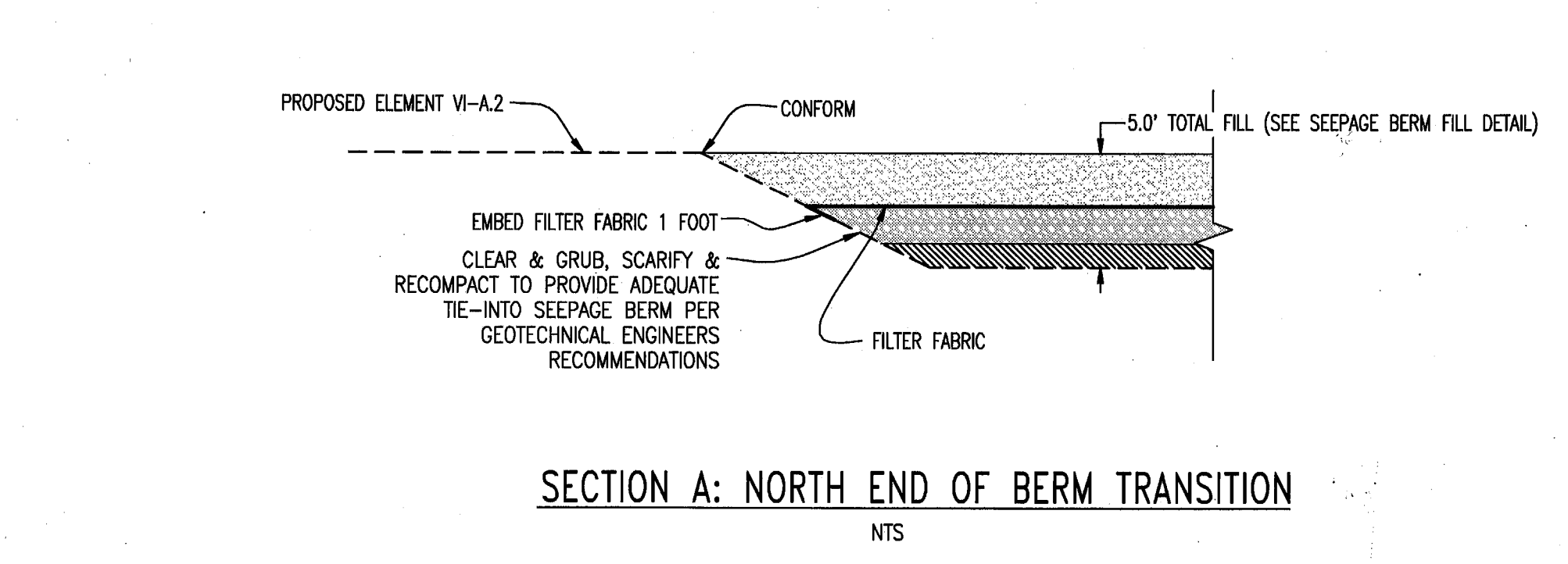
WATTLES ALONG C/G & SIDEWALK

NOTES:
 1. REPAIR OR REPLACE SPLIT, TORN, UNRAVELING OR SLUMPING FIBER ROLLS.
 2. INSPECT FIBER ROLLS WHEN RAIN IS FORECAST, FOLLOWING RAIN EVENTS AND AT LEAST DAILY DURING PROLONGED RAINFALL. PERFORM REQUIRED MAINTENANCE.
 3. IN MOST CASES, FIBER ROLLS DO NOT REQUIRE REMOVAL AND CAN BE ABANDONED IN PLACE. IF NOT EXCESSIVELY SOILED, ROLLS MAY BE REPLACED AND REUSED.

TYPICAL CONSTRUCTION STAKE
 SAW 2X4 (100X50mm) LUMBER
 ON DIAGONAL

NOT TO SCALE

FILE: WATCURB



STABILIZED CONSTRUCTION SITE ACCESS

NOTES:
 1. CONSTRUCT AT ALL ENTRANCES TO THE PROJECT SITE AS APPROVED BY THE ENGINEER.
 2. THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING WITH ROCK MATERIAL.
 3. ACCESSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL, WITH MAINTENANCE PROVIDED AS NECESSARY. PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.

NOT TO SCALE

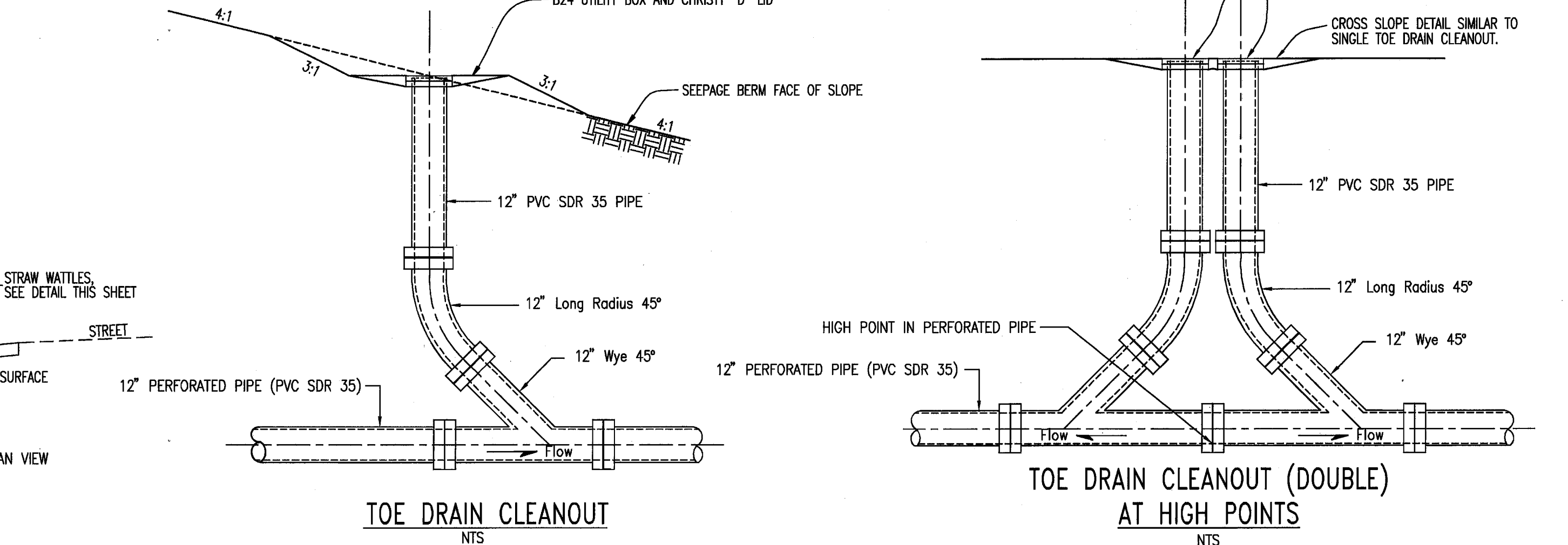
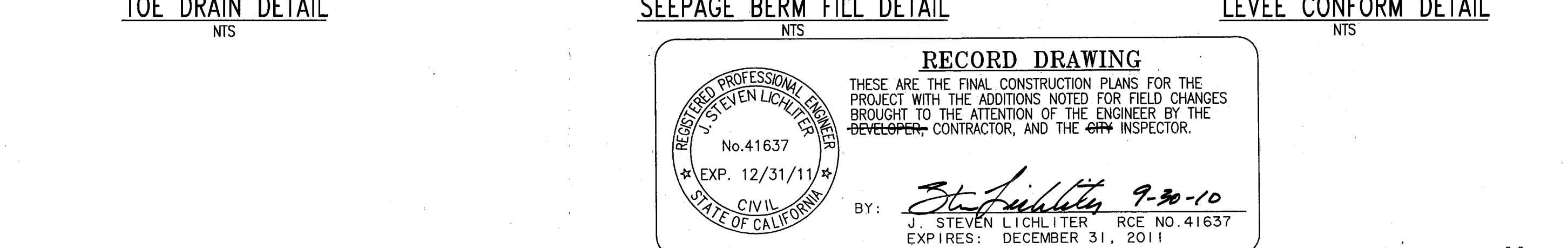
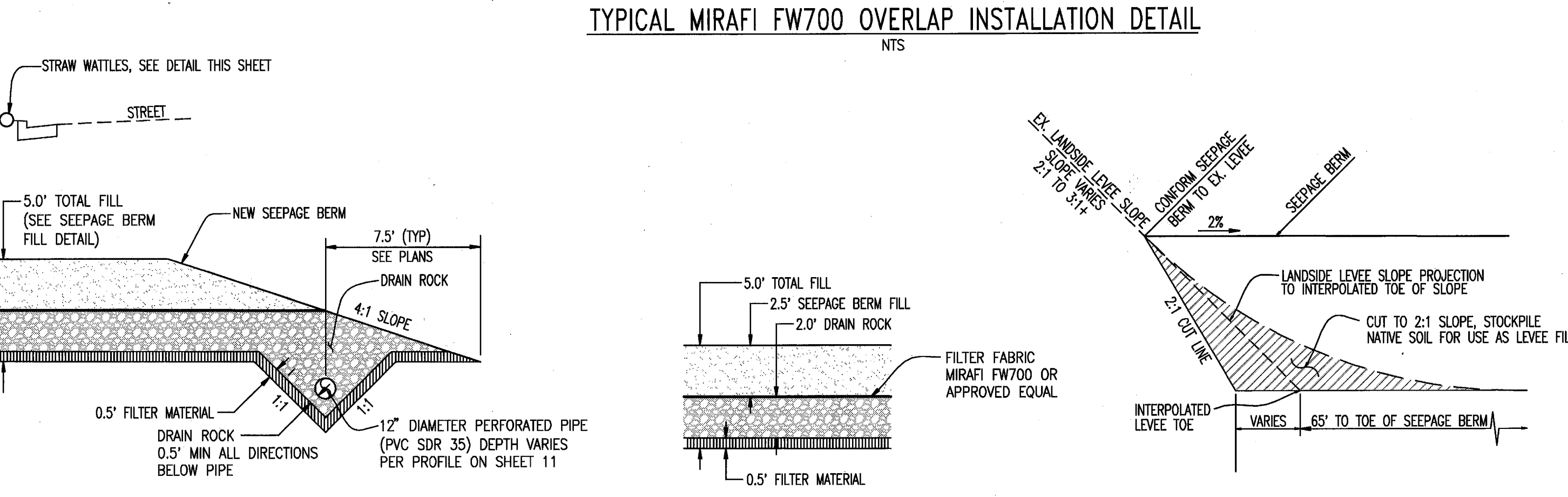
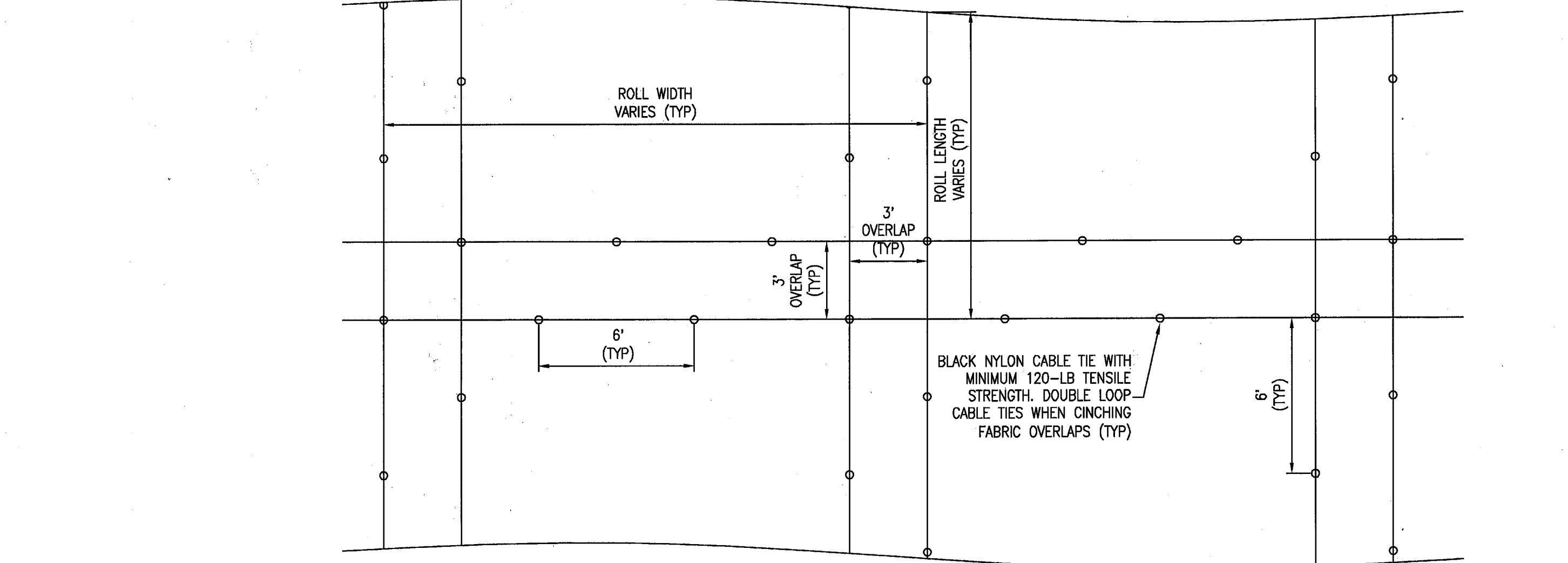
KJELDEN S SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors

Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Faxes: (209) 946-0268
 E-mail: KSN@ksninc.com

ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT DATED: UNDER-SEEPAGE EVALUATION, RD NO. 17, MOSSDALE TRACT ELEMENT VI-A3 DATED 6/30/2010

REGISTERED PROFESSIONAL ENGINEER
 J. STEVEN LICHLITER
 No. 41637
 EXP. 12/31/11
 CIVIL
 STATE OF CALIFORNIA



RECLAMATION DISTRICT NO. 17
ELEMENT VI-A.3
 TYPICAL SECTIONS AND DETAILS
 CITY OF LATHROP, SAN JOAQUIN COUNTY CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
 J. STEVEN LICHLITER
 No. 41637
 EXP. 12/31/11
 CIVIL
 STATE OF CALIFORNIA

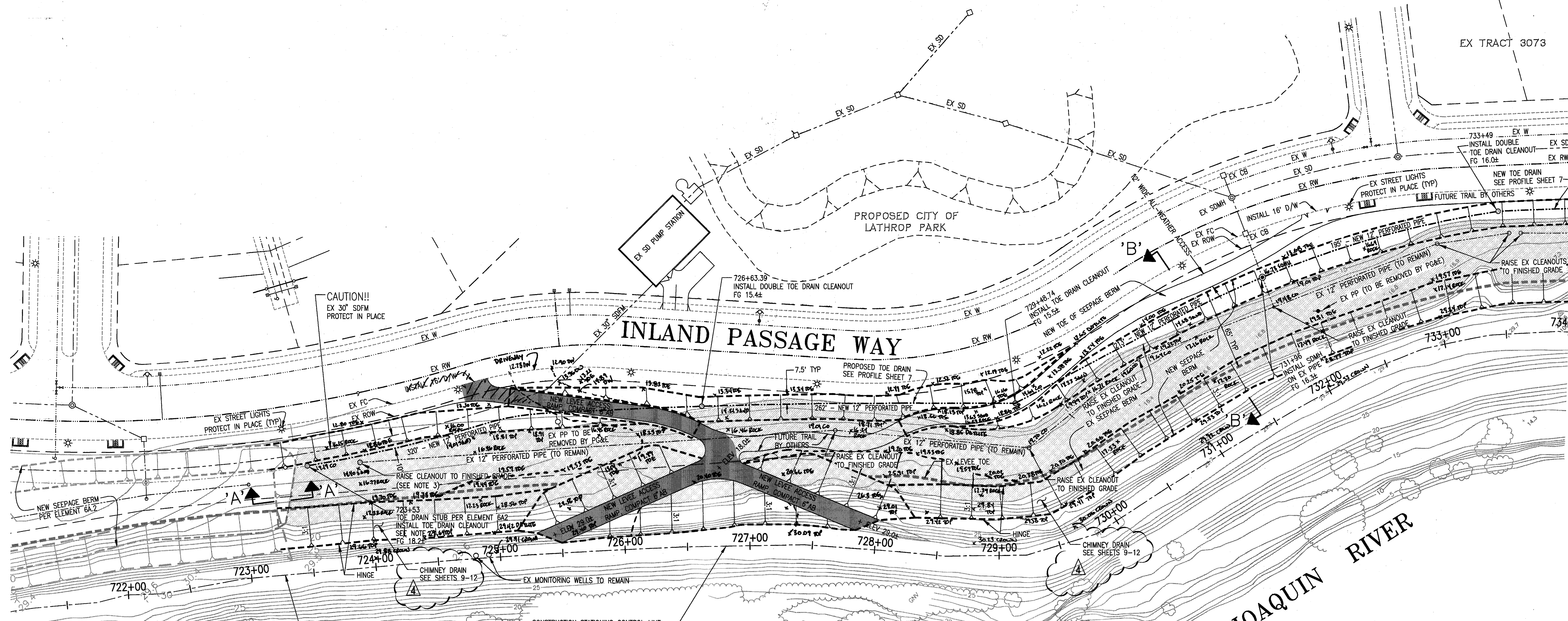
RECORD DRAWING
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.

BY: *J. Steven Lichliter* 9-30-10
 J. STEVEN LICHLITER RCE No. 41637
 EXPIRES: DECEMBER 31, 2011

6	RECORD DRAWING	9-28-10
5	REV. THRU SEEPAGE ELEV.	4/26/10
4	THRU SEEPAGE: REVISE SHITS. 1,4,5,8& ADD SHITS. 8-11	4/16/10
3	THRU SEEPAGE: REVISE SECTION AT EX. LEVEE, ISSUE ADDENDUM #1	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	1/20/09
NO.	REVISION	DATE

DATE: JULY 2009
 SCALE: 1"=20'
 DRAWN BY: GB
 DESIGNED BY: CWG
 CHECKED BY: JSL

PROJECT NO. 25126.03
 SHEET 4A OF 11



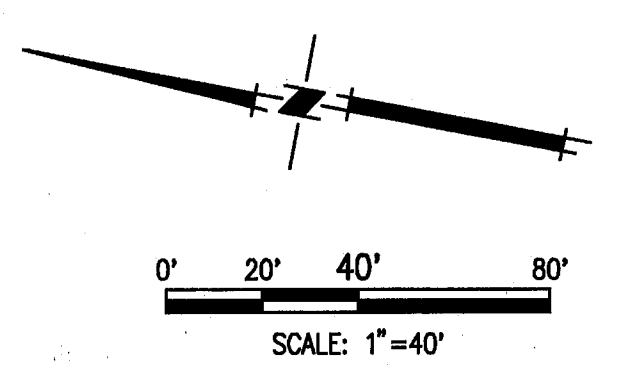
RECORD DRAWING

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REGISTERED PROFESSIONAL ENGINEER
 J. STEVEN LICHLITER
 No. 41637
 EXP. 12/31/11
 CIVIL
 STATE OF CALIFORNIA

BY: *J. Lichte* 9-30-10
 J. STEVEN LICHLITER RCE NO. 41637
 EXPIRES: DECEMBER 31, 2011

- NOTES**
- FOR TOE DRAIN & CLEANOUT DETAILS, SEE SHEET 4. FOR TOE DRAIN PROFILE, SEE SHEET 7.
 - IT IS ASSUMED THIS STUB WILL BE IN PLACE OR CONSTRUCTED CONCURRENTLY WITH ELEMENT VI-A.2. IF ELEMENT VI-A.2 IS NOT CONSTRUCTED, THE PIPE/SDMH MAY NEED TO BE INSTALLED WITH THIS PLAN SET.
 - THIS PLAN SET ASSUMES THAT THE ADJACENT ELEMENT VIa2 IS EXISTING OR CONSTRUCTED CONCURRENTLY. SHOULD ELEMENT VIa3 BE CONSTRUCTED IN ADVANCE, CONSULT WITH ENGINEER TO REVISE PLANS AND ADDRESS REQUIRED REVISIONS.
 - TREE REMOVAL SHOULD BE COMPLETED IN ADVANCE OF THE SEEPAGE BERM CONSTRUCTION AND SHALL INCLUDE THE REMOVAL OF STUMPS AND ROOTS GREATER THAN 1/2 INCH IN DIAMETER.



TOPOLOGY SOURCE: LIDAR TOPO-SUMMER 2008

PLANS REVIEWED AND APPROVED BY:

K S N
KJELDSSEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors

Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT DATED: UNDER-SEEPAGE EVALUATION, RD NO. 17, MOSSDALE TRACT ELEMENT VI-A.3 DATED:

ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

MACKAY & SOMPS
 ENGINEERS PLANNERS SURVEYORS
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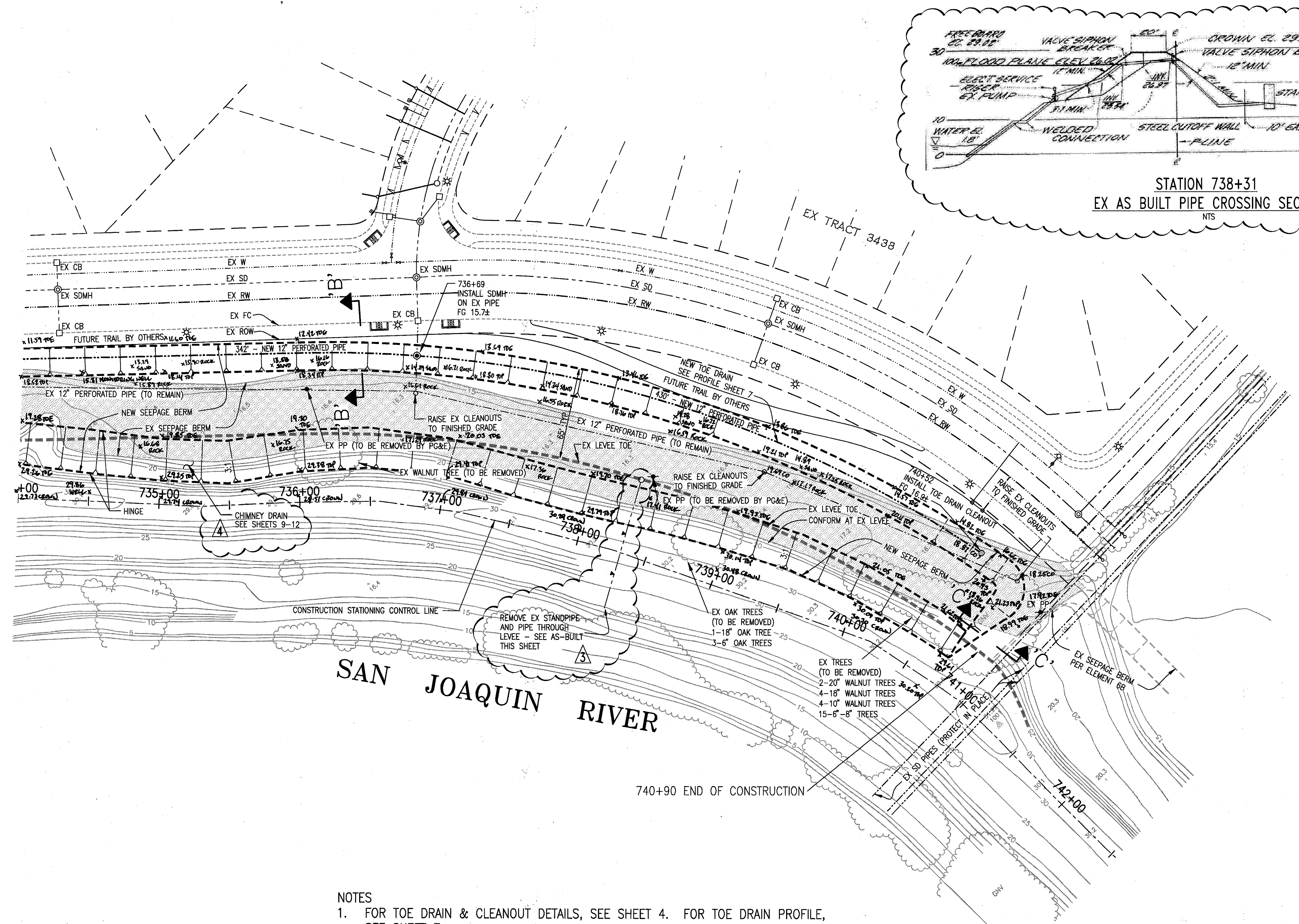
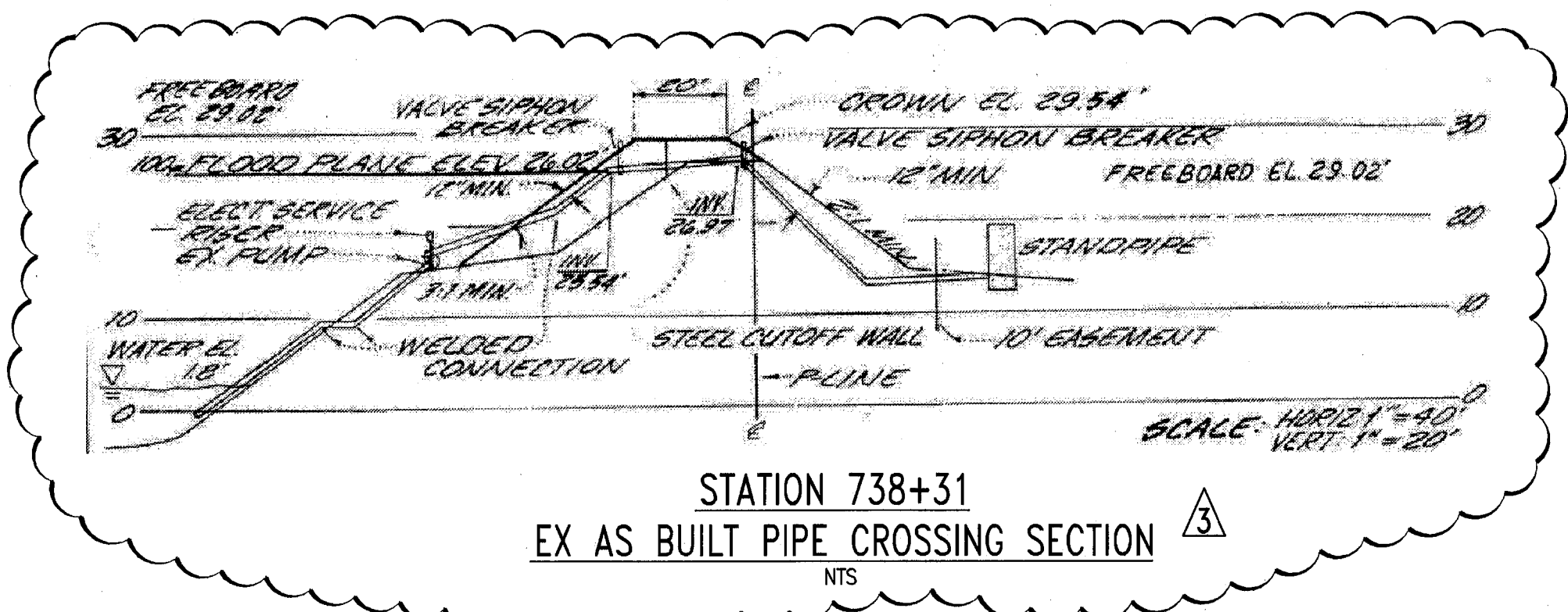
RECLAMATION DISTRICT NO. 17
ELEMENT VI-A.3
 GRADING PLAN

CITY OF LATHROP, SAN JOAQUIN COUNTY CALIFORNIA

6	RECORD DRAWING	9-28-10
5	REV. THRU SEEPAGE ELEV.	4/26/10
4	THRU SEEPAGE; REVISE SHTS. 1,4,5,6,6 ADD SHTS. 8-11	4/16/10
3	REVISE BERM SECTION AT EX. LEVEE; ISSUE ADDENDUM #1	10/9/09
2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09
NO.	REVISION	DATE

DATE: JULY 2009
 SCALE: _____
 DRAWN BY: GB
 DESIGNED BY: CWG
 CHECKED BY: JSL

PROJECT NO. 25126.03
 SHT 5A
 OF 11

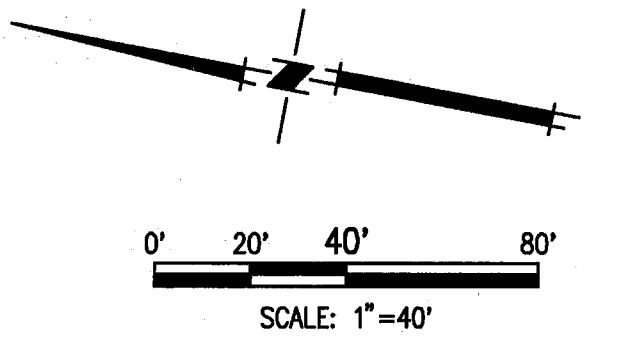


- NOTES
- FOR TOE DRAIN & CLEANOUT DETAILS, SEE SHEET 4. FOR TOE DRAIN PROFILE, SEE SHEET 7.
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WARNING • CAUTION
EXISTING UNDERGROUND UTILITIES
CONTACT : UNDERGROUND SERVICE ALERT
PHONE: (800) 642-2444
FOR MARKING PRIOR TO DIGGING

RECORD DRAWING
THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE CONTRACTOR, AND THE CITY INSPECTOR.

BY: *St. Lichten* 9-30-10
STEVEN LICHLITER RCE NO. 41637
EXPIRES: DECEMBER 31, 2011



TOPOLOGY SOURCE: LIDAR TOPO-SUMMER 2008

PLANS REVIEWED AND APPROVED BY:

KSN
KJELDSSEN
SINNOCK
NEUDECK
INC.
Consulting Engineers
and Land Surveyors

Post Office Box 844
711 N. Pershing Avenue
Stockton, CA 95201-0844
Office: (209) 946-0268
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E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT DATED: UNDER-SEEPAGE EVALUATION, RD NO. 17, MOSSDALE TRACT ELEMENT VI-A.3 DATED 5/6/09

ENGEO
INCORPORATED
EXCELLENT SERVICE SINCE 1971

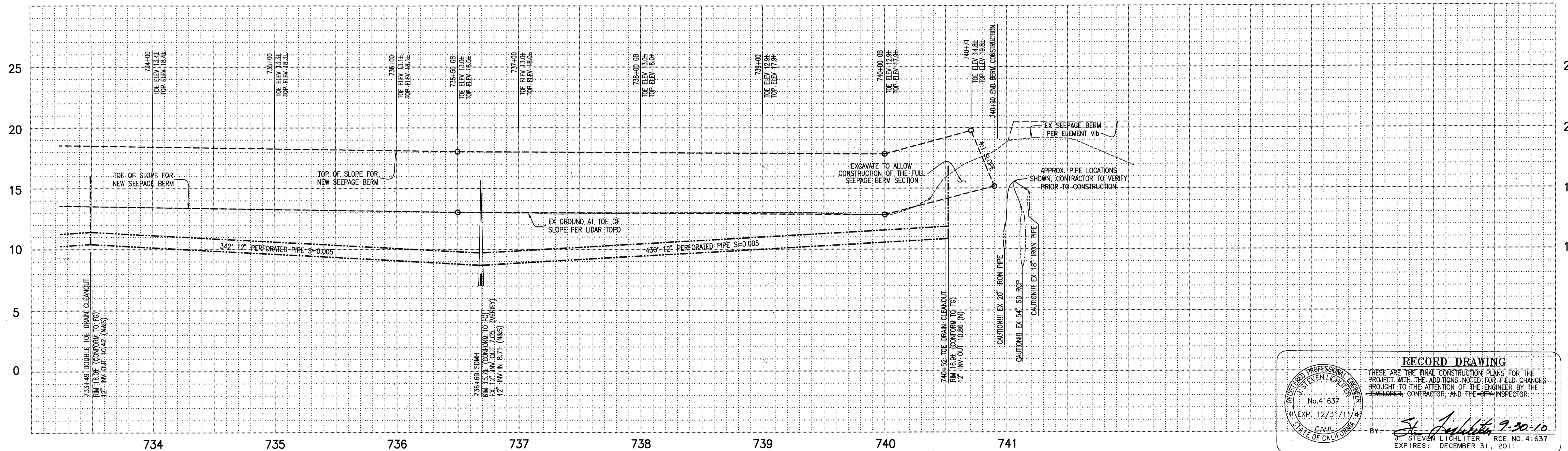
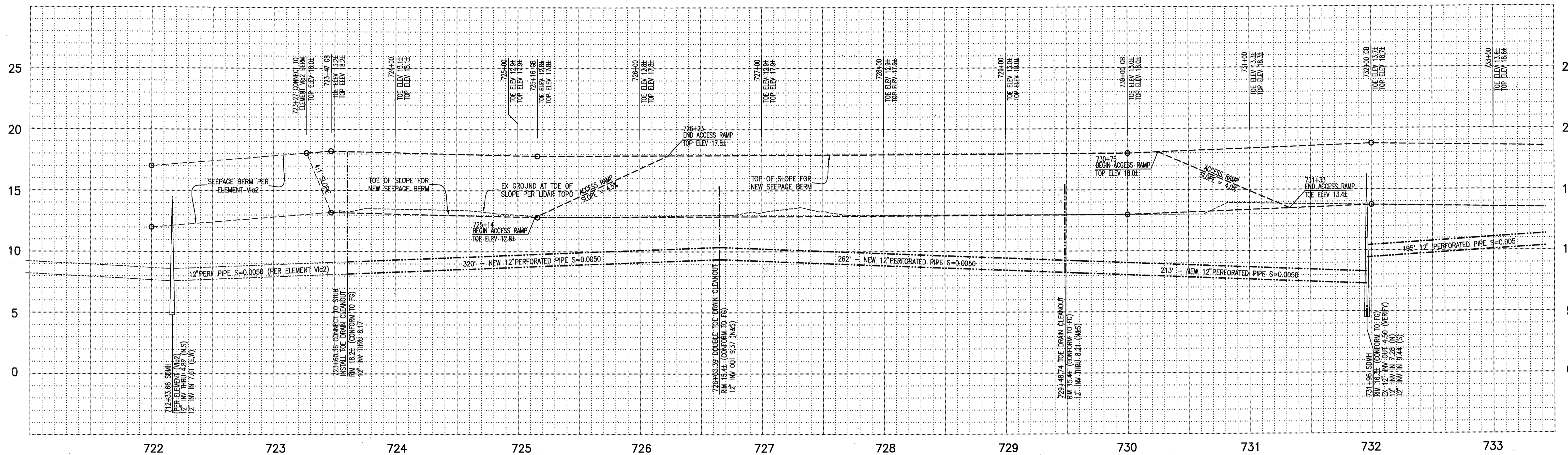
PLANS PREPARED UNDER THE DIRECTION OF:

MACKAY & SOMPS
ENGINEERS PLANNERS SURVEYORS
5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690

NO. 41637
EXP. 12/31/09

RECLAMATION DISTRICT NO. 17
ELEMENT VI-A.3
GRADING PLAN
CITY OF LATHROP, SAN JOAQUIN COUNTY CALIFORNIA

6	RECORD DRAWING	9/28/10	DATE: JULY 2009	PROJECT NO.
5	REV. THRU SEEPAGE ELEV.	4/28/10	SCALE:	25126.03
4	THRU SEEPAGE REVISE SHTS. 1,4,5,6& ADD SHTS. 8-11	4/16/10	DRAWN BY: GB	SHT 6A
3	REVISE BERM SECTION AT EX. LEVEE, ISSUE ADDENDUM #1	10/8/09	DESIGNED BY: CWG	OF 11
2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09	CHECKED BY: JSL	
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09		



RECORD DRAWING

THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE CONTRACTOR, CONTRACTOR, AND THE INSPECTOR.

BY: *Steven L. Lichter* 9-30-10
 STEVEN LICHLITER RCE NO. 41637
 EXPIRES: DECEMBER 31, 2011

PLANS REVIEWED AND APPROVED BY:

KSN **KJELDSSEN SINNOCK NEUDECK INC.**
 Consulting Engineers and Land Surveyors

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 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Fax: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT ELEMENT VI-A.3 DATED 5/5/09

ENGEO
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 EXCELLENT SERVICE SINCE 1971

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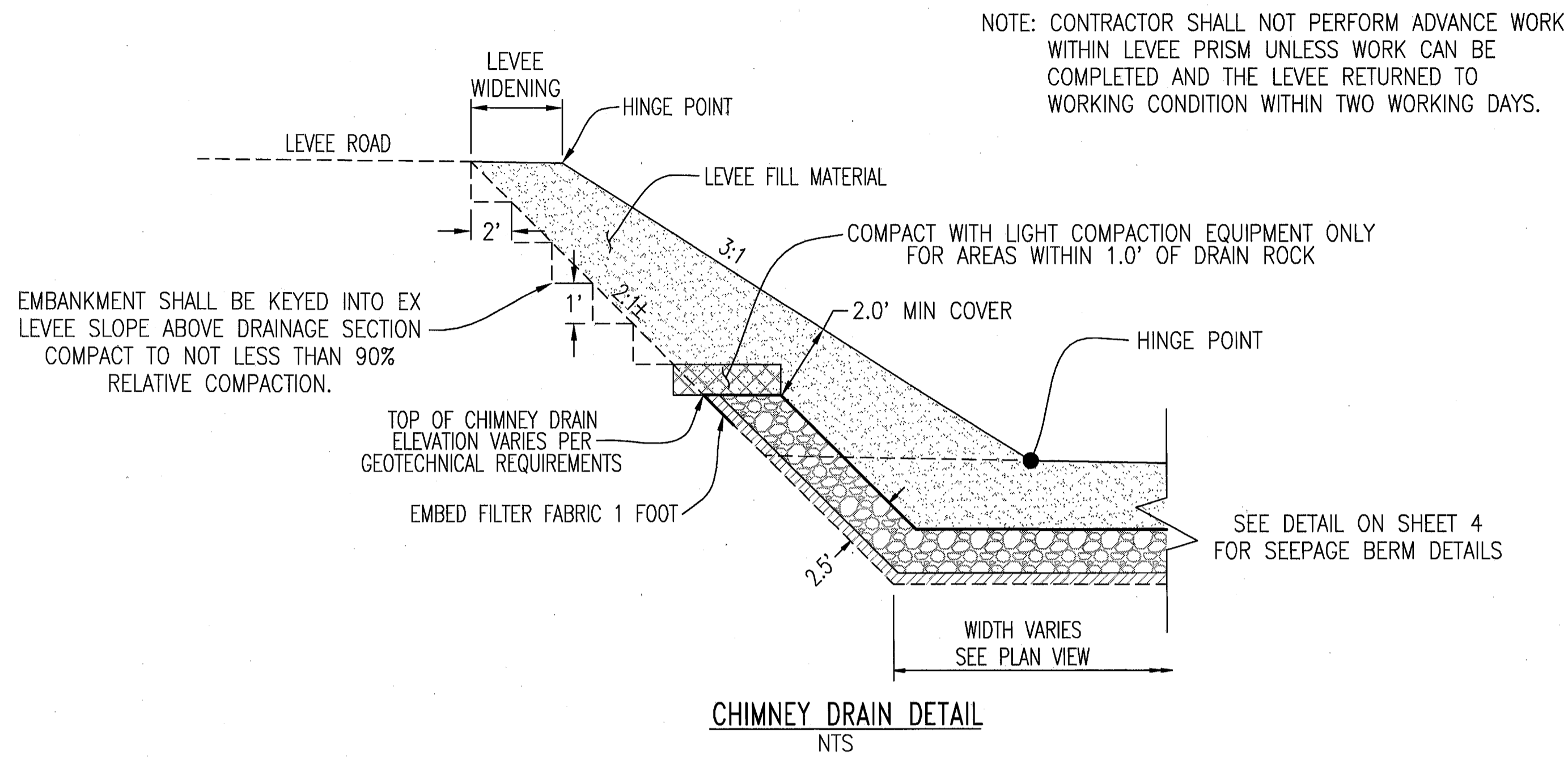
RECLAMATION DISTRICT NO. 17
ELEMENT VI-A.3
 TOE DRAIN PROFILE

CITY OF LATHROP, SAN JOAQUIN COUNTY CALIFORNIA

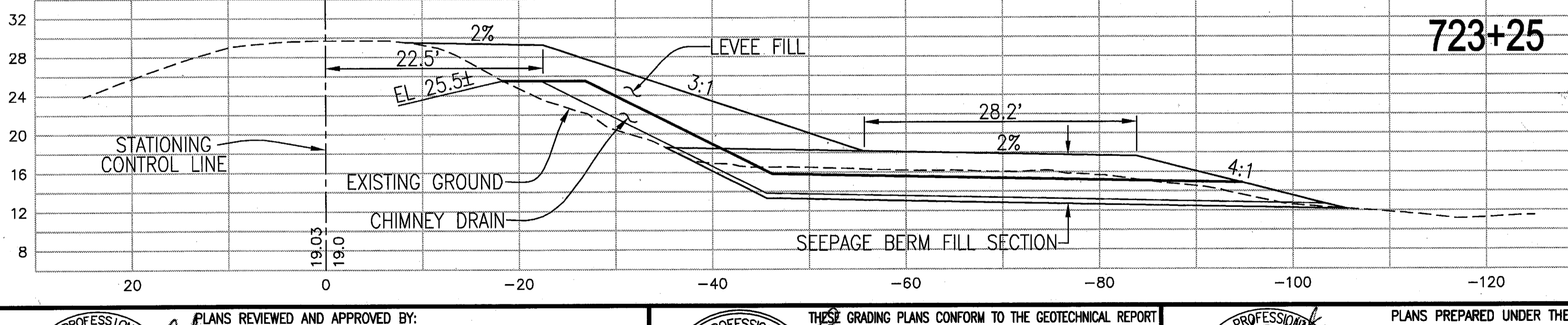
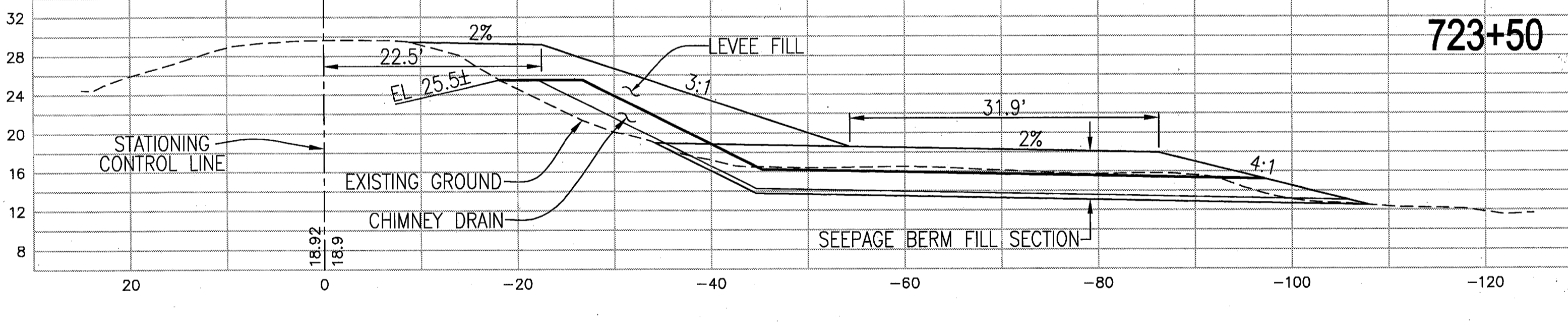
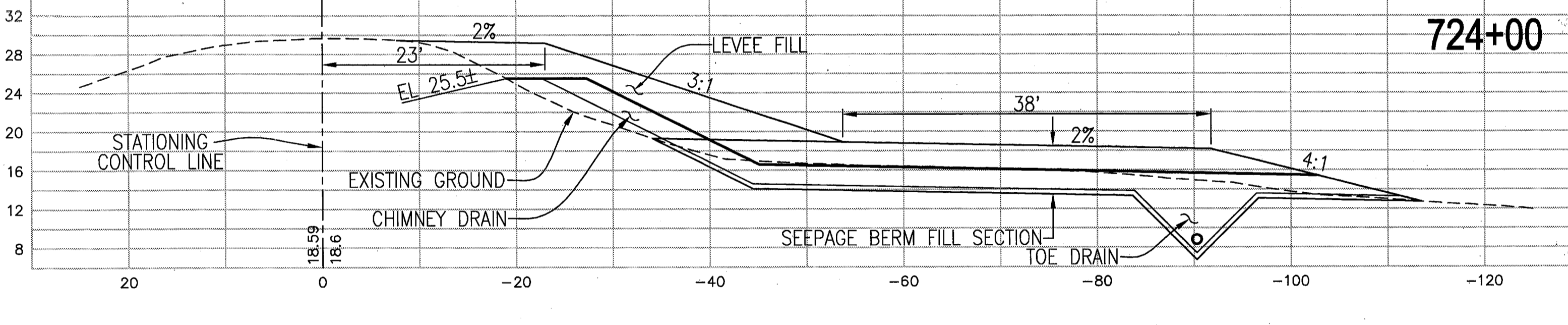
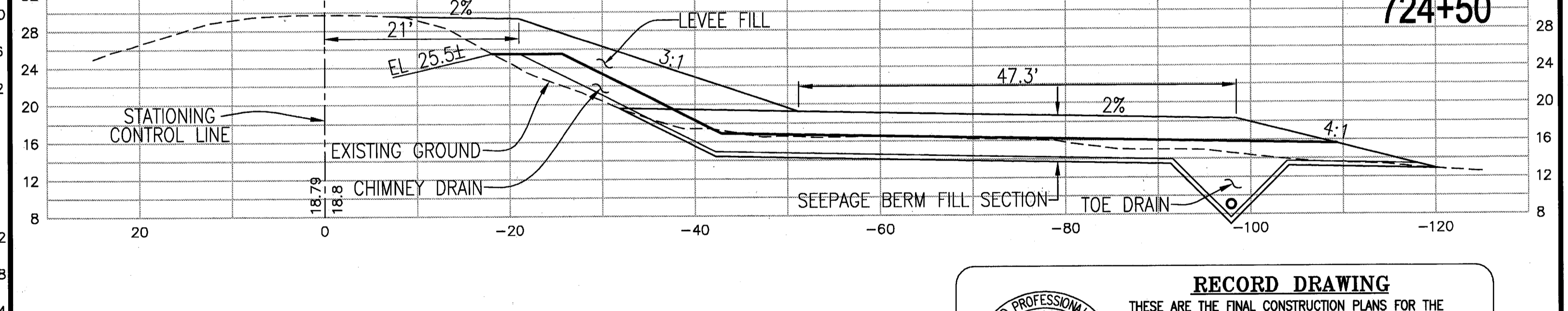
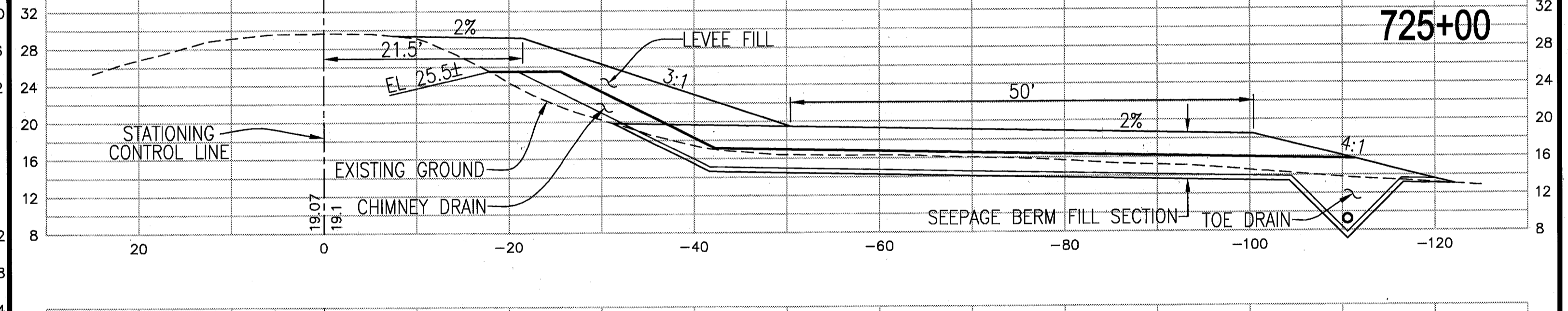
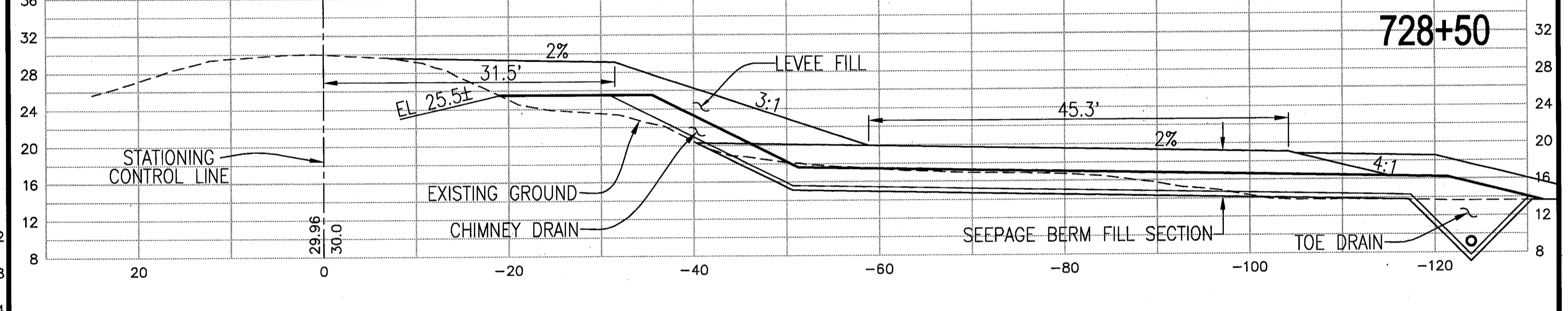
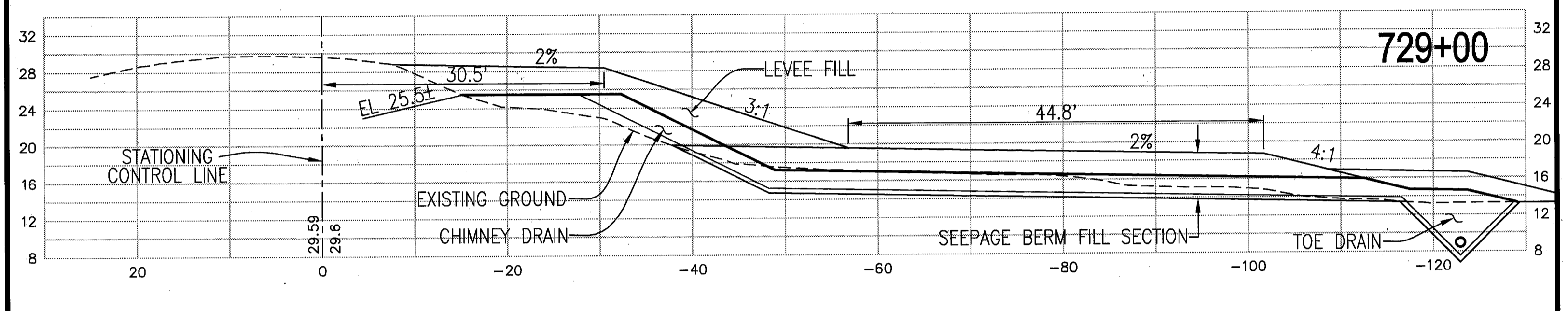
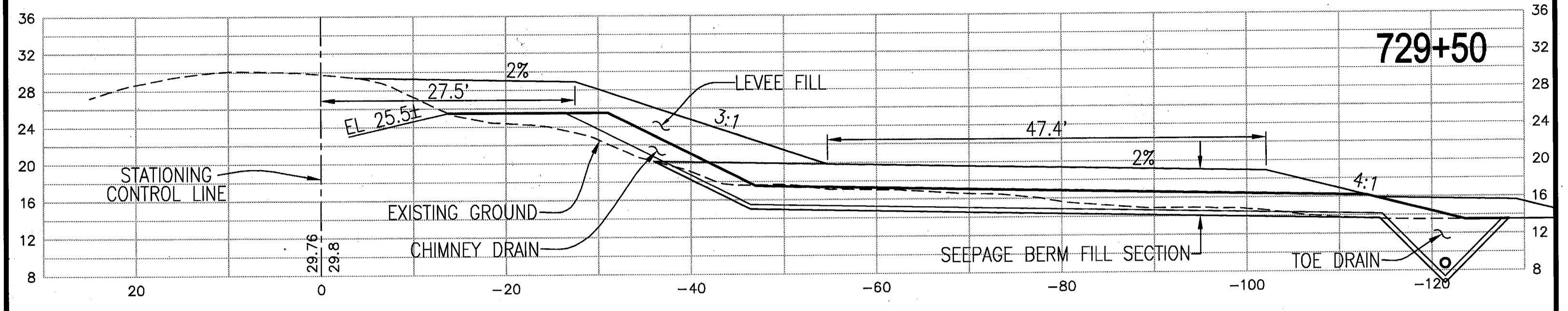
NO.	REVISION	DATE
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5	REV. THRU SEEPAGE ELEV.	4/26/10
4	THRU SEEPAGE, REVISE SHTS. 1.4,5,6,6 ADD SHTS. 8-11	4/16/10
3	REVISE BERM SECTION AT EX. LEVEL, ISSUE ADDENDUM #1	10/18/09
2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

DATE: JULY 2009
 SCALE: _____
 DRAWN BY: GB
 DESIGNED BY: CWG
 CHECKED BY: JSL

PROJECT NO. 25126.03
 SHIT 7
 OF 11



NOTE: CONTRACTOR SHALL NOT PERFORM ADVANCE WORK WITHIN LEVEE PRISM UNLESS WORK CAN BE COMPLETED AND THE LEVEE RETURNED TO WORKING CONDITION WITHIN TWO WORKING DAYS.



