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Part C 46-6

amec

Transmittal

Sent Via: ☐ **Messenger** ☐ **U.S. Mail** ☒ **FedEx**

Date: October 25, 2013

To: Carmen D. Santos
RCRA Corrective Action Office
Waste Management Division
US EPA Region 9
75 Hawthorne Street, Mail Code WST-4
San Francisco, CA 94105

From: Linda Conlan
AMEC
121 Innovation Drive, Suite 200
Irvine, CA 92617

Project Number: 0106270030

Project Name: Former Pechiney Cast Plate Facility (3200 Fruitland Avenue)

Item	Description
1	Revised Grading Plan (dated 9/10/13)

Remarks

Enclosed please find 1 hard copy of the revised grading plan for the Pechiney site. If you have any questions, please call us at (949) 642-0245.

Sincerely yours,
AMEC

AMEC
Environment & Infrastructure
121 Innovation Drive, Suite 200
Irvine, CA
USA 92617-3094
Tel (949) 642-0245
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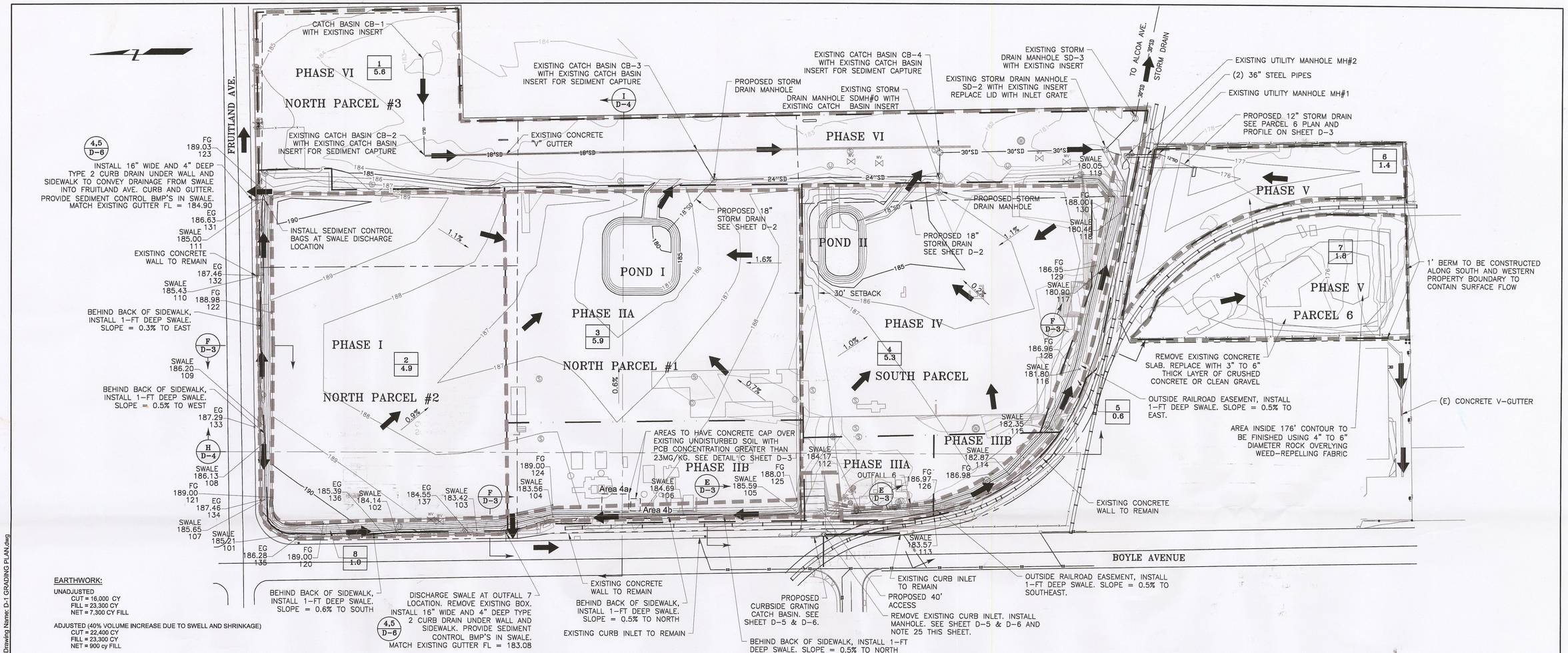

EARTHWORK:

UNADJUSTED
CUT = 16,000 CY
FILL = 23,300 CY
NET = 7,300 CY FILL

ADJUSTED (40% VOLUME INCREASE DUE TO SWELL AND SHRINKAGE)
CUT = 22,400 CY
FILL = 23,300 CY
NET = 900 cy FILL

DRAINAGE SITE PLAN

SCALE: 1" = 80'

POINTS LEGEND

SWALE	DESCRIPTION
185.00	ELEVATION
102	POINT NUMBER

SEE TABLE ON SHEET D-4 FOR NORTHING AND EASTINGS

EG	EXISTING GRADE
FG	FINAL GRADE

BENCHMARK:

VERTICAL DATUM NAVD88

COUNTY OF LOS ANGELES BM #Y10598
2" DISC IN WALK 4.6' N/O CF,
14.8' W/O BCR AT NE COR SLAUSON AVE AND BOYLE AVE (TO THE N) MKD (CITY OF VERNON MON)

2005 ELEV = 168.611 FEET NAVD88

HORIZONTAL DATUM NAD83, ZONE 5

NGS PID STATIONS AJ1840 AND AJ1885 EPOCH DATE 2000.35

EXPLANATION

- PHASE BOUNDARY
- DRAINAGE BASIN BOUNDARY
- PROPOSED PROPERTY BOUNDARY
- DRAINAGE BASIN ID SYMBOL
- AREA OF SUB-BASIN (ACRES)
- DIRECTION OF FLOW
- DETAIL REFERENCE
- (E) EXISTING
- (N) NEW
- MANHOLE DRAINAGE
- MANHOLE SEWER
- MANHOLE UNKNOWN
- MANHOLE WATER
- MANHOLE ELECTRICAL
- WELL
- FIRE HYDRANT
- WATER VALVE
- WATER METER
- POWER POLE
- FG FINISHED GRADE