RECORD DRAWING
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.
 BY: *J. Litchter* 9-30-10
 J. STEVEN LICHTER RCE NO. 41637
 EXPIRES: DECEMBER 31, 2011

PLANS REVIEWED AND APPROVED BY:
KSN KJELDSSEN SINNOCK NEUDECK
 INC. Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Fax: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT DATED: UNDER-SEEPAGE EVALUATION, RD NO. 17, MOSSDALE TRACT ELEMENT VI-A.3 DATED 5/5/09
ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971

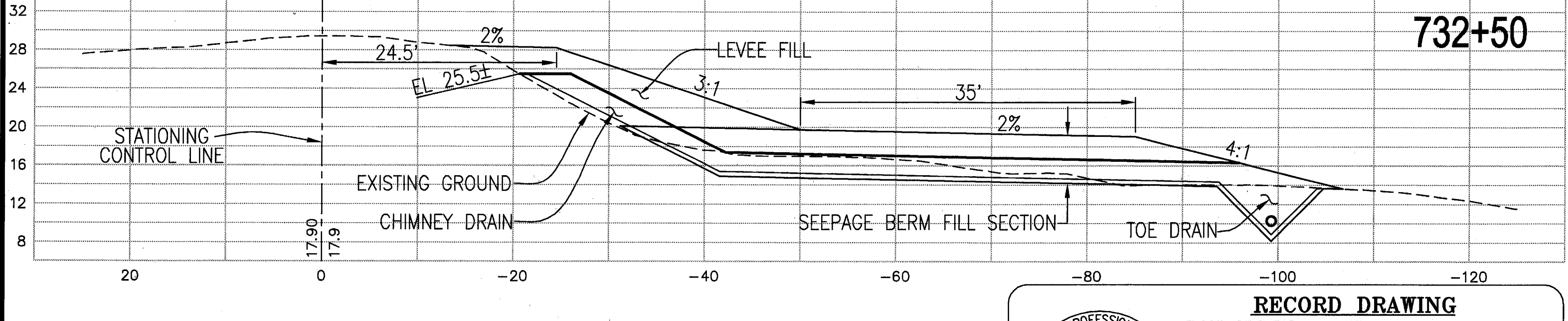
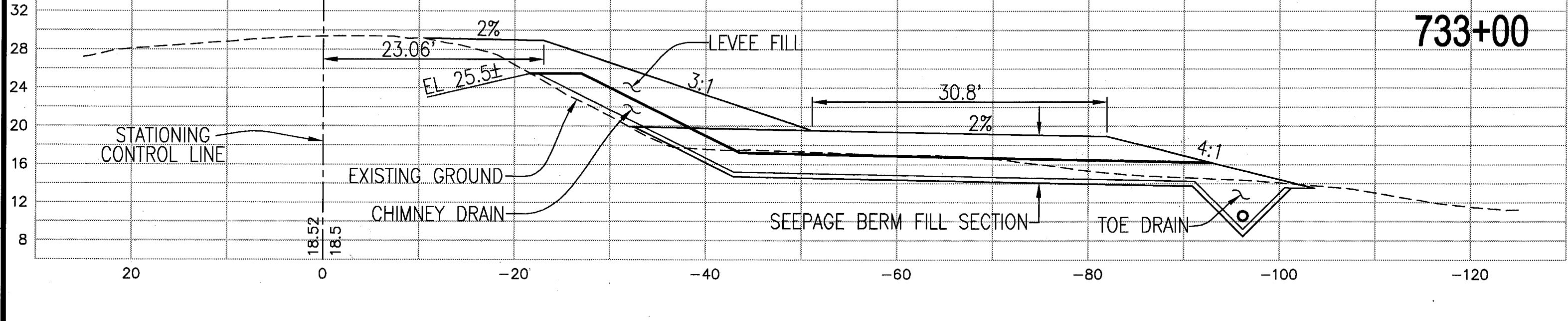
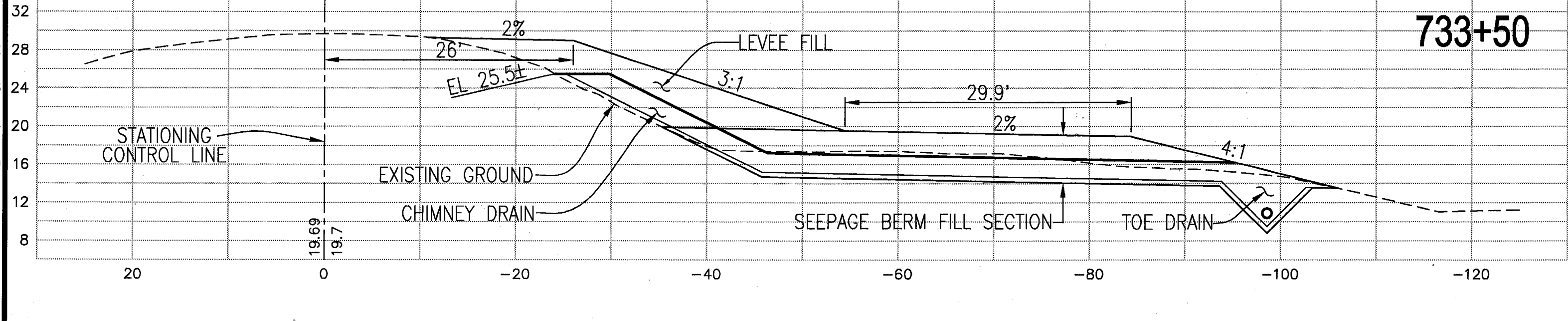
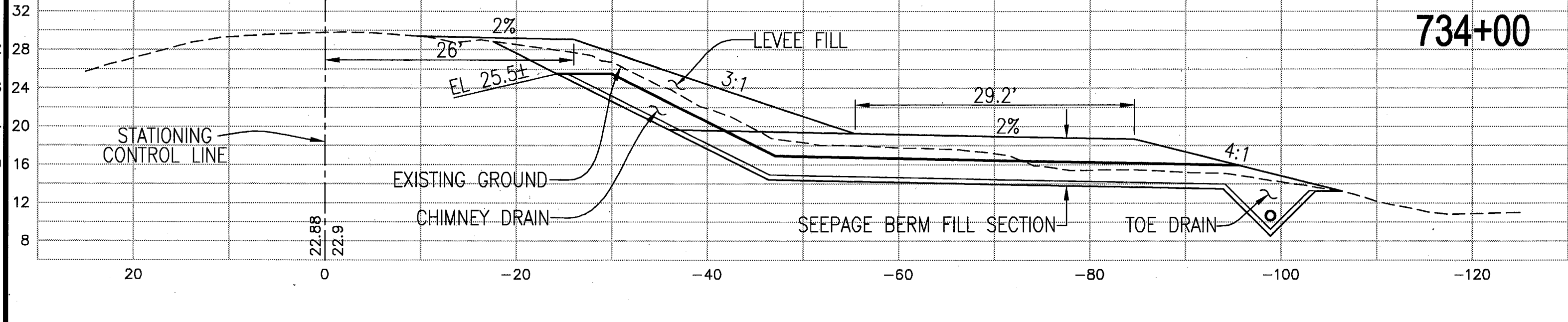
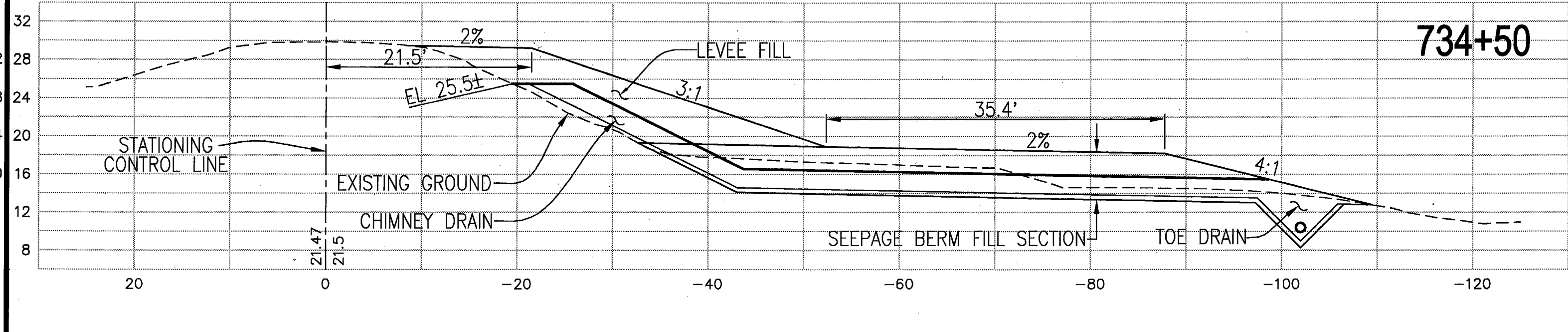
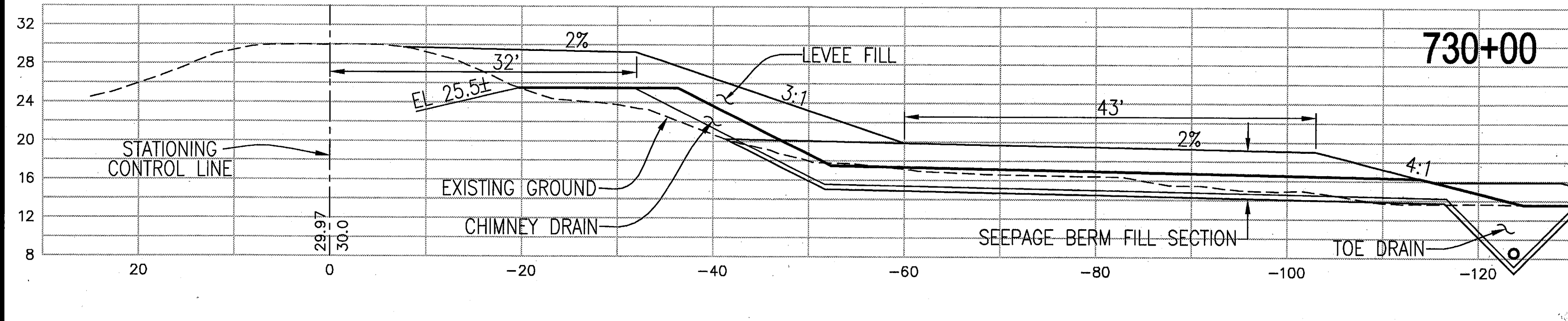
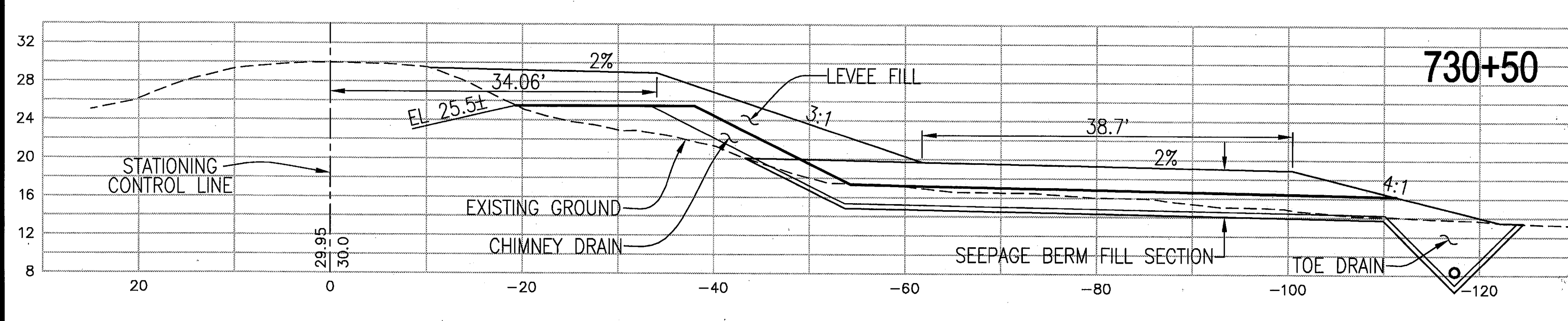
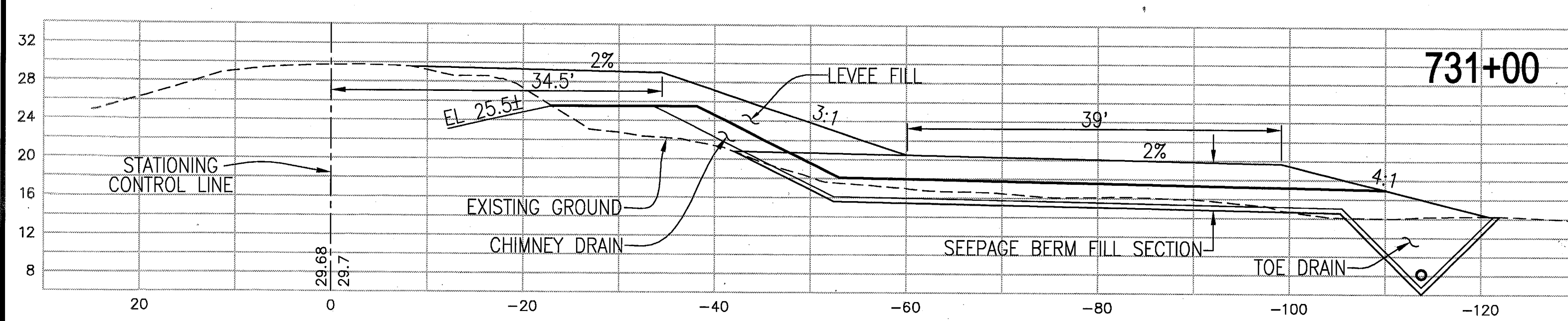
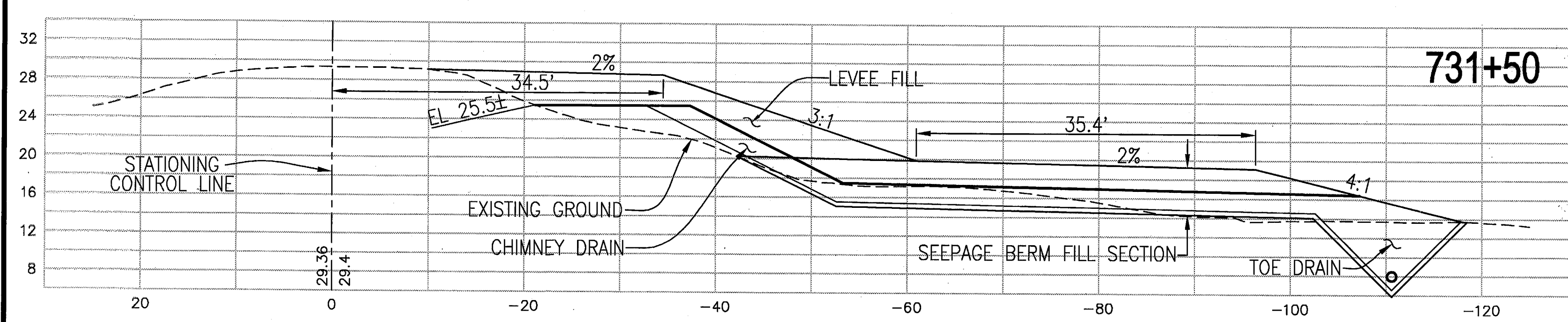
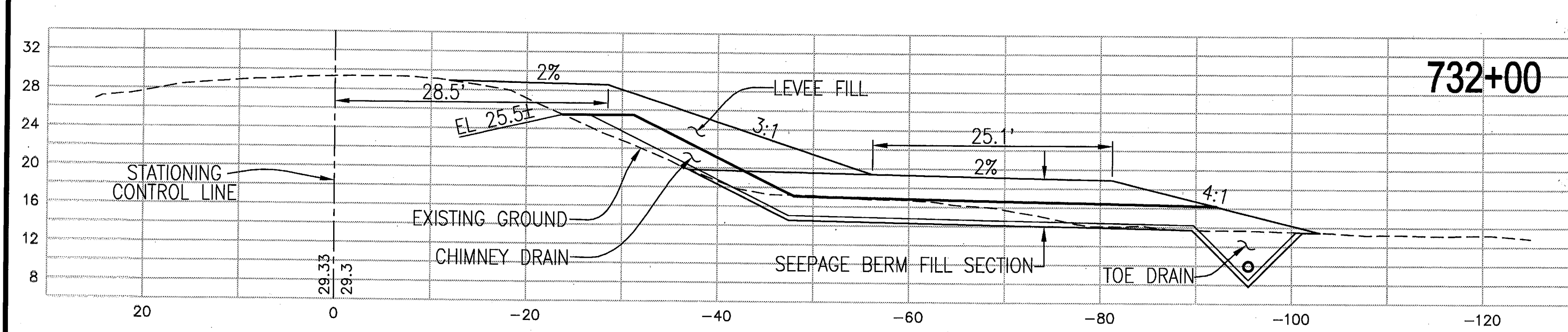
PLANS PREPARED UNDER THE DIRECTION OF:
MACKAY & SOMPS
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94568 (925) 225-0690
 CITY OF LATHROP, SAN JOAQUIN COUNTY CALIFORNIA

RECLAMATION DISTRICT NO. 17
 ELEMENT VI-A.3
 THRU SEEPAGE SECTIONS
 723+25 THRU 730+00

5	REV. THRU SEEPAGE ELEV.	4/26/10
4	THRU SEEPAGE; REVISE SHTS. 1,4,5,6 & ADD SHTS. 8-11	4/16/10
3	REVISE BERM SECTION AT EX. LEVEE, ISSUE ADDENDUM #1	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09
NO.	REVISION	DATE

DATE: JULY 2009
 SCALE: _____
 DRAWN BY: GB
 DESIGNED BY: CWG
 CHECKED BY: JSL

PROJECT NO. 25126.03
 SHT 8 OF 11



RECORD DRAWING
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE GSA INSPECTOR.

BY: *J. Steven Lichliter* 9-20-10
 J. STEVEN LICHLITER RCE NO. 41637
 EXP. 12/31/11
 CIVIL ENGINEER
 STATE OF CALIFORNIA

PLANS REVIEWED AND APPROVED BY:

K S SINOECK
NEUDECK
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Fax: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT ELEMENT VI-A.3 DATED 5/15/09

ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

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RECLAMATION DISTRICT NO. 17
 ELEMENT VI-A.3
 THRU SEEPAGE SECTIONS
 730+50 THRU 735+00
 CITY OF LATHROP, SAN JOAQUIN COUNTY CALIFORNIA

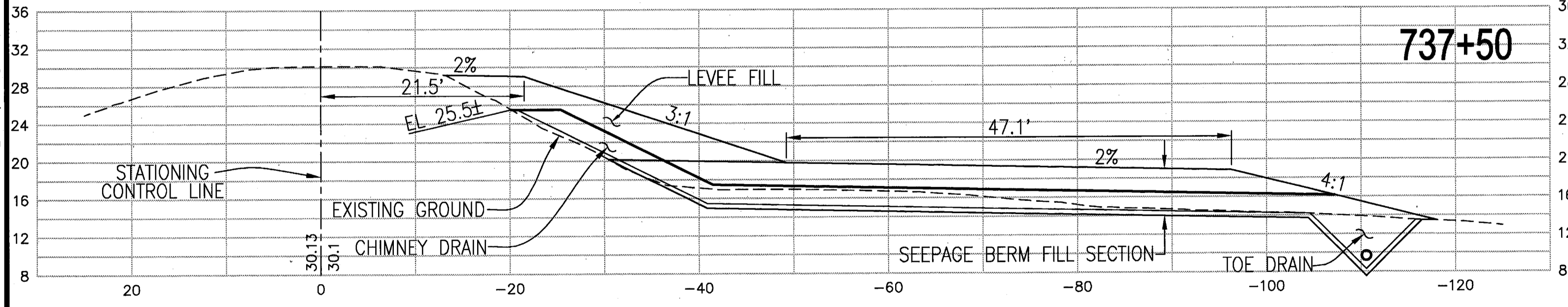
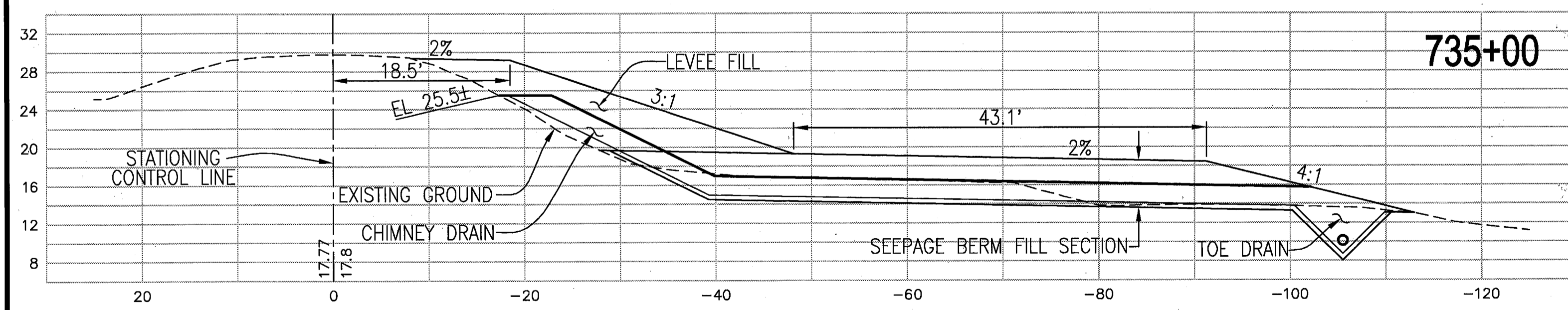
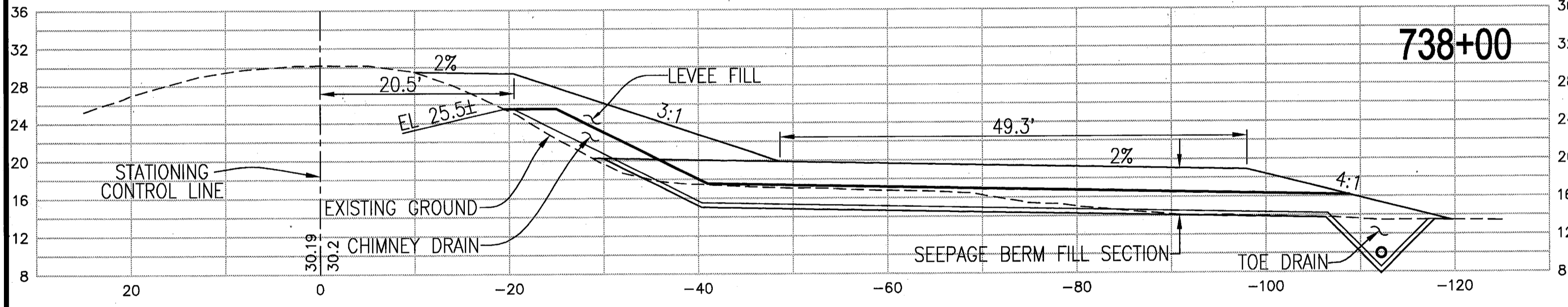
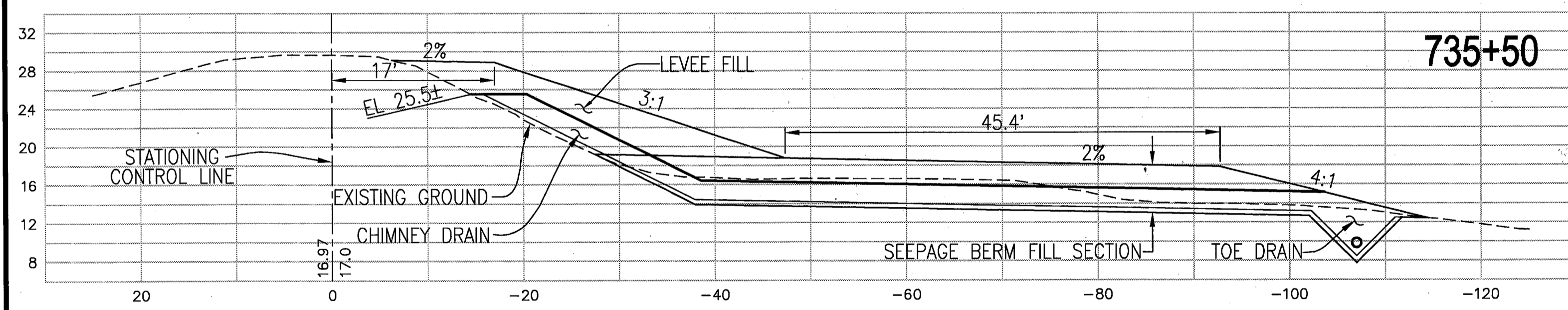
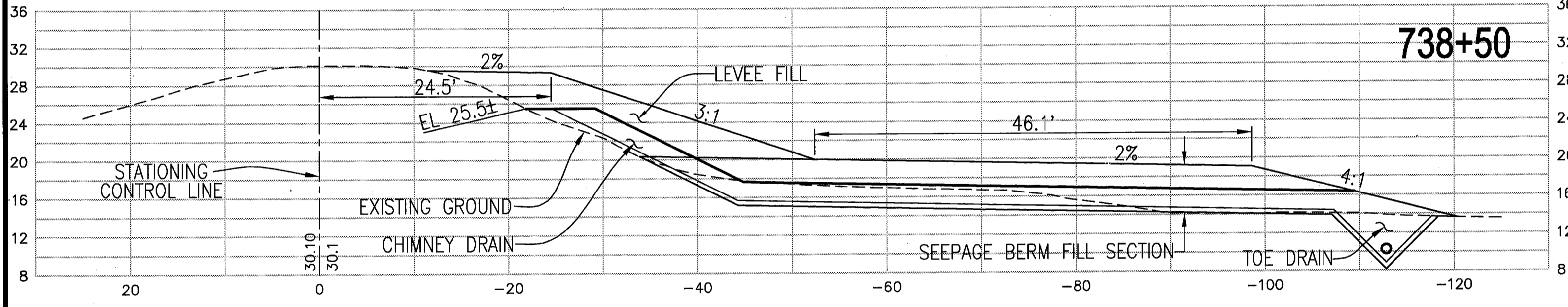
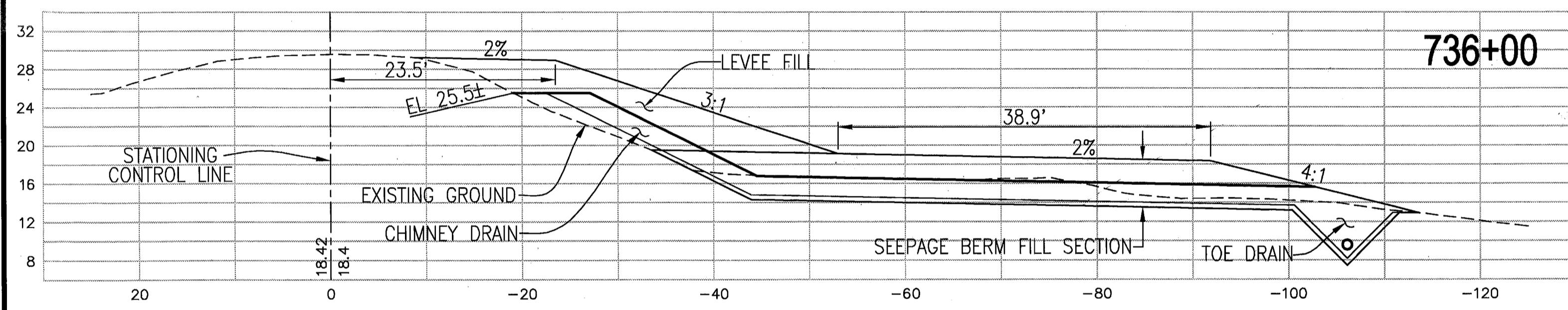
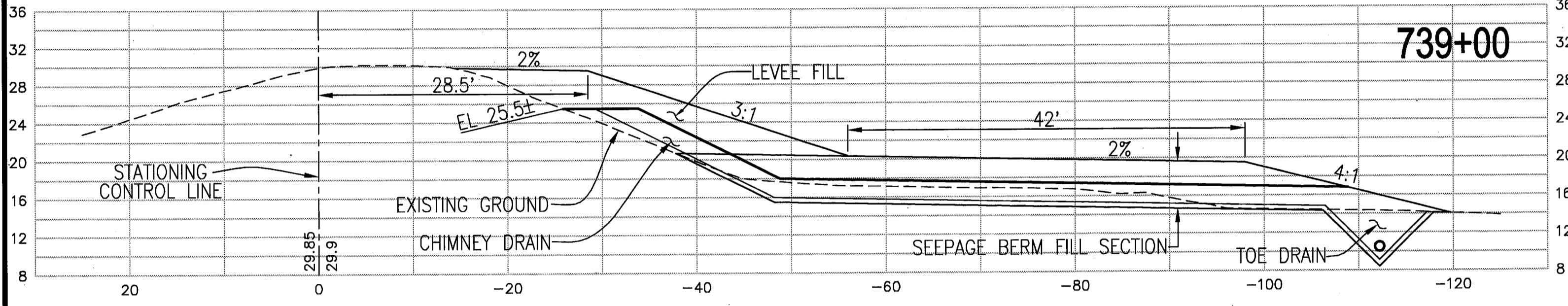
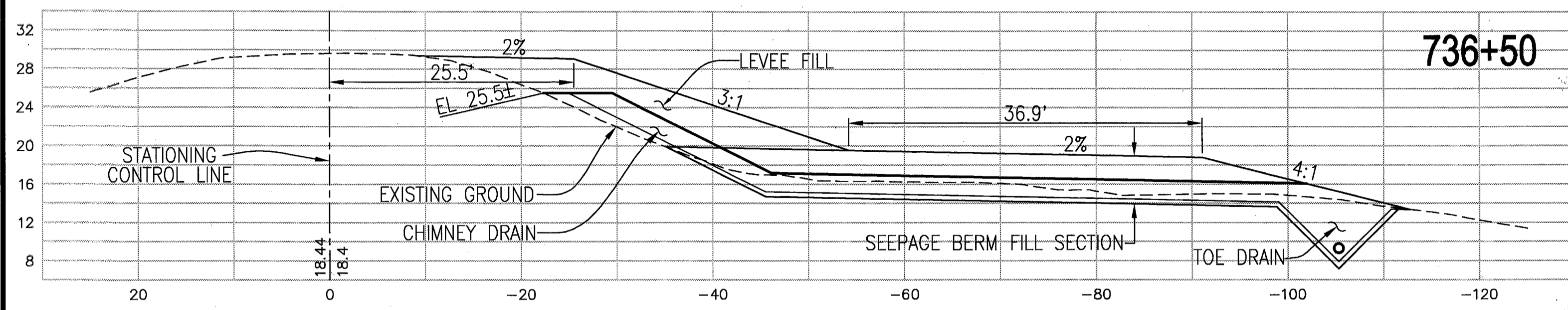
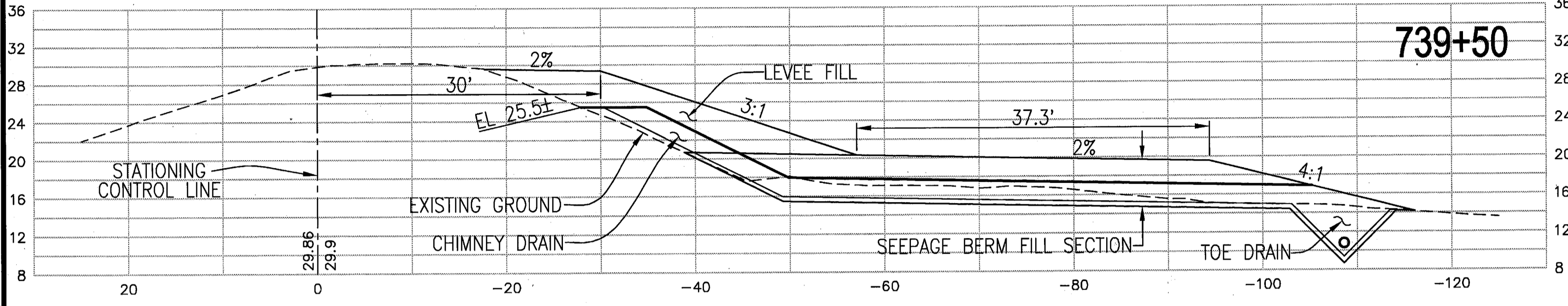
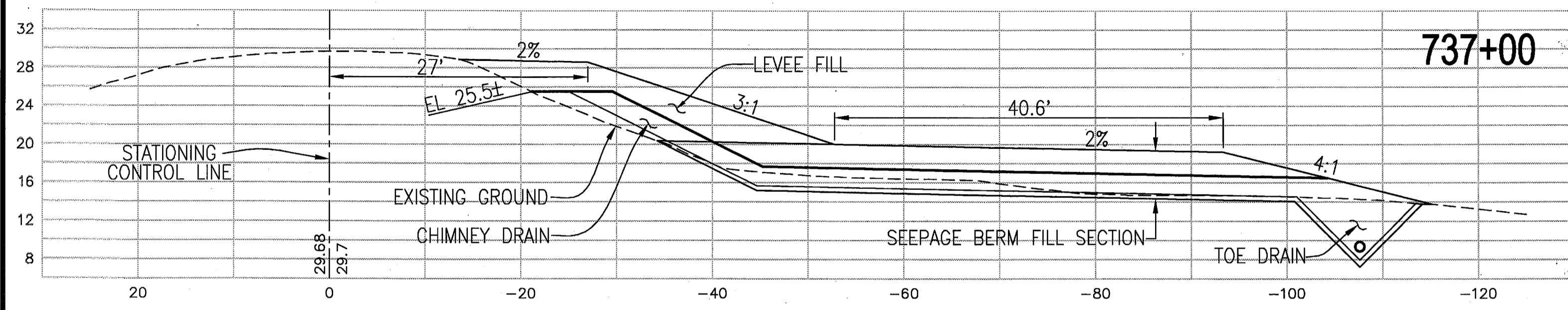
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DATE: JULY 2009
 SCALE: _____
 DRAWN BY: GB
 DESIGNED BY: CWG
 CHECKED BY: JSL

PROJECT NO. 25126.03
 SHEET 9 OF 11

RECORD DRAWING
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BY: *J. Steven Lichliter* 9-30-10
 J. STEVEN LICHLITER RCE NO. 41637
 EXPIRES: DECEMBER 31, 2011



PLANS REVIEWED AND APPROVED BY:
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 Consulting Engineers and Land Surveyors
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 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT ELEMENT VI-A.3 DATED 5/5/09
ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:
MACKAY & SOMPS
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690
 CIVIL ENGINEER
 No. 41637
 EXP. 12/31/09

RECLAMATION DISTRICT NO. 17
ELEMENT VI-A.3
 THRU SEEPAGE SECTIONS
 735+50 THRU 740+00
 CITY OF LATHROP, SAN JOAQUIN COUNTY CALIFORNIA

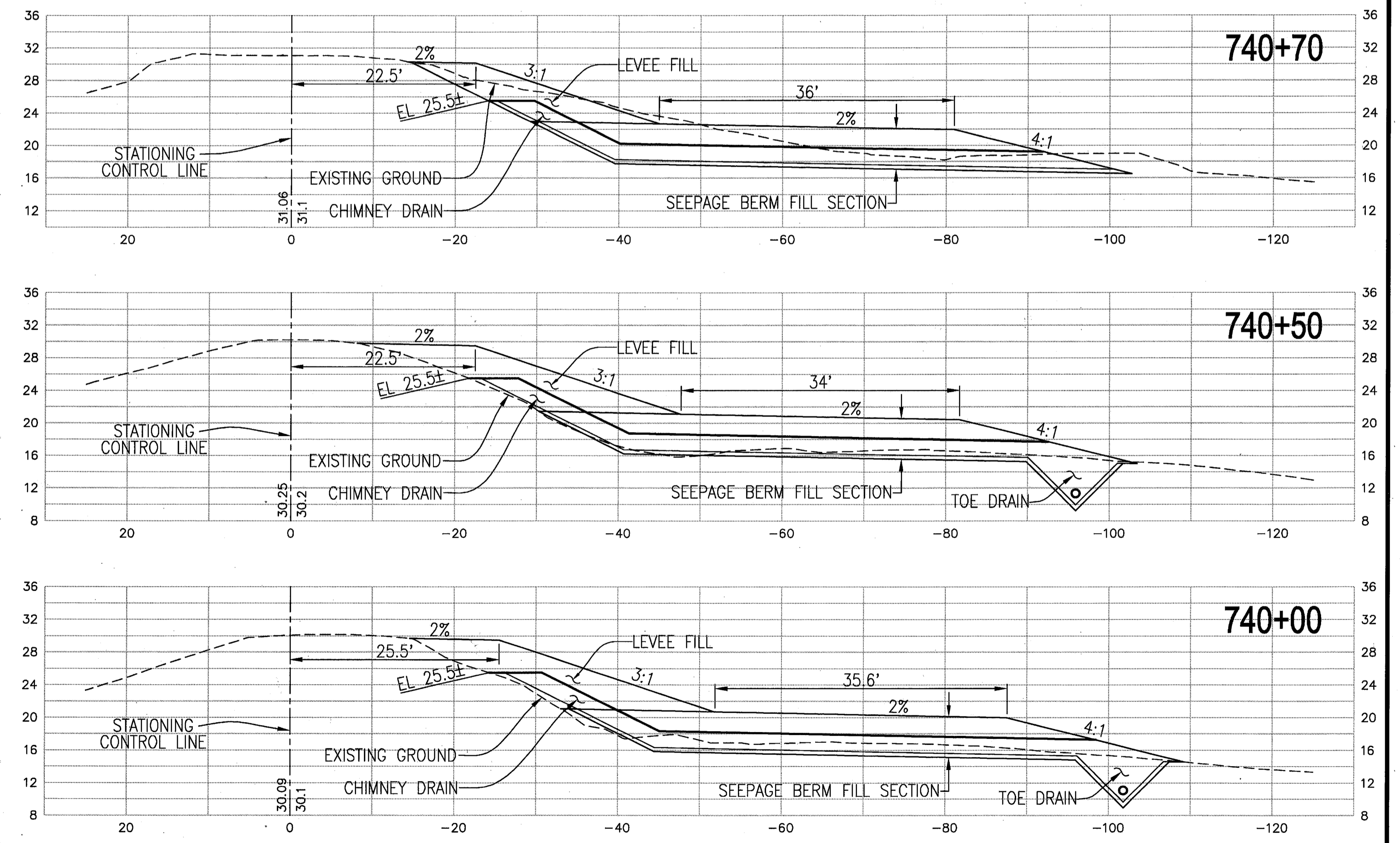
NO.	REVISION	DATE
5	REV. THRU SEEPAGE ELEV.	4/26/10
4	THRU SEEPAGE: REVISE SHITS. 1,4,5,&6 ADD SHITS. 8-11	4/16/10
3	REVISE BERM SECTION AT EX. LEVEL, ISSUE ADDENDUM #1	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

DATE: JULY 2009
 SCALE: _____
 DRAWN BY: GB
 DESIGNED BY: CWG
 CHECKED BY: JSL
 PROJECT NO. 25126.03
 SHT 10 OF 11

RECORD DRAWING

THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.

BY: *St. J. Lichter* 9-30-10
 J. STEVEN LICHLITER RCE NO. 41637
 EXPIRES: DECEMBER 31, 2011



PLANS REVIEWED AND APPROVED BY:

K S N KJELSDEN SINNOCK NEUDECK INC. Consulting Engineers and Land Surveyors

Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT ELEMENT VI-A.3 DATED 5/5/09

ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

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 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690

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**RECLAMATION DISTRICT NO. 17
 ELEMENT VI-A.3**

THRU SEEPAGE SECTIONS
 740+50 THRU 740+70

CITY OF LATHROP, SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE
5	REV. THRU SEEPAGE ELEV.	4/28/10
4	THRU SEEPAGE: REVISE SHTS. 1,4,5,6& ADD SHTS. 9-11	4/18/10
3	REVISE BERM SECTION AT EX. LEVEE, ISSUE ADDENDUM #1	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	8/17/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

DATE: JULY 2009

SCALE: _____

DRAWN BY: GB

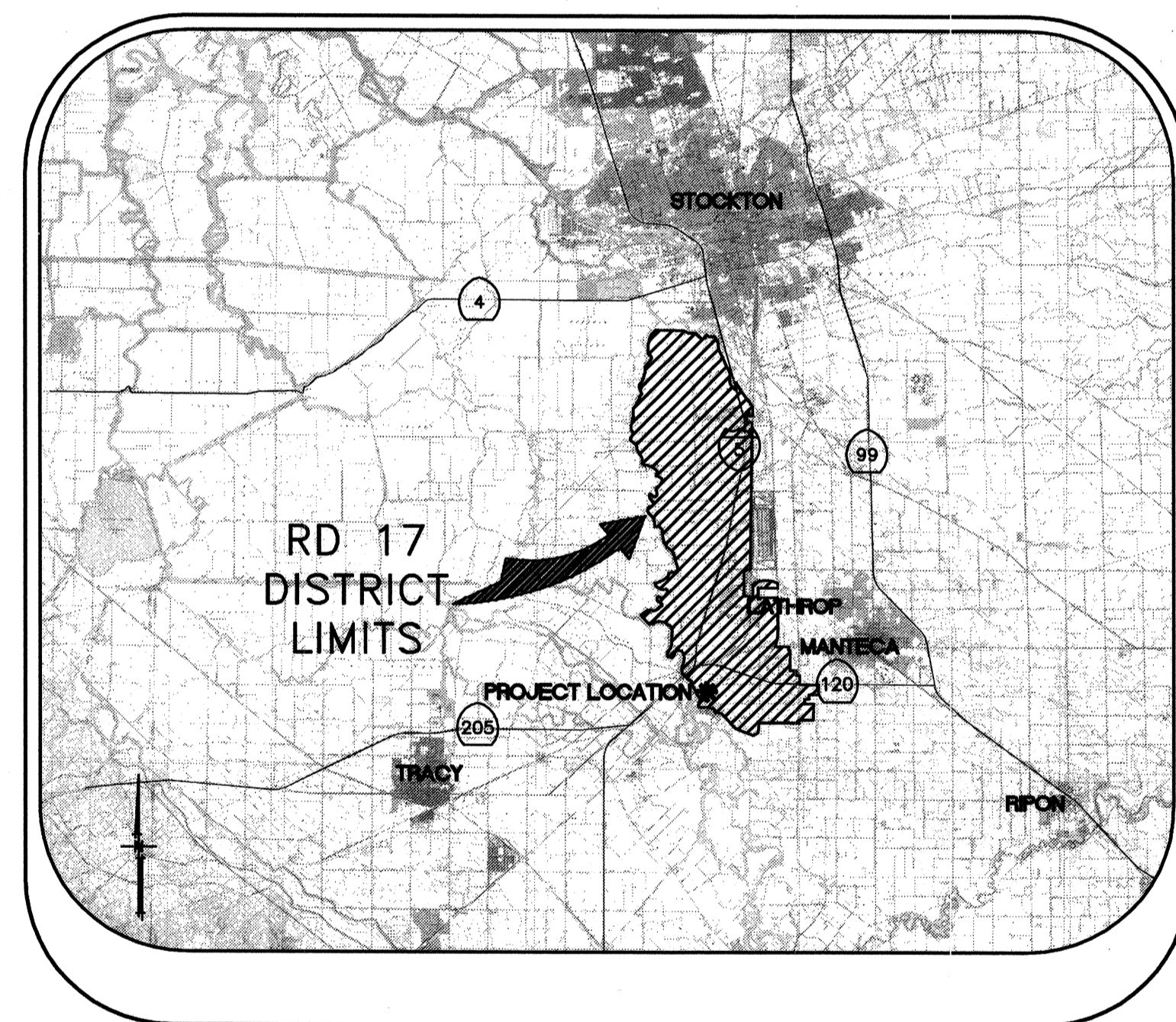
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CHECKED BY: JSL

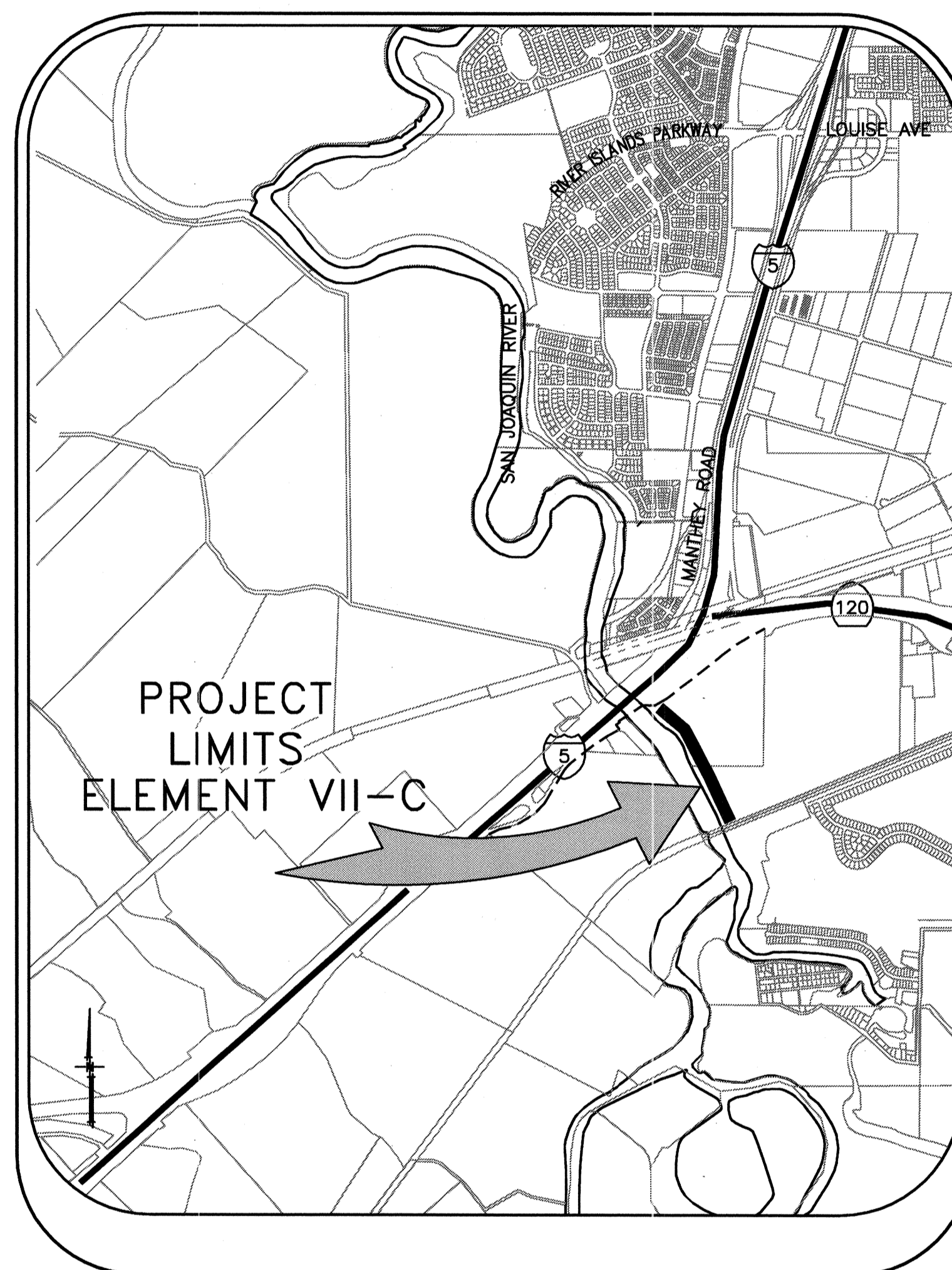
PROJECT NO. 25126.03

SHT 11 OF 11

RECLAMATION DISTRICT NO. 17 LEVEE SEEPAGE PROJECT ELEMENT VII-C STATION 778+00 THRU 799+50



VICINITY MAP

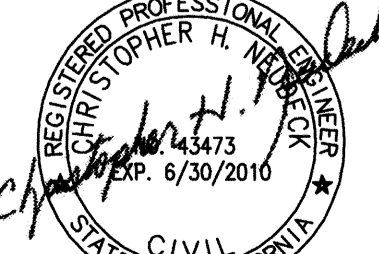



PROJECT SITE MAP

SHEET	DESCRIPTION
1.	COVER SHEET
2.	STATIONING MAP / HAUL ROUTES
3.	NOTES & BORING LOCATIONS
4.	TYPICAL SECTIONS & DETAILS
5.	SEEPAGE BERM PLAN VIEW
6.	SEEPAGE BERM PLAN VIEW
7.	SEEPAGE BERM PROFILE VIEW
8.	SELECTED CROSS-SECTIONS
△ 8-13.	THRU-SEEPAGE CROSS-SECTIONS

INDEX

RECORD DRAWINGS
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE EXCEPTIONS NOTED FOR FIELD CHANGES. ANY CHANGES TO THESE PLANS SHALL BE THE RESPONSIBILITY OF THE ENGINEER, BY THE SIGNATURE OF THE ENGINEER AND INSPECTOR.
 No. 43061
 EXP. 3/31/12
 CIVIL
 STATE OF CALIFORNIA
 JAMES P. TEMPLETON
 RCE 4091 EXP. 2/1/12
 DATE: 6/17/10

PLANS REVIEWED AND APPROVED BY:

KSN
KJELDSSEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors
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 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0288
 Fax: (209) 946-0298
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17 MOSSDALE TRACT ELEMENT VII-C DATED MARCH 13, 2009

ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971
 5/5/09

PLANS PREPARED UNDER THE DIRECTION OF:

Mackay & Somp
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690
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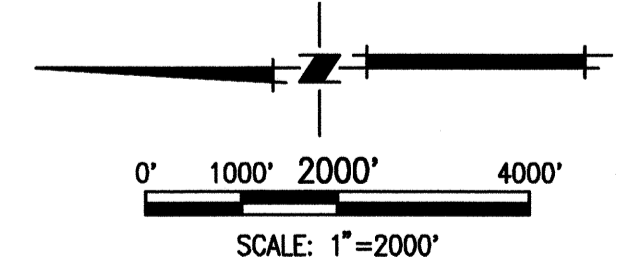
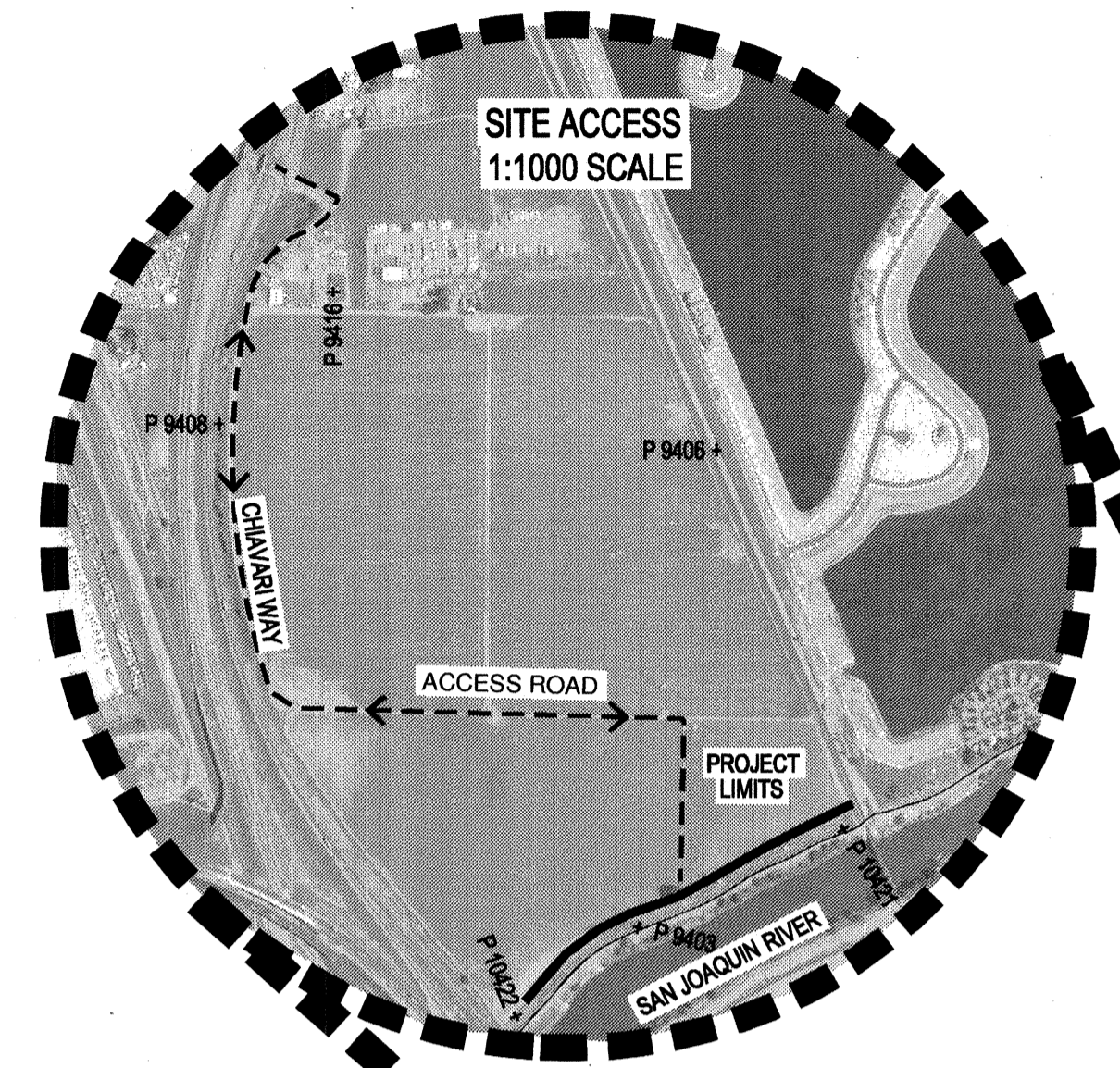
**RECLAMATION DISTRICT NO. 17
ELEMENT VII-C**
 COVER SHEET
 SAN JOAQUIN COUNTY CALIFORNIA

5 As-Noted 4 THRU SEEPAGE: REV SHTS 1, 4, 5, & 6. DELETED SHT 8, ADDED SHTS. 8-13 3 REVISE SEEPAGE BERM SECTION AT LEVEE. ADD ADDENDUM #1 TO PLANS 2 ISSUE CONSTRUCTION DOCUMENTS 1 REVISION TO ADDRESS PLAN CHECK COMMENTS	6-16-10 4/16/10 10/8/09 9/1/09 7/20/09	DATE: JULY 2009 SCALE: NOT TO SCALE DRAWN BY: EUN DESIGNED BY: CWG CHECKED BY: JSL	PROJECT NO. 25126.03 SHT 1 OF 13
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------	------------------------------------------------------------------------------------------------	-------------------------------------

CONTROL POINTS
 P 9403 N2108690.538 E6329801.435 EL=30.45 MS111
 P 9406 N2108284.215 E6332501.673 EL=11.93 MS114
 P 9408 N2110990.838 E6332593.941 EL=13.94 MS116
 P 9416 N2110385.318 E6333959.684 B&W TR2000
 P 10421 N2107542.060 E6330358.510 EL=30.56 9421 SRJ 568R 1998 (1 1/2" CAP)
 P 10422 N2109325.507 E6329251.766 EL=31.18 9422MS110

← ← ← → → →
 INDICATES HAUL ROUTES TO BE USED BY CONTRACTOR

THE BASIS OF BEARINGS IS NORTH 12D33'37.56" EAST BETWEEN NATIONAL GEODETIC SURVEY HORIZONTAL CONTROL POINTS HPGN-D CA 10 HG (PID AA4256) AND MATTHEW (PID HS0118), CALIFORNIA COORDINATE SYSTEM ZONE 3, NAD83, EPOCH DATE 1997.30, AS CALCULATED AND ADJUSTED BY THE NATIONAL GEODETIC SURVEY IN JULY, 1998, AS SHOWN ON RECORD OF SURVEY RECORDED AT BOOK 34 PAGES 163 - 163B, OF SAN JOAQUIN COUNTY RECORDS. ALL DISTANCES SHOWN HEREON ARE GROUND DISTANCES. TO CONVERT TO GRID DISTANCE, MULTIPLY GROUND DISTANCE BY AVERAGE COMBINED SCALE FACTOR OF 0.999929125. ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).



RECORD DRAWINGS
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE PROJECT ARCHITECT, CONTRACTOR AND INSPECTOR.
 No. 43061
 EXP. 3/31/12
 CIVIL
 STATE OF CALIFORNIA
 [Signature] DATE

PLANS REVIEWED AND APPROVED BY:
KSN KJELSDEN SINNOCK NEUDECK INC. Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0288
 Fax: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17 MOSSDALE TRACT ELEMENT VII-C DATED MARCH 13, 2009
ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971
 5/5/09

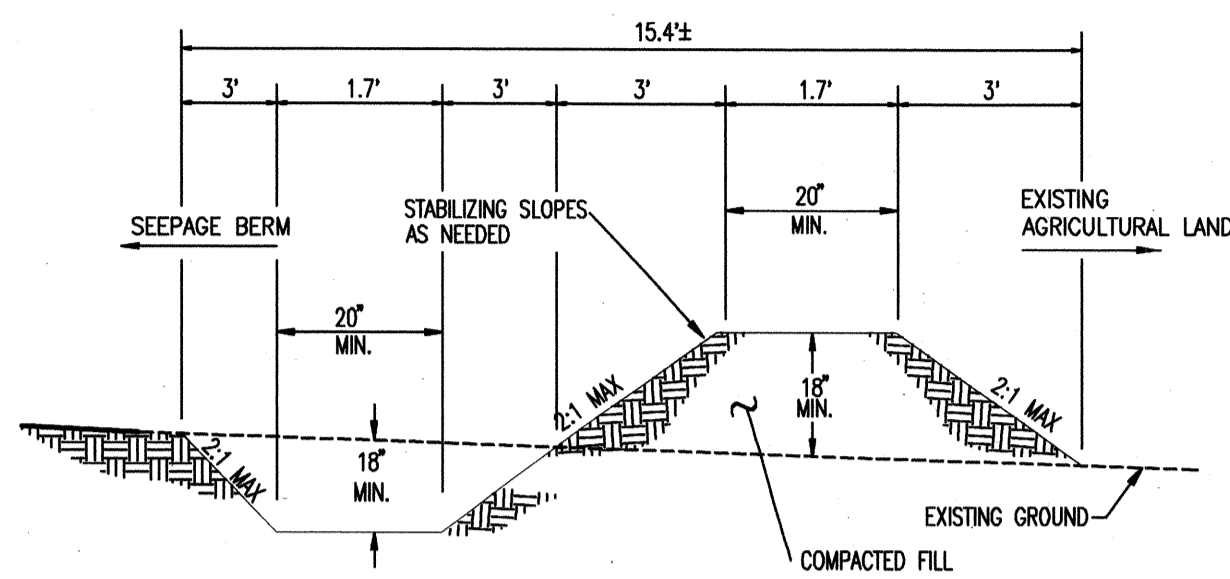
PLANS PREPARED UNDER THE DIRECTION OF:
Mackay & Sumps
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94568 (925) 225-0690
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 5-5-09

RECLAMATION DISTRICT NO. 17
 ELEMENT VII-C
 STATIONING MAP / HAUL ROUTES
 SAN JOAQUIN COUNTY CALIFORNIA

5	As Noted	6-16-10
4	THRU SEEPAGE: REV SHTS 1, 4, 5, & 6. DELETED SHIT 8, ADDED SHITS. 8-13	4/16/10
3	REVISE SEEPAGE BERM SECTION AT LEVEE. ADD ADDENDUM #1 TO PLANS	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	9/1/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09
NO.	REVISION	DATE

DATE: JULY 2009
 SCALE: 1"=2000'
 DRAWN BY: E.J.N.
 DESIGNED BY: CWG
 CHECKED BY: JSL

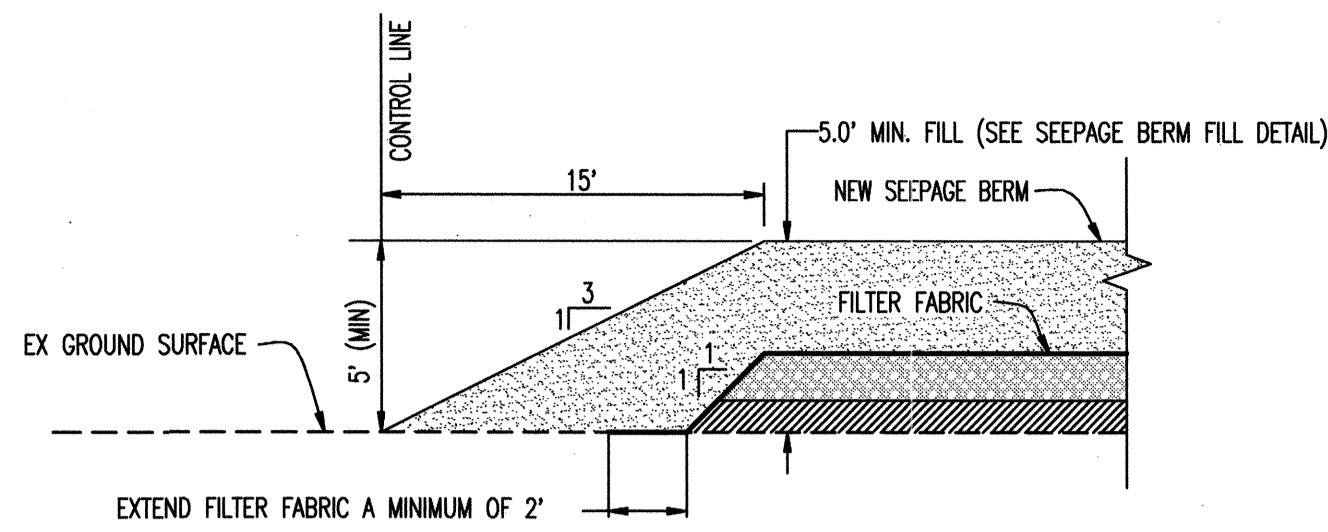
PROJECT NO. 25126.03
 SHEET 2 OF 13



- NOTES:
1. STABILIZE SLOPE PER GEOTECHNICAL ENGINEERS RECOMMENDATION
 2. SWALE TO BE REMOVED UPON COMPLETION OF SEEPAGE BERM CONSTRUCTION

TYPICAL
EROSION CONTROL
BERM

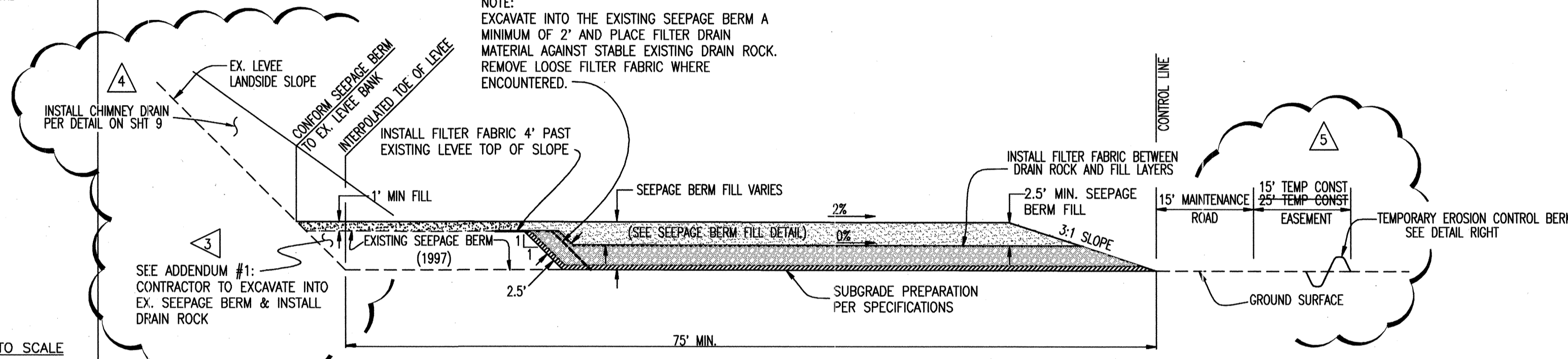
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SECTION A: NORTH END OF BERM TRANSITION

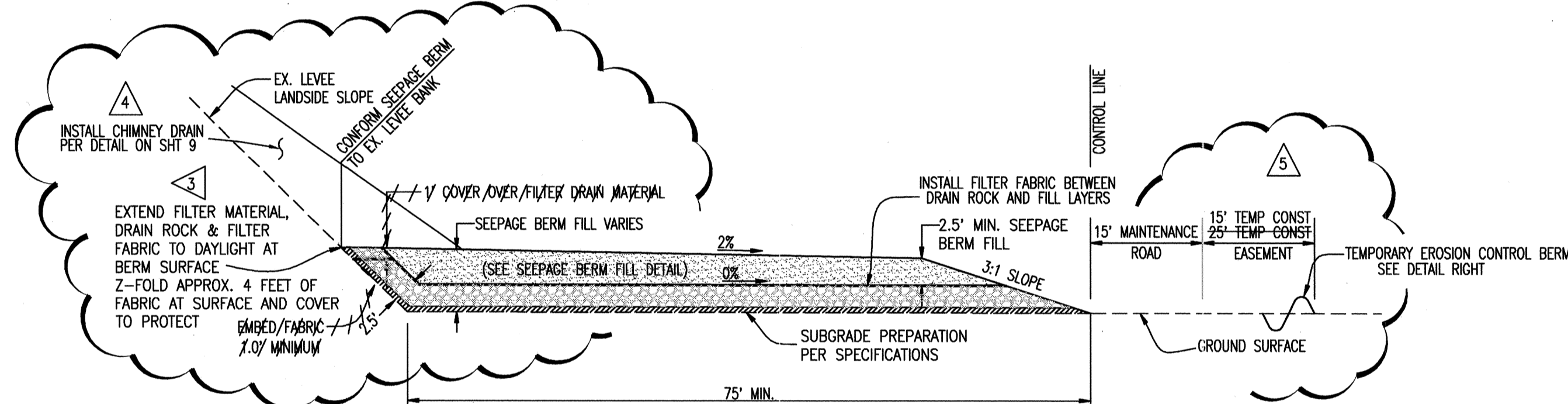
NTS

NOTE:
EXCAVATE INTO THE EXISTING SEEPAGE BERM A MINIMUM OF 2' AND PLACE FILTER DRAIN MATERIAL AGAINST STABLE EXISTING DRAIN ROCK. REMOVE LOOSE FILTER FABRIC WHERE ENCOUNTERED.



SECTION B: STATION 778+00 THRU 783+50
STA: 788+50 THRU 799+50

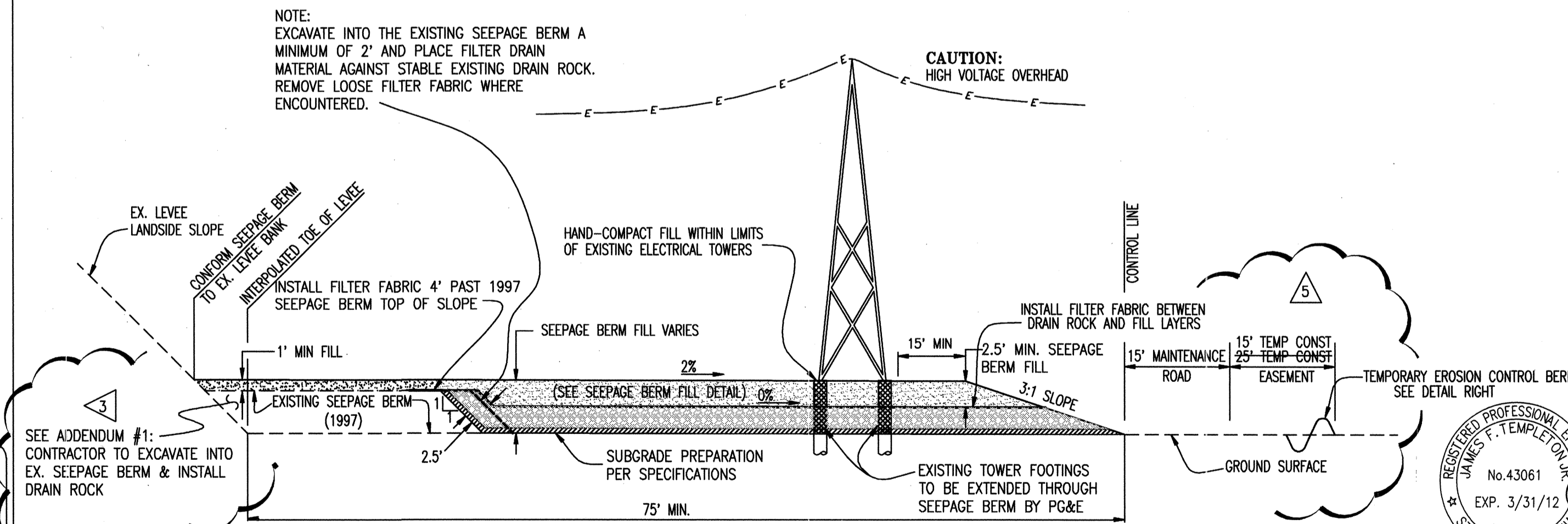
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SECTION C: STATION 783+50 THRU 788+50

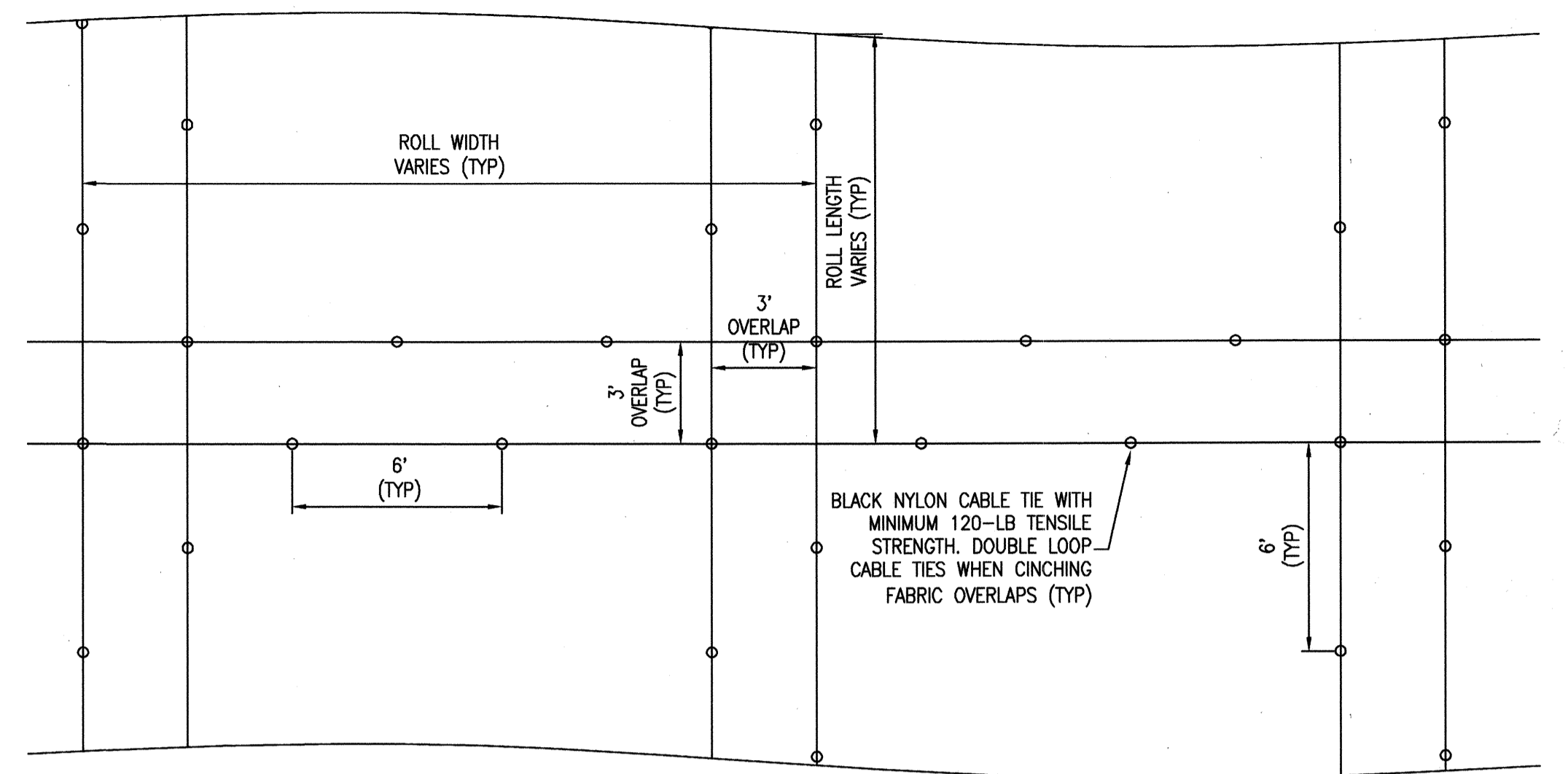
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NOTE:
EXCAVATE INTO THE EXISTING SEEPAGE BERM A MINIMUM OF 2' AND PLACE FILTER DRAIN MATERIAL AGAINST STABLE EXISTING DRAIN ROCK. REMOVE LOOSE FILTER FABRIC WHERE ENCOUNTERED.



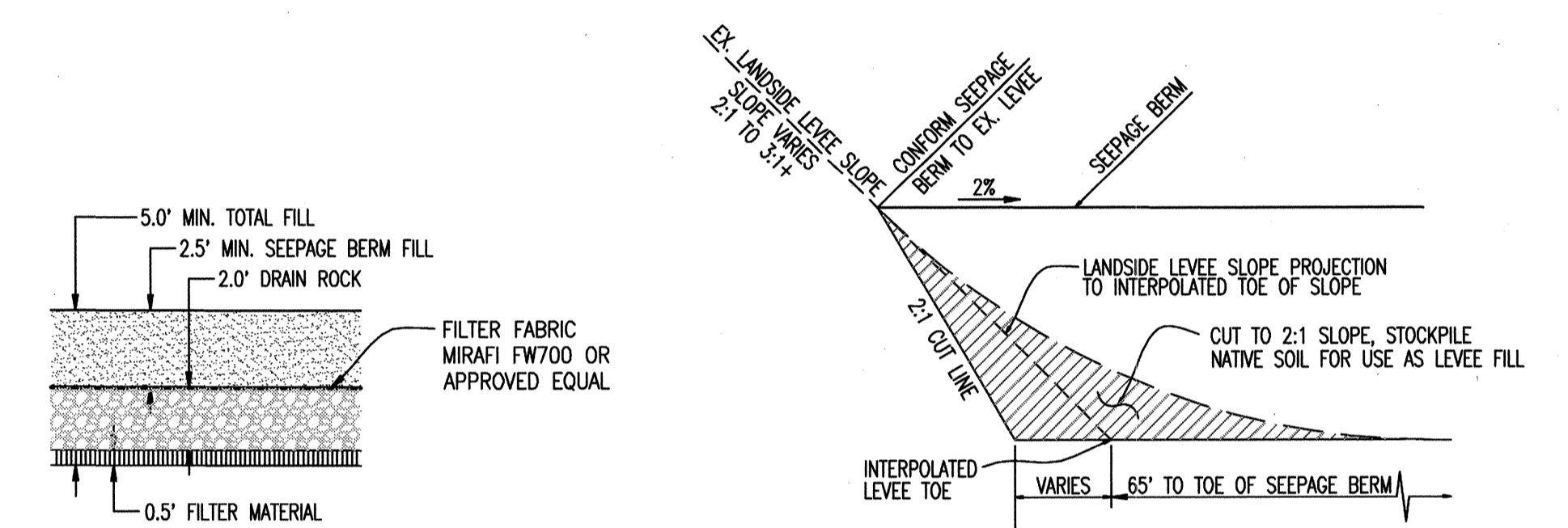
SECTION D: STATION 791+25 & STATION 795+25

NTS



TYPICAL MIRAFI FW700 OVERLAP INSTALLATION DETAIL

NTS

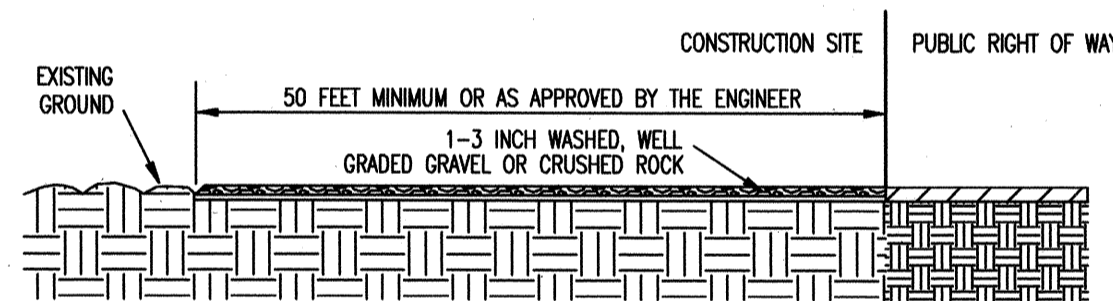


SEEPAGE BERM FILL DETAIL

NTS

LEVEE CONFORM DETAIL

NTS



PROFILE VIEW

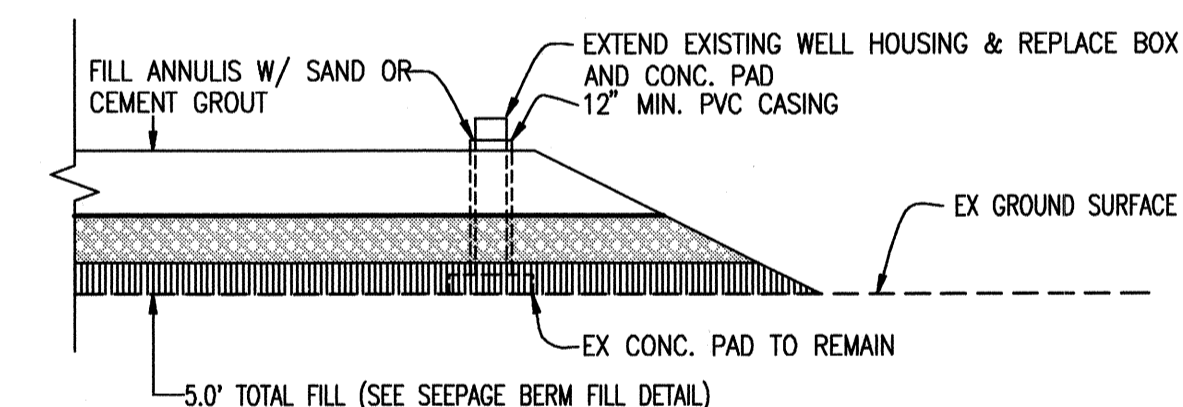
15 FEET MINIMUM

PLAN VIEW

- NOTES:
1. CONSTRUCT AT ALL ENTRANCES TO THE PROJECT SITE AS APPROVED BY THE ENGINEER
 2. THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING WITH ROCK MATERIAL
 3. ACCESSSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL, WITH MAINTENANCE PROVIDED AS NECESSARY. PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.

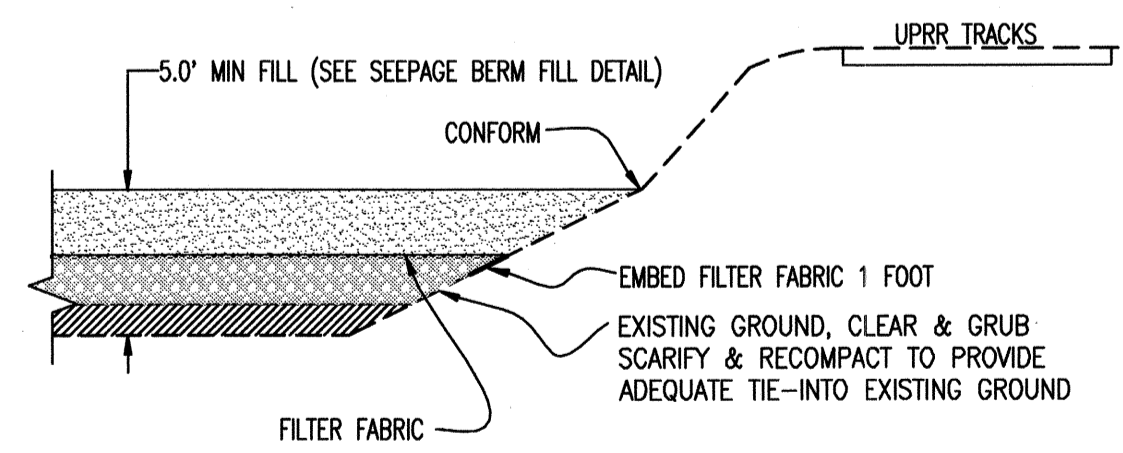
STABILIZED
CONSTRUCTION
SITE ACCESS

NOT TO SCALE



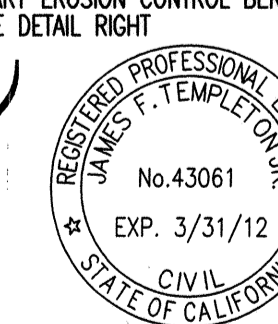
EXISTING WELL PROTECTION DETAIL

NTS



SECTION E: SOUTH END OF BERM TRANSITION AT UPRR TRACKS

NTS



RECORD DRAWINGS
THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES PRIOR TO THE START OF CONSTRUCTION BY THE CONTRACTOR AND INSPECTOR.
DATE: 7/1/09
BY: [Signature]

PLANS REVIEWED AND APPROVED BY:

K S N KJELSDEN SINNOCK NEUDECK INC. Consulting Engineers and Land Surveyors

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711 N. Pershing Avenue
Stockton, CA 95201-0844
Office: (209) 946-0268
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E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT ELEMENT VII-C DATED MARCH 13, 2009

ENGEO INCORPORATED
EXCELLENT SERVICE SINCE 1971

5/15/09

PLANS PREPARED UNDER THE DIRECTION OF:

Mackay & Somp ENGINEERS PLANNERS SURVEYORS
5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0890

5-5-09

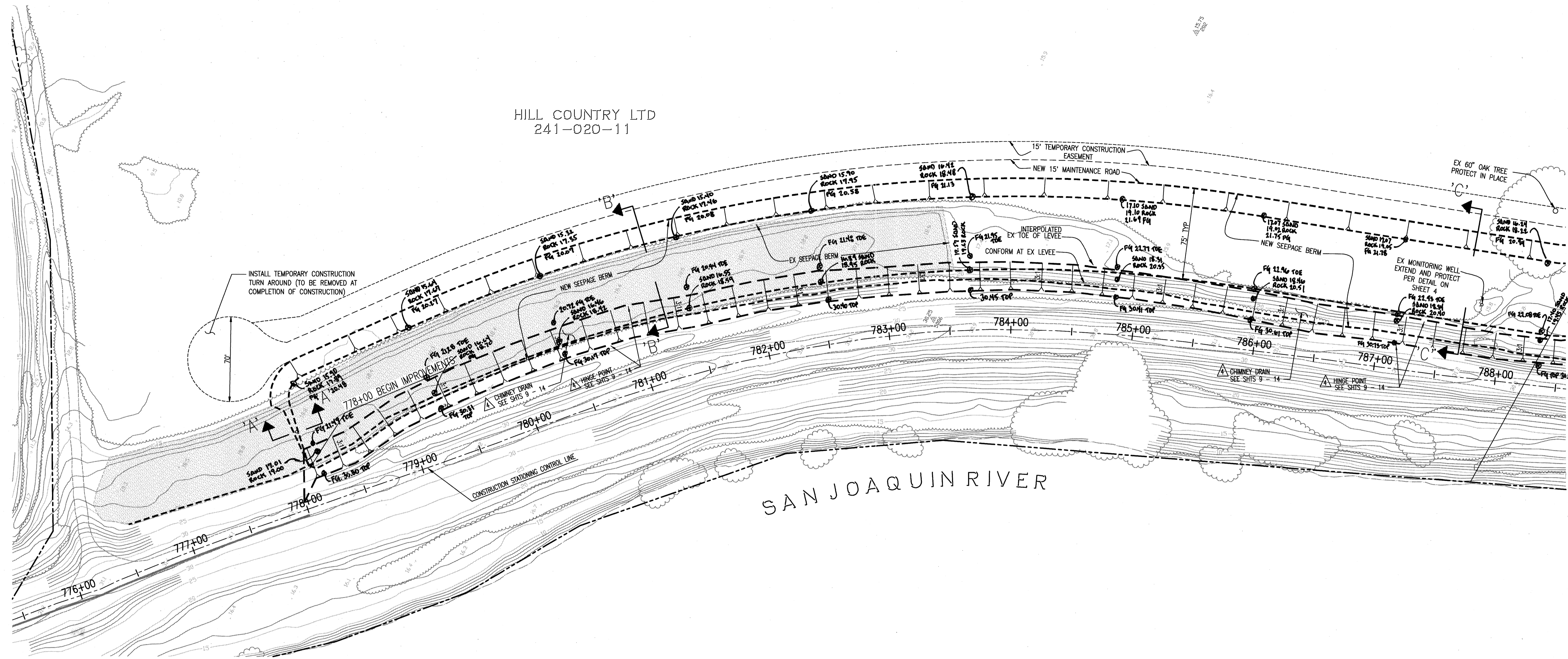
RECLAMATION DISTRICT NO. 17
ELEMENT VII-C
TYPICAL SECTIONS AND DETAILS

SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE
5	AS NOTED	6/11/09
4	THRU SEEPAGE: REV SHITS 1, 4, 5, & 6. DELETED SHIT 8. ADDED SHITS, 8-13	4/15/10
3	REVISE SEEPAGE BERM SECTION AT LEVEE. ADD ADDENDUM #1 TO PLANS	10/8/08
2	ISSUE CONSTRUCTION DOCUMENTS	9/1/08
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/08

DATE:	JULY 2009	PROJECT NO.	25126.03
SCALE:		SHT	4a
DRAWN BY:	EJN	OF	13
DESIGNED BY:	CWG		
CHECKED BY:	JSL		

HILL COUNTRY LTD
241-020-11



SEE SHEET 5 @ CHANGE LANE

WARNING • CAUTION
EXISTING UNDERGROUND UTILITIES
CONTACT : UNDERGROUND SERVICE ALERT
PHONE: (800) 642-2444
FOR MARKING PRIOR TO DIGGING

RECORD DRAWINGS
THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES PROJECT TO THE ATTENTION OF THE ENGINEER BY THE PROJECT CONTRACTOR AND INSPECTOR.
No. 43061
EXP. 3/31/12
DATE: 6/17/10
SCALE: 1"=40'

TOPOLOGY SOURCE: SOUTH LATHROP AERIAL TOPO

PLANS REVIEWED AND APPROVED BY:

KSN KJELDSSEN SINNOCK NEUDECK INC. Consulting Engineers and Land Surveyors
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711 N. Pershing Avenue
Stockton, CA 95201-0844
Office: (209) 946-0268
Faxes: (209) 946-0296
E-mail: KSN@ksninc.com