CAUTION: THIS PLAN MAY BE REDUCED 0 1" 2" ORIGINAL SCALE

NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND AVOIDING ALL PUBLIC AND PRIVATE UTILITIES DURING BACKFILLING AND GRADING OF SOIL AND MATERIALS UNLESS OTHERWISE STATED IN THE PROJECT DOCUMENTS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW GRADING PLAN AND SPECIFICATIONS THOROUGHLY PRIOR TO SITE MOBILIZATION. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE CIVIL ENGINEER IF ONSITE DISCREPANCIES ARE OBSERVED THAT WOULD AFFECT THE EARTHWORK QUANTITIES.
3. THE EXISTING TOPOGRAPHY AS DELINEATED ON THIS DRAWING AND THE LIMITS OF WORK SHOWN ON THE DRAWING SHALL BE UTILIZED AS THE BASIS FOR ALL EARTHWORK COMPUTATIONS. EXCAVATION VOLUMES ARE BASED ON LIMITED SOIL INVESTIGATION SAMPLING. ACTUAL CONDITIONS MAY VARY FROM OBSERVED OR MEASURED CONDITIONS AT THE TIME OF PLAN PREPARATION. EXTENT OF SOIL EXCAVATION AND EXCAVATION VOLUMES ARE APPROXIMATE AND SHALL BE CONFIRMED BY SOIL SAMPLING AT TIME OF EXCAVATION AND SCAQMD RULE 1166 MONITORING. ACTUAL EARTHWORK QUANTITIES MAY VARY AS A RESULT.
4. ALL SOIL SHALL BE MONITORED DURING BACKFILLING AND GRADING OPERATIONS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) BY THE CONTRACTOR IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, STANDARDS, AND CODES INCLUDING SCAQMD RULE 1166, OSHA AND CALOSHA.
5. CONTRACTOR SHALL RESTORE ALL EXCAVATED AREAS PURSUANT TO THE REQUIREMENTS OF SECTION 02351 AND AS SHOWN ON THE DRAWINGS.
6. CONTRACTOR SHALL PREVENT SOIL, CONCRETE, DEBRIS, AND OTHER CONSTRUCTION MATERIALS FROM ENTERING STORM DRAINS AND SEWER SYSTEMS.
7. CONTRACTOR SHALL PREVENT SITE SOIL AND DEBRIS FROM BEING TRACKED ONTO CITY-RIGHT-OF-WAYS. ANY TRACKED SOIL OR DEBRIS SHALL BE ADDRESSED PURSUANT TO THE REQUIREMENTS OF SECTION 02120.
8. FINAL GRADES SHALL CONTROL AND CONVEY RAINFALL RUNOFF TO EXISTING POINTS OF STORMWATER COLLECTION AS SHOWN ON THE DRAWING. RAINFALL RUNOFF SHALL NOT FLOW OFF-SITE IN AN UNCONTROLLED MANNER.
9. CONTRACTOR SHALL IMPLEMENT THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) DATED JANUARY 2013, AND SUBSEQUENT REVISIONS, IN ACCORDANCE WITH THE CALIFORNIA STORMWATER BEST MANAGEMENT PRACTICES (BMP) HANDBOOK (JANUARY, 2003) AND THE REQUIREMENTS OF SECTION 01502.
10. CONTRACTOR SHALL PLACE A MINIMUM THICKNESS OF 3 TO 6 INCHES OF CRUSHED RECYCLED AGGREGATE MATERIALS GENERATED FROM ONSITE CRUSHING OF UNRESTRICTED USE CONCRETE. AS DEFINED IN THE JUNE 28, 2012 REMEDIAL ACTION PLAN, AS THE UPPERMOST LAYER IN ALL BACKFILL AND GRADING AREAS TO REDUCE POTENTIAL SOIL EROSION.
11. BACKFILL MATERIALS, PLACEMENT, AND COMPACTION SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02351 WITH A MINIMUM 90% RELATIVE COMPACTION.
12. INSPECTION OF EARTHWORK AND SOILS TESTING SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02351.
13. CONTRACTOR SHALL STOCKPILE AND SEGREGATE CONCRETE AND ASPHALT DEBRIS IN SEPARATE PILES. CRUSHED RECYCLED AGGREGATES COMPRISED OF CONCRETE WITH PCB CONCENTRATIONS LESS THAN 1 mg/kg MAY BE USED AS UNRESTRICTED USE FILL AT ANY DEPTH. ASPHALT DEBRIS CANNOT BE USED AS FILL AND MUST BE RECYCLED OR DISPOSED OFF-SITE.
14. CONCRETE CAP SHOWN IN DETAILS (SHEETS D-3 AND D-4) SHALL BE PLACED OVER REMAINING PORTIONS OF SUBSURFACE STRUCTURES THAT EXTEND DEEPER THAN 10-FEET BELOW GRADE, AS SPECIFIED IN SECTION 02050 AND SHOWN IN THE DRAWINGS, AND AS IDENTIFIED DURING THE PERFORMANCE OF DEMOLITION WORK.
15. SITE TOPOGRAPHY AS DELINEATED BASED ON SURVEY BY DULIN AND BOYNTON SURVEYORS, INC. DATED OCTOBER 12, 2011, UPDATED NOV. 17, 2011, AND JULY 22, 2013. BENCHMARK INFORMATION IS AS FOLLOWS: VERTICAL DATUM NAVD88, COUNTY OF LOS ANGELES BM #Y10598, 2" DISC IN WALK 4.6' N/O CF, 14.8' W/O BCR AT NE COR SLAUSON AVE AND BOYLE AVE (TO THE N) MKD (CITY OF VERNON MON), 2005 ELEV= 168.611 FEET NAVD88, HORIZONTAL DATUM NAD83, ZONE 5, NGS PID STATIONS AJ1840 AND AJ1885 EPOCH DATE 2000.35.
16. FORMER BUILDING 114 CONCRETE STRUCTURES ABANDONED IN PLACE BY ALCOA. ELEVATIONS TO TOP OF STRUCTURES ARE APPROXIMATE. STRUCTURES CAPPED WITH 8 TO 10 INCHES OF CONCRETE. DETAILS AVAILABLE IN "ALUMINUM COMPANY OF AMERICA (ALCOA) DIVESTITURE OF THE ALCOA CAST PLATE FACILITY, PARCELS 6, 7, AND 8, VERNON, CALIFORNIA, ENVIRONMENTAL ACTIVITIES VOLUME 2 OF 2, A.J. URSIC, JR., JULY 26, 1999", REFER TO FIGURE 3 OF THE JUNE 28, 2012 REMEDIAL ACTION PLAN FOR LOCATIONS.
17. FORMER BUILDING 12 CONCRETE STRUCTURE ABANDONED IN PLACE BY ALCOA. ELEVATION TO TOP OF CONCRETE CRANE PAD STRUCTURE IS APPROXIMATE. DETAILS AVAILABLE IN "ALUMINUM COMPANY OF AMERICA FORGE DEMOLITION/REMEDIATION, VERNON FACILITY, VERNON, CALIFORNIA, FINAL CLOSURE OF FORGE FACILITY ZONES 1-4, A. J. URSIC, JR., JANUARY 29, 1999", REFER TO THE JUNE 28, 2012 REMEDIAL ACTION PLAN FOR LOCATIONS.
18. DURING ROUGH GRADING, CONTRACTOR SHALL INSTITUTE GRADE CONTROLS TO AVOID MIXING SOILS CONTAINING PCBs AT CONCENTRATIONS GREATER THAN 3.5 mg/kg WITH SHALLOW SOIL OR BACKFILL MATERIALS PRESENT AT DEPTHS SHALLOWER THAN 5 FEET BGS.
19. FUTURE REDEVELOPMENT GRADING SHALL COMPLY WITH POST-REMEDIAL SOIL MANAGEMENT PLAN, TO BE PREPARED AFTER COMPLETION OF THE SOIL REMOVAL WORK, AS DESCRIBED IN THE REMEDIAL ACTION PLAN.
20. IF NOT PRE-EXISTING OR IF EXISTING IS IN DISFUNCTIONAL CONDITION, INSTALL NEW CATCH BASIN INSERTS APPROVED BY THE CITY OF VERNON TO PREVENT FROM SEDIMENT, CATCH BASIN INSERTS SHALL BE 2'X 2' (OR APPROPRIATE SIZE) DROP INLET STYLE WITH CENTER OVERFLOW, MANUFACTURED BY DRAINPAC, DISTRIBUTED BY UNITED STORMWATER (877) 717-8676. CONTRACTOR SHALL VERIFY DIMENSION OF EACH INDIVIDUAL CATCH BASIN AND INSTALL CORRESPONDING INSERT TO FIT CATCH BASIN DIMENSIONS.
21. NEW PIPE PENETRATIONS INTO EXISTING STRUCTURES SHALL BE CORE DRILLED. MOST PIPE PENETRATIONS ON EXISTING AND NEW STRUCTURES SHALL BE CONNECTED WITH BEVELED REBAR, MORTAR (NON-SHRINK GROUT) AND A CONCRETE COLLAR. PENETRATIONS INTO THE UTILITY MANHOLES SHALL BE SEALED WITH LINK SEAL IN ACCORDANCE WITH THE MANUFACTURE'S RECOMMENDATIONS.
22. WHEN INSTALLING THE PARCEL 6 STORM DRAIN, CONTRACTOR SHALL ENSURE ELECTRICAL CONDUITS ARE DE-ENERGIZED PRIOR TO CONSTRUCTION OR DISTURBANCE OF THE EXISTING 36" CONDUITS AND ASSOCIATED MANHOLES.
23. RESTRICTED FILL, AS DEFINED BY THE JUNE 28, 2012 REMEDIAL ACTION PLAN, SHALL NOT BE USED AS BACKFILL ON-SITE AS DESCRIBED BY THE JANUARY 31, 2011 BELOW GRADE DEMOLITION PLAN.
24. PROPERTY LINE ALONG BOYLE AVENUE HAS BEEN ADJUSTED BASED ON PROPOSED PURCHASE OF PROPERTY FROM UNION PACIFIC RAILROAD.
25. THE CATCH BASIN LOCATED IN THE PROPOSED ACCESS IS OWNED BY THE COUNTY OF LOS ANGELES FLOOD CONTROL DISTRICT. A PERMIT MUST BE OBTAINED FROM THE DISTRICT PRIOR TO DISTURBANCE OF THE EXISTING STRUCTURE AND INSTALLATION OF THE PROPOSED CATCH BASIN.