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ENGEO INCORPORATED
EXCELLENT SERVICE SINCE 1971

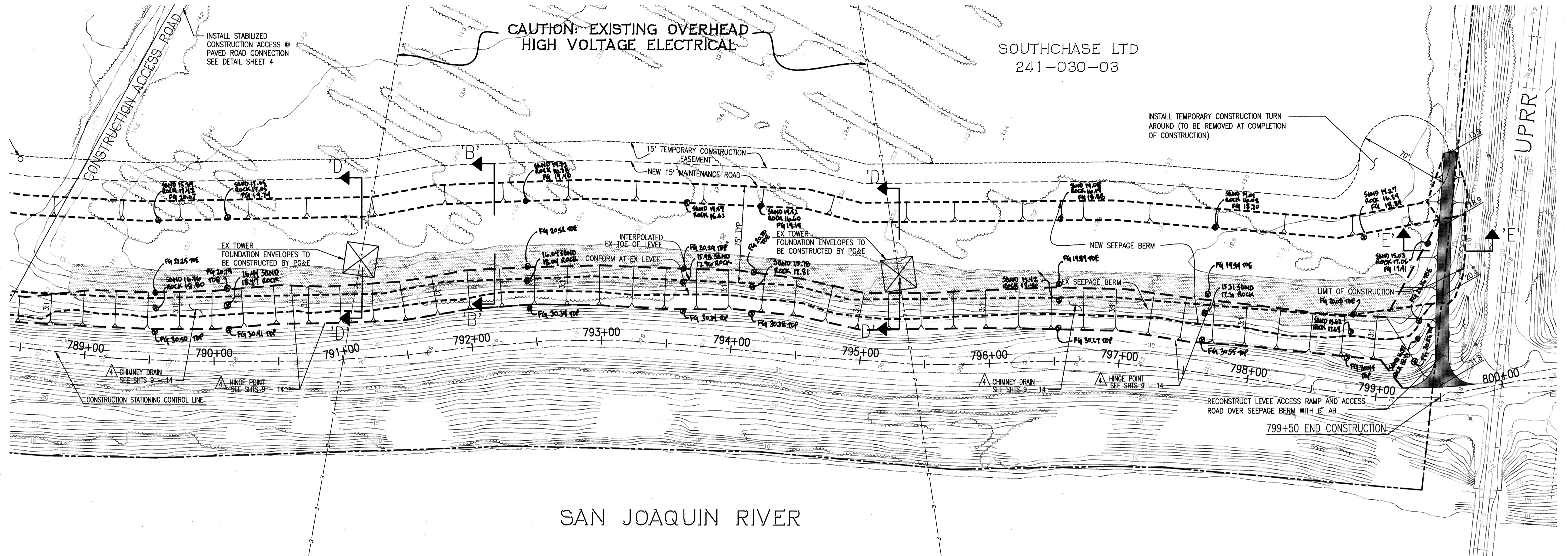
PLANS PREPARED UNDER THE DIRECTION OF:

Mackay & Somps
ENGINEERS PLANNERS SURVEYORS
5142 Franklin Drive, Suite 8, Pleasanton, CA 94588 (925) 226-0890

RECLAMATION DISTRICT NO. 17
ELEMENT VII-C
SEEPAGE BERM PLAN VIEW
SAN JOAQUIN COUNTY CALIFORNIA

5	As-QUICK	6-16-10	DATE: JULY 2009	PROJECT NO. 25126.03
4	THRU SEEPAGE: REV SHTS 1, 4, 5, & 6. DELETED SHIT 8, ADDED SHITS. 8-13	4/16/10	SCALE:	SHT 5
3	REVISE SEEPAGE BERM SECTION AT LEVEE. ADD ADDENDUM #1 TO PLANS	10/8/09	DRAWN BY: EUN	OF 13
2	ISSUE CONSTRUCTION DOCUMENTS	9/1/09	DESIGNED BY: CWG	
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09	CHECKED BY: JSL	

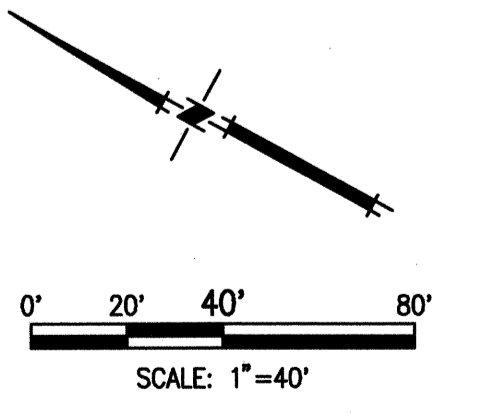
SEE SHEET 4



SAN JOAQUIN RIVER

WARNING • CAUTION
 EXISTING UNDERGROUND UTILITIES
 CONTACT : UNDERGROUND SERVICE ALERT
 PHONE: (800) 642-2444
 FOR MARKING PRIOR TO DIGGING

RECORD DRAWINGS
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE PROJECT OWNER. THE CONTRACTOR AND INSPECTOR.
 No. 43061
 EXP. 3/31/12
 DATE: 6/17/10
 CIVIL ENGINEER
 STATE OF CALIFORNIA



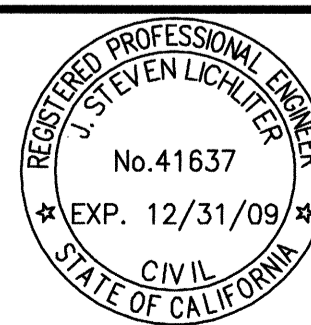
TOPOLOGY SOURCE: SOUTH LATHROP AERIAL TOPO

PLANS REVIEWED AND APPROVED BY:

K S N
KJELDSSEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
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 E-mail: KSN@ksninc.com



THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17 MOSSDALE TRACT ELEMENT VII-C DATED MARCH 13, 2009
ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971



PLANS PREPARED UNDER THE DIRECTION OF:

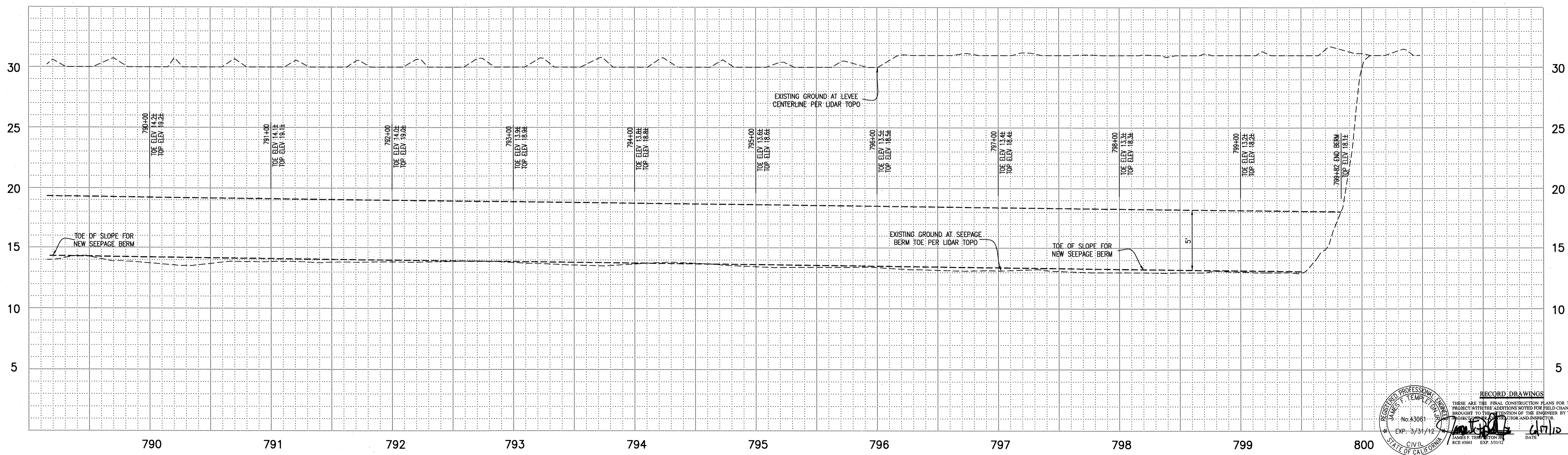
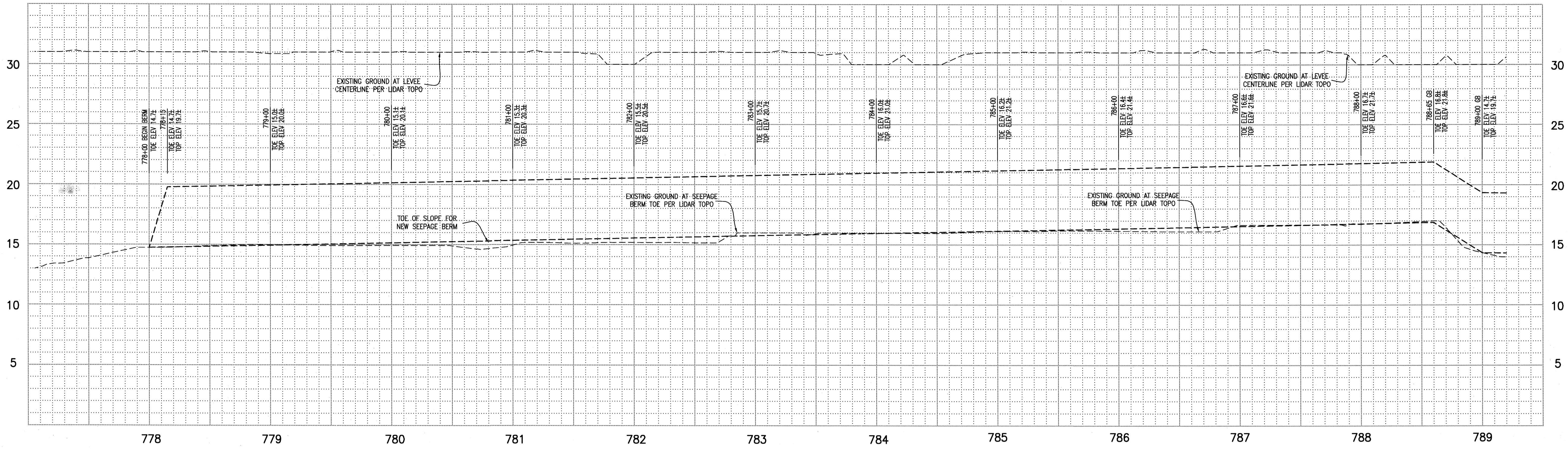
MACKAY & SOMPS
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94568 (925) 225-0690

RECLAMATION DISTRICT NO. 17
ELEMENT VII-C
SEEPAGE BERM PLAN VIEW

SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE
5	AS-BUILT	6-16-10
4	THRU SEEPAGE: REV SHITS 1, 4, 5, & 6. DELETED SHIT 8, ADDED SHITS 8-13	4/16/10
3	REVISE SEEPAGE BERM SECTION AT LEVEL. ADD ADDENDUM #1 TO PLANS	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	9/1/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

DATE: JULY 2009
 SCALE: _____
 DRAWN BY: EJJN
 DESIGNED BY: CWG
 CHECKED BY: JSL
 PROJECT NO. 25126.03
 SHT 6
 OF 13



RECORD DRAWINGS
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE EXCEPTIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE PROJECT OWNER AND/OR SUBMITTER.
 No. 43061
 EXP. 3/31/12
 CIVIL ENGINEER
 STATE OF CALIFORNIA
 JAMES F. TERRY
 RCE 43661 EXP. 3/31/12
 DATE: 4/17/10

TOPOLOGY SOURCE: SOUTH LATHROP AERIAL TOPO

PLANS REVIEWED AND APPROVED BY:

KSN INC. Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Fax: (209) 946-0296
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ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971

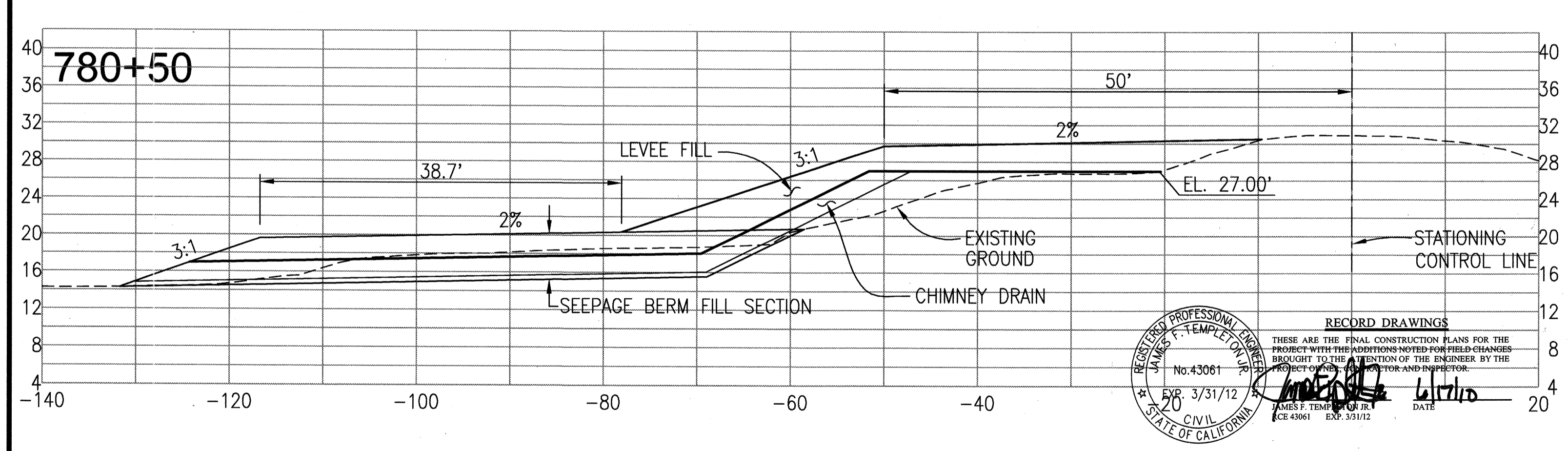
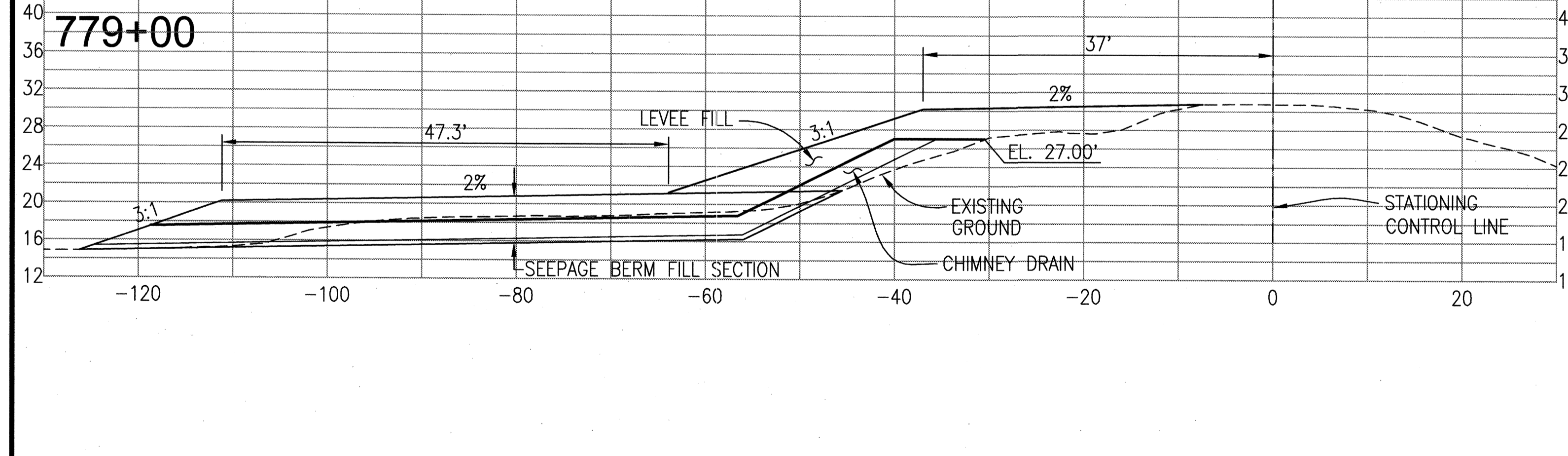
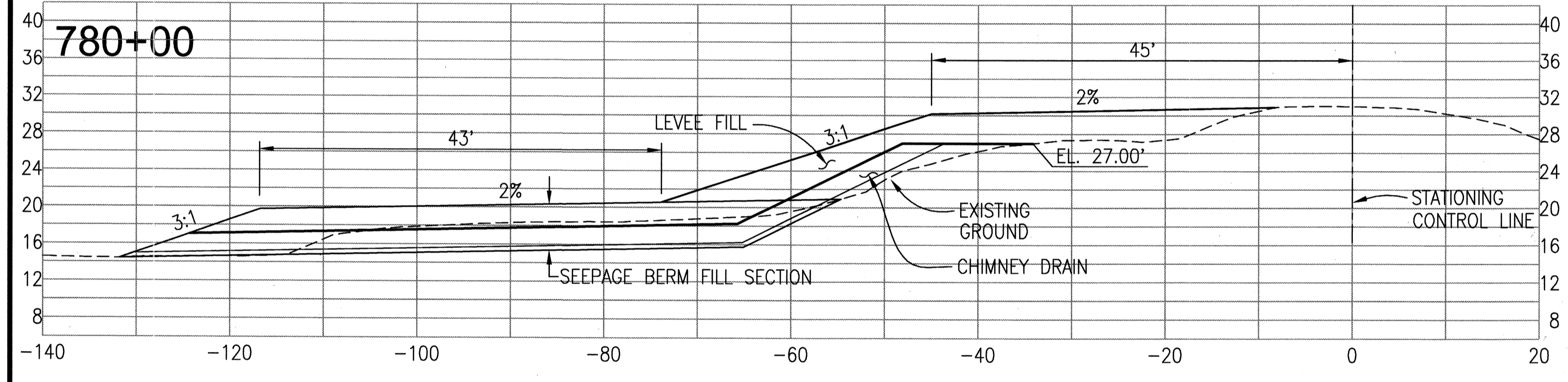
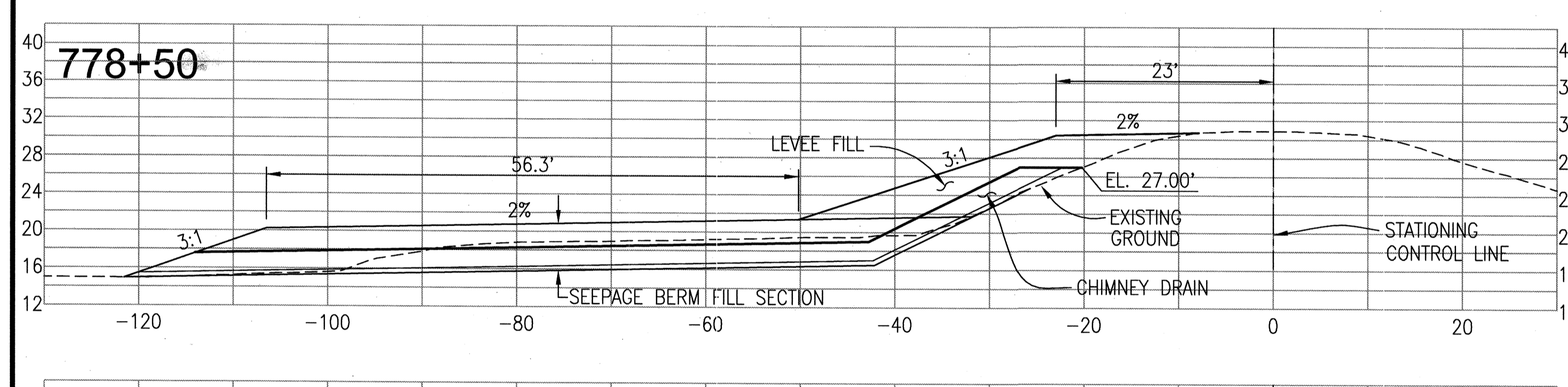
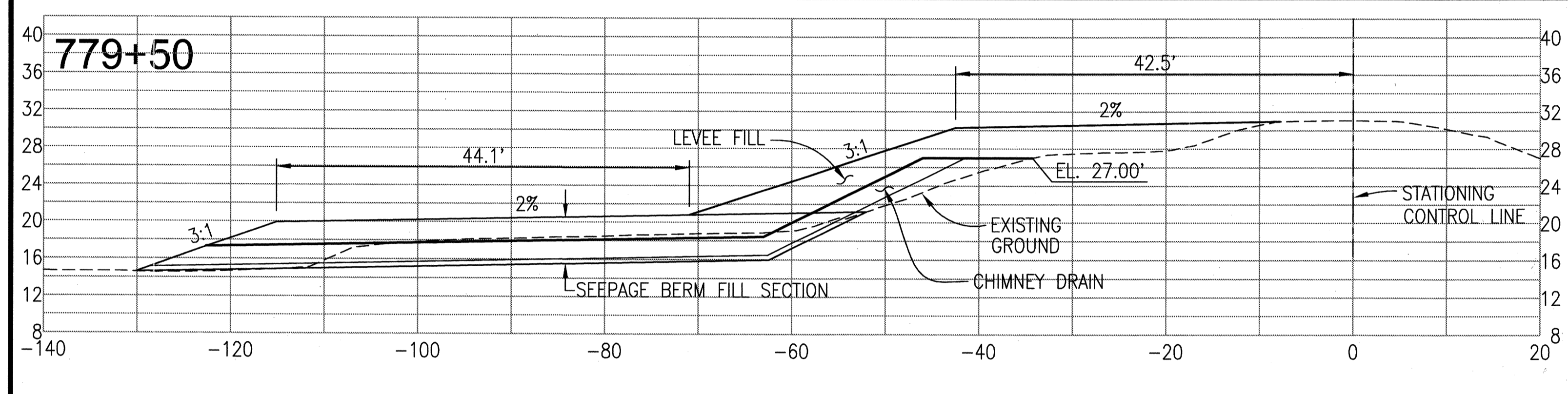
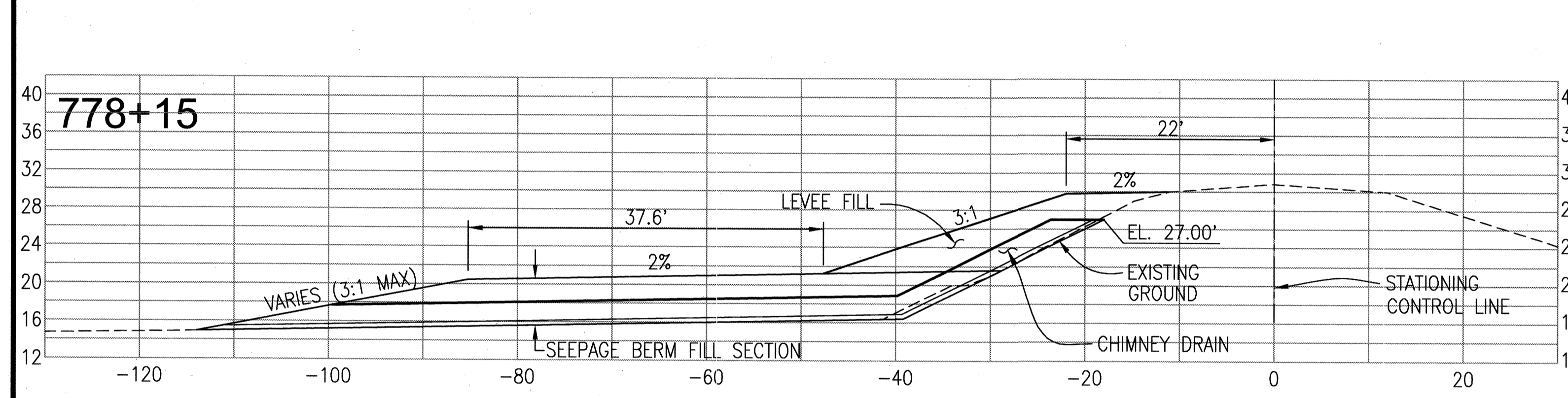
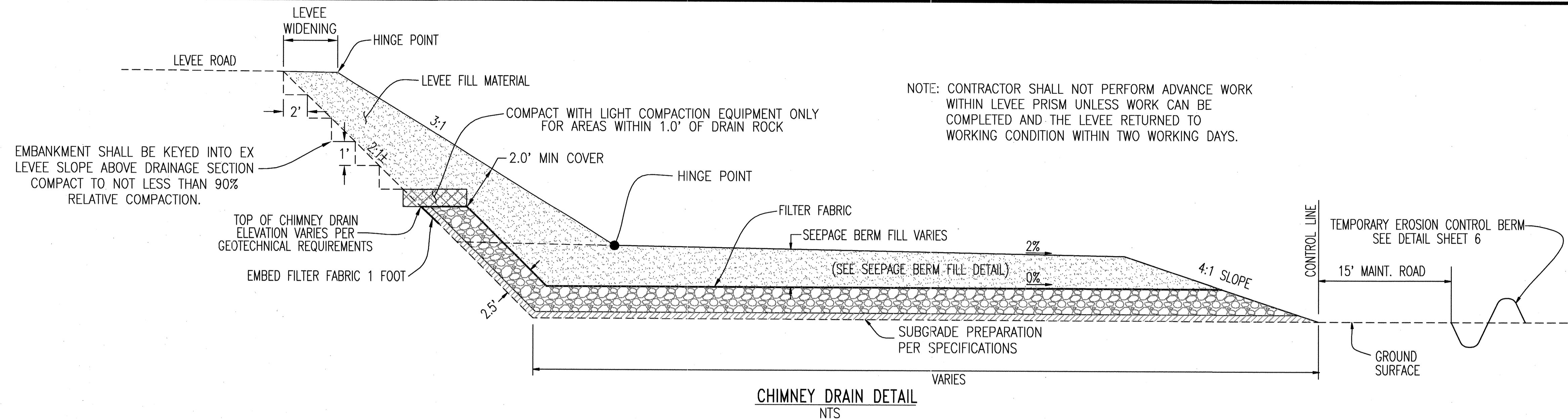
PLANS PREPARED UNDER THE DIRECTION OF:

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 ENGINEERS PLANNERS SURVEYORS
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RECLAMATION DISTRICT NO. 17
 ELEMENT VII-C
 SEEPAGE BERM PROFILE VIEW
 SAN JOAQUIN COUNTY CALIFORNIA

5	As-Shown	6-16-10
4	THRU SEEPAGE: REV SHTS 1, 4, 5, & 6. DELETED SHT 8, ADDED SHTS. 8-13	4/16/10
3	REVISE SEEPAGE BERM SECTION AT LEVEE. ADD ADDENDUM #1 TO PLANS	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	9/1/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09
NO.	REVISION	DATE

DATE:	JULY 2009	PROJECT NO.	25126.03
SCALE:		DRAWN BY:	EJN
DESIGNED BY:	CWG	CHECKED BY:	JSL
SHT	7	OF	13



RECORD DRAWINGS

THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE PROJECT OWNER, CONTRACTOR AND INSPECTOR.

REGISTERED PROFESSIONAL ENGINEER
JAMES F. TEMPLETON
No. 43081
EXP. 3/31/12
CIVIL
STATE OF CALIFORNIA

DATE: 6/16/10
DRAWN BY: EUN
DESIGNED BY: CWG
CHECKED BY: JSL

PLANS REVIEWED AND APPROVED BY:

KSN KJELSEN SINNOCK NEUDECK INC. Consulting Engineers and Land Surveyors

Post Office Box 844
711 N. Pershing Avenue
Stockton, CA 95201-0844
Office: (209) 946-0268
Faxes: (209) 946-0296
E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17 MOSSDALE TRACT ELEMENT VII-C DATED MARCH 13, 2009

ENGEO INCORPORATED
EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

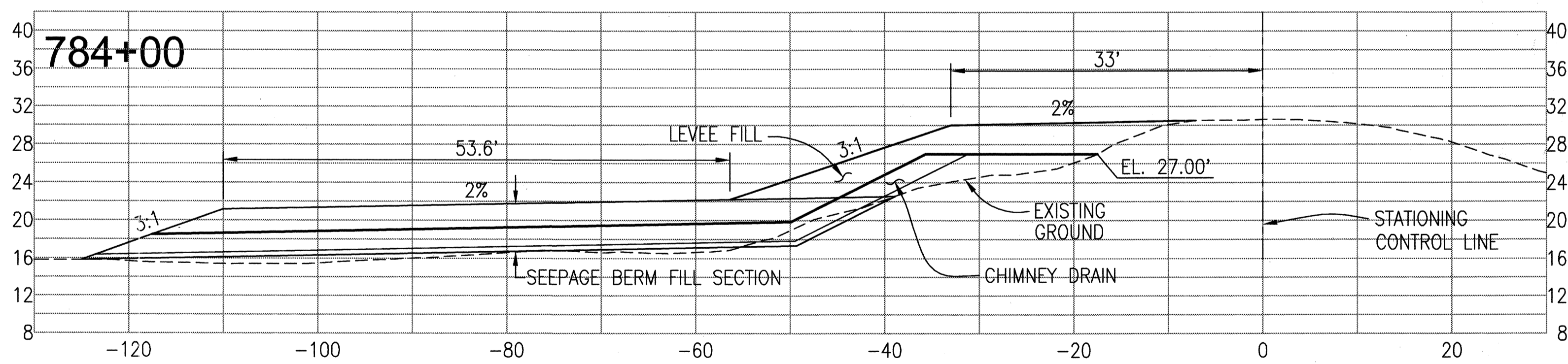
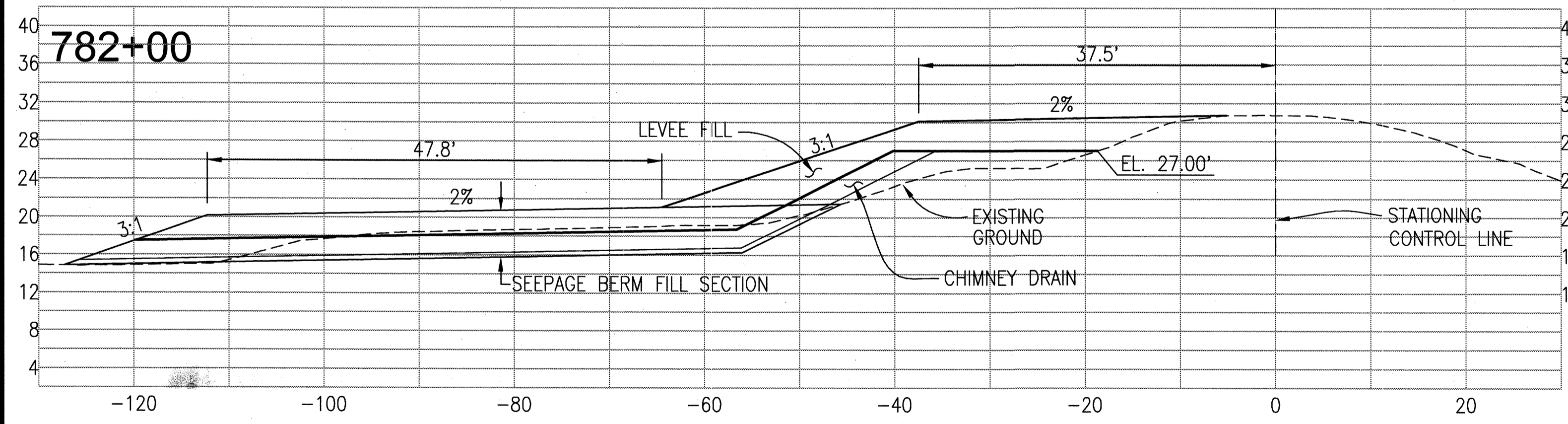
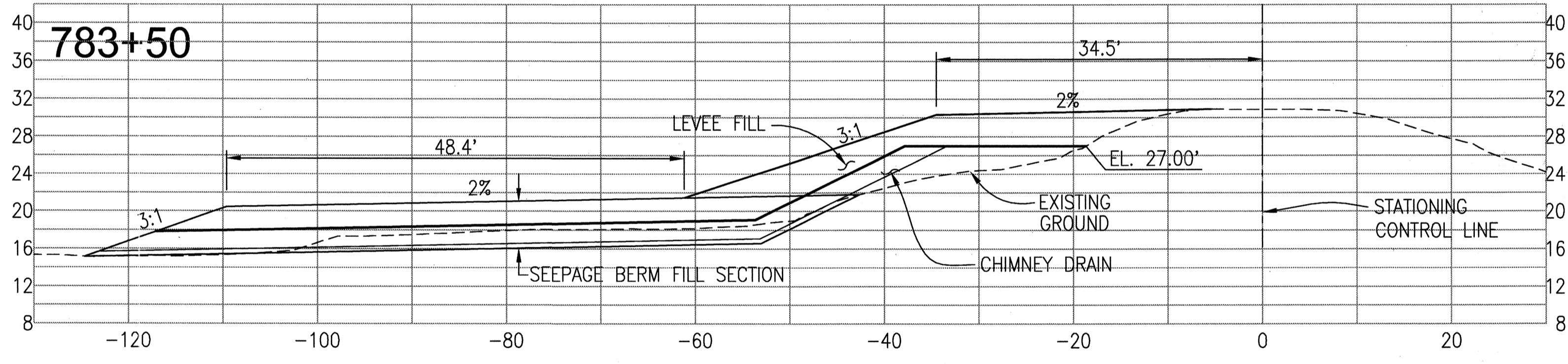
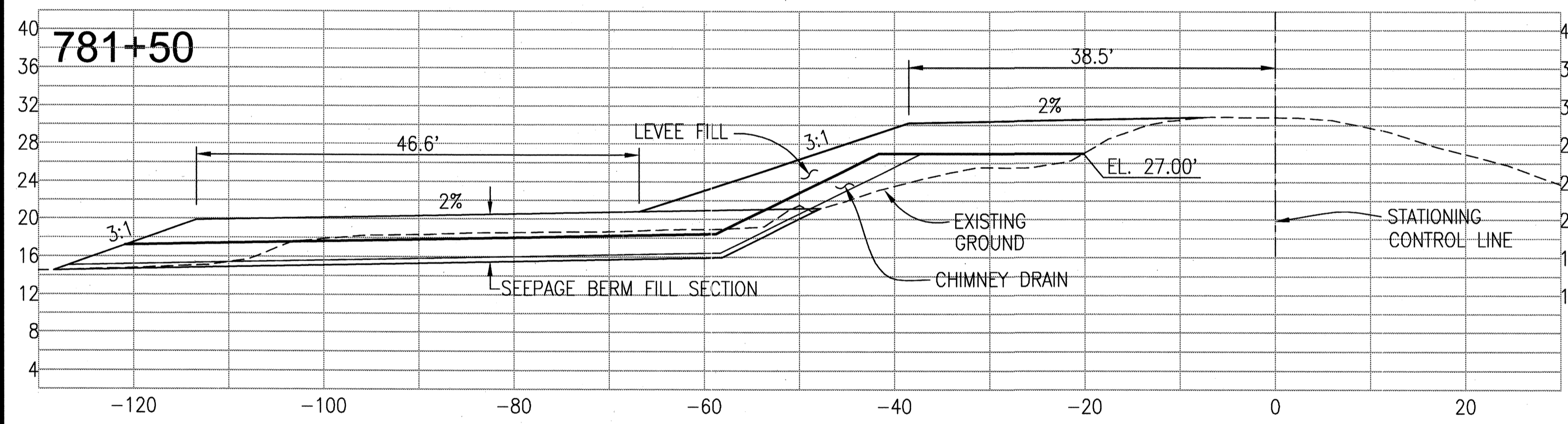
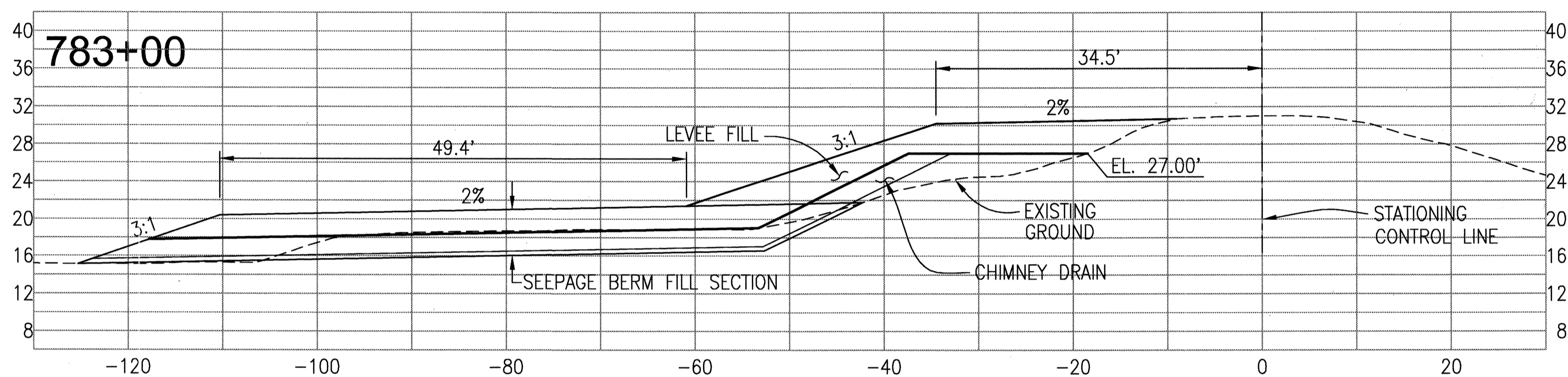
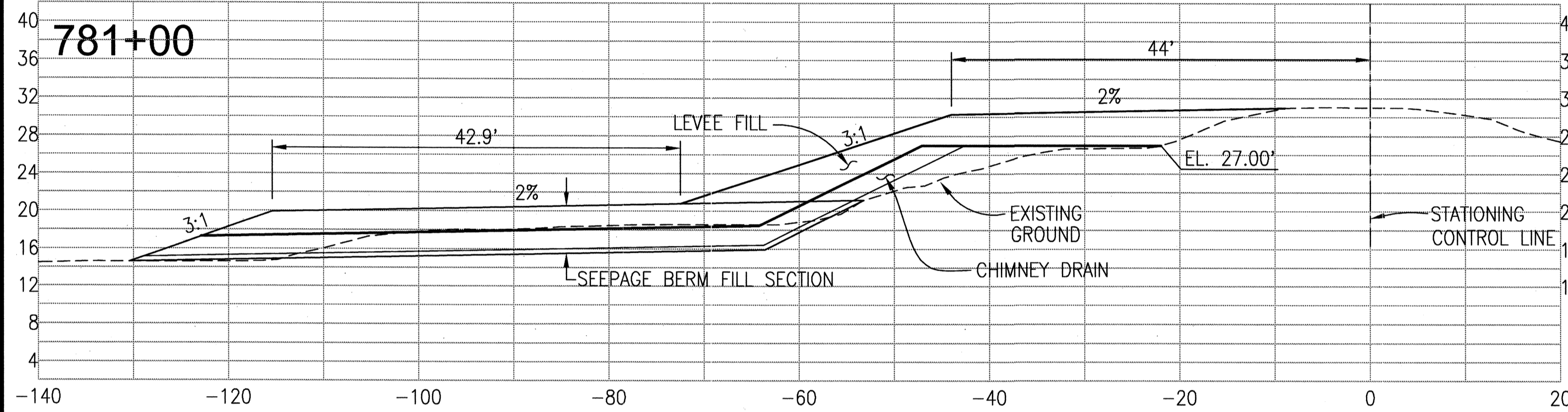
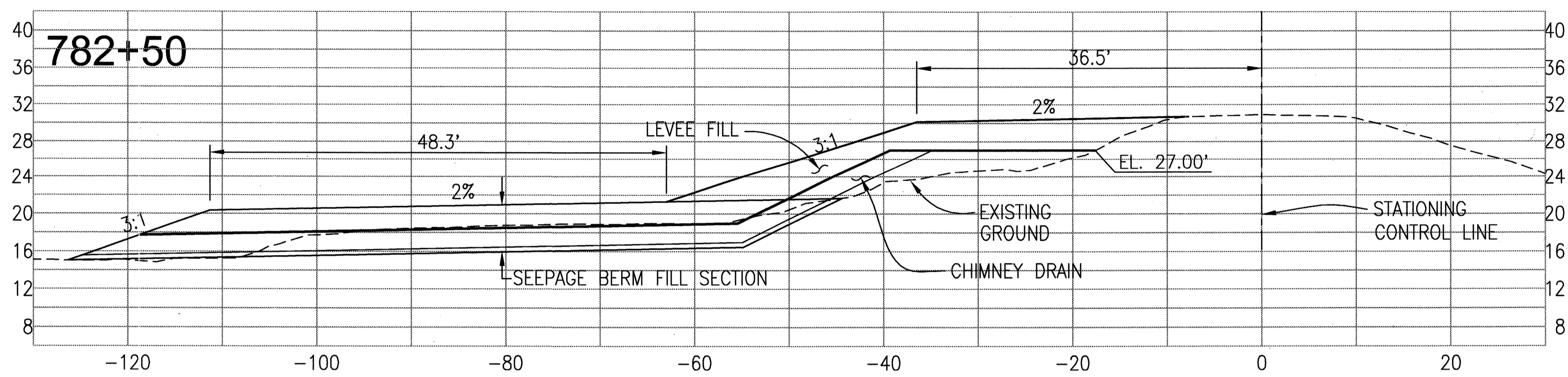
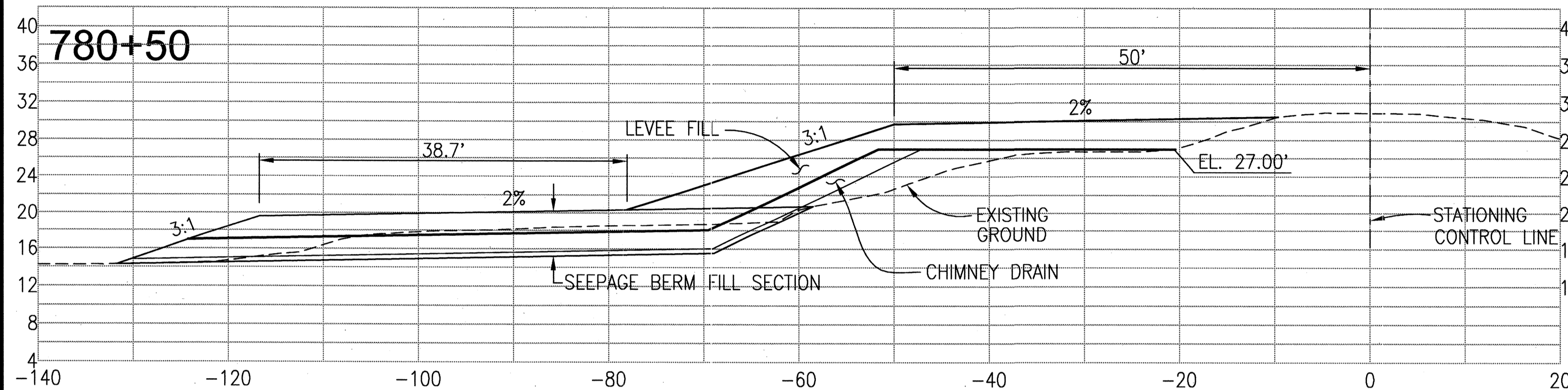
MACKAY & SOMPS
ENGINEERS PLANNERS SURVEYORS
5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690

RECLAMATION DISTRICT NO. 17
ELEMENT VII-C
THRU SEEPAGE SECTIONS
778+15 THRU 799+40
SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE
5	AS-BUILT	6-16-10
4	THRU SEEPAGE: REV SHITS 1, 4, 5, & 6. DELETED SHT 8. ADDED SHITS 8-13	4/15/10
3	REVISE SEEPAGE BERM SECTION AT LEVEE. ADD ADDENDUM #1 TO PLANS	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	9/1/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

DATE: JULY 2009
SCALE:
DRAWN BY: EUN
DESIGNED BY: CWG
CHECKED BY: JSL

PROJECT NO. 25126.03
SHT 8
OF 13



REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 No. 43061
 EXP. 3/31/12
 CIVIL
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE PROJECT OWNER, ARCHITECT AND INSPECTOR.
 DATE: 7/16/09
 DESIGNED BY: EUN
 CHECKED BY: JSL

PLANS REVIEWED AND APPROVED BY:
K S N
KJELDSSEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Fax: (209) 946-0296
 E-mail: KSN@ksninc.com