REFERENCES:
PLANS
DATUM

NO.	REVISION	DATE	APRVD
1	ISSUED FOR PERMITTING	6/6/12	
2-4	REVISED 6/18, 7/19, 8/9 CITY COMMENTS	8/15/12	
5	REVISED 8/16/12 - ISSUED FOR CONSTRUCTION	8/20/12	
6-8	NEW LAYOUT - ISS FOR PERMITTING 8/5, REVISED CITY CMTS 8/19, 9/10	9/10/13	
9	ISSUED FOR CONSTRUCTION	9/10/13	

DRAWN CAS
DESIGNED KAF
CHECKED DLS
REVIEWED CHH

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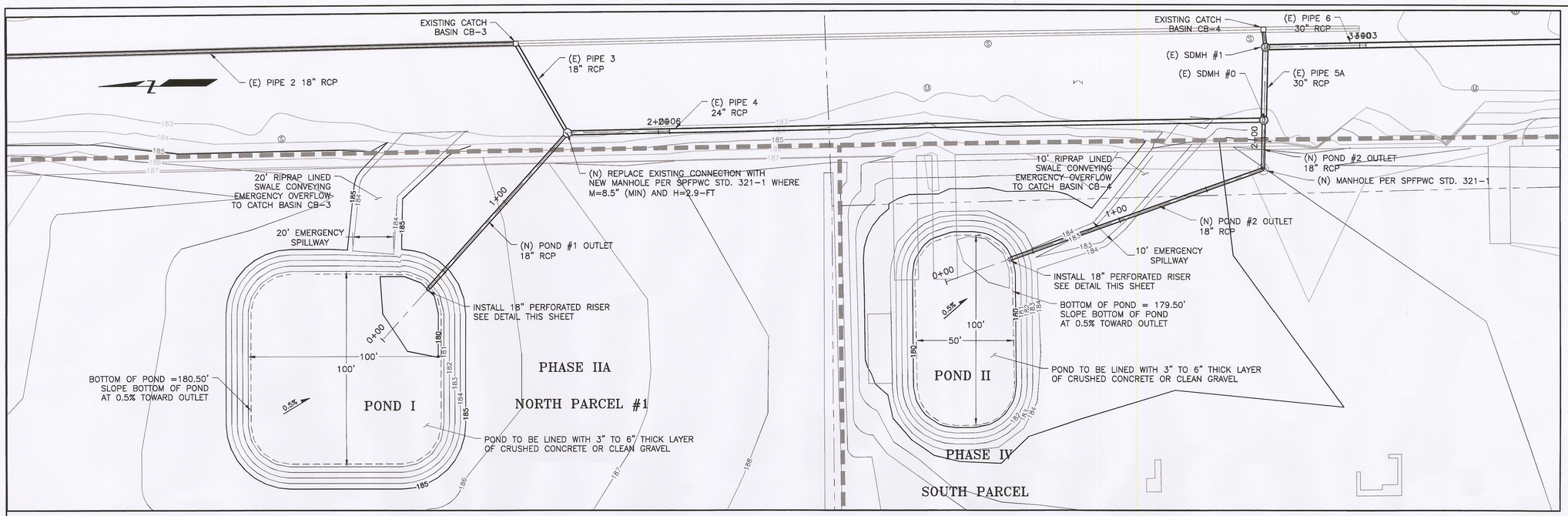
121 Innovation Drive, Suite 200
Irvine, California 92617
(949) 642-0245