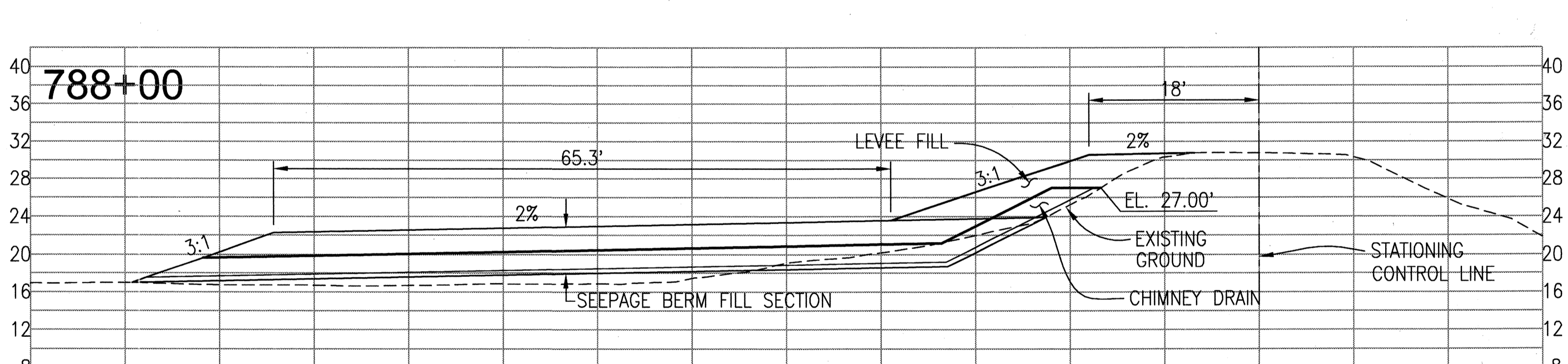
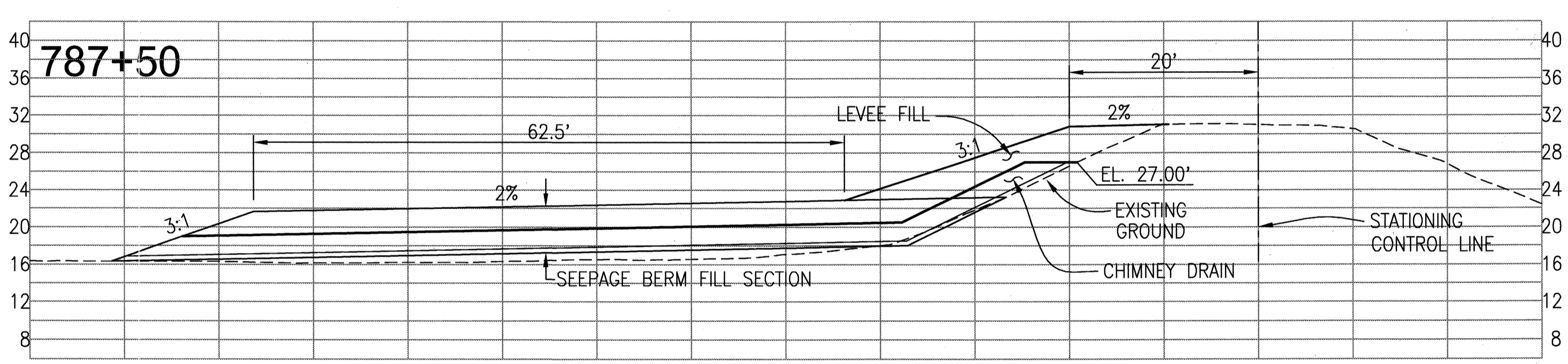
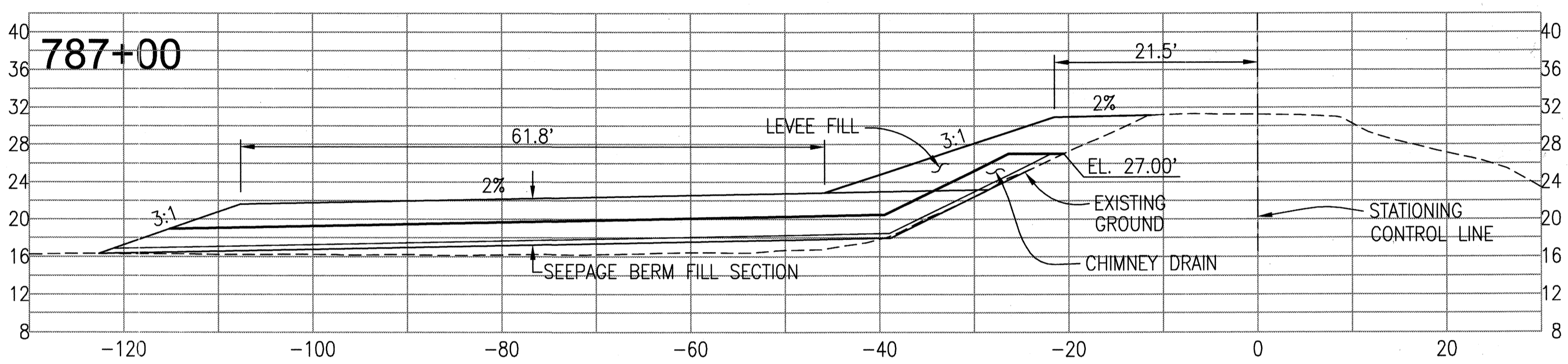
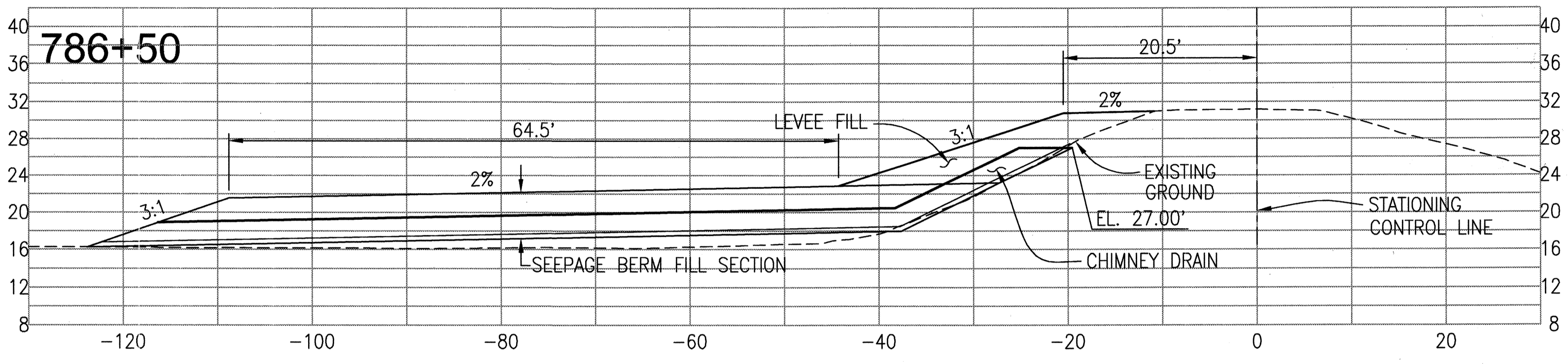
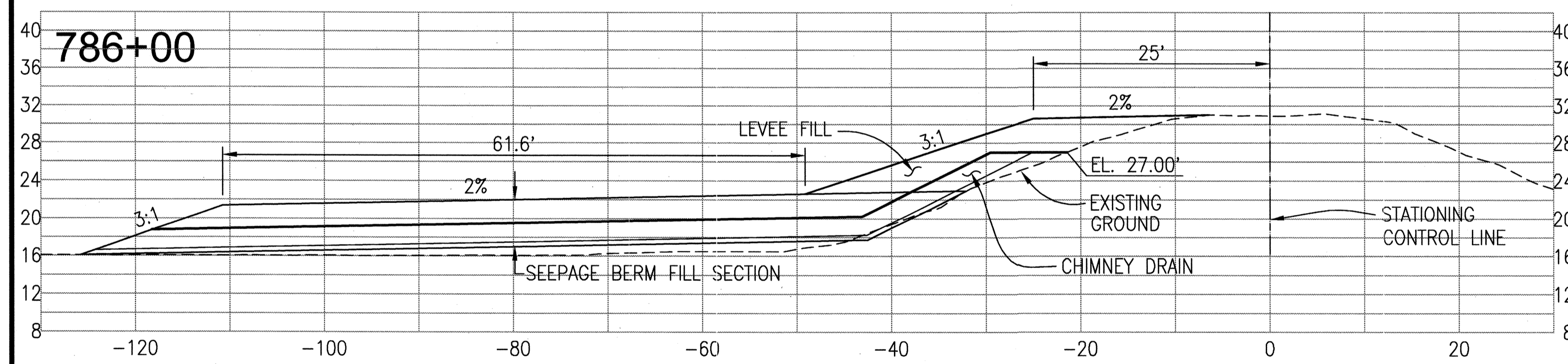
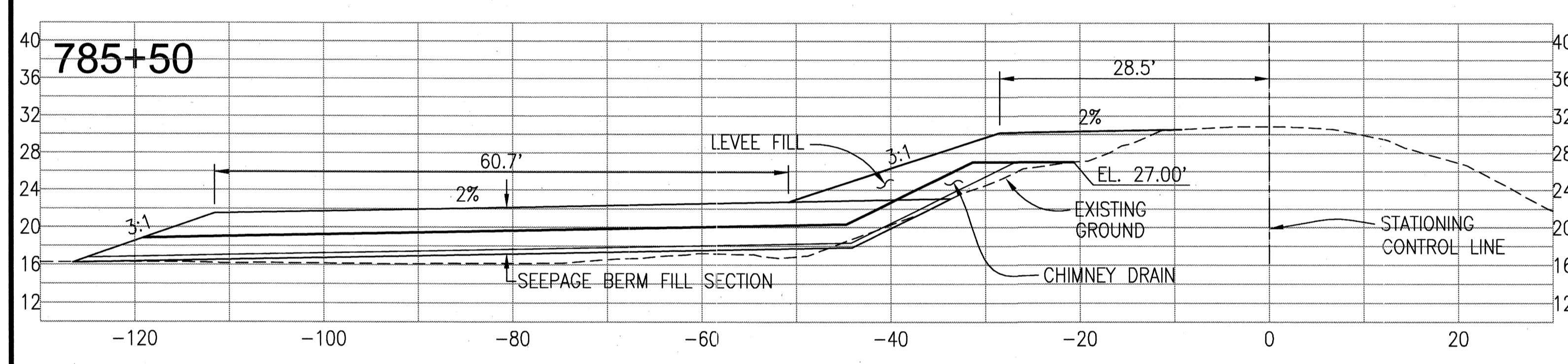
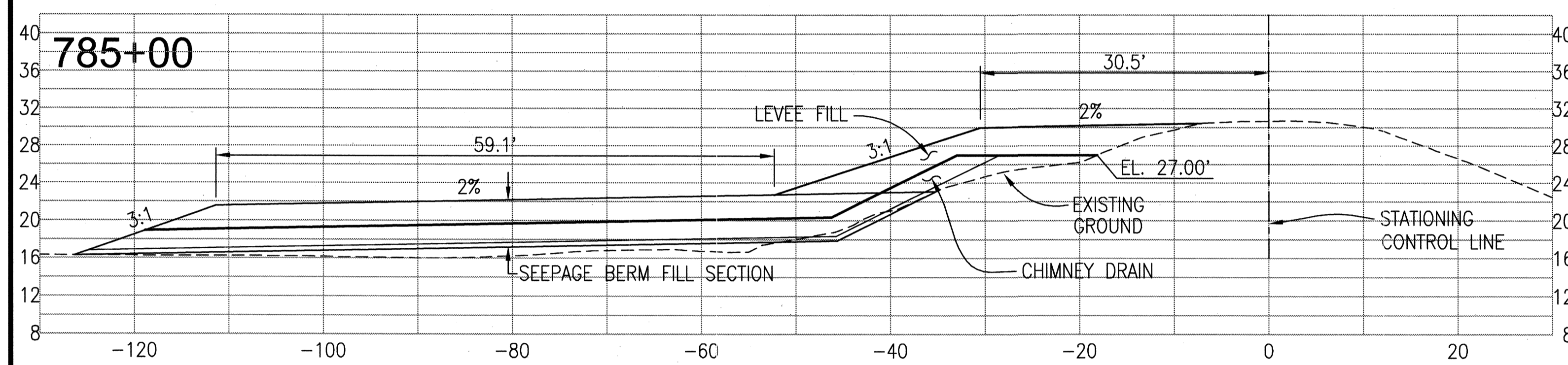
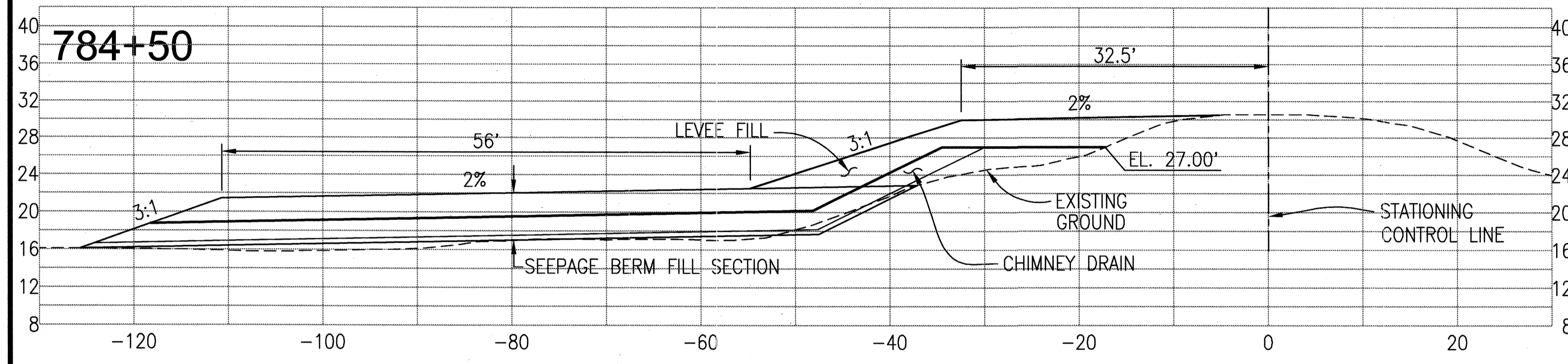
THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17 MOSSDALE TRACT ELEMENT VII-C DATED MARCH 13, 2009
ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971
 5/5/09

PLANS PREPARED UNDER THE DIRECTION OF:
MACKAY & SOMPS
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0690
 SAN JOAQUIN COUNTY CALIFORNIA

RECLAMATION DISTRICT NO. 17
 ELEMENT VII-C
 THRU SEEPAGE SECTIONS
 778+15 THRU 799+40

NO.	REVISION	DATE
5	A6-84111	6-16-09
4	THRU SEEPAGE: REV SHIS 1, 4, 5, & 6. DELETED SHIT 8. ADD SHIS. 8-13	4/16/10
3	REVISE SEEPAGE BERM SECTION AT LEVEE. ADD ADDENDUM #1 TO PLANS	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	9/1/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

PROJECT NO. 25126.03
 DATE: JULY 2009
 SCALE:
 DRAWN BY: EUN
 DESIGNED BY: CWG
 CHECKED BY: JSL
 SHEET 9 OF 13



RECORD DRAWINGS
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE PROJECT CONTRACTOR AND INSPECTOR.
 No. 43061
 EXP. 3/31/11
 CIVIL
 STATE OF CALIFORNIA
 DATE: 7/10/09

PLANS REVIEWED AND APPROVED BY:
K S N
KJELSDEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Fax: (209) 946-0296
 E-mail: KSN@ksninc.com

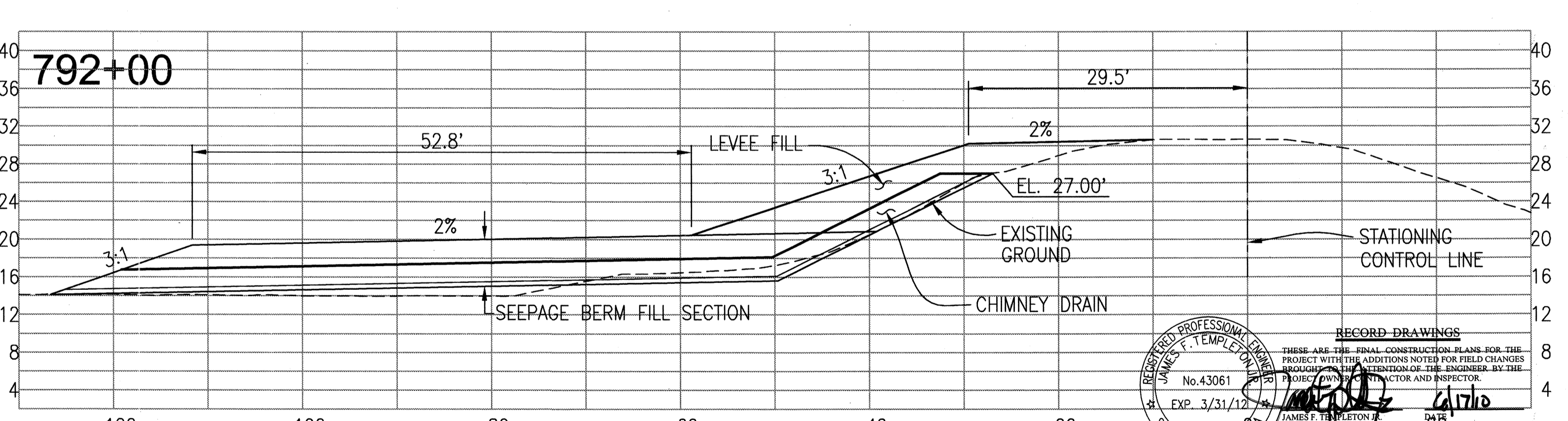
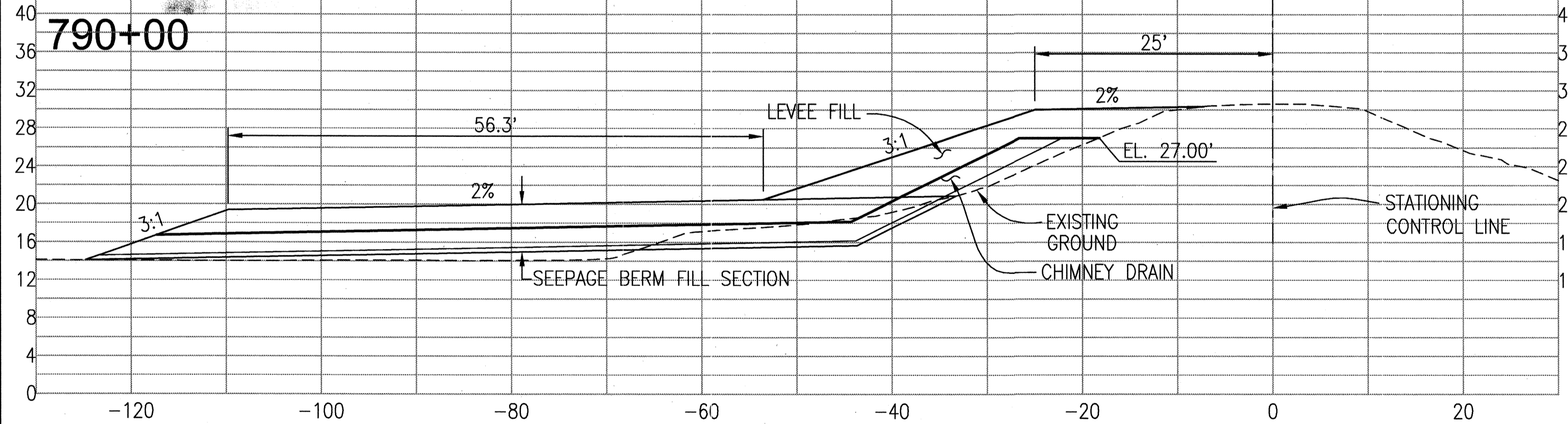
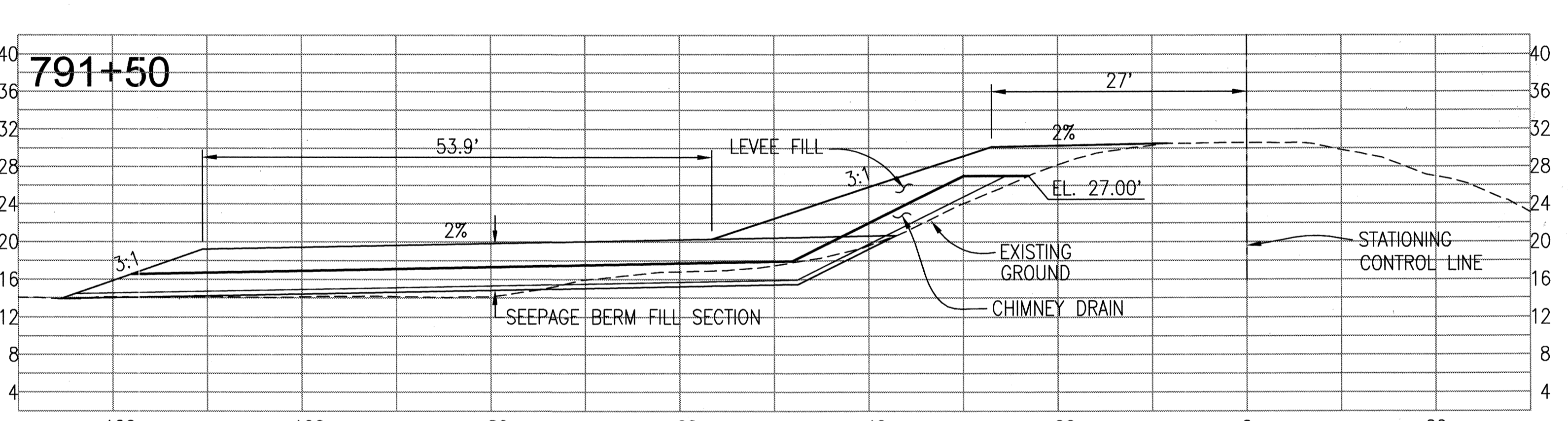
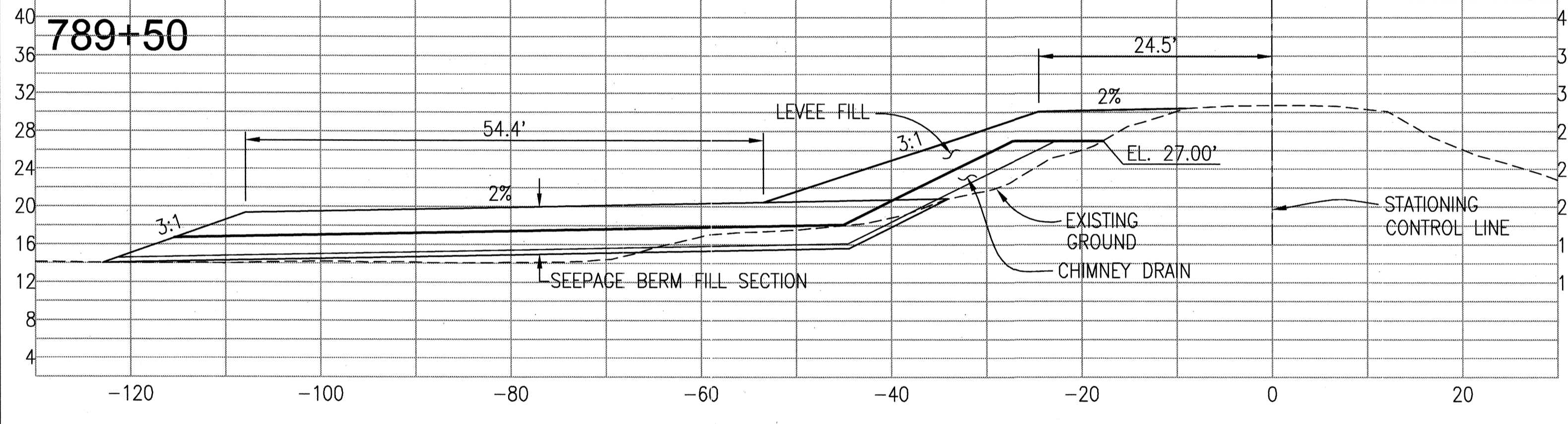
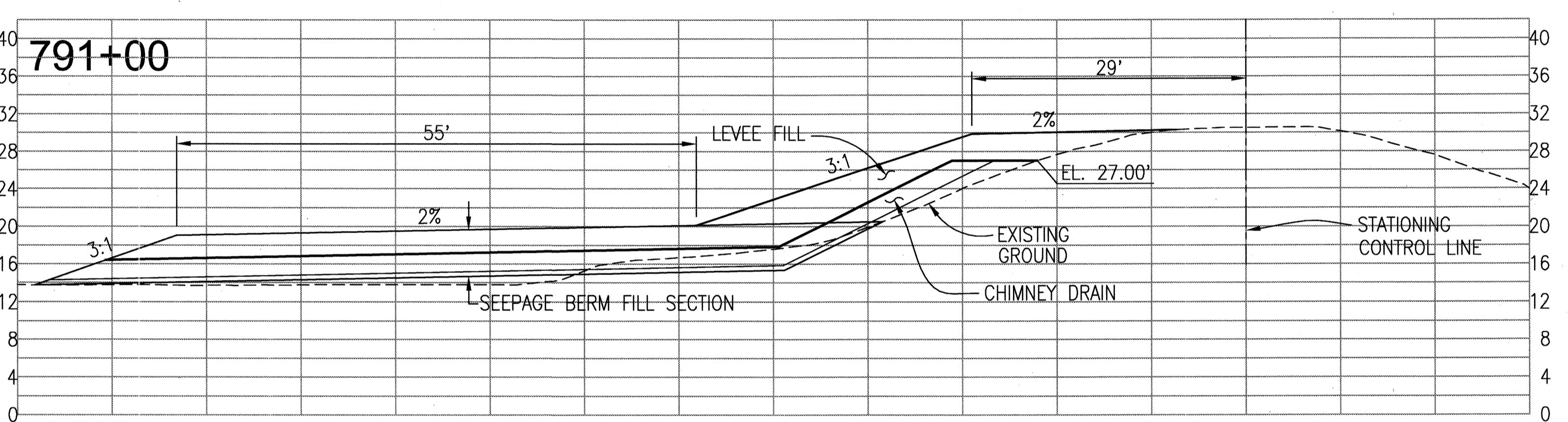
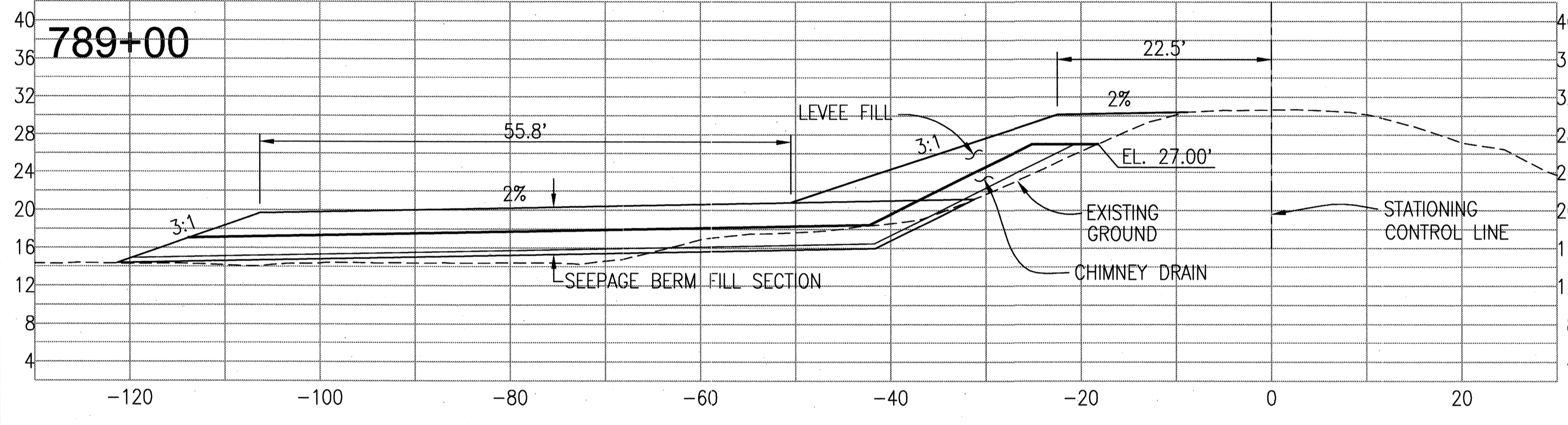
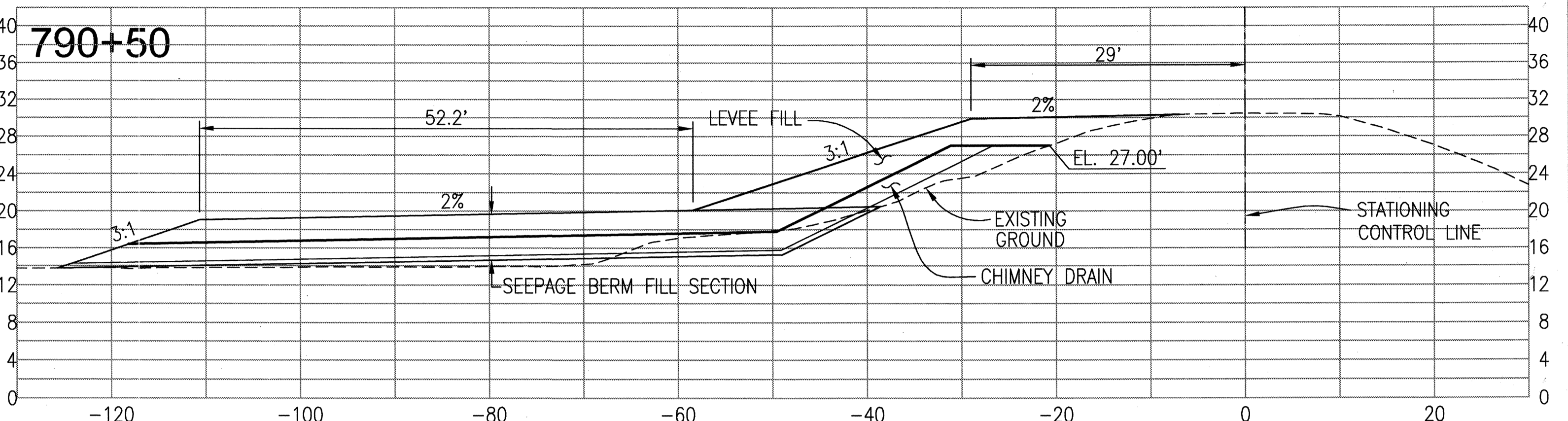
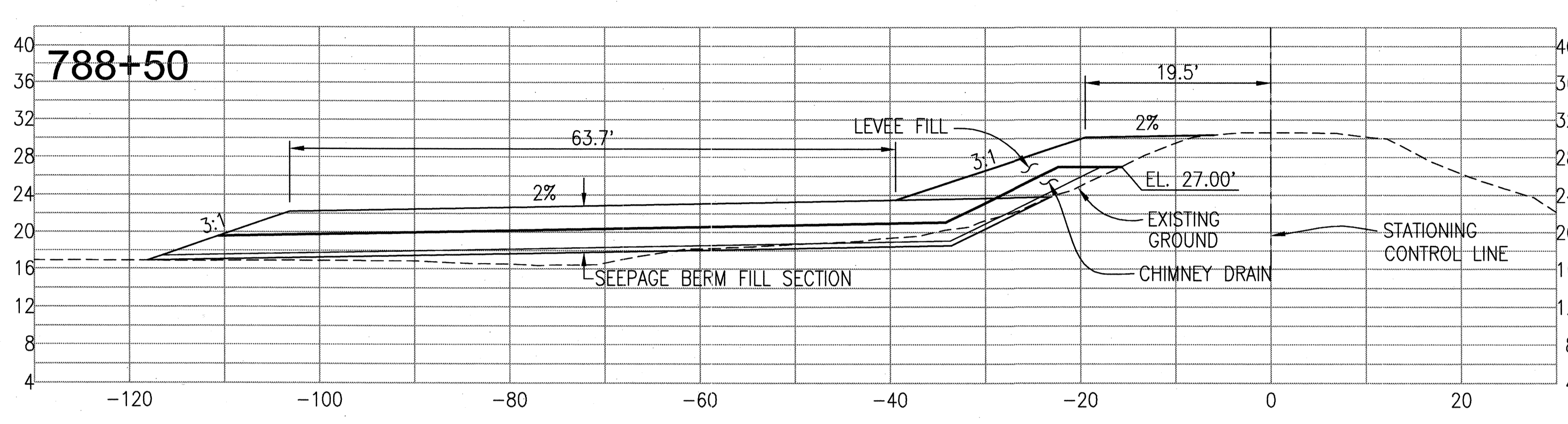
THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17 MOSSDALE TRACT ELEMENT VII-C DATED MARCH 13, 2009
ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971
 5/15/09

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RECLAMATION DISTRICT NO. 17
 ELEMENT VII-C
 THRU SEEPAGE SECTIONS
 778+15 THRU 799+40
 SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE
5	As-Subt	6/16/09
4	THRU SEEPAGE: REV SHITS 1, 4, 5, & 6. DELETED SHIT 8. ADDED SHITS 8-13	4/15/10
3	REVISE SEEPAGE BERM SECTION AT LEVEE. ADD ADDENDUM #1 TO PLANS	10/8/08
2	ISSUE CONSTRUCTION DOCUMENTS	9/1/08
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

DATE: JULY 2009
 SCALE:
 DRAWN BY: EUN
 DESIGNED BY: CWG
 CHECKED BY: JSL
 PROJECT NO. 25126.03
 SHT 10 OF 13



RECORD DRAWINGS
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONAL NOTES FOR FIELD CHANGES PROVIDED BY THE ATTENTION OF THE ENGINEER, BY THE PROJECT ARCHITECT AND INSPECTOR.
 No. 43061
 EXP. 3/31/12
 CIVIL ENGINEER
 STATE OF CALIFORNIA

PLANS REVIEWED AND APPROVED BY:
KSN KJELSDEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Offices: (209) 946-0268
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

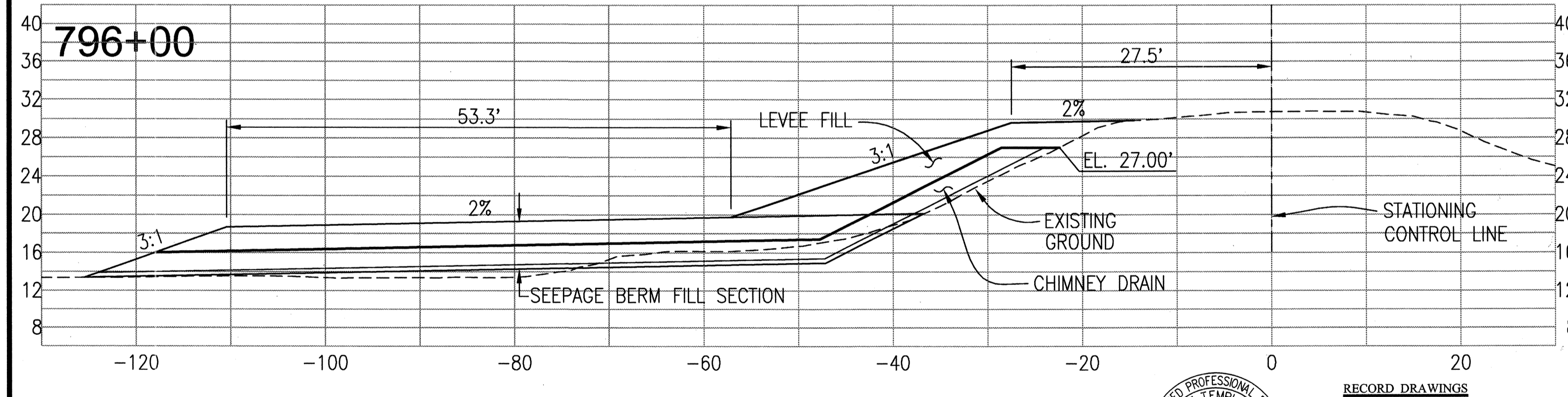
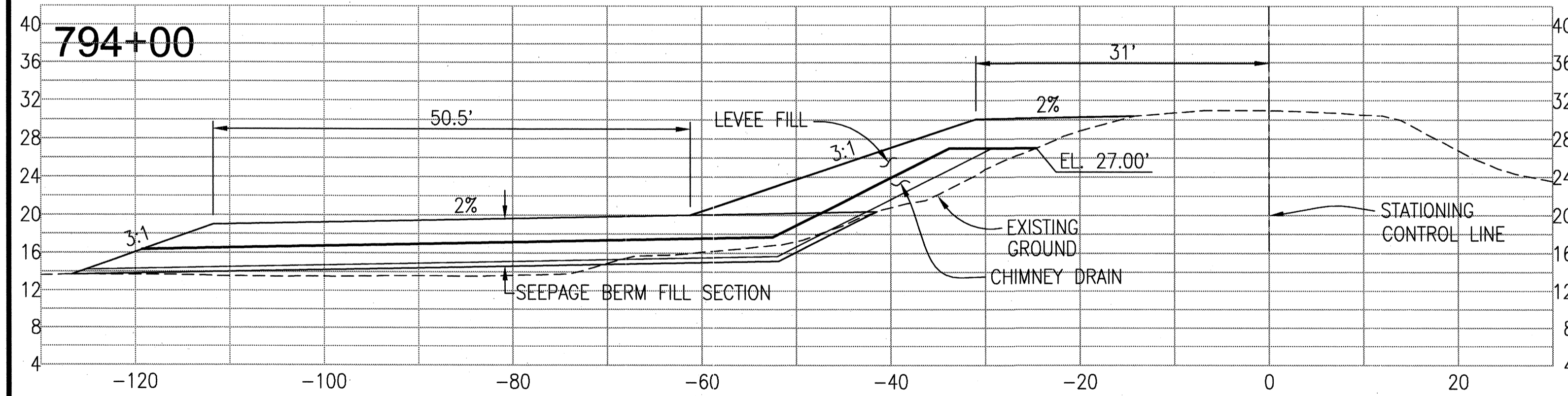
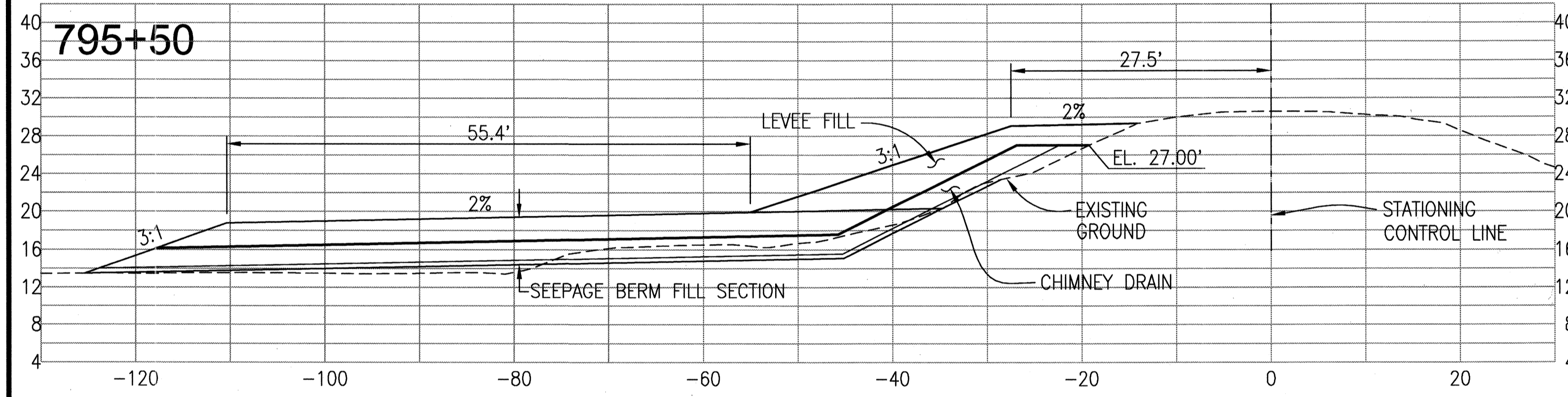
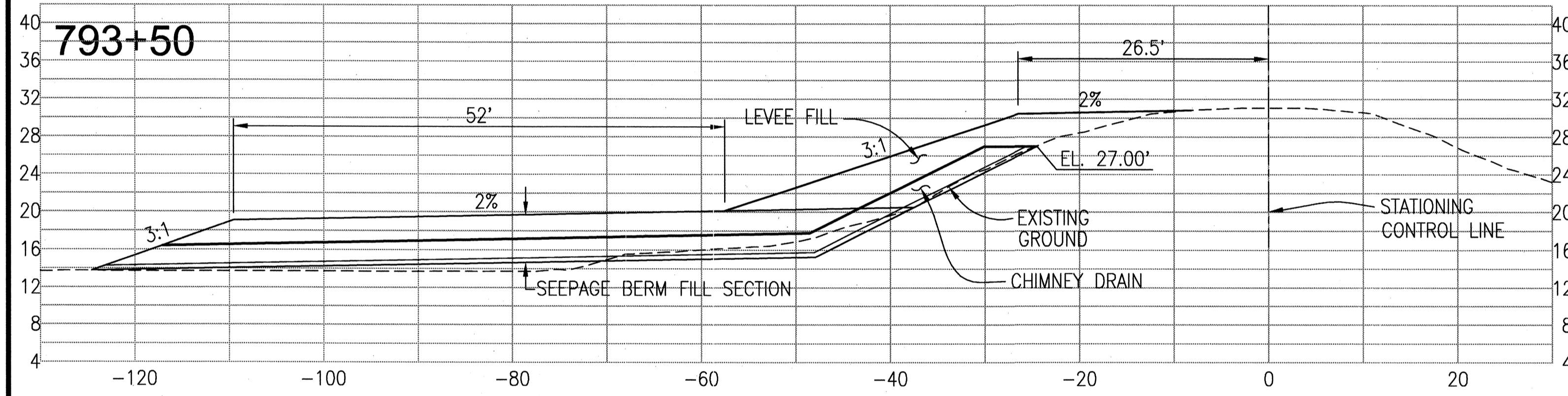
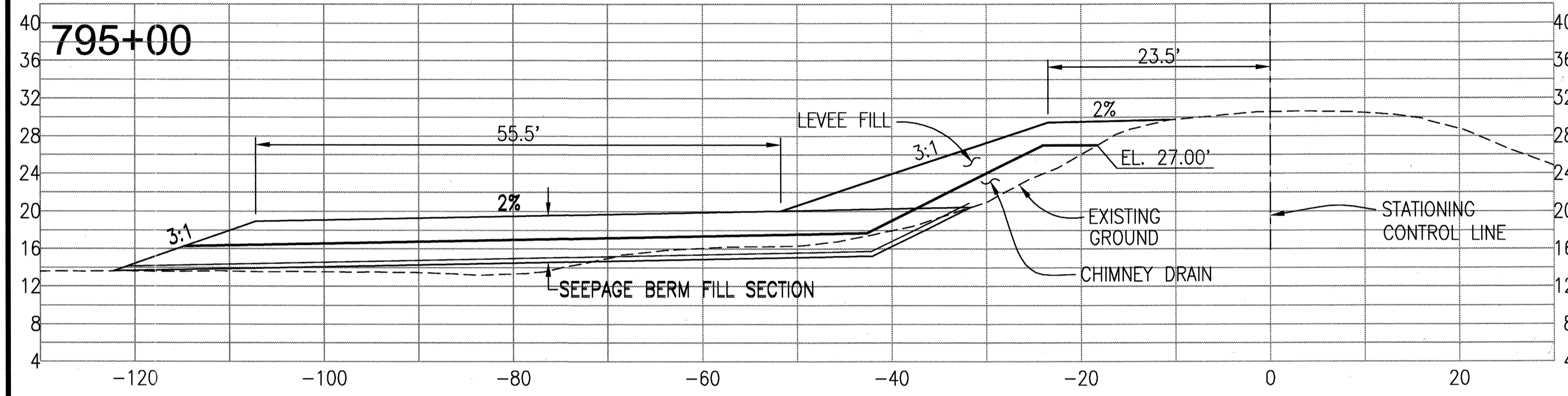
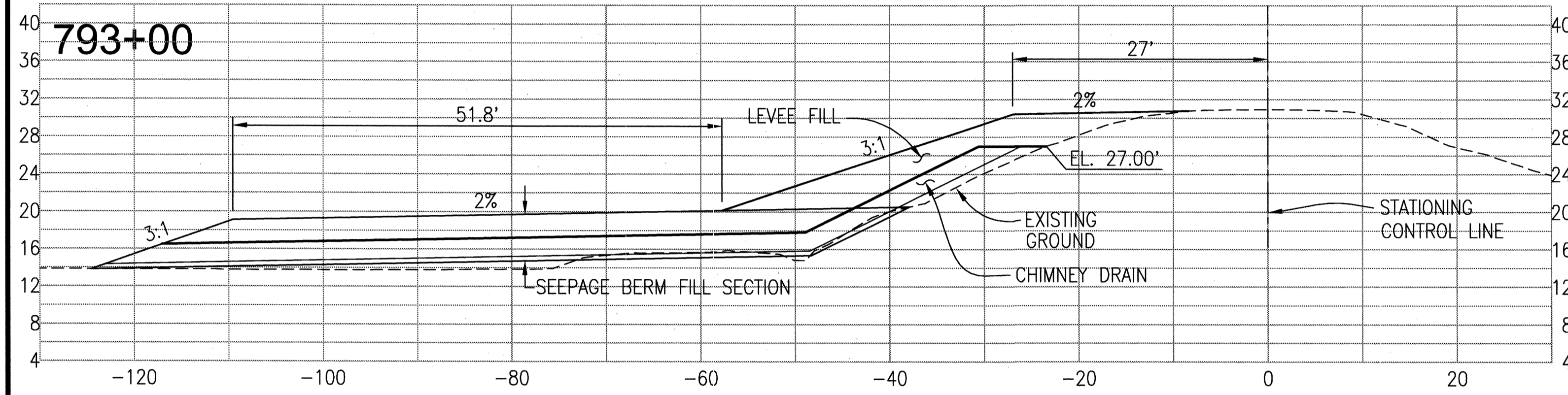
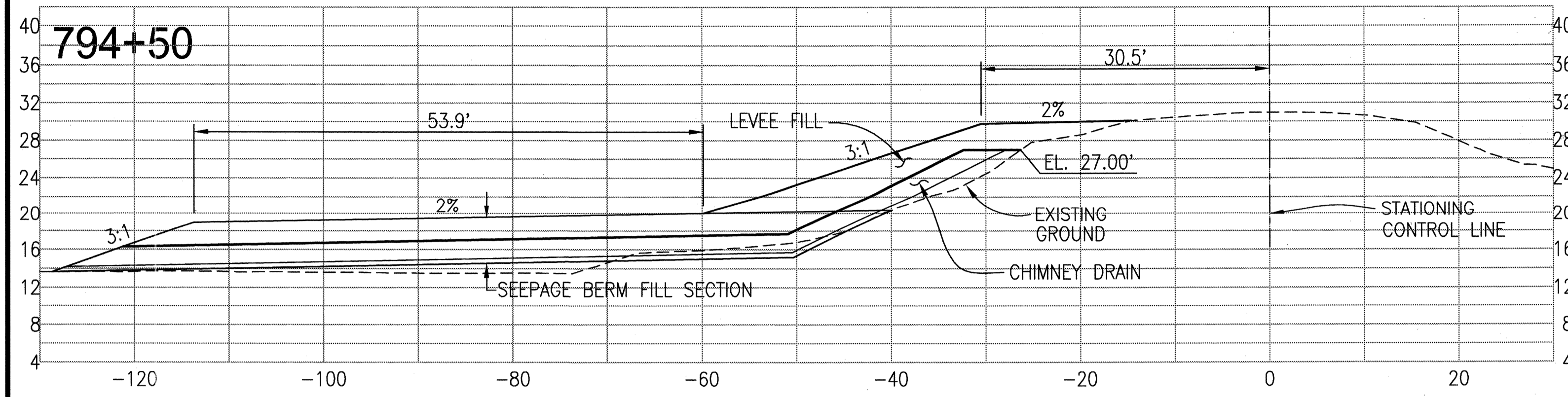
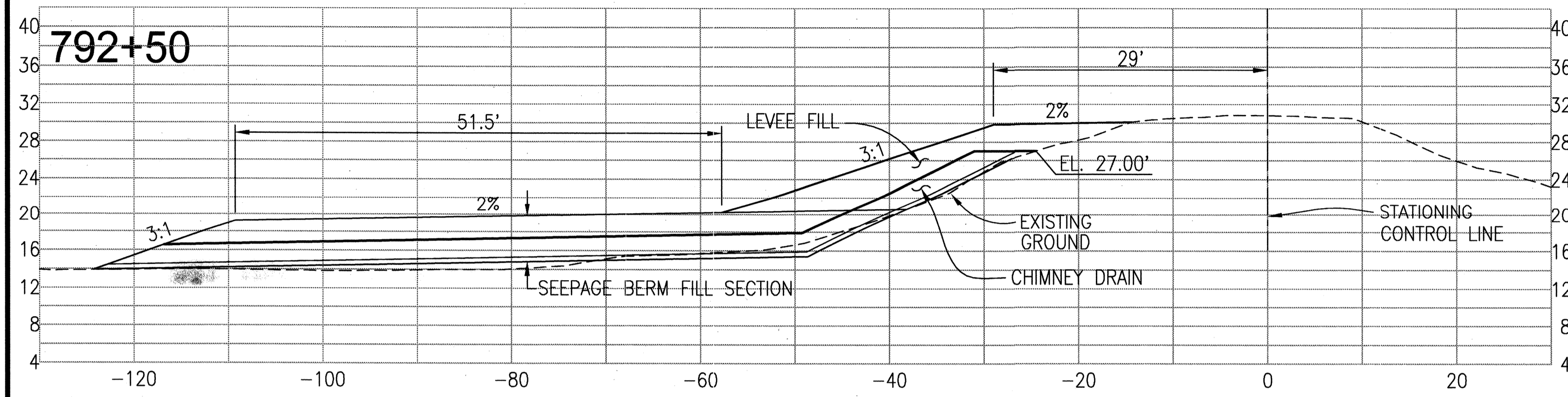
THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT ELEMENT VII-C DATED MARCH 13, 2008
ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971