BELOW GRADE DEMOLITION & SOIL EXCAVATION
PECHINEY CAST PLATE, INC., FACILITY
3200 FRUITLAND, VERNON, CALIFORNIA

GRADING PLAN

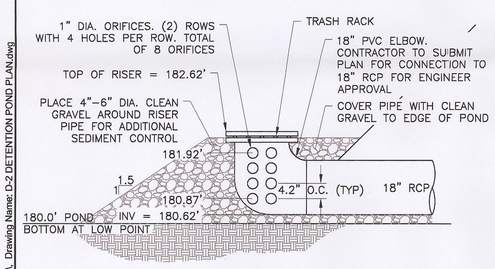
DATE: 09/10/13
SCALE: 1" = 80'
SHEET: 1 OF 6 SHEETS
PROJ No: 10627.003
D-1

Plot Date: 10/22/13 - 2:37pm, Plotted by: pat.herring
Drawing Path: Y:\10627.003\Deliver\Reports-2013\Final Grading Plan-2013\Issued for Construction_2013-10-11\sheet01, Drawing Name: D-1 GRADING PLAN.dwg

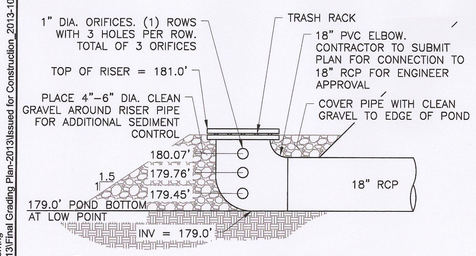


DETENTION POND PLAN VIEW
SCALE: 1" = 30'

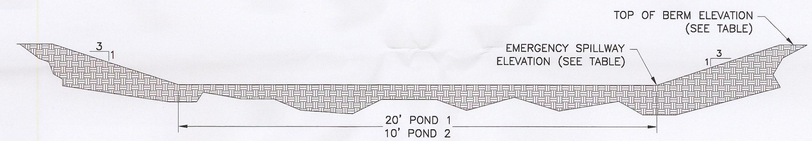
	POND BOTTOM – DESIGN ELEVATION (FT)	POND BOTTOM ELEVATION AT LOW POINT (FT)	PIPE INVERT ELEV. (FT)	RISER WEIR ELEVATION (FT)	10-YEAR HIGH WATER LEVEL (FT)	EMERGENCY SPILLWAY ELEVATION (FT)	TOP OF BERM (FT)
POND 1	180.50	180.00	180.62	182.62	183.77	184.00	185.00
POND 2	179.50	179.00	179.00	181.00	181.92	183.00	184.00



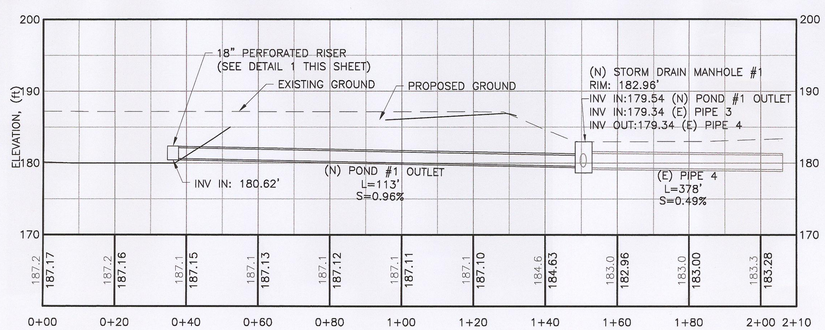
1 DETENTION POND 1 OUTLET RISER DETAIL
NTS



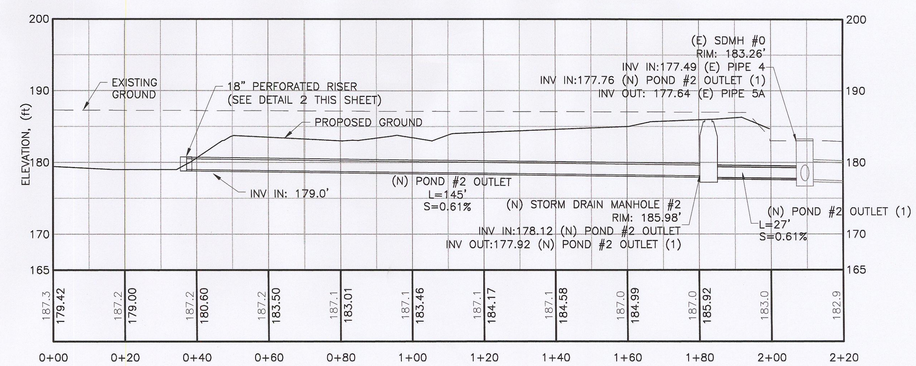
2 DETENTION POND 2 OUTLET RISER DETAIL
NTS



A EMERGENCY SPILLWAY
SCALE: 1" = 3'



DETENTION POND 1 OUTLET PROFILE VIEW
HORIZONTAL SCALE: 1" = 20'
VERTICAL EXAGGERATION: 2X



DETENTION POND 2 OUTLET PROFILE VIEW
HORIZONTAL SCALE: 1" = 20'
VERTICAL EXAGGERATION: 2X

NOTES:
1. ALL NEW PIPE PENETRATIONS TO BE CONNECTED TO STRUCTURE WITH BEVELED REBAR, MORTAR (NON-SHRINK GROUT), AND A CONCRETE COLLAR.
2. SUPPORT PIPE OUTSIDE OF STRUCTURE WITH BACKFILL 265-C-14 MIX CONCRETE AS SHOWN IN SPFPWC JUNCTION STRUCTURE DETAIL STD. 333-1, SECTION Z-Z.
3. RIPRAP SHALL CONFORM TO FACING CLASS RIPRAP PER GREENBOOK SPECIFICATION 200-1.6.2.

CAUTION: THIS PLAN MAY BE REDUCED 0 1" 2" ORIGINAL SCALE

REFERENCES:
PLANS
DATUM

NO.	REVISION	DATE	APRVD
1	ISSUED FOR PERMITTING	6/6/12	
2-4	REVISED 6/18, 7/19, 8/9 CITY COMMENTS	8/15/12	
5	REVISED 8/16/12 – ISSUED FOR CONSTRUCTION	8/20/12	
6-8	NEW LAYOUT – ISS FOR PERMITTING 8/5, REVISED CITY CMTS 8/19, 9/10	9/10/13	
9	ISSUED FOR CONSTRUCTION	9/10/13	

DRAWN CAS
DESIGNED KAF
CHECKED DLS
REVIEWED CHH

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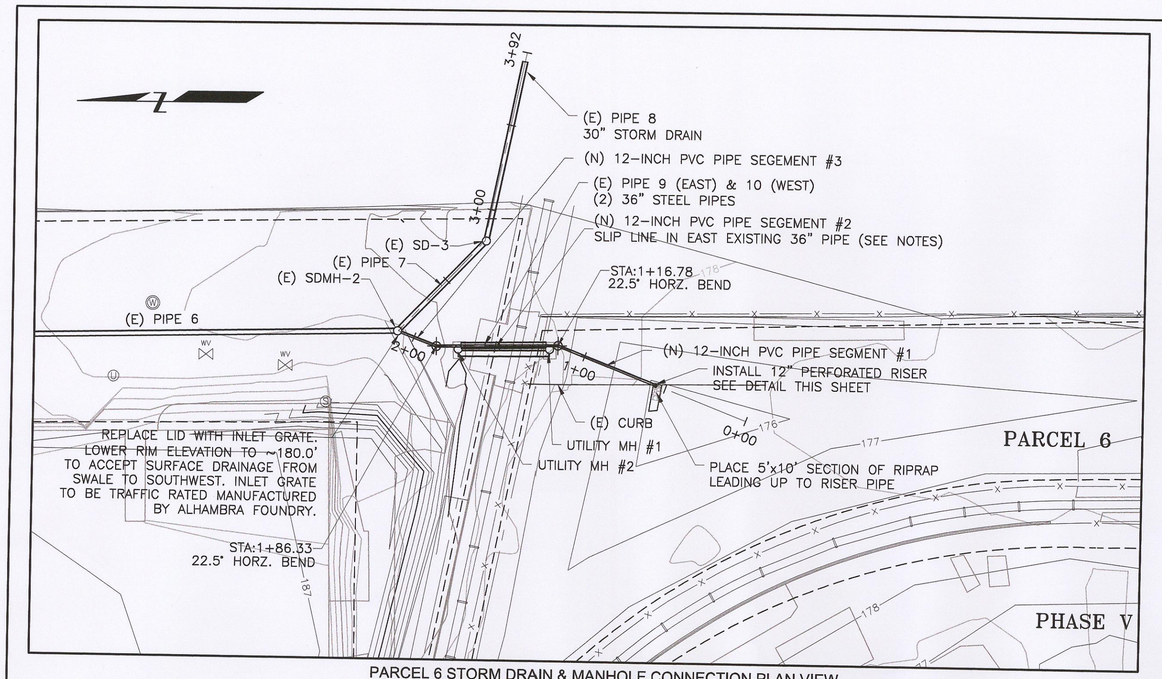
Irvine, California 92617
(949) 642-0245

BELOW GRADE DEMOLITION & SOIL EXCAVATION
PECHINEY CAST PLATE, INC., FACILITY
3200 FRUITLAND, VERNON, CALIFORNIA

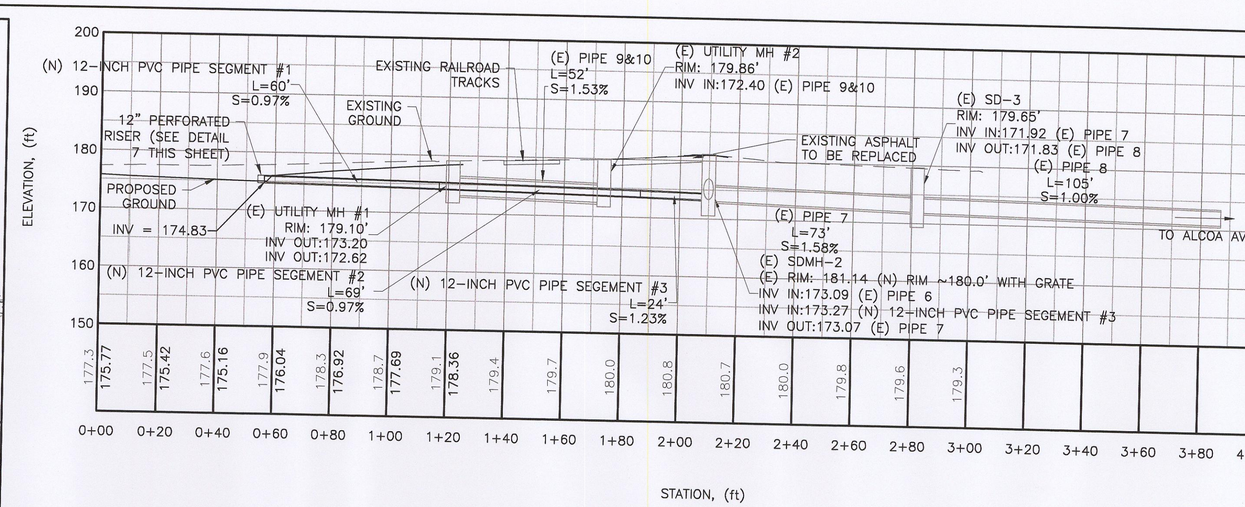
DETENTION POND PLAN

DATE: 09/10/13
SCALE: AS SHOWN
SHEET: 2 OF 6 SHEETS
PROJ No: 10627.003
D-2

Plot Date: 10/23/13 - 3:36pm, Plotted by: pat.herring
Drawing Path: Y:\10627.003.0\cad\Reports-2013\Final Grading Plan-2013\Issued for Construction_2013-10-11\sheets\, Drawing Name: D-2 DETENTION POND PLAN.dwg



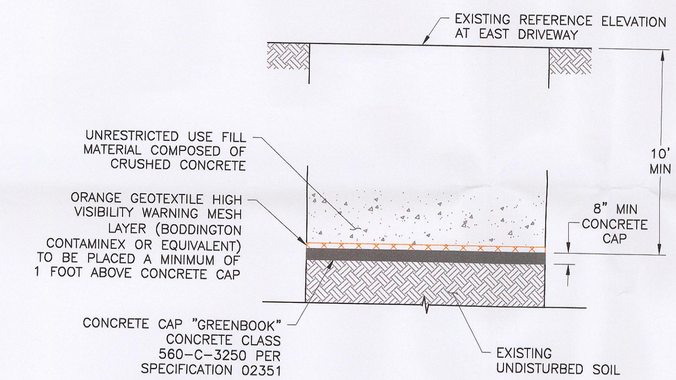
PARCEL 6 STORM DRAIN & MANHOLE CONNECTION PLAN VIEW
SCALE: 1"=50'



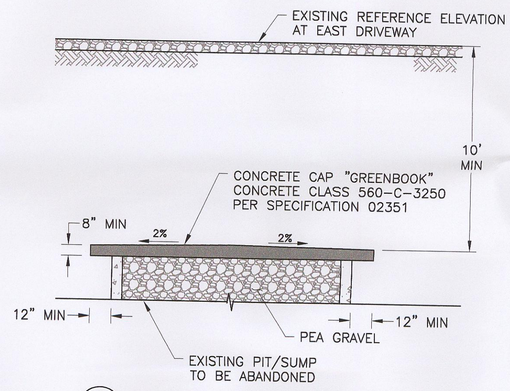
PARCEL 6 STORM DRAIN & MANHOLE CONNECTION PROFILE VIEW
SCALE: 1"=30' VERTICAL EXAGGERATION: 2x

NOTES:

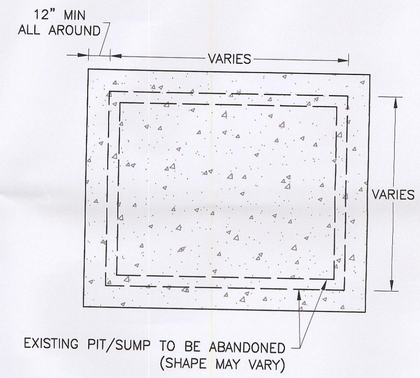
1. NEW PIPE PENETRATION
MORTAR (NON-SHRINK
UTILITY MH#1 AND UTI
WITH THE MANUFACTUR
2. SUPPORT PIPE OUTSIDE
SHOWN IN SPFPWC JU
3. RIPRAP SHALL CONFOR
200-1.6.2.
4. NEW 12" PIPE TO BE
MANHOLES.
5. NEW 12" PIPE THAT IS
SUPPORTS CCI MODEL
EQUIVALENT) WITH SPAC
MANUFACTURER'S RECO
BOTTOM OF 36" PIPE T



C / - TYPICAL CONCRETE CAP SECTION OVER EXISTING UNDISTURBED SOIL WITH PCB CONCENTRATIONS GREATER THAN 23 mg/kg AT SOIL EXCAVATION AREAS 4a AND 4b
NOT TO SCALE

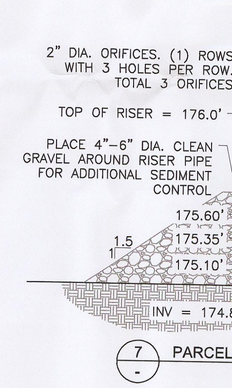


D / - TYPICAL CONCRETE CAP SECTION

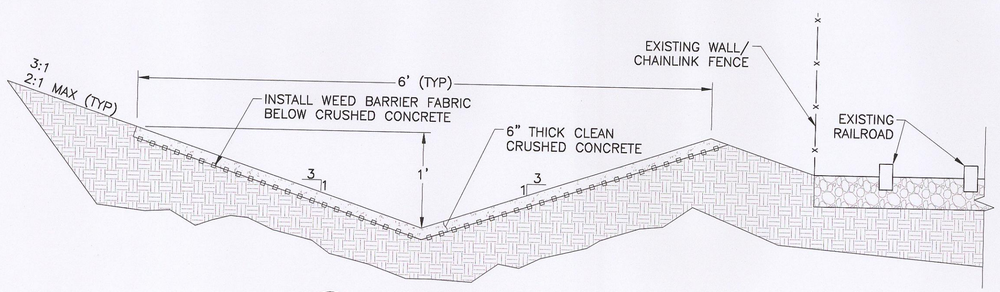


TYPICAL CONCRETE CAP PLAN

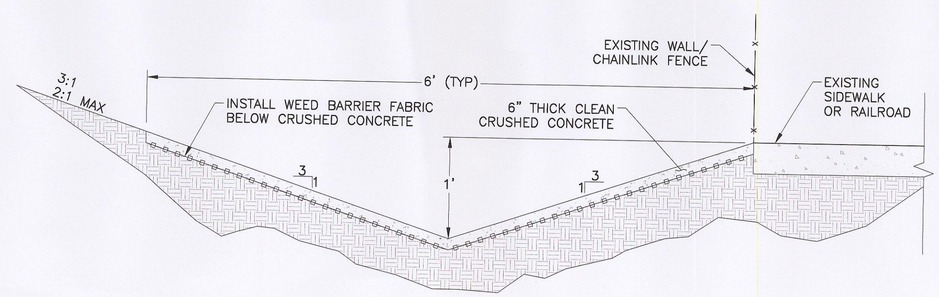
G / - TYPICAL CONCRETE CAP OVER FORMER BURIED STRUCTURES DETAIL
NOT TO SCALE



7 / - PARCEL



E / D-1 DIVERSION CHANNEL SECTION
NTS



F / D-1 PERIMETER SWALE SECTION
NTS

CAUTION: THIS PLAN MAY BE REDUCED 0 1" 2" ORIGINAL SCALE

REFERENCES:
PLANS
DATUM

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9	ISSUED FOR CONSTRUCTION	9/10/13	

DRAWN CAS
DESIGNED KAF
CHECKED DLS
REVIEWED CHH

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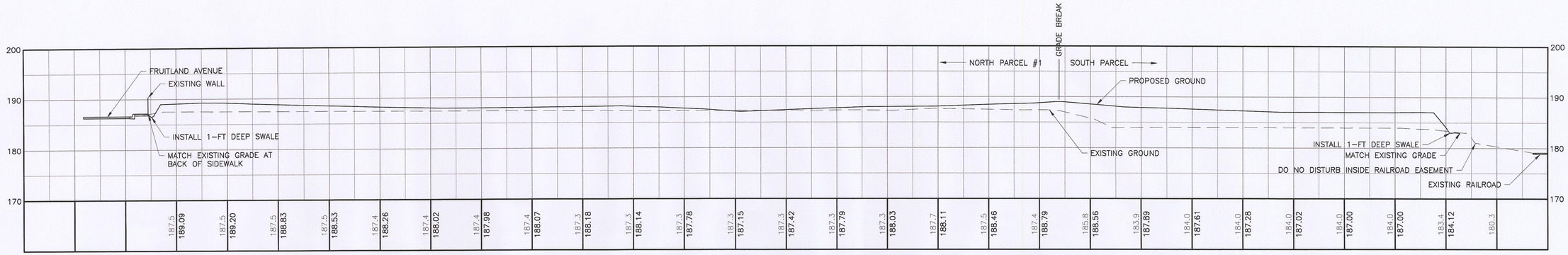
(949) 642-0245

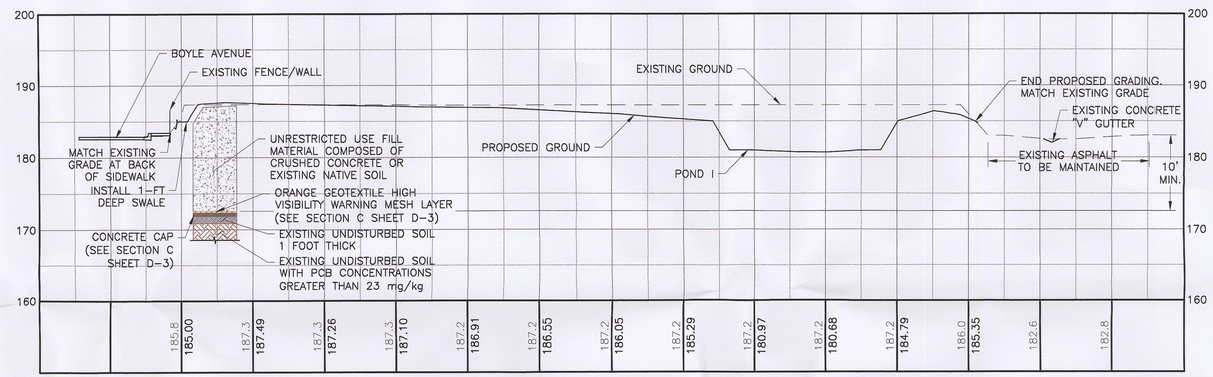
BELOW GRADE DEMOLITION & S
PECHINEY CAST PLATE, INC
3200 FRUITLAND, VERNON,

CROSS SECTIONS AND
SHEET 1 OF

Plot Date: 10/23/13 - 3:38pm, Plotted by: pat.herring
Drawing Path: Y:\10627.003.Oracad\Reports-2013\Final Grading Plan-2013\Issued for Construction_2013-10-11\sheets\, Drawing Name: D-3 CROSS SECTIONS AND DETAILS SHEET 1 OF 2.dwg