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RECLAMATION DISTRICT NO. 17
 ELEMENT VII-C
 THRU SEEPAGE SECTIONS
 778+15 THRU 799+40
 SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE
5	AS-BUILT	6-16-10
4	THRU SEEPAGE: REV SHTS 1, 4, 5, & 6, DELETED SHT 8, ADDED SHTS. 8-13	4/16/10
3	REVISE SEEPAGE BERM SECTION AT LEVEE. ADD ADDENDUM #1 TO PLANS	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	9/1/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

DATE: JULY 2009
 SCALE: 1"=40'
 DRAWN BY: EUN
 DESIGNED BY: CWG
 CHECKED BY: JSL
 PROJECT NO. 25126.03
 SHEET 11 OF 13



REGISTERED PROFESSIONAL ENGINEER
 JAMES F. TEMPLETON JR.
 No. 43061
 EXP. 3/31/12
 CIVIL
 STATE OF CALIFORNIA
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE PROJECT ARCHITECT, CONTRACTOR AND INSPECTOR.
 DATE: 4/17/10

PLANS REVIEWED AND APPROVED BY:
K S N
KJELSDEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
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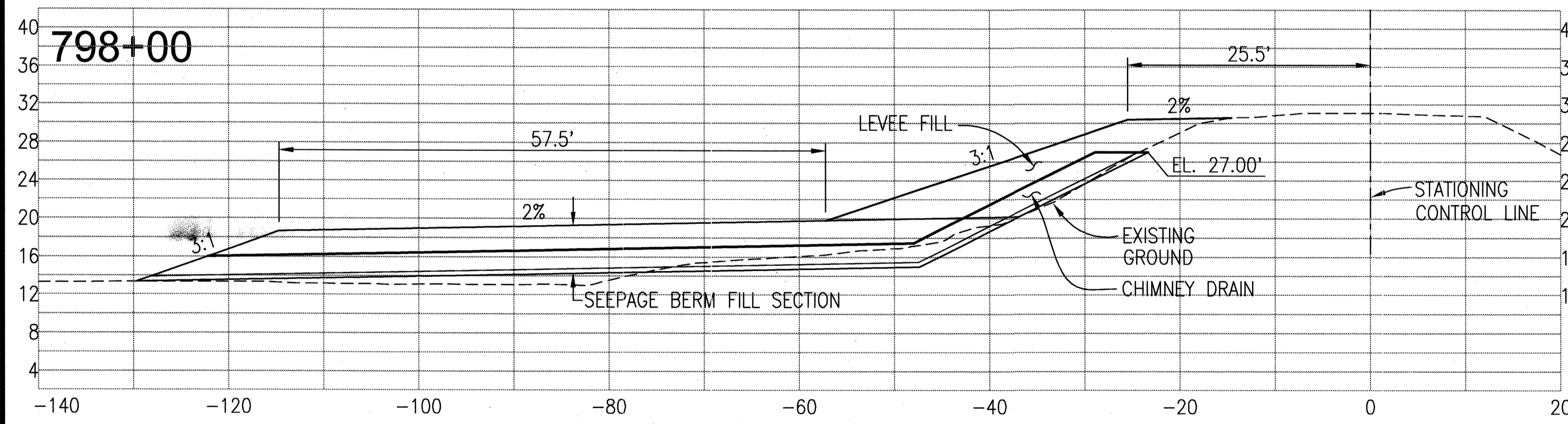
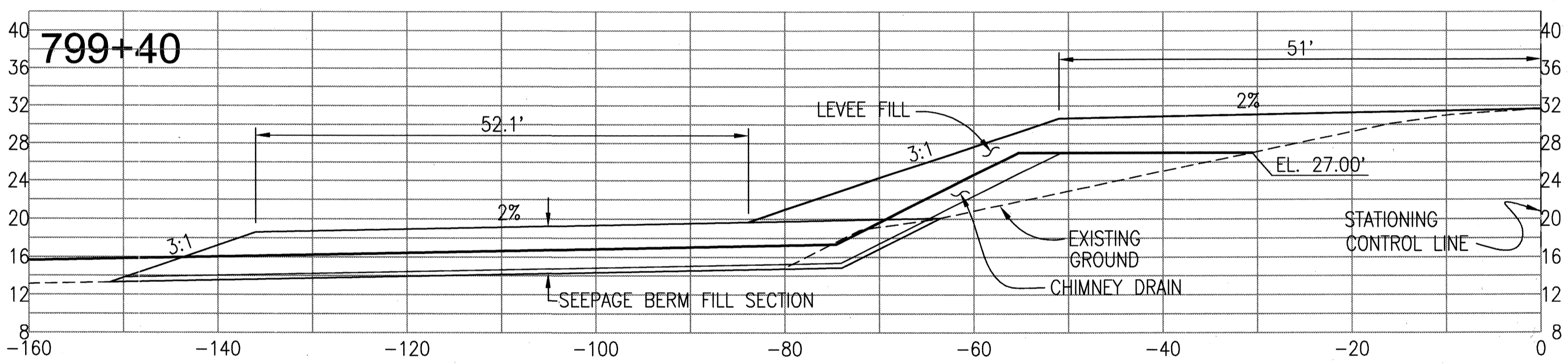
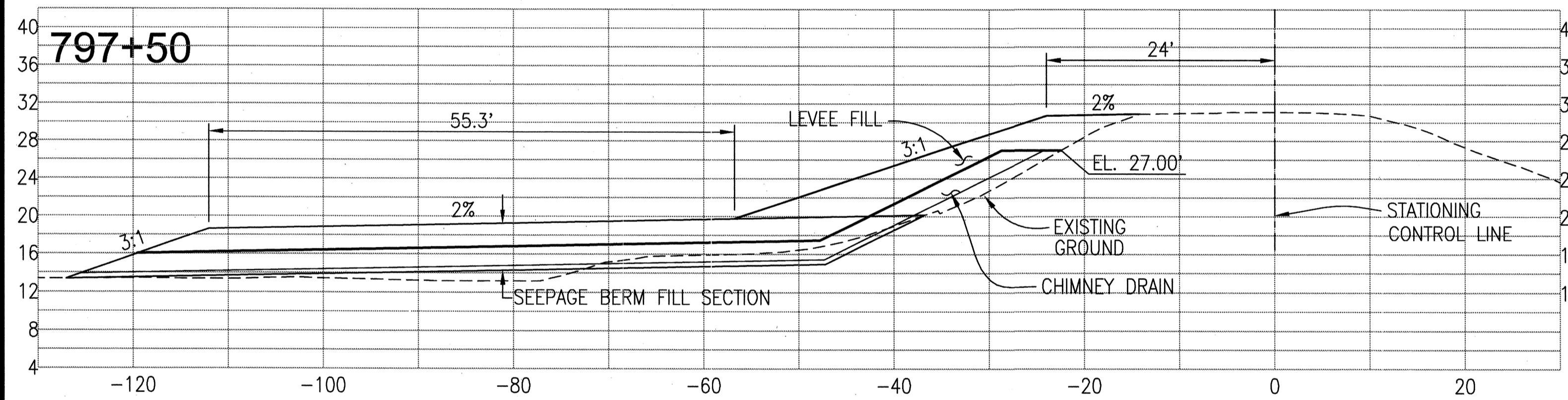
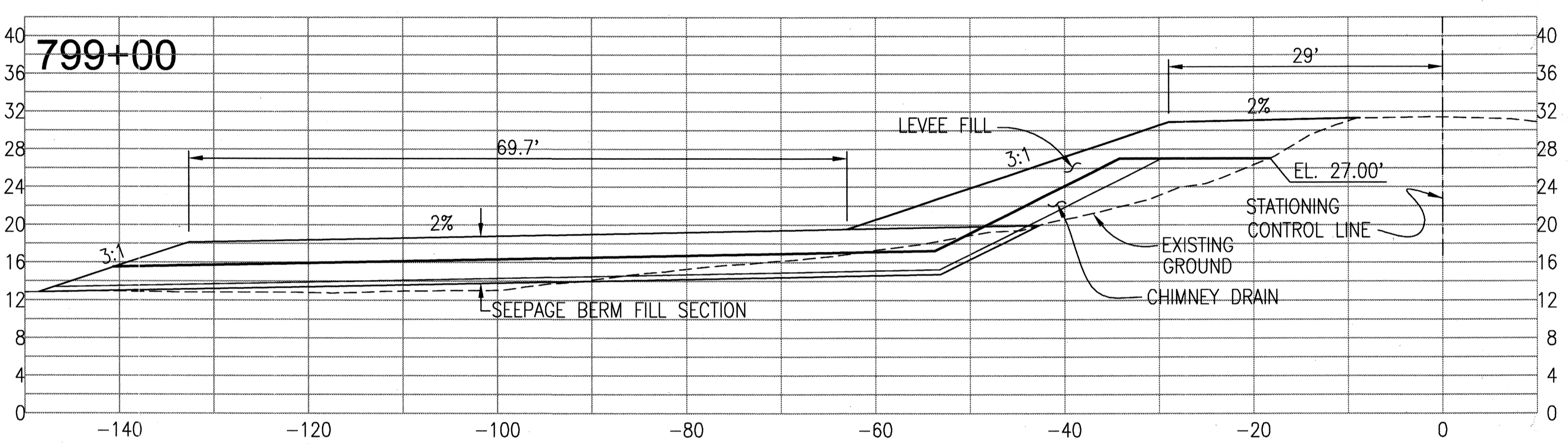
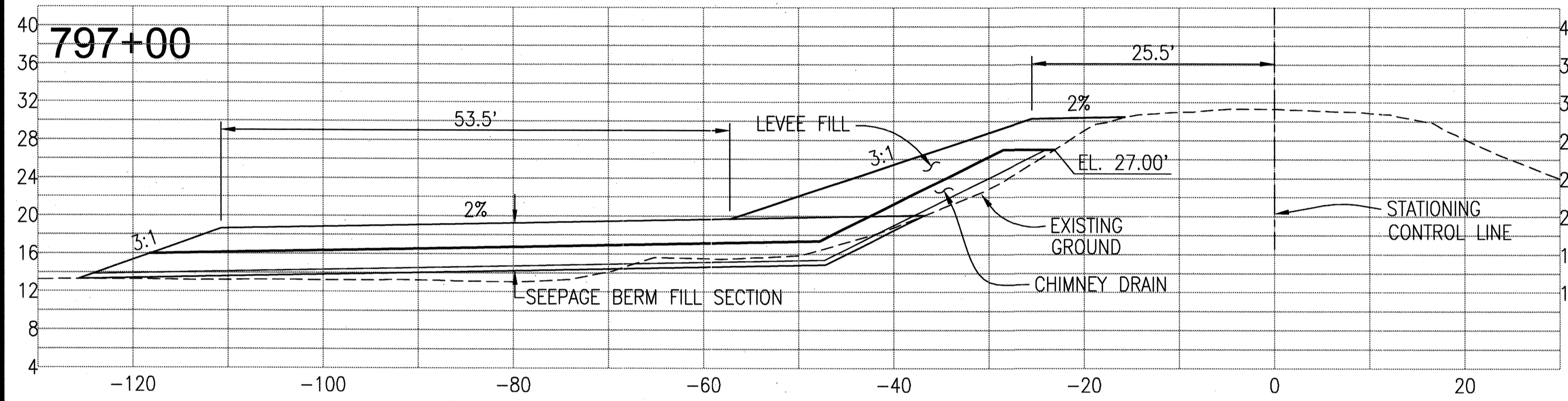
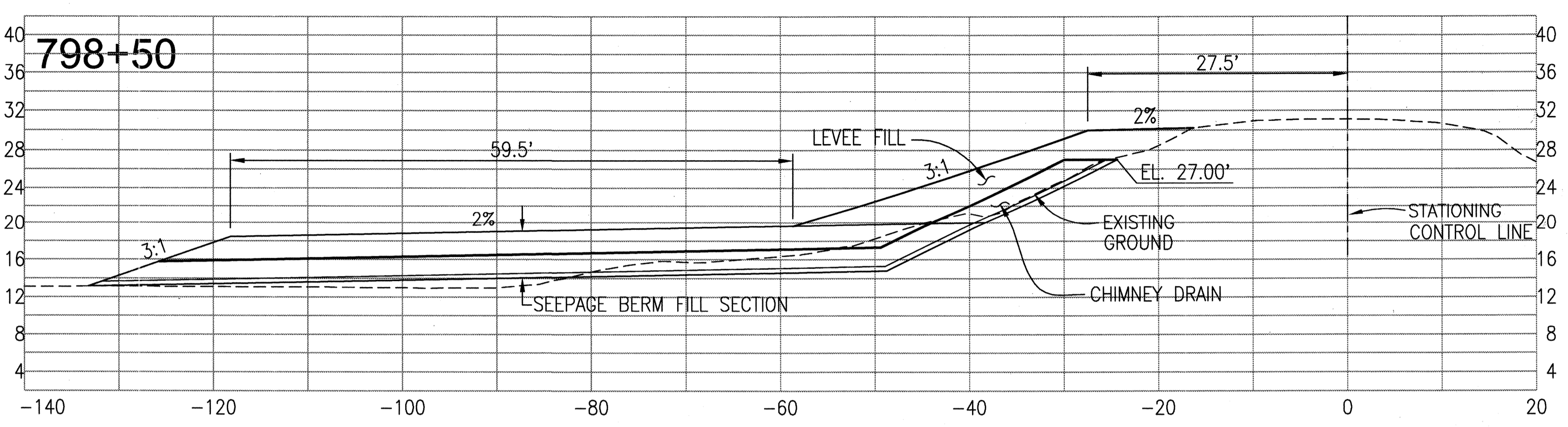
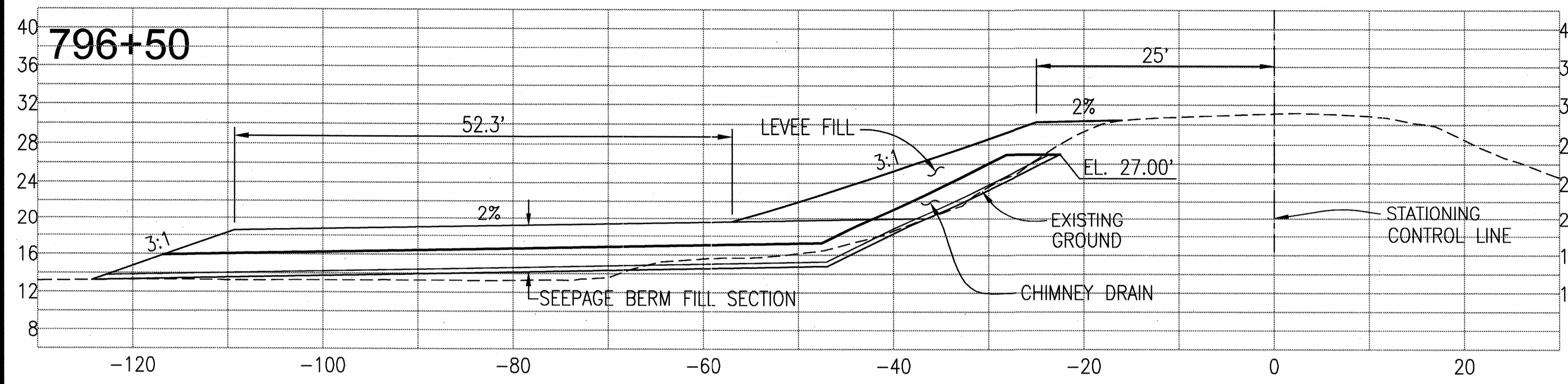
THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17 MOSSDALE TRACT ELEMENT VII-C DATED MARCH 13, 2009
ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971
 5/5/09

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RECLAMATION DISTRICT NO. 17
 ELEMENT VII-C
 THRU SEEPAGE SECTIONS
 778+15 THRU 799+40
 SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE
5	As-BUILT	6-11-10
4	THRU SEEPAGE: REV SHITS 1, 4, 5, & 6. DELETED SHIT 8. ADDED SHITS, 8-13	4/7/10
3	REVISE SEEPAGE BERM SECTION AT LEVEE. ADD ADDENDUM #1 TO PLANS	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	9/1/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

DATE: JULY 2009
 SCALE:
 DRAWN BY: EJN
 DESIGNED BY: CWG
 CHECKED BY: JSL
 PROJECT NO. 25126.03
 SHT 12 OF 13



REGISTERED PROFESSIONAL ENGINEER
 JAMES F. TEMPLETON
 No. 43061
 EXP. 3/31/12
 CIVIL
 STATE OF CALIFORNIA

THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT. WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE PROFESSIONAL CONTRACTOR AND INSPECTOR.

DATE: JULY 2009
 SCALE: 1" = 40'-0"

PLANS REVIEWED AND APPROVED BY:
KSN
KJELSDEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Faxes: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD. NO. 17 MOSSALE FRACT ELEMENT VII-C DATED MARCH 13, 2009
ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:
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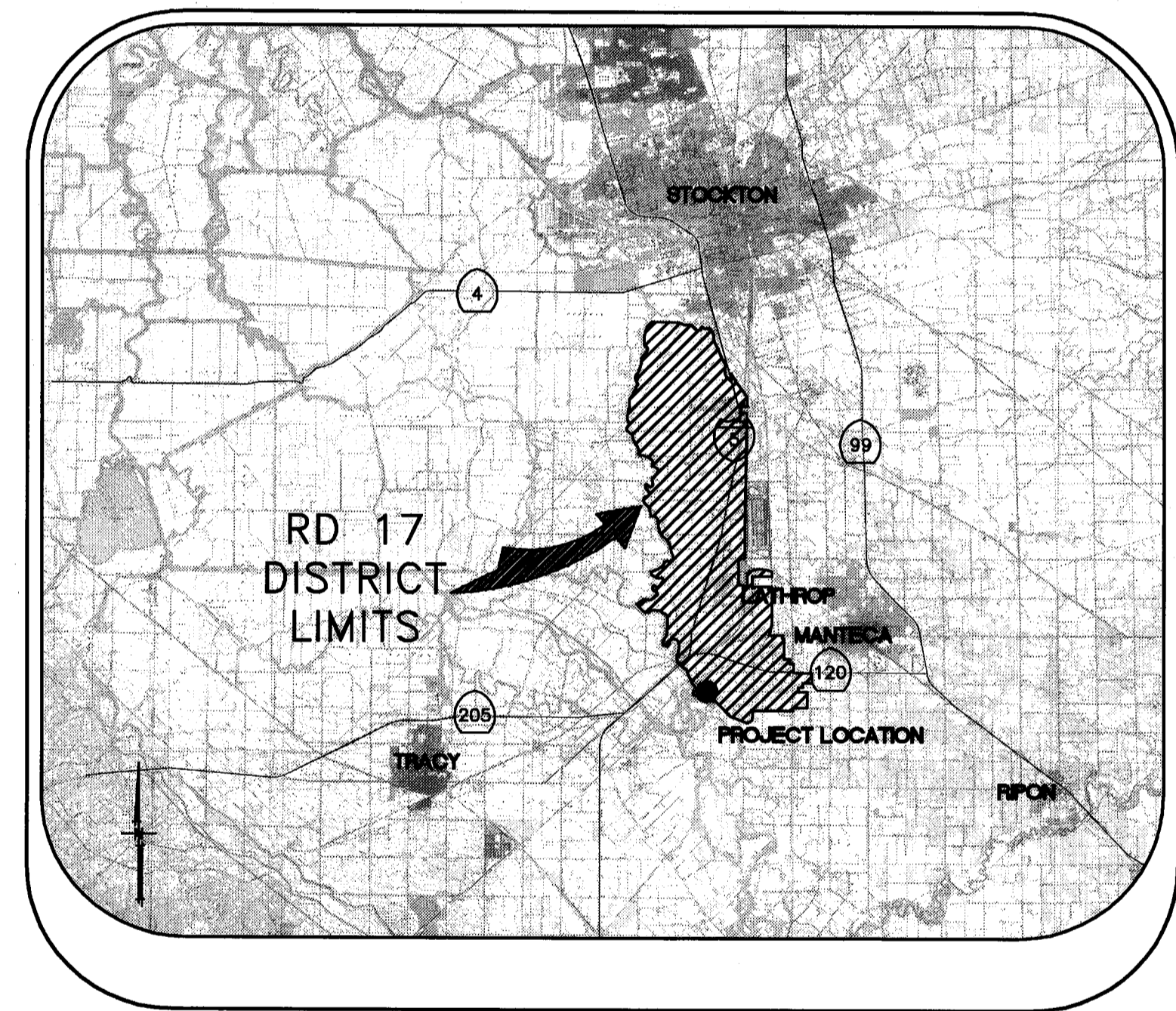
RECLAMATION DISTRICT NO. 17
 ELEMENT VII-C
 THRU SEEPAGE SECTIONS
 778+15 THRU 799+40
 SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE
5	As-Noted	6-16-10
4	THRU SEEPAGE: REV SHTS 1, 4, 5, & 6. DELETED SHIT 8, ADDED SHITS. 8-13	4/16/10
3	REVISE SEEPAGE BERM SECTION AT LEVEE. ADD ADDENDUM #1 TO PLANS	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	9/1/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

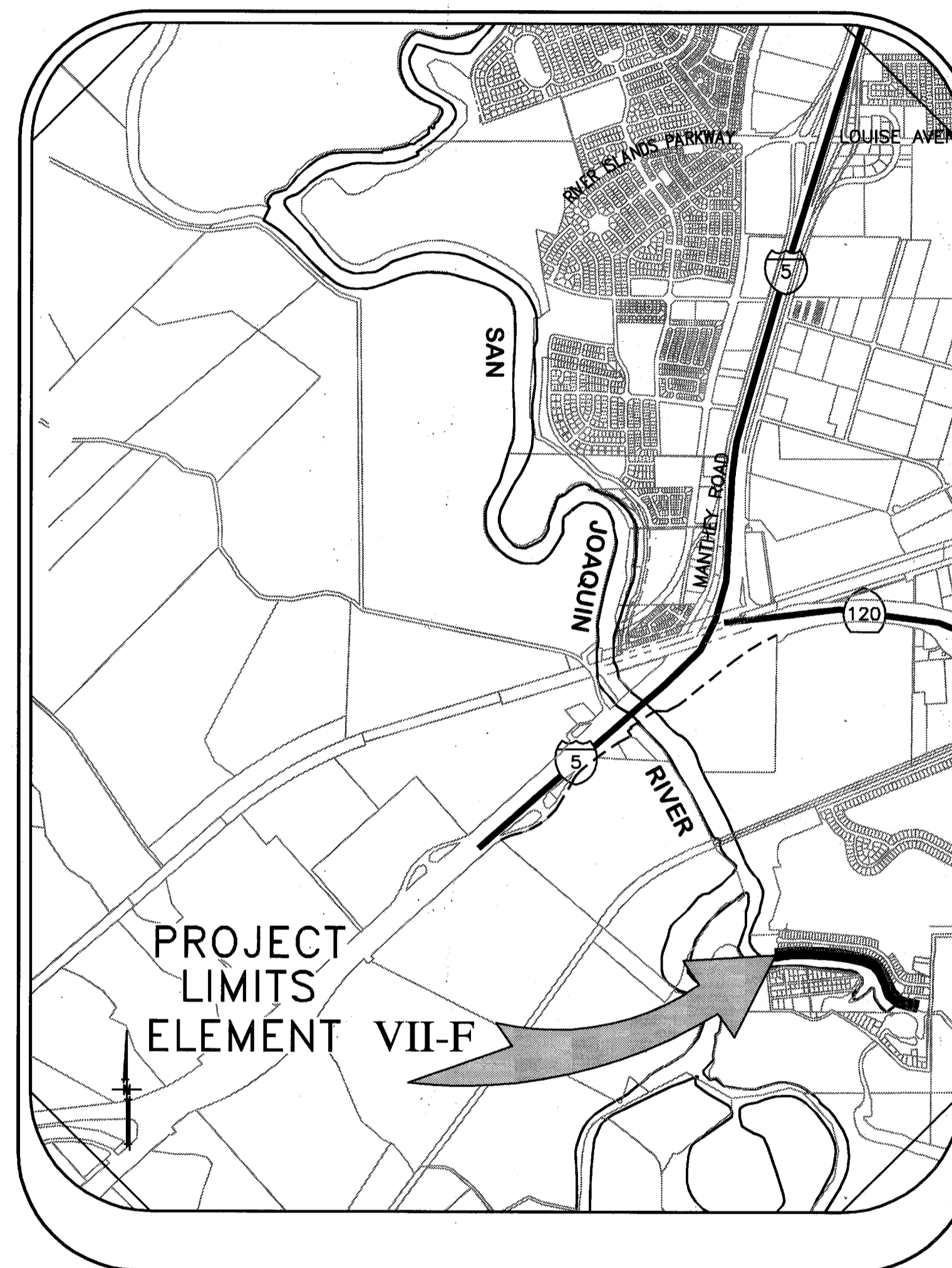
DATE: JULY 2009
 SCALE: 1" = 40'-0"
 DRAWN BY: EJM
 DESIGNED BY: CWG
 CHECKED BY: JSL

PROJECT NO. 25126.03
 SHIT 13 OF 13

RECLAMATION DISTRICT NO. 17 LEVEE SEEPAGE PROJECT ELEMENT VII-F STATION 824+78 THRU 849+87



VICINITY MAP



PROJECT SITE MAP

SHEET	DESCRIPTION
1.	COVER SHEET
2.	STATIONING MAP / HAUL ROUTES
3.	NOTES & BORING LOCATIONS
4.	TYPICAL SECTIONS & DETAILS
5.	SEEPAGE BERM PLAN VIEW
6.	SEEPAGE BERM PLAN VIEW
7.	SEEPAGE BERM PROFILE VIEW
8.	SELECTED CROSS SECTIONS
8. - 10.	THRU SEEPAGE CROSS-SECTIONS 4

INDEX

PLANS REVIEWED AND APPROVED BY:

KSN INC. Consulting Engineers and Land Surveyors

Post Office Box 844
711 N. Pershing Avenue
Stockton, CA 95201-0844
Office: (209) 946-0268
Faxes: (209) 946-0296
E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT DATED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT AREA VII-F DATED 5/5/09

ENGEO INCORPORATED
EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

Mackay & Somp
ENGINEERS PLANNERS SURVEYORS
5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0990

RECLAMATION DISTRICT NO. 17
ELEMENT VII-F
COVER SHEET

SAN JOAQUIN COUNTY CALIFORNIA

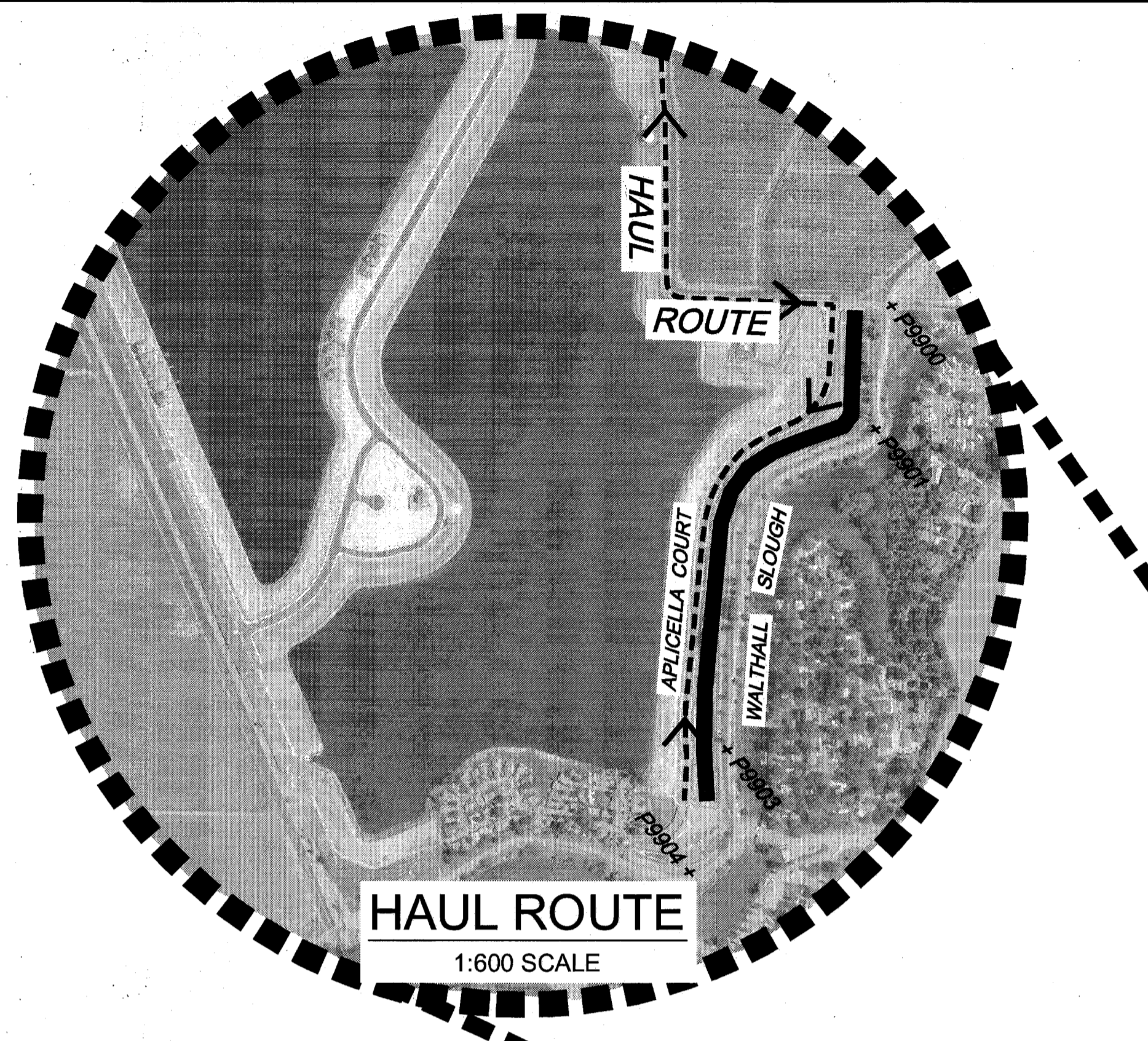
NO.	REVISION	DATE
5	As-Noted	6-16-10
4	THRU SEEPAGE: REV. SHTS. 1, 4, 5, & 6. DELETED SHIT 8. ADDED SHTS. 8-10	4/16/10
3	REVISE BERM SECTION ADJACENT TO LEVEE	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	9/2/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

DATE: JULY 2009
SCALE: NOT TO SCALE
DRAWN BY: GB
DESIGNED BY: CWG
CHECKED BY: JSL

PROJECT NO. 25126.03
SHT 1 OF 10

REGISTERED PROFESSIONAL ENGINEER
JAMES F. TEMPLETON
No. 43061
EXP. 3/31/12
CIVIL ENGINEER
STATE OF CALIFORNIA

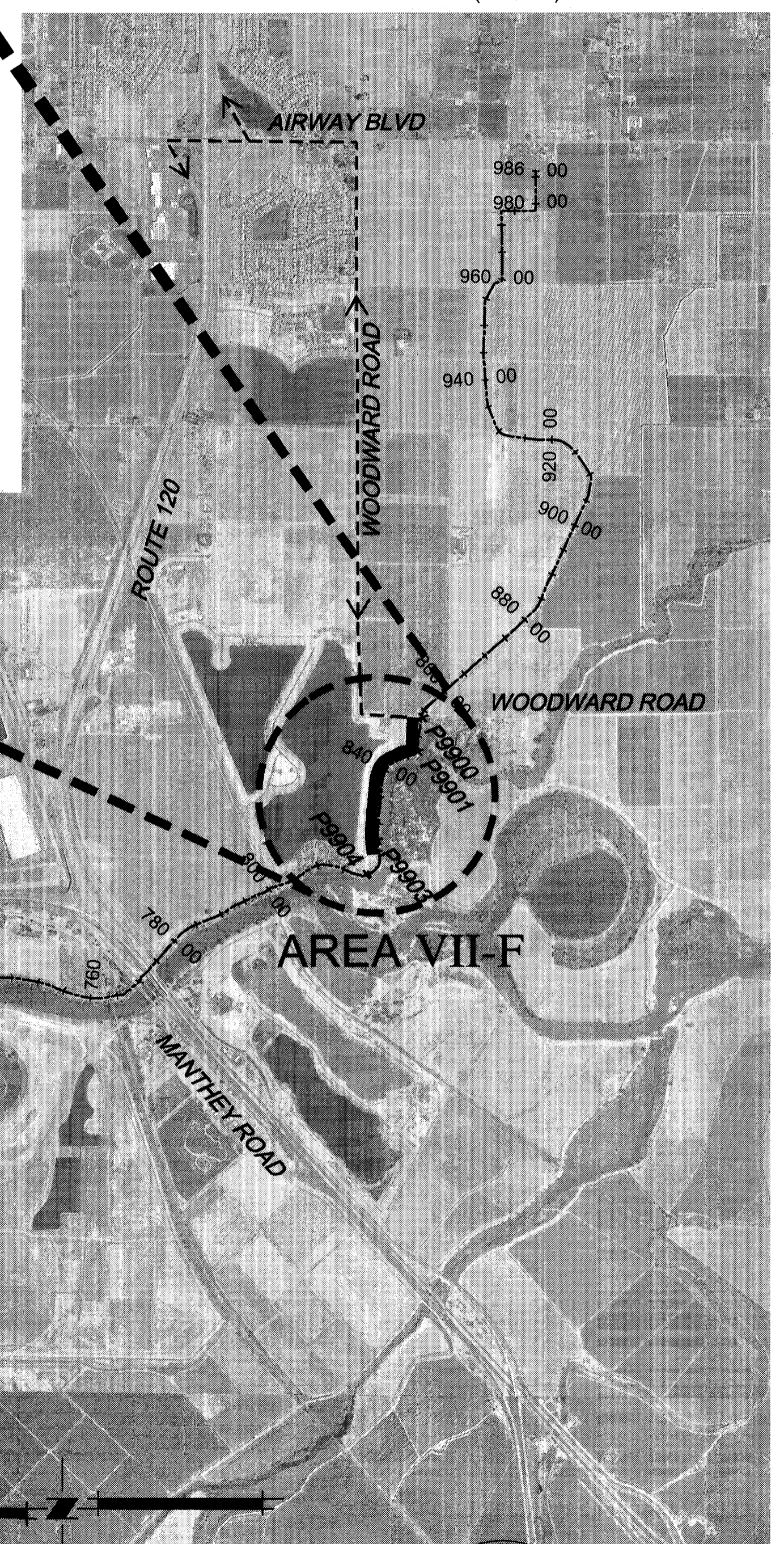
RECORD DRAWINGS
THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE CONTRACTOR AND INSPECTOR.
DATE: 6/17/10



CONTROL POINTS
 P9900 - N=2104553.066 E=6333596.037 ELEV=31.69 IRON PIPE
 P9901 - N=2104636.095 E=6332966.263 ELEV=31.35 IRON PIPE
 P9902 - N=2105295.978 E=6332471.387 ELEV=31.57 IRON PIPE
 P9903 - N=2105392.795 E=6331321.478 ELEV=31.67 IRON PIPE

←-----→
INDICATES HAUL ROUTES TO BE USED BY CONTRACTOR

THE BASIS OF BEARINGS IS NORTH 12°33'37.56" EAST BETWEEN NATIONAL GEODETIC SURVEY HORIZONTAL CONTROL POINTS HPGN-D CA 10 HG (PID AA4256) AND MATTHEW (PID HS0118), CALIFORNIA COORDINATE SYSTEM ZONE 3, NAD83, EPOCH DATE 1997.30, AS CALCULATED AND ADJUSTED BY THE NATIONAL GEODETIC SURVEY IN JULY, 1998, AS SHOWN ON RECORD OF SURVEY RECORDED AT BOOK 34 PAGES 163 - 163B, OF SAN JOAQUIN COUNTY RECORDS. ALL DISTANCES SHOWN HEREON ARE GROUND DISTANCES. TO CONVERT TO GRID DISTANCE, MULTIPLY GROUND DISTANCE BY AVERAGE COMBINED SCALE FACTOR OF 0.999929125. ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).



0' 1000' 2000' 4000'
 SCALE: 1"=2000'

REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 No. 43061
 EXP. 3/31/12
 JAMES T. TEMPLETON
 CIVIL ENGINEER
 STATE OF CALIFORNIA

PLANS REVIEWED AND APPROVED BY:
KSN KJELSDEN SINNOCK NEUDECK INC. Consulting Engineers and Land Surveyors
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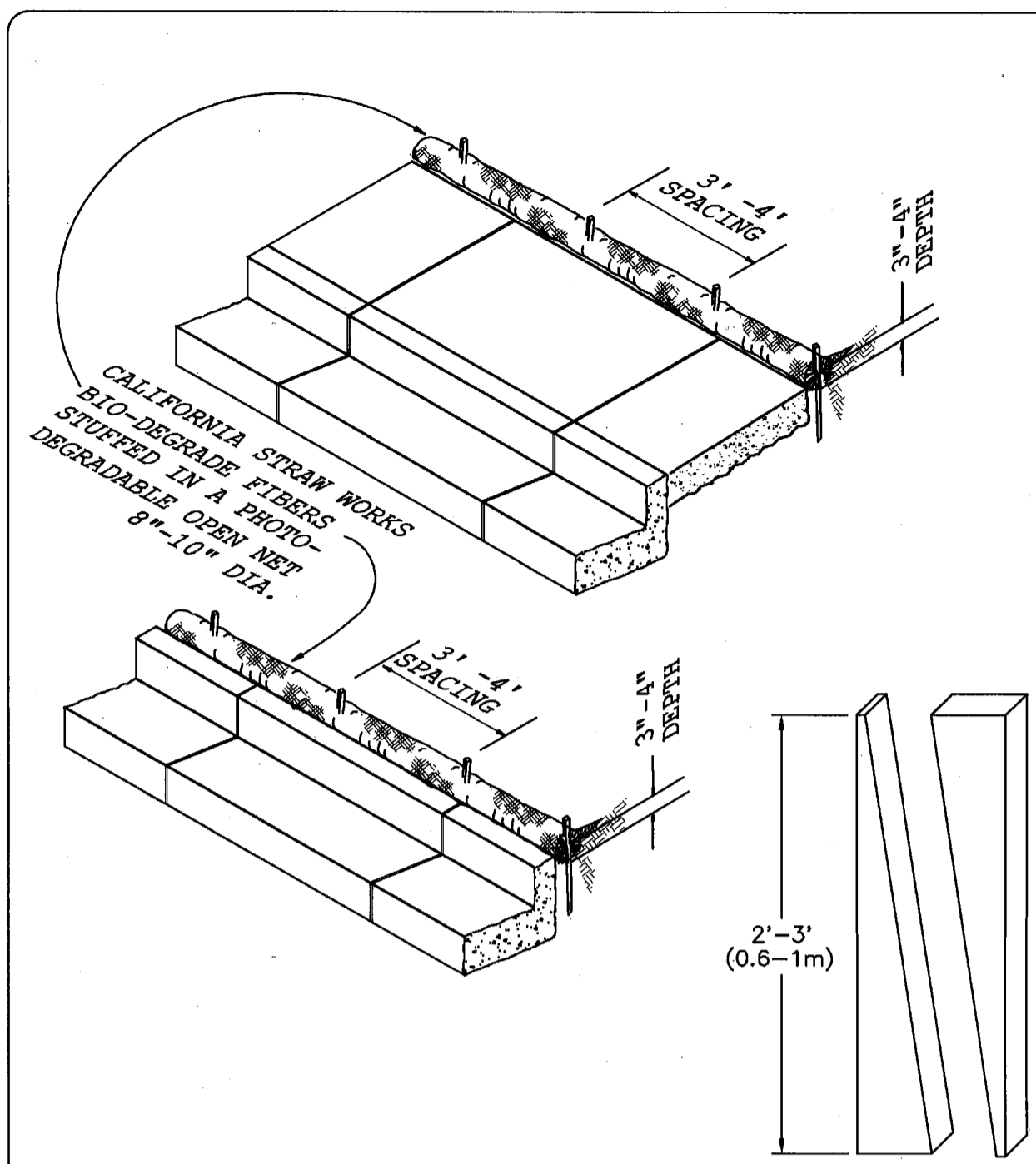
THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT DATED UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT AREA VII-F DATED 5/5/09
ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971

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RECLAMATION DISTRICT NO. 17
 ELEMENT VII-F
 STATIONING MAP / HAUL ROUTES
 SAN JOAQUIN COUNTY CALIFORNIA

5	As-Noted	6-16-10
4	THRU SEEPAGE: REV. SHTS. 1, 4, 5, & 6. DELETED SHIT 8. ADDED SHITS. 8-10	4/16/10
3	REVISE BERM SECTION ADJACENT TO LEVEE	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	9/2/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09
NO.	REVISION	DATE

DATE: JULY 2009
 SCALE: 1"=2000'
 DRAWN BY: GB
 DESIGNED BY: CWG
 CHECKED BY: JSL
 PROJECT NO. 25126.03
 SHEET 2 OF 10



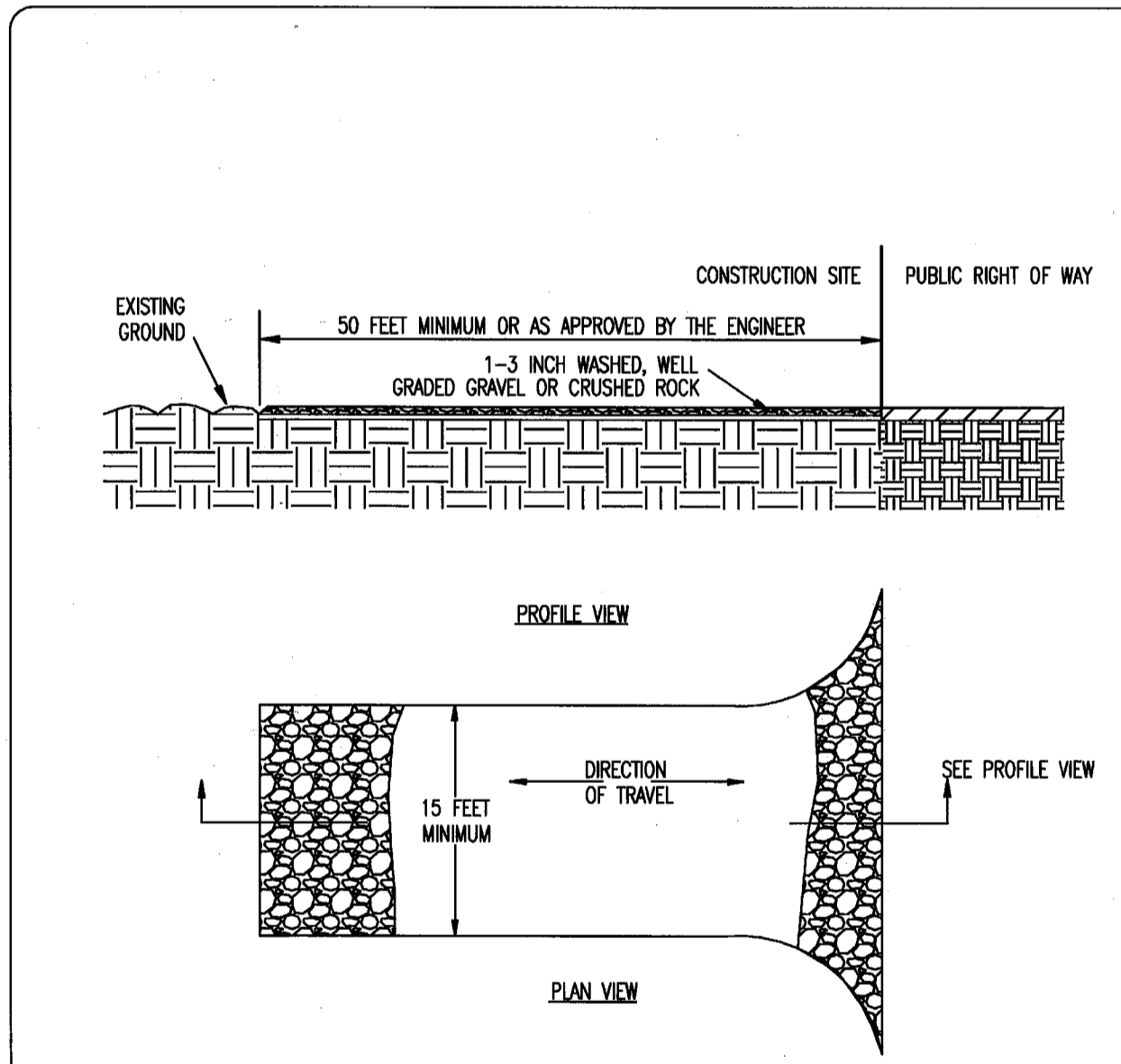
NOTES:
 1. REPAIR OR REPLACE SPLIT, TORN, UNRAVELING OR SLUMPING FIBER ROLLS.
 2. INSPECT FIBER ROLLS WHEN RAIN IS FORECAST, FOLLOWING RAIN EVENTS AND AT LEAST DAILY DURING PROLONGED RAINFALL. PERFORM REQUIRED MAINTENANCE.
 3. IN MOST CASES, FIBER ROLLS DO NOT REQUIRE REMOVAL AND CAN BE ABANDONED IN PLACE, IF NOT EXCESSIVELY SOILED. ROLLS MAY BE REPLACED AND REUSED.