H / D-1 TYPICAL CROSS SECTION (NORTH TO SOUTH)
SCALE: 1" = 50' VERTICAL EXAGGERATION: 5x



I / D-1 TYPICAL CROSS SECTION (WEST TO EAST)
SCALE: 1" = 50' VERTICAL EXAGGERATION: 5x

Point Table

Point #	Elevation	Northing	Easting	Description
101	185.21	1,821,094.10	6,497,162.05	SWALE
109	186.20	1,821,150.55	6,497,342.81	SWALE
102	184.14	1,820,930.67	6,497,166.68	SWALE
103	183.42	1,820,794.67	6,497,169.15	SWALE
104	183.56	1,820,666.78	6,497,189.76	SWALE
105	185.59	1,820,259.10	6,497,198.50	SWALE
106	184.69	1,820,448.11	6,497,194.53	SWALE
107	185.65	1,821,150.34	6,497,219.85	SWALE
108	186.13	1,821,150.82	6,497,315.76	SWALE
110	185.43	1,821,153.20	6,497,596.24	SWALE
111	185.00	1,821,152.70	6,497,721.90	SWALE
112	184.17	1,820,152.28	6,497,202.40	SWALE
113	183.57	1,820,030.99	6,497,210.78	SWALE
114	182.87	1,819,904.18	6,497,266.91	SWALE
115	182.35	1,819,833.05	6,497,341.73	SWALE
116	181.80	1,819,787.08	6,497,442.11	SWALE
117	180.90	1,819,743.11	6,497,615.77	SWALE
118	180.46	1,819,721.15	6,497,702.58	SWALE
119	180.05	1,819,733.92	6,497,793.66	SWALE
120	189.00	1,821,052.57	6,497,179.72	FG
121	189.00	1,821,137.58	6,497,223.73	FG
122	188.98	1,821,138.69	6,497,531.90	FG
123	189.03	1,821,138.31	6,497,722.87	FG
124	189.00	1,820,668.35	6,497,211.86	FG
125	188.01	1,820,260.59	6,497,223.32	FG
126	186.97	1,820,032.61	6,497,219.95	FG
127	186.98	1,819,931.51	6,497,268.02	FG
128	186.96	1,819,804.47	6,497,448.04	FG
129	186.95	1,819,760.80	6,497,615.52	FG
130	188.00	1,819,743.25	6,497,707.22	FG

CAUTION: THIS PLAN MAY BE REDUCED 0 1" 2" ORIGINAL SCALE

REFERENCES:
PLANS
DATUM

NO.	REVISION	DATE	APRVD
1	ISSUED FOR PERMITTING	6/6/12	
2-4	REVISED 6/18, 7/19, 8/9 CITY COMMENTS	8/15/12	
5	REVISED 8/16/12 – ISSUED FOR CONSTRUCTION	8/20/12	
6-8	NEW LAYOUT – ISS FOR PERMITTING 8/5, REVISED CITY CMTS 8/19, 9/10	9/10/13	
9	ISSUED FOR CONSTRUCTION	9/10/13	

DRAWN CAS
DESIGNED KAF
CHECKED DLS
REVIEWED CHH

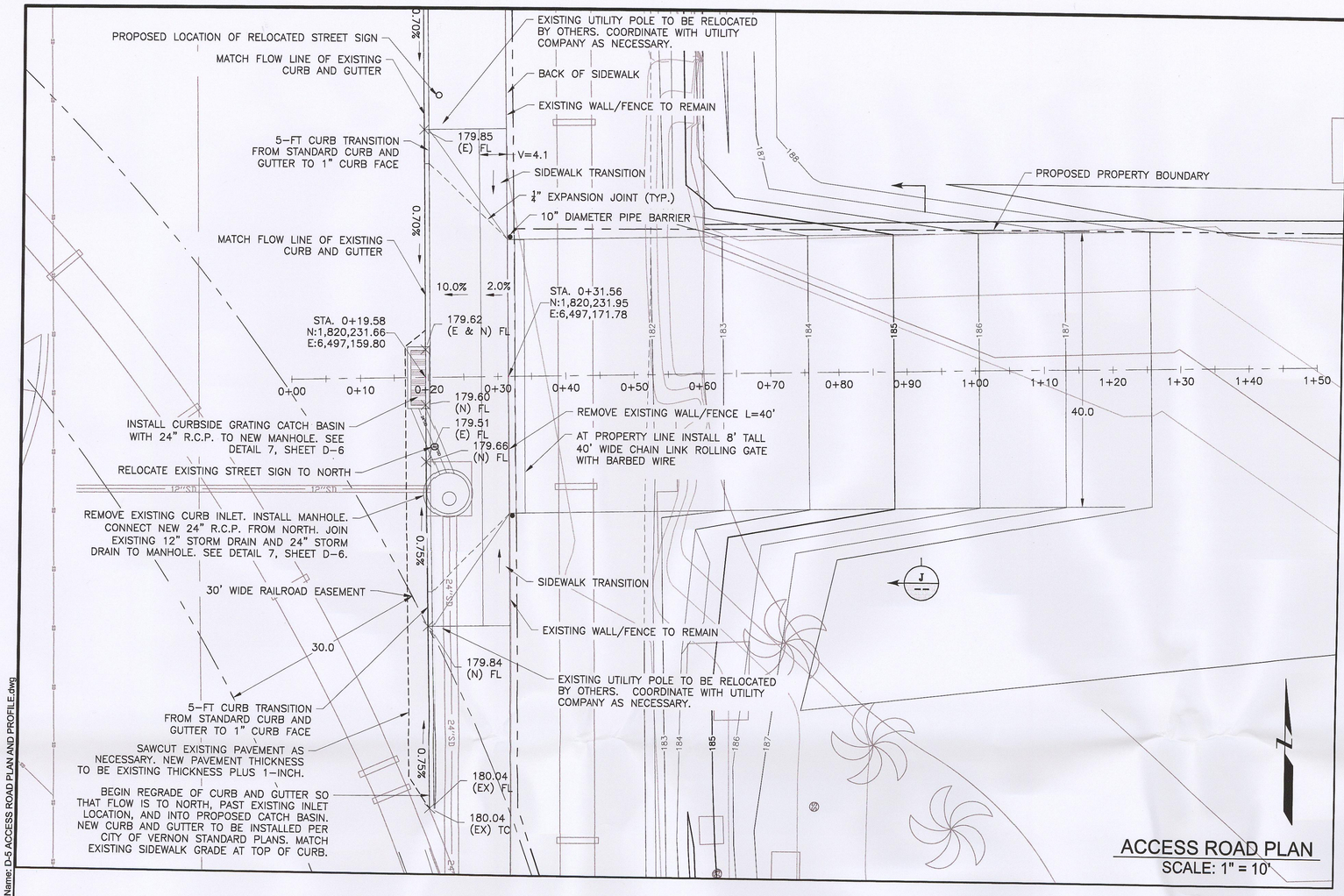
amec
121 Innovation Drive, Suite 200
Irvine, California 92617
(949) 642-0245