FILE: WATC09B

TYPICAL CONSTRUCTION STAKE
 SAW 2X4 (100X50mm) LUMBER
 ON DIAGONAL

NOT TO SCALE

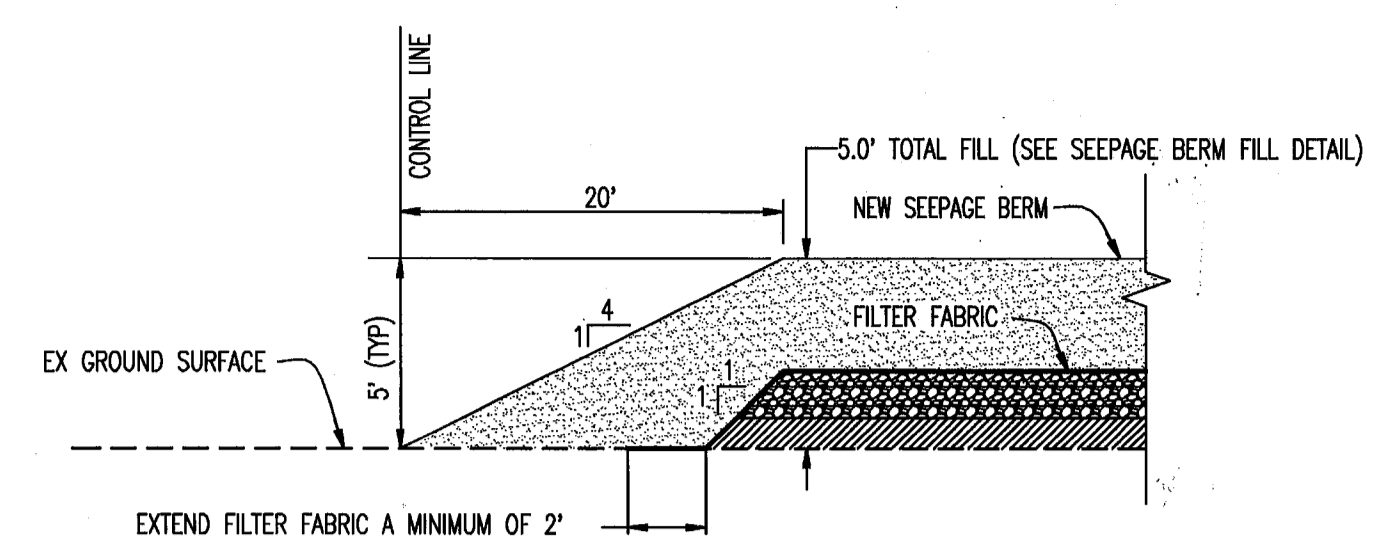
**WATTLES ALONG
 C/G & SIDEWALK**



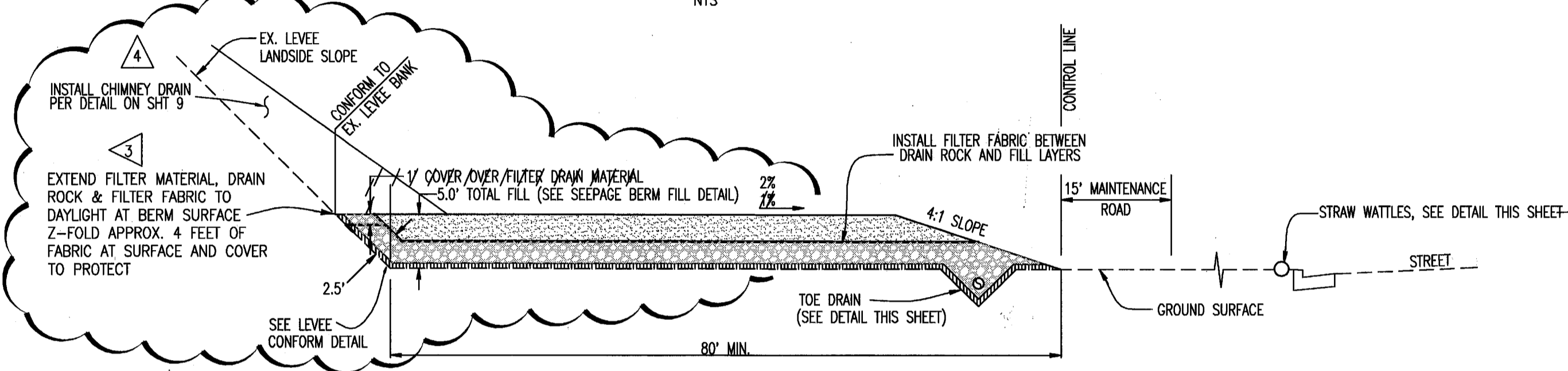
NOTES:
 1. CONSTRUCT AT ALL ENTRANCES TO THE PROJECT SITE AS APPROVED BY THE ENGINEER.
 2. THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING WITH ROCK MATERIAL.
 3. ACCESSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL, WITH MAINTENANCE PROVIDED AS NECESSARY. PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.

NOT TO SCALE

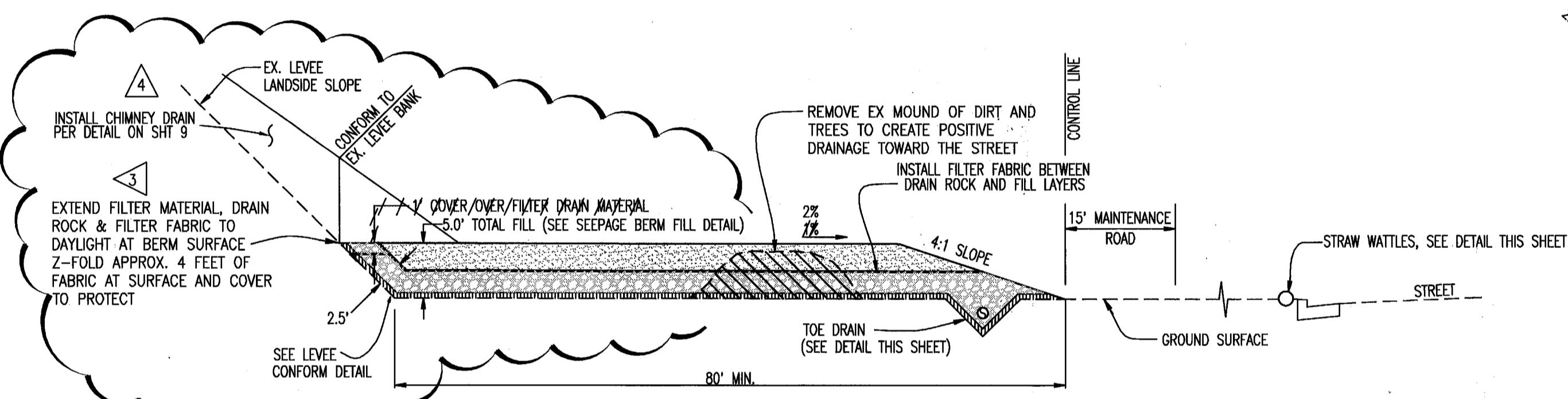
**STABILIZED
 CONSTRUCTION
 SITE ACCESS**



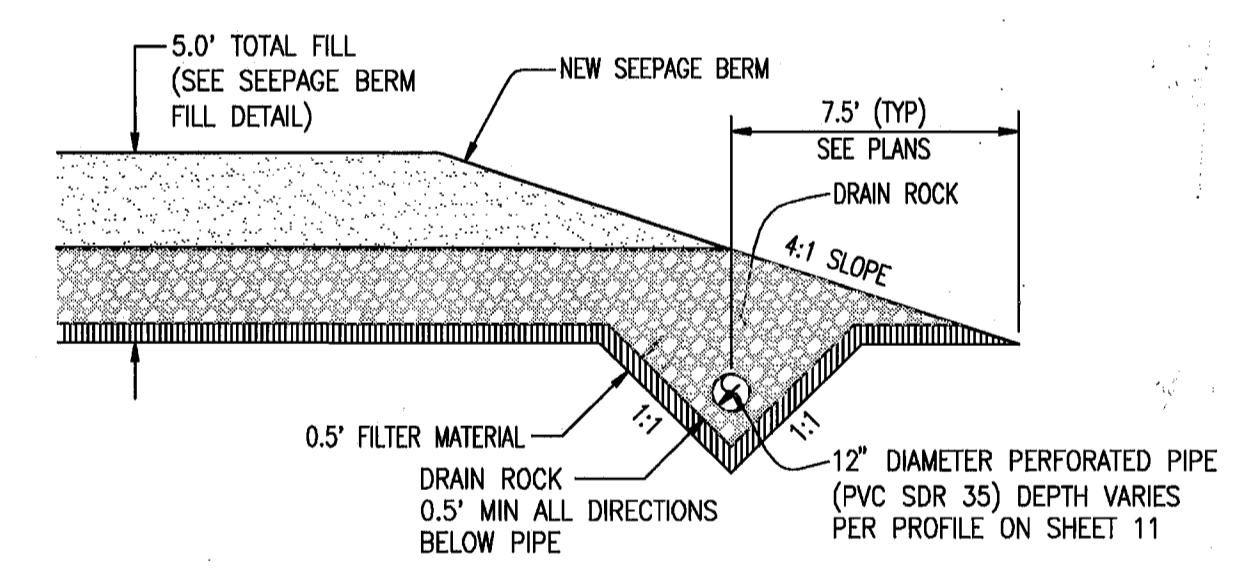
SECTION A: END OF BERM TRANSITION
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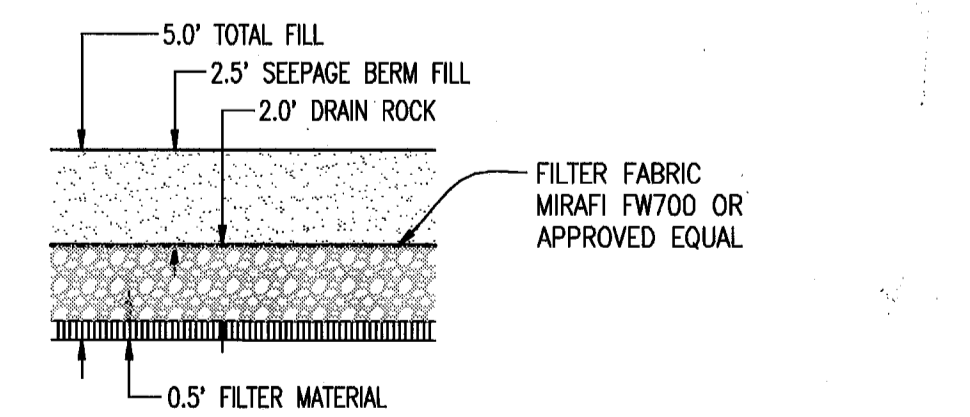
SECTION B: STATION 824+80 THRU 829+90 AND 833+10 THRU 849+87
 NTS



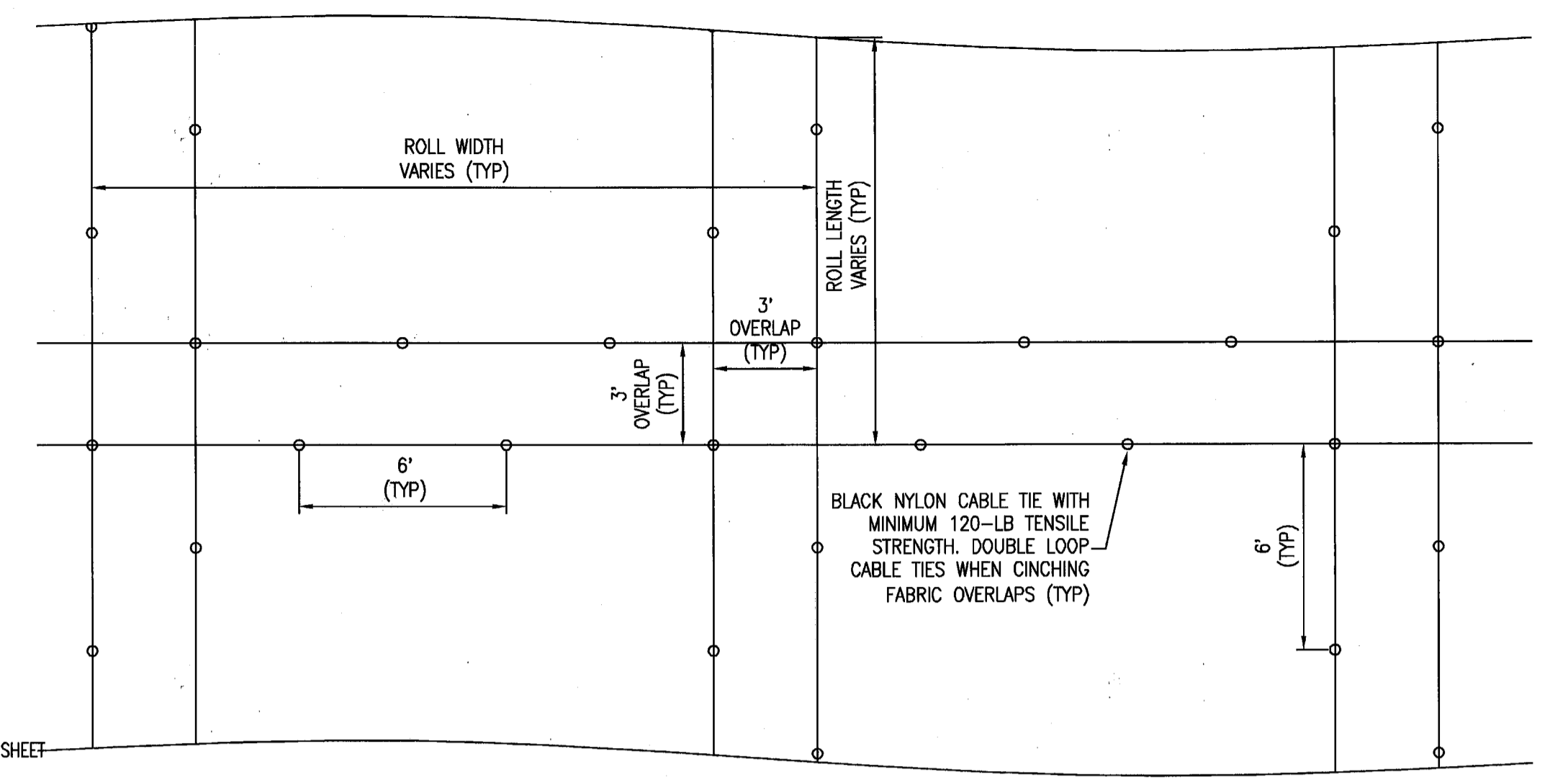
SECTION C: STATION 829+90 THRU 833+10
 NTS



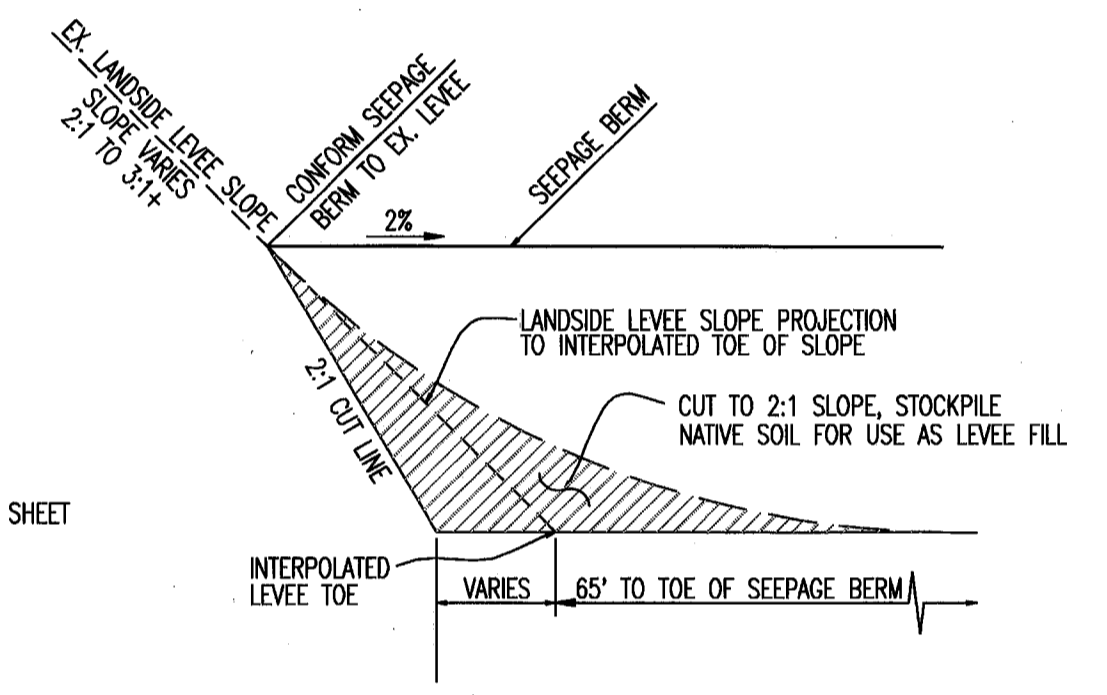
TOE DRAIN DETAIL
 NTS



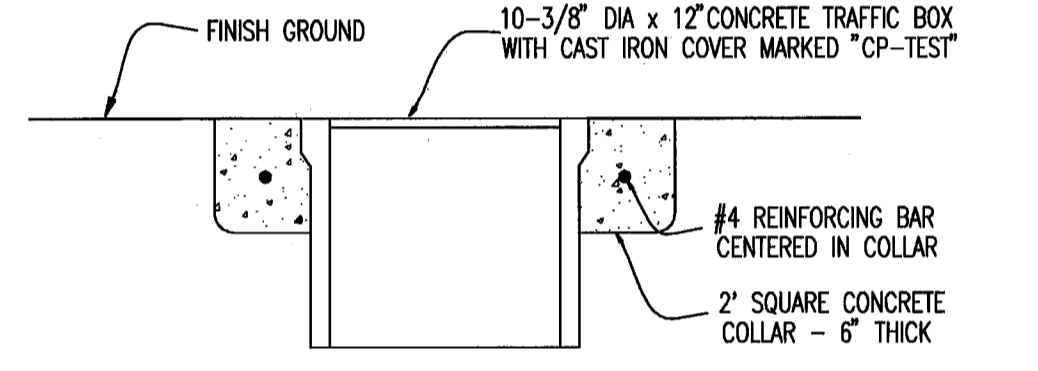
SEEPAGE BERM FILL DETAIL
 NTS



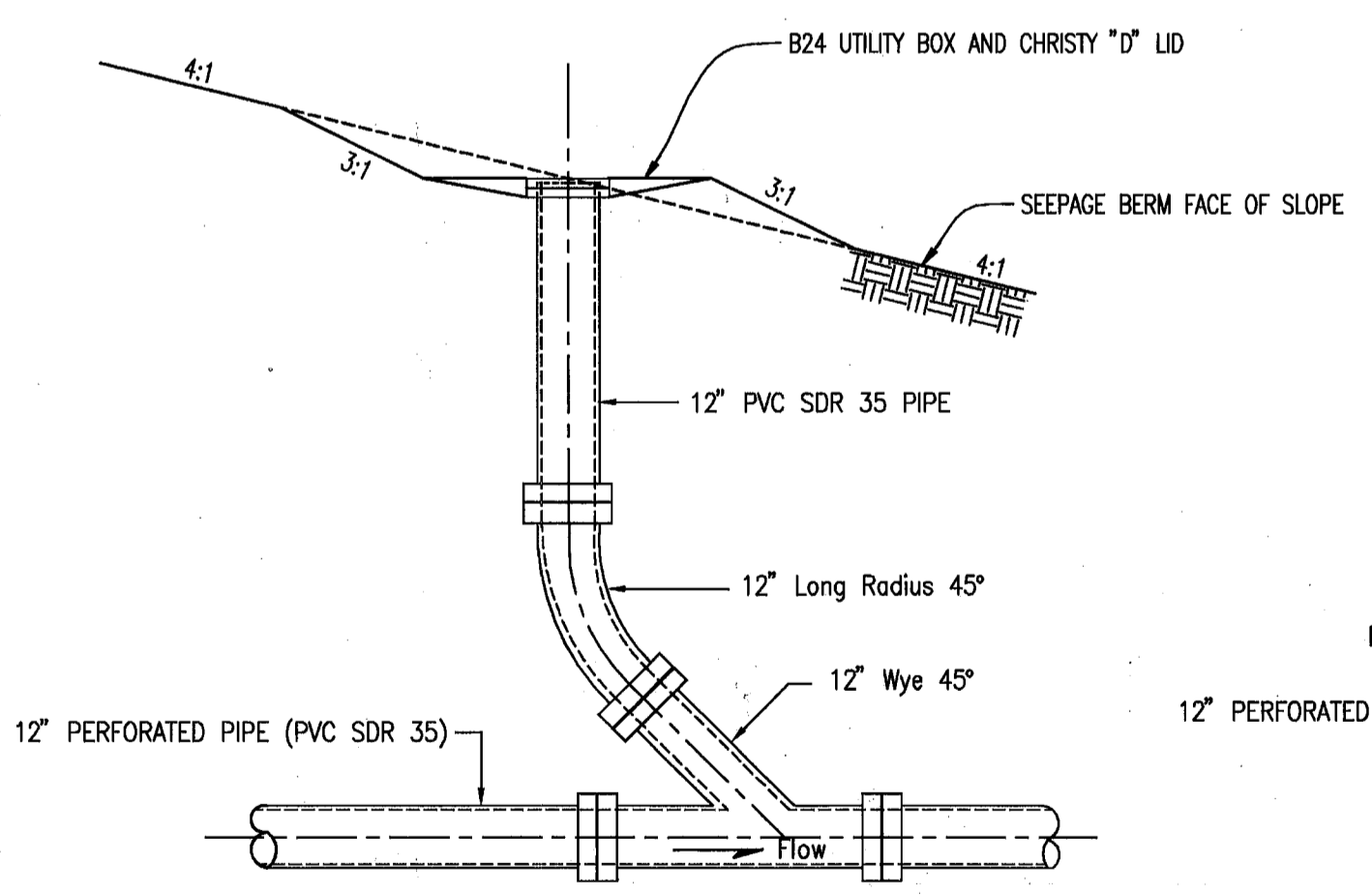
TYPICAL MIRAFI FW700 OVERLAP INSTALLATION DETAIL
 NTS



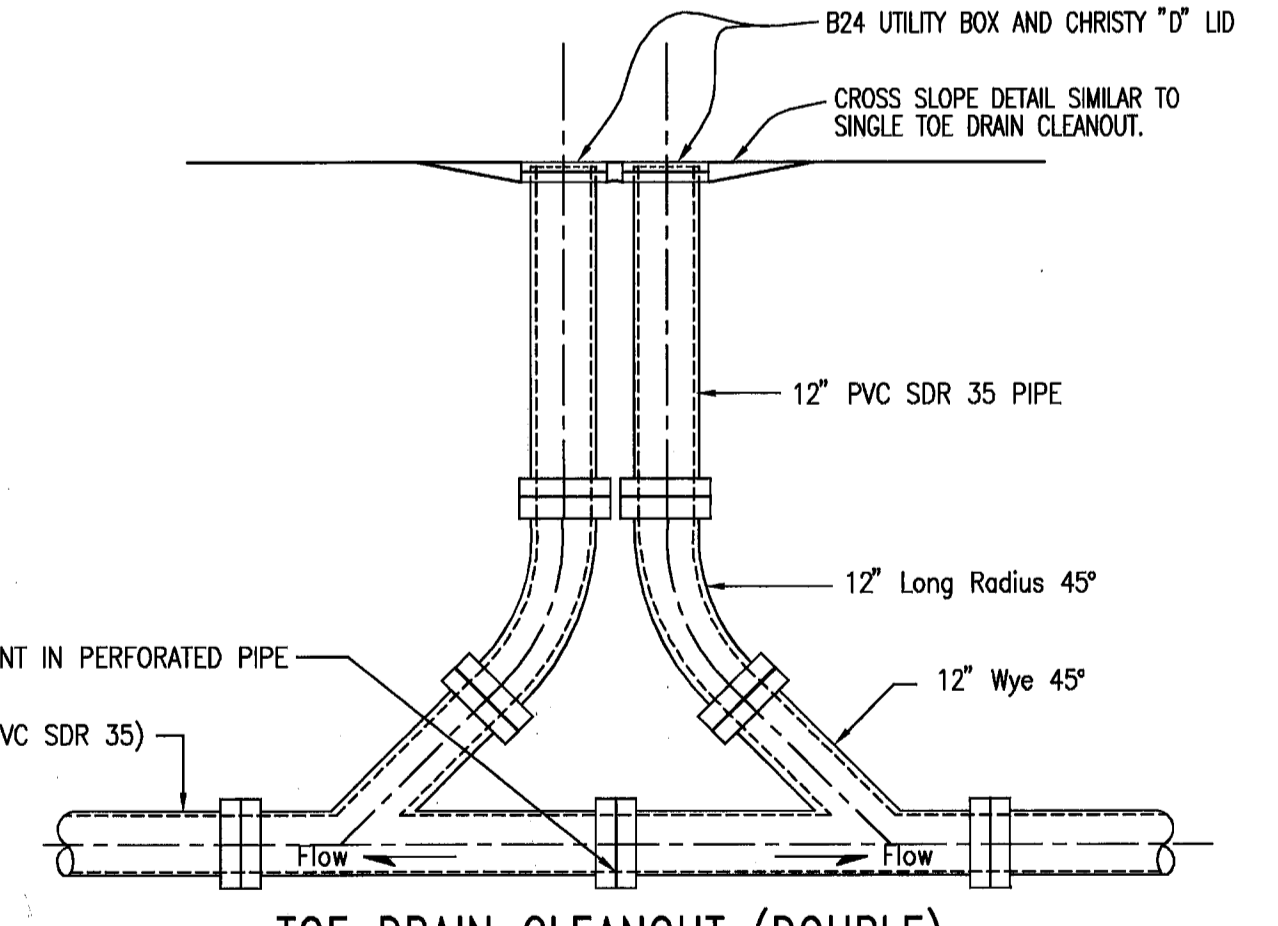
LEEVE CONFORM DETAIL
 NTS



CATHODIC PROTECTION TEST STATION DETAIL
 NTS



TOE DRAIN CLEANOUT
 NTS



**TOE DRAIN CLEANOUT (DOUBLE)
 AT HIGH POINTS**
 NTS

RECORD DRAWINGS
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE EXCEPTIONS NOTED FOR FIELD CHANGES. REVISIONS TO THE DESIGN OF THE ENGINEER BY THE PROJECT OWNER SHALL BE AT THE DISCRETION OF THE ENGINEER AND INSPECTOR.

NO. 43061
 EXP. 3/31/12
 CIVIL
 STATE OF CALIFORNIA

PLANS REVIEWED AND APPROVED BY:

K S N KJELSDEN SINNOCK NEUDECK INC. Consulting Engineers and Land Surveyors

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 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Fax: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT AREA VII-F DATED 5/5/09

ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

MACKAY & SOMPS ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94568 (925) 225-0690

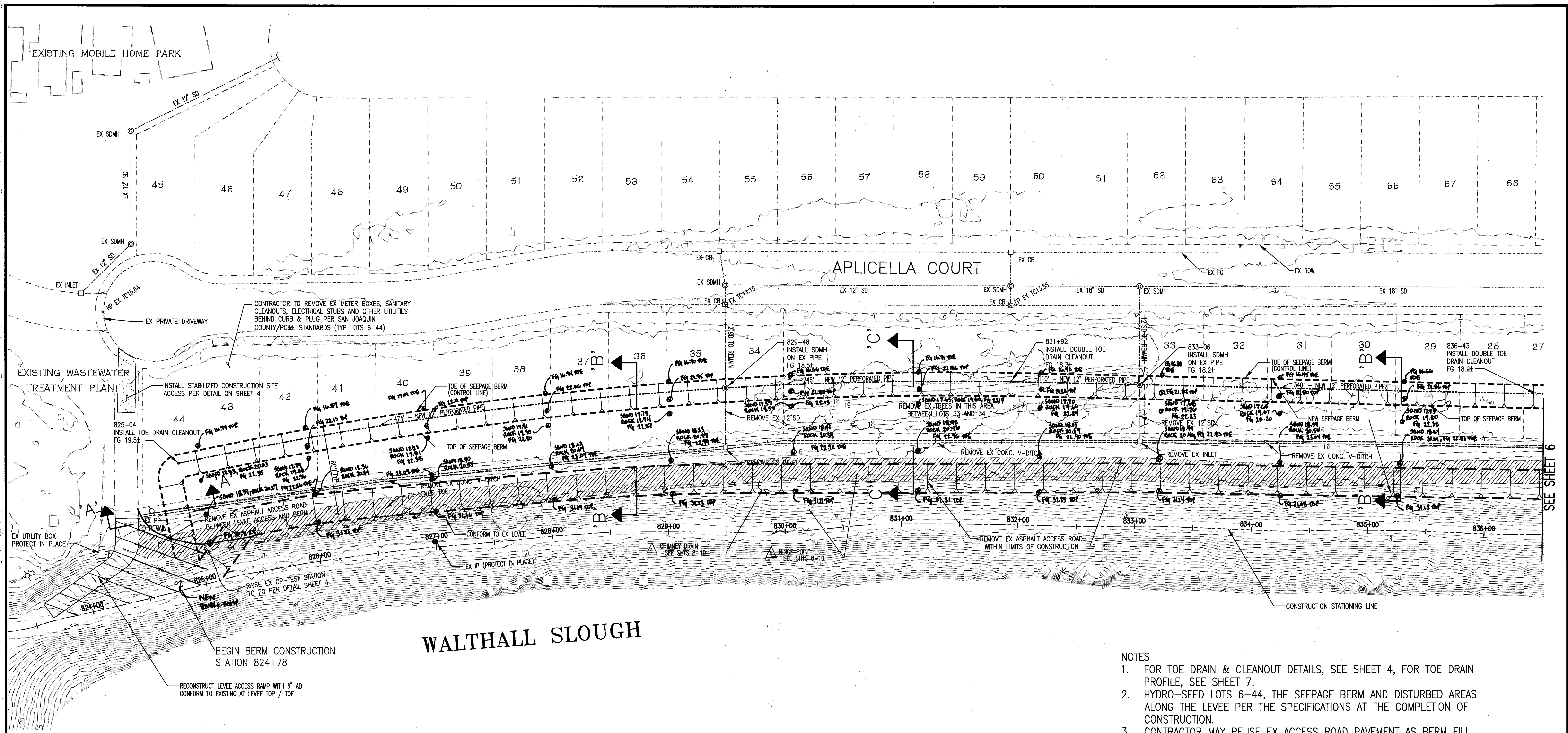
**RECLAMATION DISTRICT NO. 17
 ELEMENT VII-F**
 TYPICAL SECTIONS AND DETAILS

SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE
5	AS SHOWN	4/15/10
4	THRU SEEPAGE: REV. SHTS. 1, 4, 5, & 6. DELETED SHIT & ADDED SHTS. 8-10	10/8/09
3	REVISE BERM SECTION ADJACENT TO LEEVE	9/2/09
2	ISSUE CONSTRUCTION DOCUMENTS	7/20/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

DATE: JULY 2009
 SCALE: 1"=40'
 DRAWN BY: GB
 DESIGNED BY: CWG
 CHECKED BY: JSL

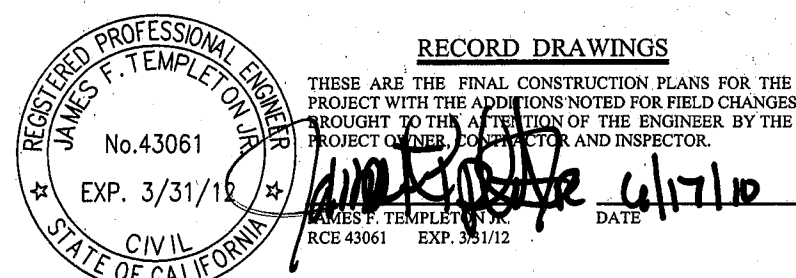
PROJECT NO. 25126.03
 SHEET 4 OF 10



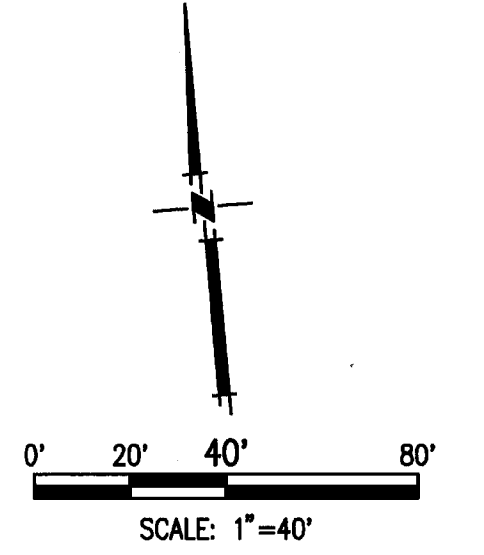
SEE SHEET 6

NOTES

1. FOR TOE DRAIN & CLEANOUT DETAILS, SEE SHEET 4, FOR TOE DRAIN PROFILE, SEE SHEET 7.
2. HYDRO-SEED LOTS 6-44, THE SEEPAGE BERM AND DISTURBED AREAS ALONG THE LEVEE PER THE SPECIFICATIONS AT THE COMPLETION OF CONSTRUCTION.
3. CONTRACTOR MAY REUSE EX ACCESS ROAD PAVEMENT AS BERM FILL SHOULD IT COMPLY TO THE PROVISIONS OF THE GEOTECHNICAL REPORT.
4. TREE REMOVAL SHALL BE COMPLETED IN ADVANCE OF THE SEEPAGE BERM CONSTRUCTION AND SHALL INCLUDE THE REMOVAL OF STUMPS AND ROOTS GREATER THAN 1/2 INCH IN DIAMETER.



WARNING • CAUTION
 EXISTING UNDERGROUND UTILITIES
 CONTACT : UNDERGROUND SERVICE ALERT
 PHONE: (800) 642-2444
 FOR MARKING PRIOR TO DIGGING



TOPOLOGY SOURCE: LIDAR TOPO SUMMER 2008

PLANS REVIEWED AND APPROVED BY:

KSN KJELSDEN SINNOCK NEUDECK INC. Consulting Engineers and Land Surveyors

Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
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THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT AREA VII-F DATED

ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971

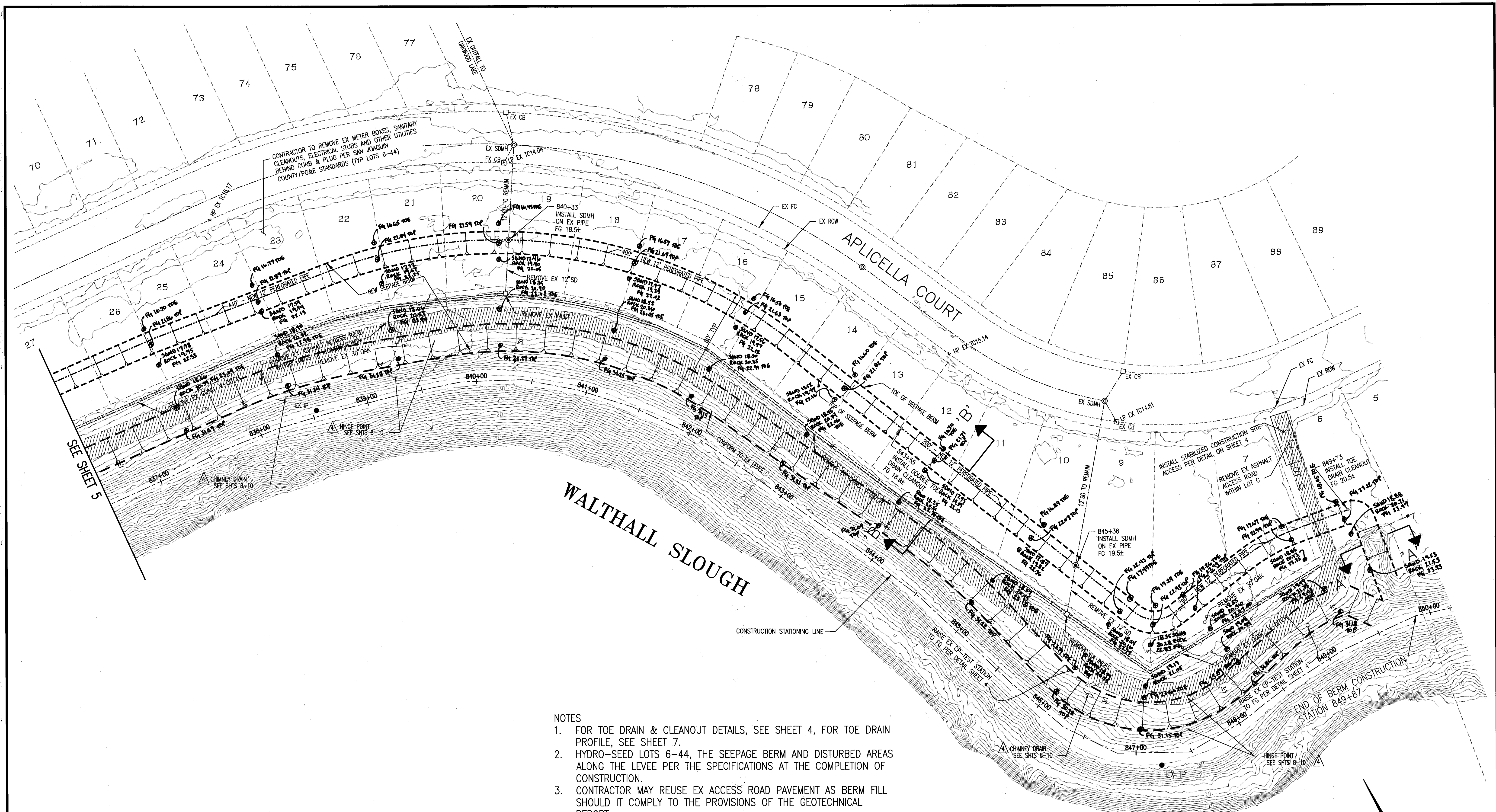
PLANS PREPARED UNDER THE DIRECTION OF:

Mackay & Soms
 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94568 (925) 225-0690

RECLAMATION DISTRICT NO. 17
 ELEMENT VII-F
 SEEPAGE BERM PLAN VIEW

SAN JOAQUIN COUNTY CALIFORNIA

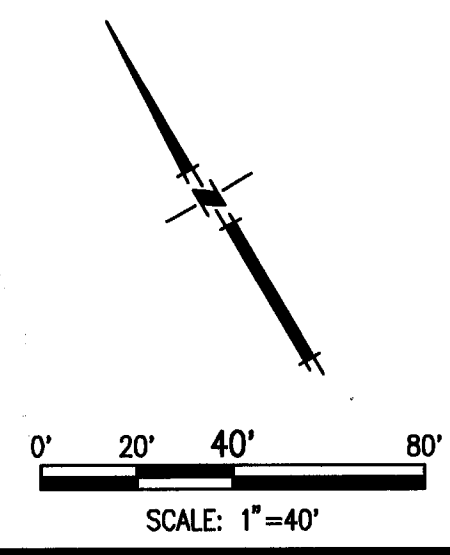
NO.	REVISION	DATE	DESIGNED BY: GB	CHECKED BY: JSL	PROJECT NO. 25126.03
6	As-Noted	6-10-10			SHEET 5 OF 10
4	THRU SEEPAGE: REV. SHTS. 1, 4, 5, & 6. DELETED SHIT 8. ADDED SHITS. 8-10	4/16/10			
3	REVERSE BERM SECTION ADJACENT TO LEVEE	10/9/09			
2	ISSUE CONSTRUCTION DOCUMENTS	9/2/09			
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09			



- NOTES
1. FOR TOE DRAIN & CLEANOUT DETAILS, SEE SHEET 4, FOR TOE DRAIN PROFILE, SEE SHEET 7.
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WARNING • CAUTION
 EXISTING UNDERGROUND UTILITIES
 CONTACT : UNDERGROUND SERVICE ALERT
 PHONE: (800) 642-2444
 FOR MARKING PRIOR TO DIGGING

REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 STATE OF CALIFORNIA
 No. 43061
 EXP. 3/31/12
 RECORD DRAWINGS
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE PROJECT ARCHITECT AND/OR INSPECTOR.
 DATE: 6/17/10



PLANS REVIEWED AND APPROVED BY:
K S N KJELSDEN SINNOCK NEUDECK INC.
 Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
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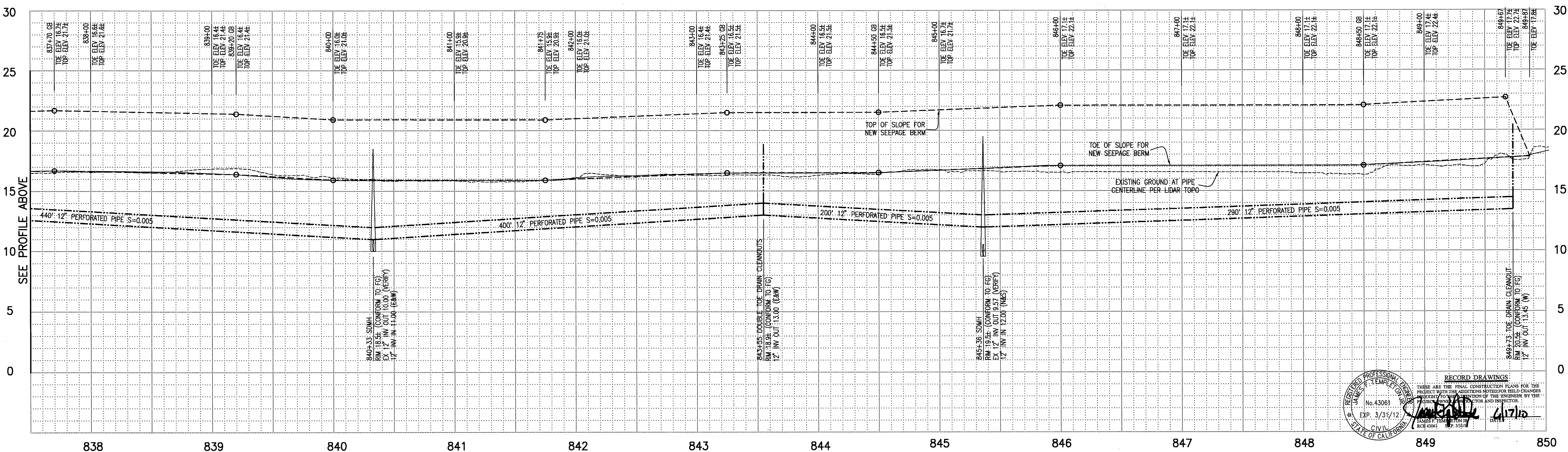
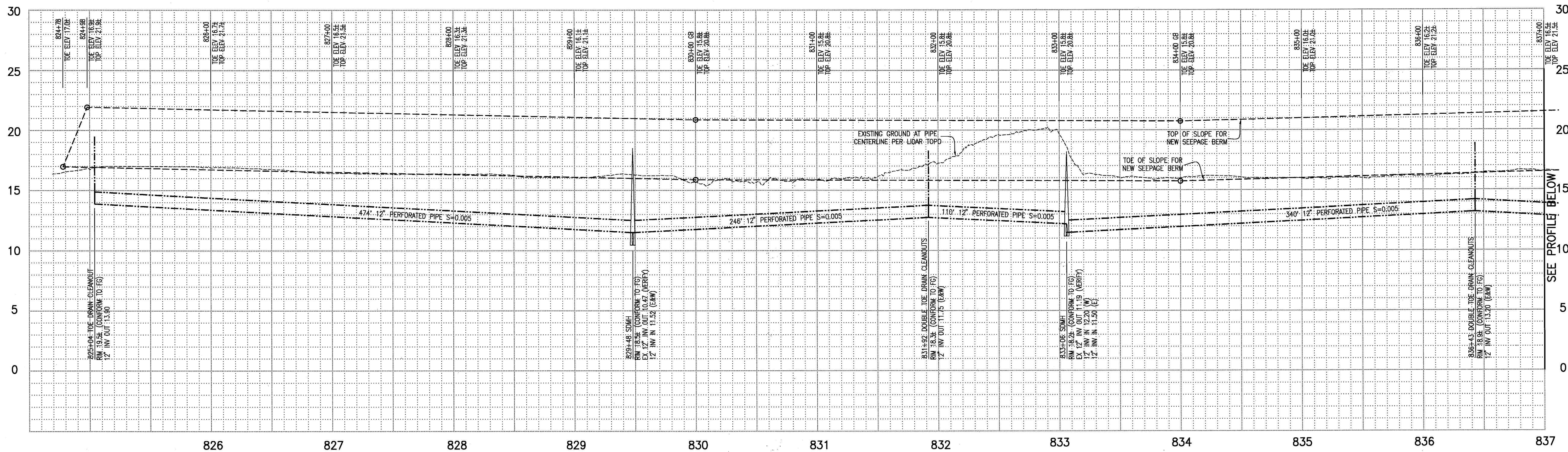
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RECLAMATION DISTRICT NO. 17
 ELEMENT VII-F
 SEEPAGE BERM PLAN VIEW
 SAN JOAQUIN COUNTY CALIFORNIA

NO.	REVISION	DATE
5	AS-BUILT	6/16/10
4	THIRD SEEPAGE REV. SHTS. 1, 4, 5, & 6. DELETED SHIT 8. ADDED SHITS. 8-10	4/18/10
3	REVISE BERM SECTION ADJACENT TO LEVEE	10/18/09
2	ISSUE CONSTRUCTION DOCUMENTS	9/2/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

DATE: JULY 2009
 SCALE: 1"=40'
 DRAWN BY: GB
 DESIGNED BY: CWG
 CHECKED BY: JSL
 PROJECT NO. 25126.03
 SHEET 6 OF 10



RECORD DRAWINGS
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES APPROVED BY THE DIRECTION OF THE ENGINEER BY THE ARCHITECT AND INSPECTOR.
 No. 43061
 EXP. 3/31/12
 CIVIL
 JAMES P. TEMPLETON
 REG. 43061 EXP. 3/31/12

PLANS REVIEWED AND APPROVED BY:

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ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971

PLANS PREPARED UNDER THE DIRECTION OF:

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 ENGINEERS PLANNERS SURVEYORS
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RECLAMATION DISTRICT NO. 17
 ELEMENT VII-F
 SEEPAGE BERM PROFILE VIEW
 SAN JOAQUIN COUNTY CALIFORNIA

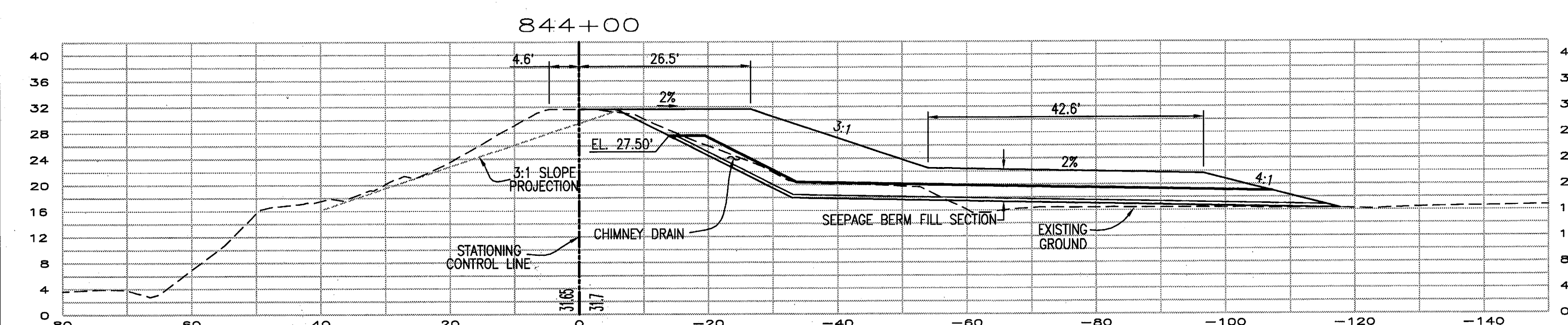
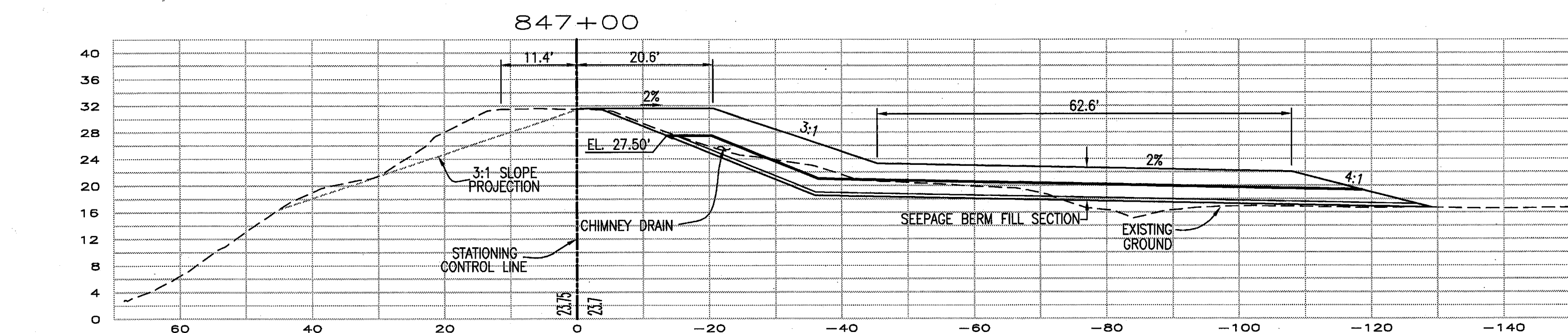
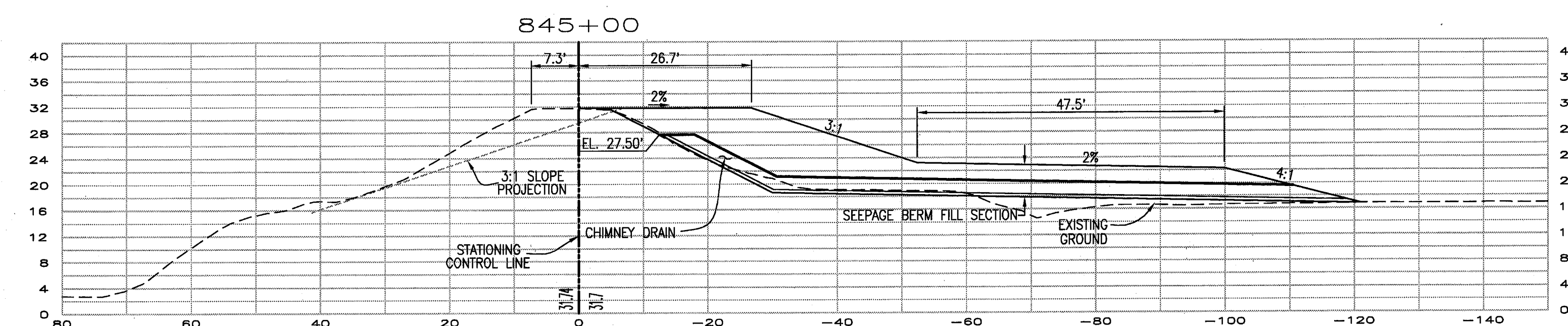
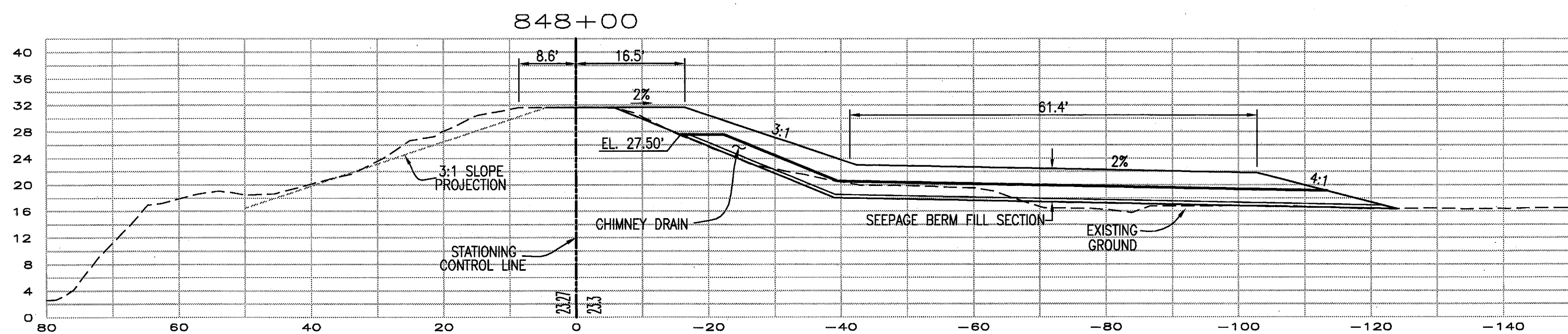
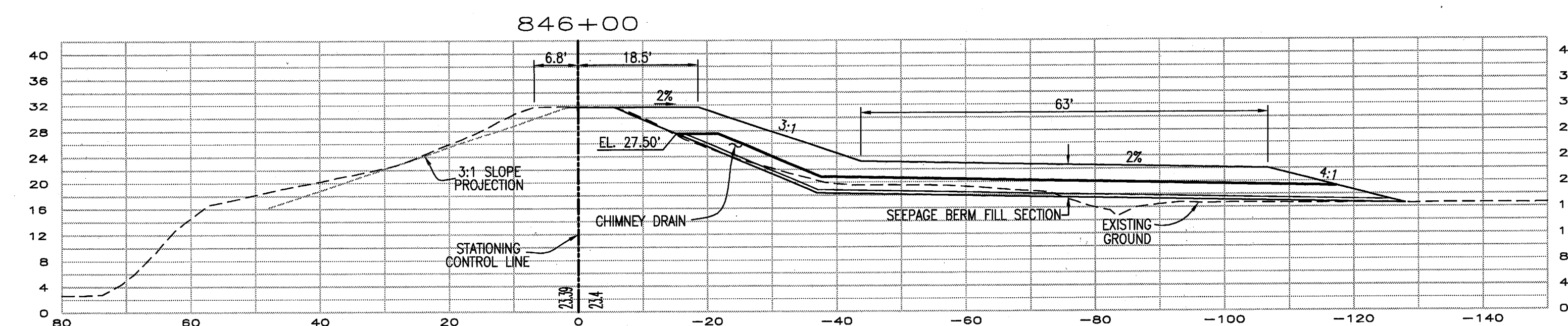
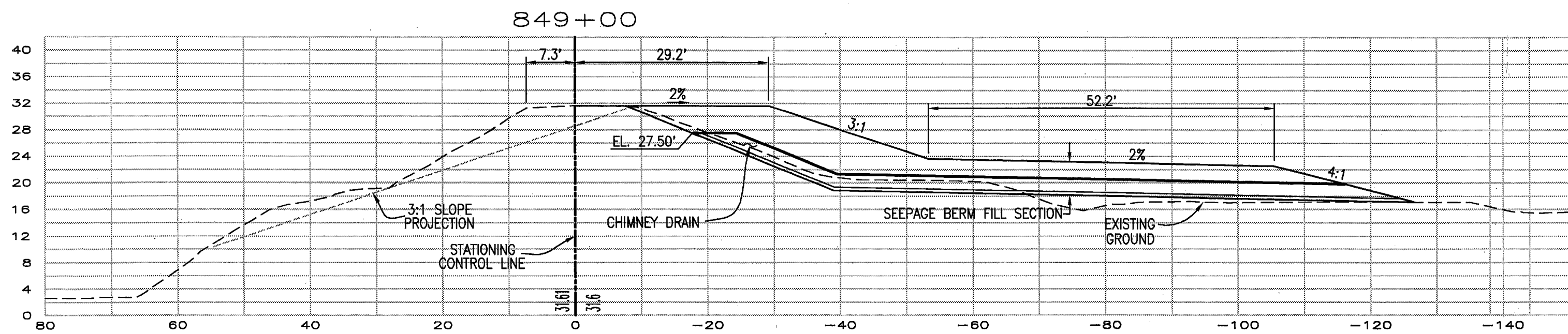
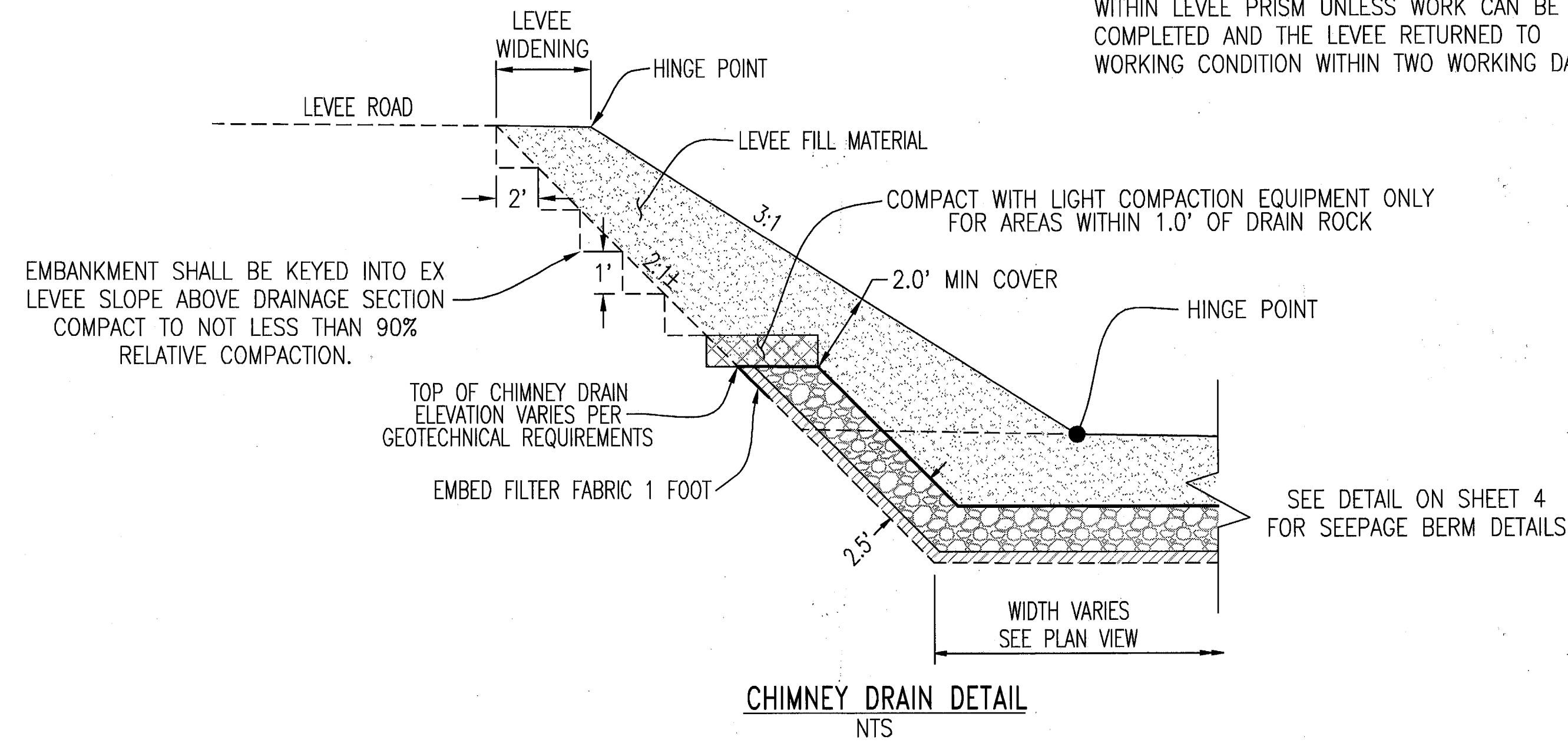
NO.	REVISION	DATE
5	A5-Balls	6-16-10
4	THRU SEEPAGE: REV. SHTS. 1, 4, 5, & 6. DELETED SHT 8. ADDED SHTS. 8-10	4/16/10
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1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09

DATE:	JULY 2009	PROJECT NO.:	25126.03
SCALE:		SHT:	7
DRAWN BY:	GB	OF:	10
DESIGNED BY:	CWG		
CHECKED BY:	JSL		

NOTE: CONTRACTOR SHALL NOT PERFORM ADVANCE WORK WITHIN LEVEE PRISM UNLESS WORK CAN BE COMPLETED AND THE LEVEE RETURNED TO WORKING CONDITION WITHIN TWO WORKING DAYS.

RECORD DRAWING
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE GPP INSPECTOR.

BY: *J. Steven Lichter* 9-30-10
 J. STEVEN LICHLITER RCE NO. 41637
 EXP. 12/31/11
 CIVIL ENGINEER
 STATE OF CALIFORNIA
 EXP. 12/31/11



PLANS REVIEWED AND APPROVED BY:

K S N KJELDEN SINNOCK NEUDECK
 INC. Consulting Engineers and Land Surveyors
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THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT ENTITLED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT AREA VII-F DATED 6/30/2010

ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971

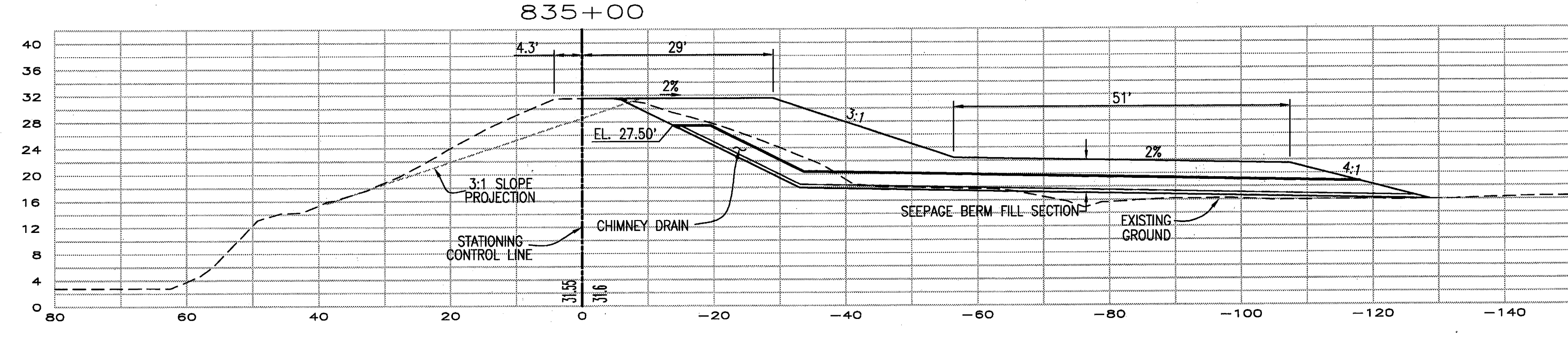
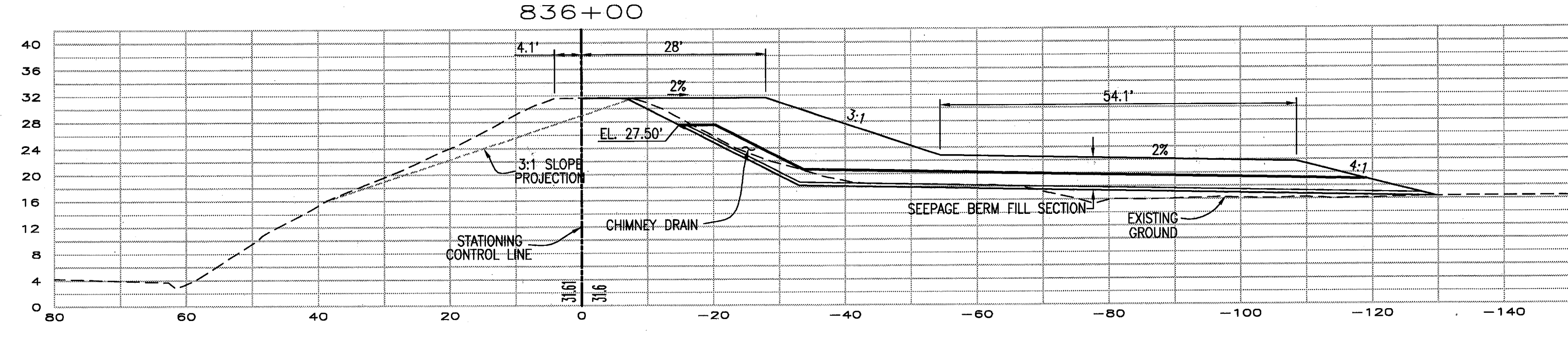
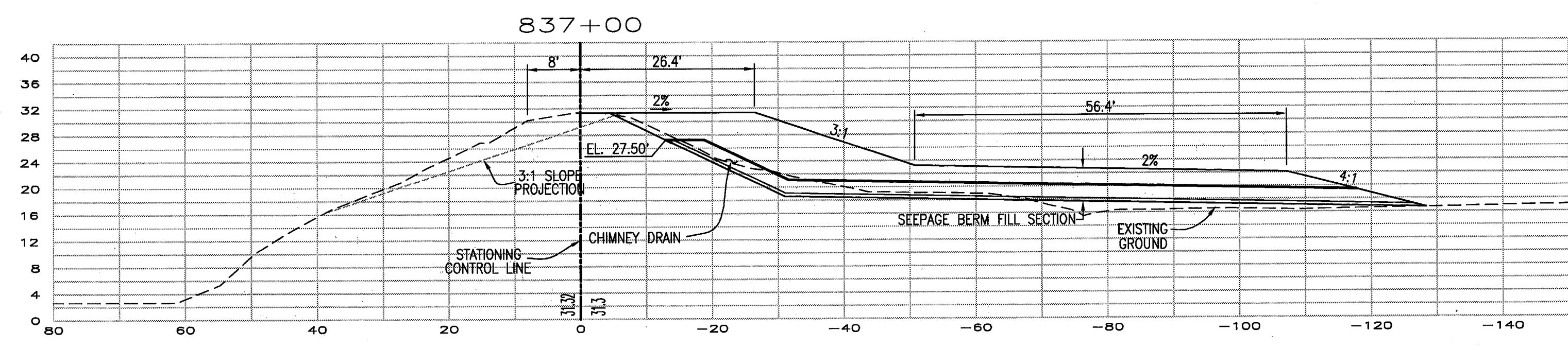
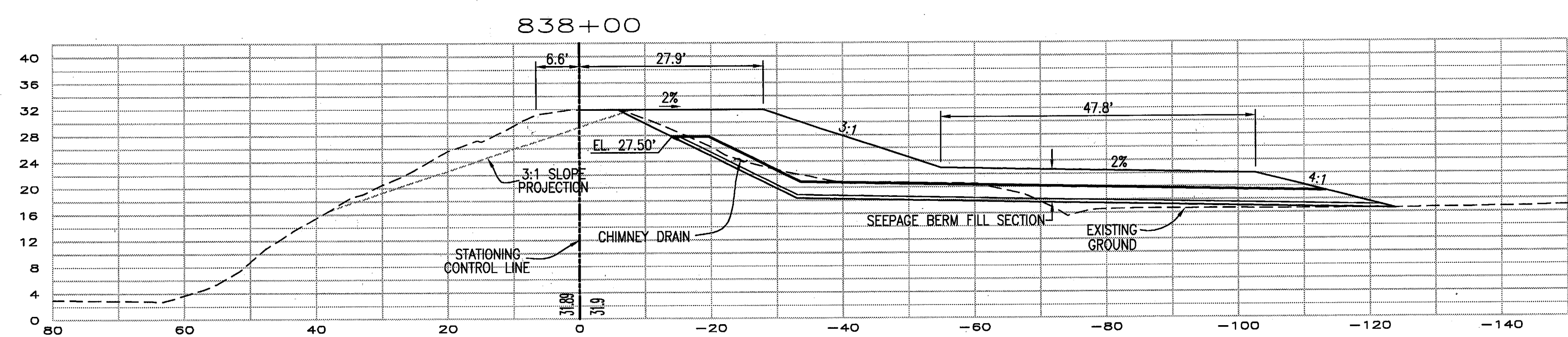
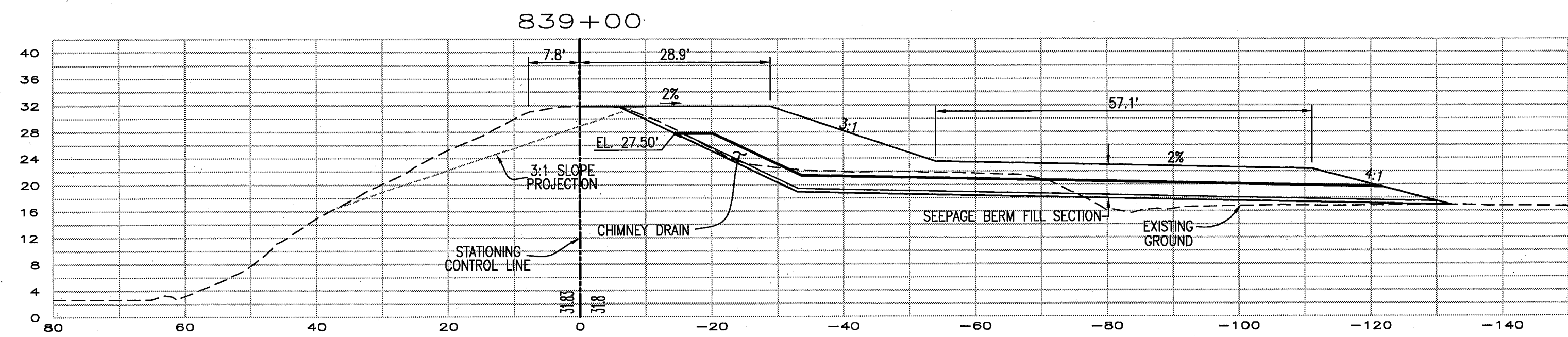
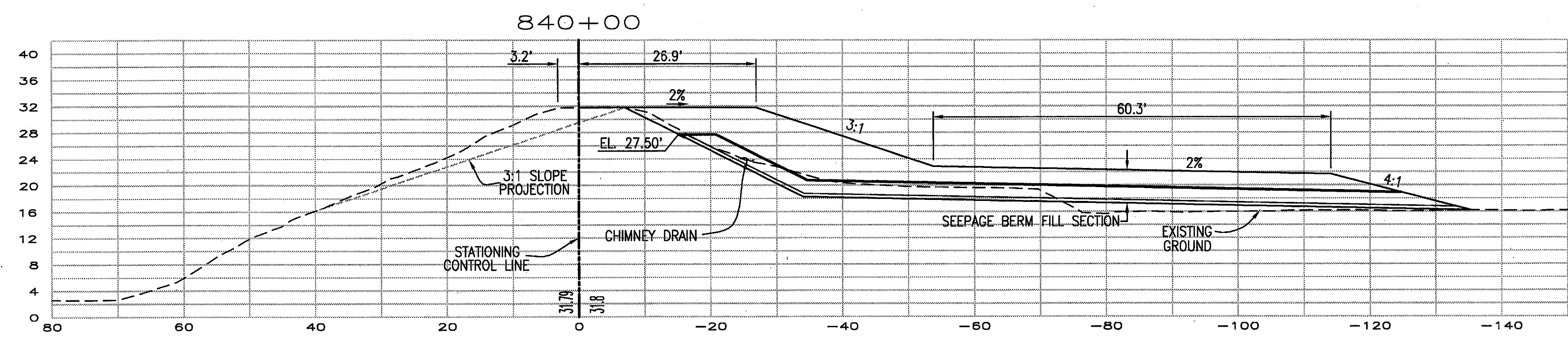
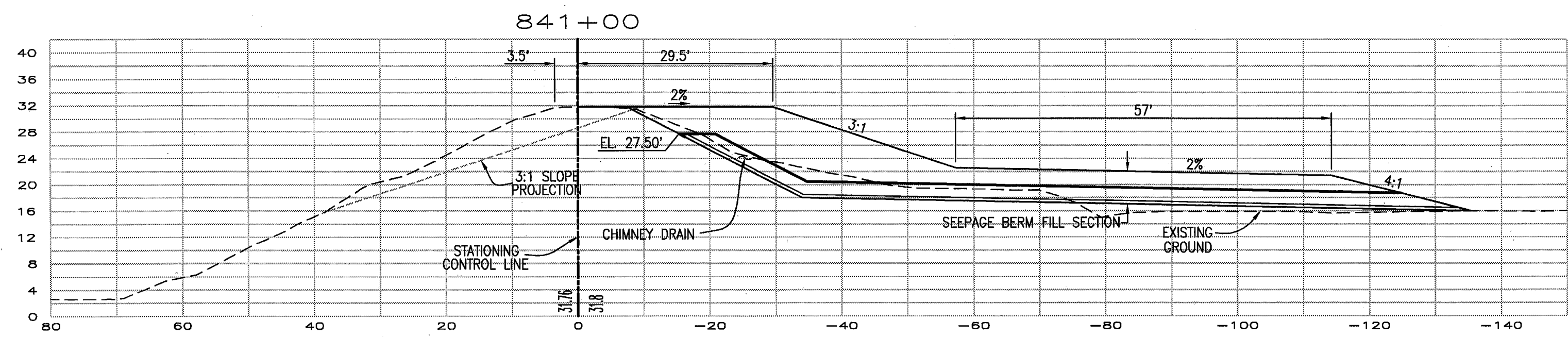
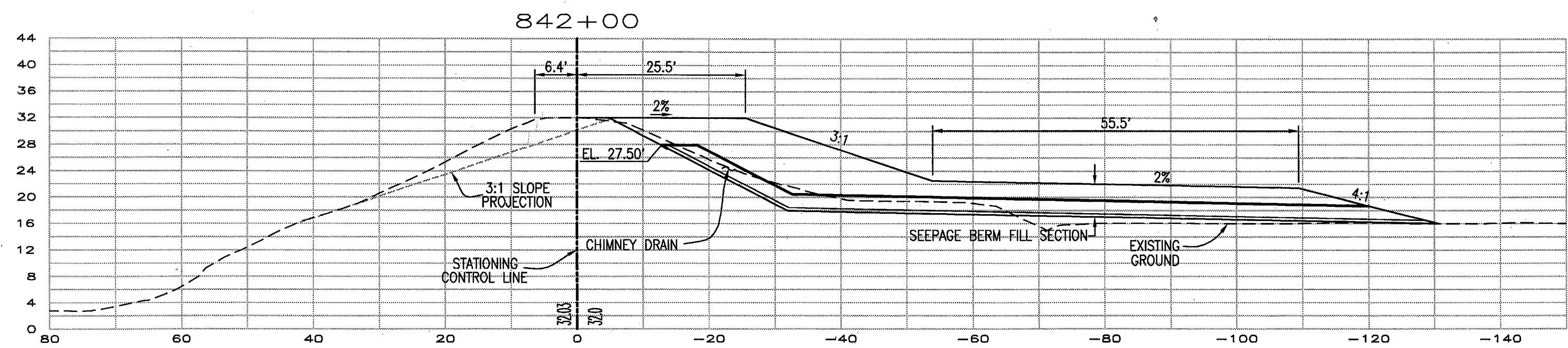
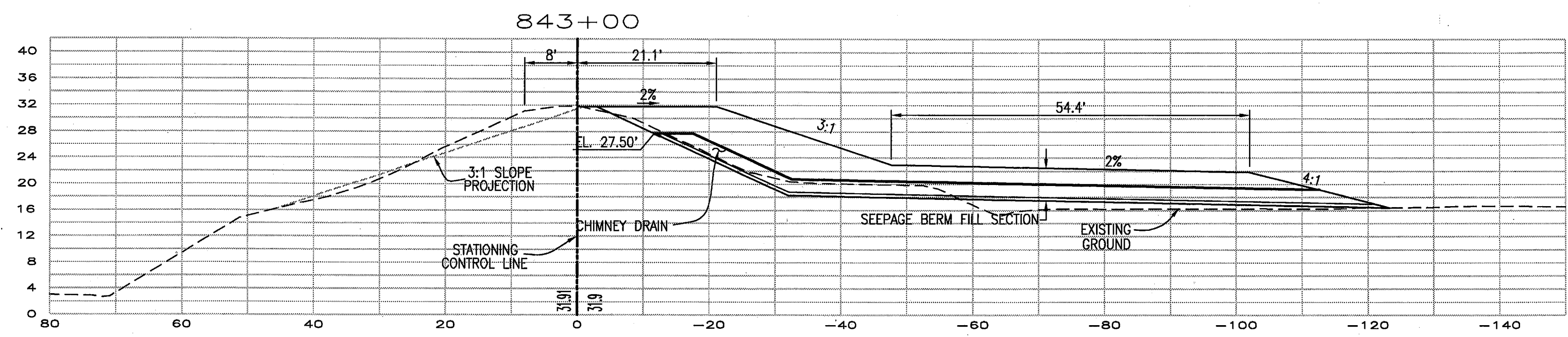
PLANS PREPARED UNDER THE DIRECTION OF:

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RECLAMATION DISTRICT NO. 17
 ELEMENT VII-F
 THRU SEEPAGE SECTIONS
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 SAN JOAQUIN COUNTY CALIFORNIA

DATE: JULY 2009	PROJECT NO. 25126.03
SCALE:	SHT 8
DRAWN BY: GB	OF 10
DESIGNED BY: CWG	
CHECKED BY: JSL	

NO.	REVISION	DATE
4	THRU SEEPAGE: REV. SHTS. 1, 4, 5, & 6. DELETED SHT 8. ADDED SHTS. 8-10	4/16/10
3	REVISE BERM SECTION ADJACENT TO LEVEE	10/8/09
2	ISSUE CONSTRUCTION DOCUMENTS	9/2/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09



RECORD DRAWING
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE GFI INSPECTOR.

BY: *J. Steven Lichliter* 8-30-10
 J. STEVEN LICHLITER RCE NO. 41637
 EXP. 12/31/11
 CIVIL ENGINEER
 STATE OF CALIFORNIA

PLANS REVIEWED AND APPROVED BY:

K S N
KJELDSSEN SINNOCK NEUDECK
 INC. Consulting Engineers and Land Surveyors
 Post Office Box 844
 711 N. Pershing Avenue
 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Fax: (209) 946-0296
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT DATED: UNDER-SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT AREA VII-F DATED 5/6/09

ENGEO
 INCORPORATED
 EXCELLENT SERVICE SINCE 1971

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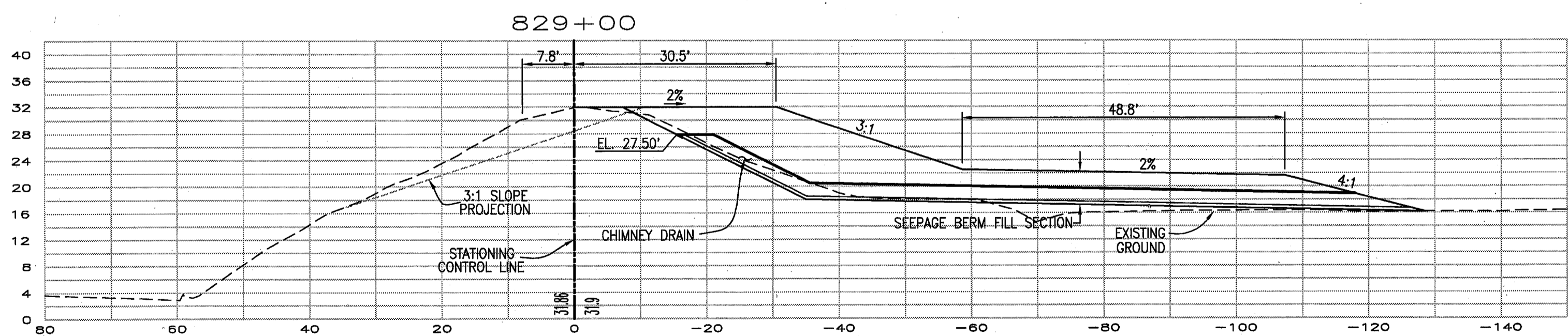
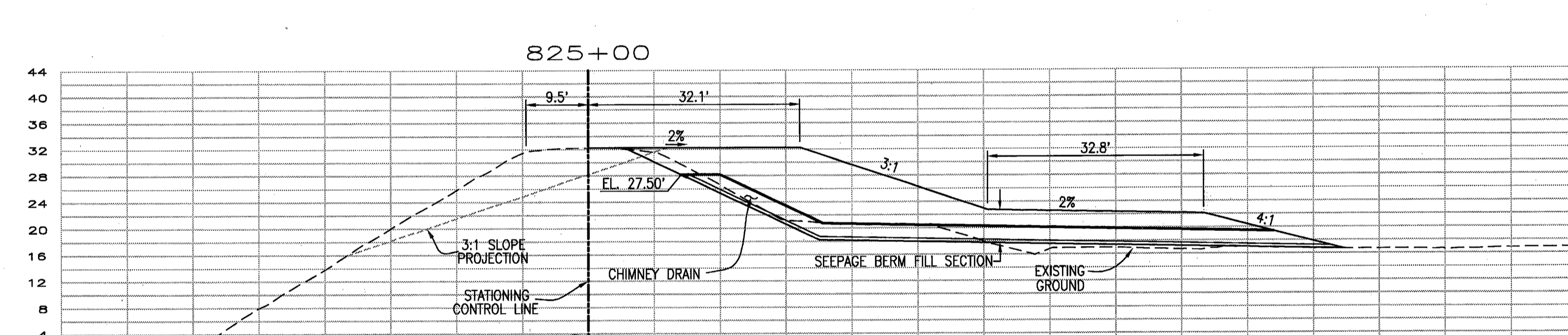
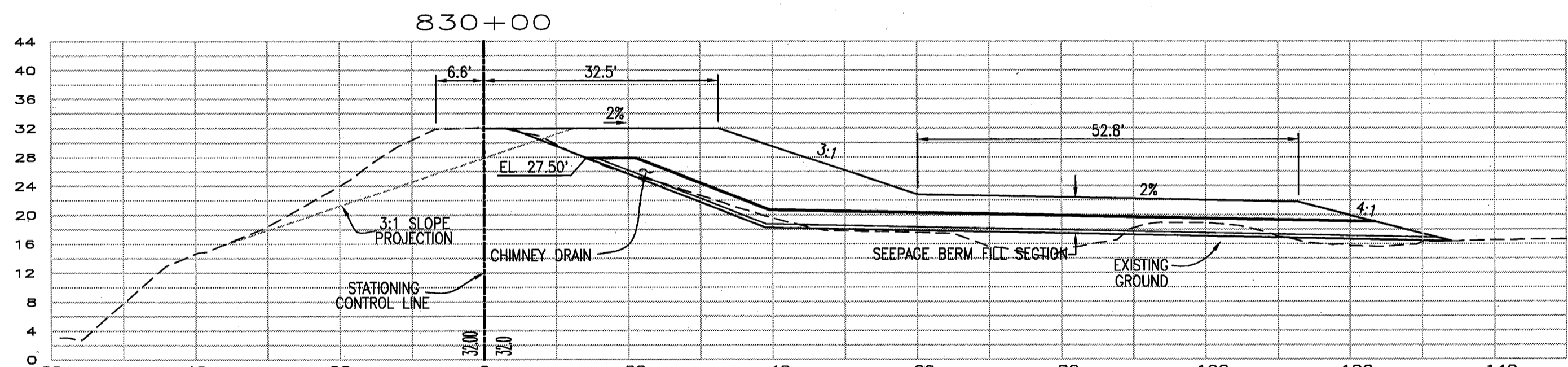
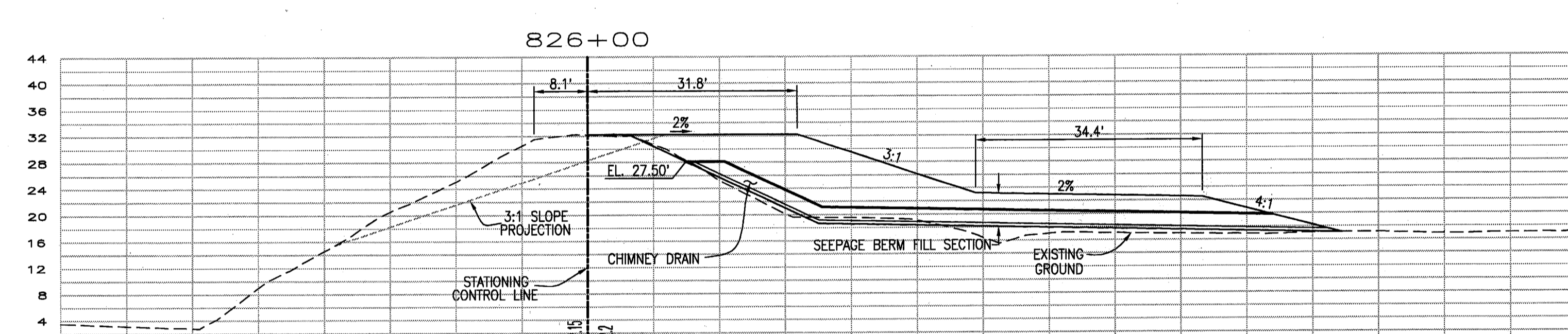
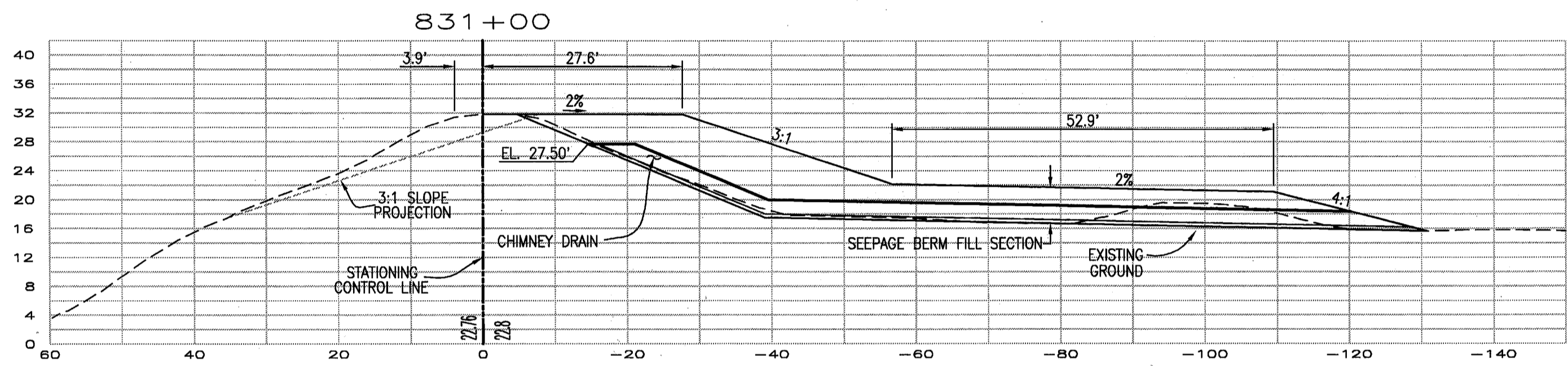
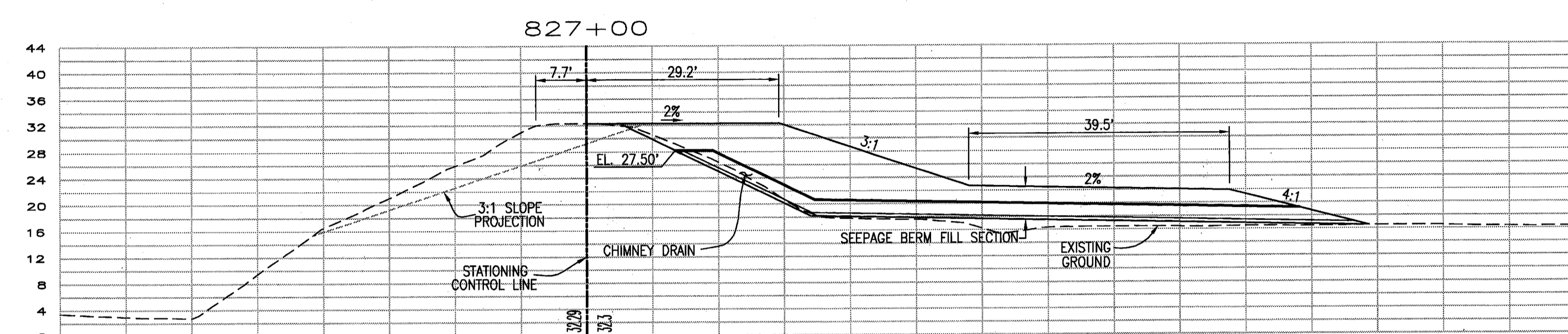
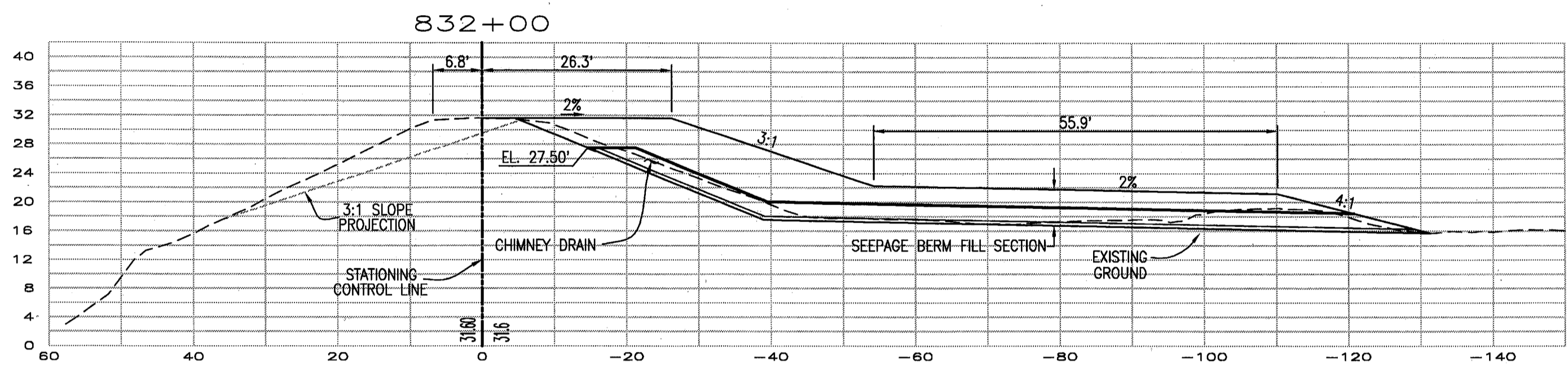
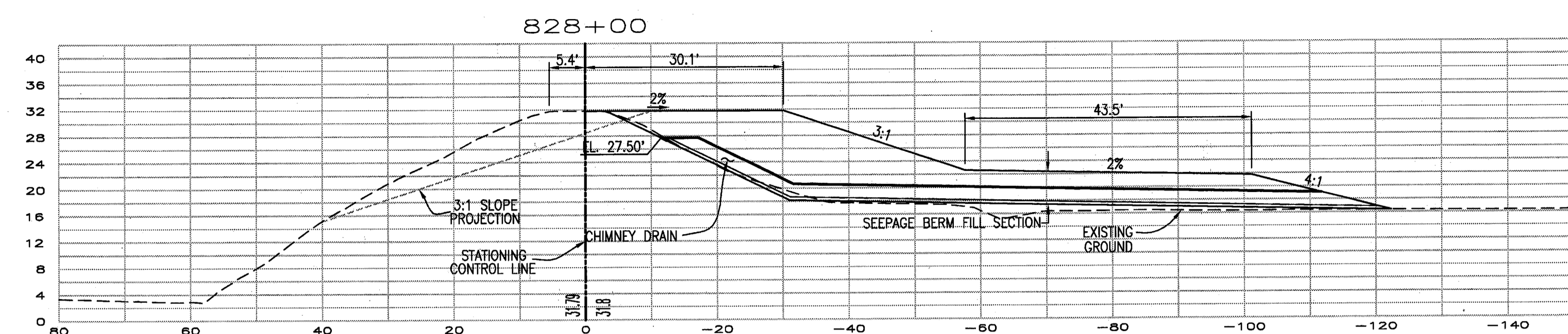
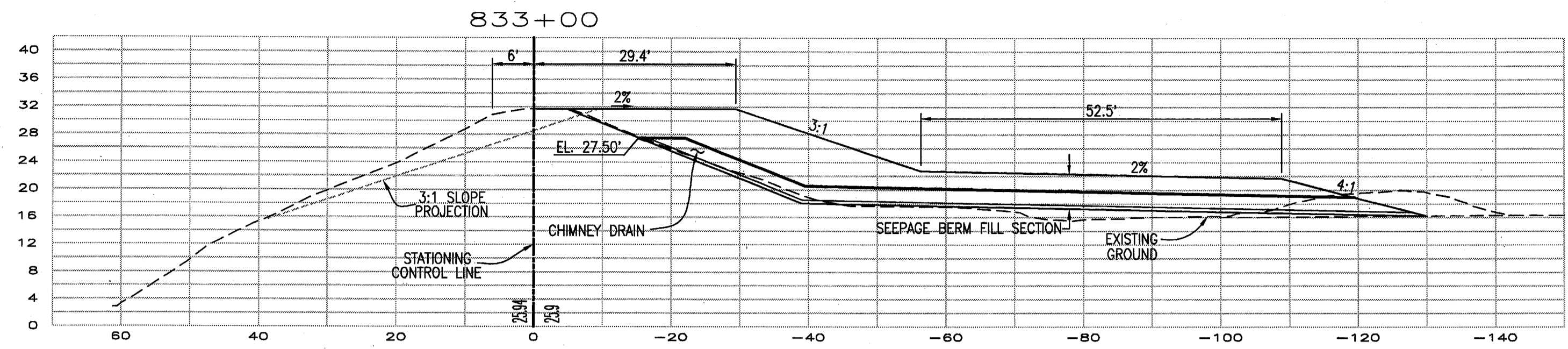
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RECLAMATION DISTRICT NO. 17
ELEMENT VII-F
THRU SEEPAGE SECTIONS
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 SAN JOAQUIN COUNTY CALIFORNIA

4	THRU SEEPAGE: REV. SHTS. 1, 4, 5, & 6. DELETED SHIT 8. ADDED SHTS. 8-10	4/16/10
3	REVISE BERM SECTION ADJACENT TO LEVEE	10/6/09
2	ISSUE CONSTRUCTION DOCUMENTS	9/2/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09
NO.	REVISION	DATE

DATE: JULY 2009
 SCALE: _____
 DRAWN BY: GB
 DESIGNED BY: CWG
 CHECKED BY: JSL

PROJECT NO. 25126.03
 SHEET 9 OF 10



RECORD DRAWING
 THESE ARE THE FINAL CONSTRUCTION PLANS FOR THE PROJECT WITH THE ADDITIONS NOTED FOR FIELD CHANGES BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE DEVELOPER, CONTRACTOR, AND THE CITY INSPECTOR.

BY: *St. Steven Lichliter* 9-30-10
 J. STEVEN LICHLITER RCE NO. 41637
 EXPIRES: DECEMBER 31, 2011

PLANS REVIEWED AND APPROVED BY:
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 Stockton, CA 95201-0844
 Office: (209) 946-0268
 Fax: (209) 946-0298
 E-mail: KSN@ksninc.com

THESE GRADING PLANS CONFORM TO THE GEOTECHNICAL REPORT DATED UNDER SEEPAGE EVALUATION, RD NO. 17 MOSSDALE TRACT AREA VII-F DATED 10/26/09
ENGEO INCORPORATED
 EXCELLENT SERVICE SINCE 1971
 No. 41637
 EXP. 12/31/09

PLANS PREPARED UNDER THE DIRECTION OF:
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 ENGINEERS PLANNERS SURVEYORS
 5142 Franklin Drive, Suite B, Pleasanton, CA 94588 (925) 225-0890
 No. 41637
 EXP. 12/31/09

RECLAMATION DISTRICT NO. 17
 ELEMENT VII-F
 THRU SEEPAGE SECTIONS
 833+00 THRU 825+00
 SAN JOAQUIN COUNTY CALIFORNIA

4	THRU SEEPAGE: REV. SHTS. 1, 4, 5, & 6. DELETED SHIT 8. ADDED SHTS. 8-10	4/15/10
3	REVISE BERM SECTION ADJACENT TO LEVEE	10/9/09
2	ISSUE CONSTRUCTION DOCUMENTS	9/2/09
1	REVISION TO ADDRESS PLAN CHECK COMMENTS	7/20/09
NO.	REVISION	DATE

DATE: JULY 2009
 SCALE:
 DRAWN BY: GB
 DESIGNED BY: CWG
 CHECKED BY: JSL

PROJECT NO. 25126.03
 SHT 10
 OF 10