BELOW GRADE DEMOLITION & SOIL EXCAVATION
PECHINEY CAST PLATE, INC., FACILITY
3200 FRUITLAND, VERNON, CALIFORNIA

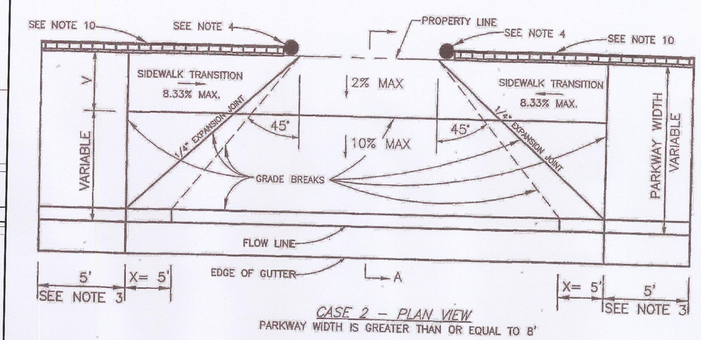
CROSS SECTIONS AND DETAILS
SHEET 2 OF 2

DATE: 09/10/13
SCALE: 1" = 50'
SHEET: 4 OF 6 SHEETS
PROJ No: 10627.003
D-4

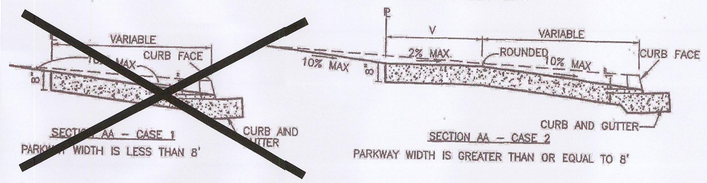
Plot Date: 10/23/13 - 3:28pm, Plotted by: pat.herring
Drawing Path: Y:\10627.003.0\acad\Reports-2013\Final Grading Plan-2013\Issued for Construction_2013-10-11\sheets\, Drawing Name: D-4 CROSS SECTIONS AND DETAILS SHEET 2 OF 2.dwg



ACCESS ROAD PLAN
SCALE: 1" = 10'



CASE 2 – PLAN VIEW
PARKWAY WIDTH IS GREATER THAN OR EQUAL TO 8'



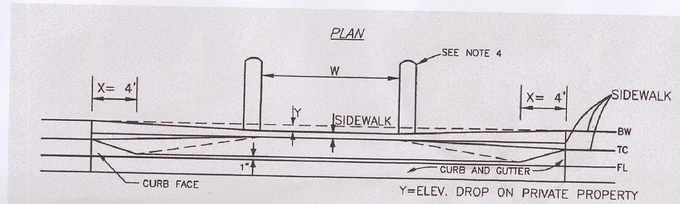
SECTION AA – CASE 1
PARKWAY WIDTH IS LESS THAN 8'

SECTION AA – CASE 2
PARKWAY WIDTH IS GREATER THAN OR EQUAL TO 8'

REVISIONS		
DATE	DESCRIPTION	INITIALS
10/9/13	ISSUED	LM
10/16	ISSUED FOR APPROVAL SIGNOFF	BS
4/08	ISSUED CITY SIGNOFF	PC

STANDARD DRIVEWAY
CITY OF VERNON, CALIFORNIA
COMMUNITY SERVICES & WATER DEPARTMENT
AUGUST 2007

STANDARD PLAN
PV 693
PAGE 1 OF 2



CASE 2 – ELEVATION

NOTES:

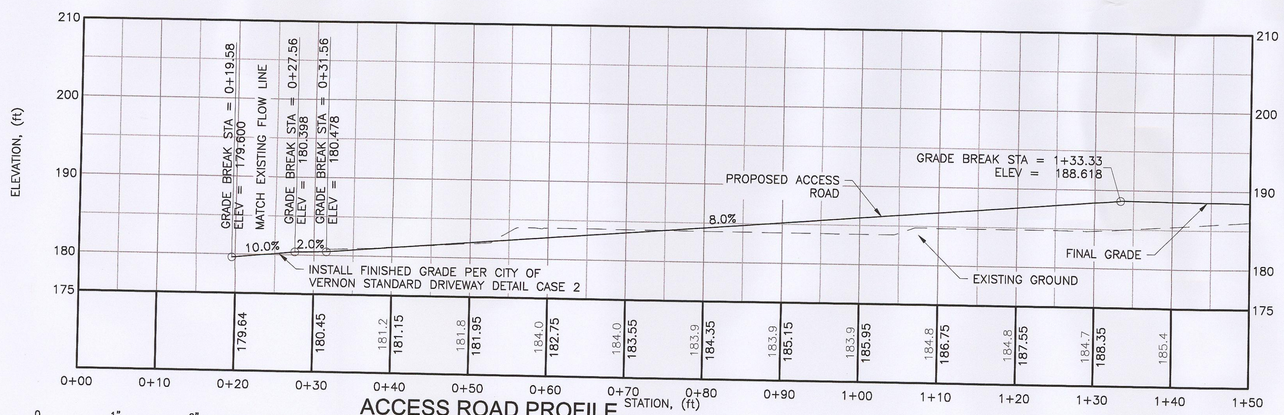
1. USE CLASS 520-C-2500 CEMENT CONCRETE.
2. DRIVEWAY APRON SHALL BE POURED MONOLITHICALLY WITH CURB AND GUTTER AND 6" OF C.M.B. SHALL BE PLACED UNDER THE CURB AND GUTTER PORTION OF THE DRIVEWAY.
3. ADJACENT SIDEWALKS 5' ON EITHER END OF DRIVEWAY SHALL BE POURED 8" THICK.
4. 10" DIA. PIPE BARRIER MIN. SCHEDULE 30 PER CITY STD. V2122 SHALL BE INSTALLED AS NEEDED TO PROTECT IMPROVEMENTS.
5. ALL CONCRETE SHALL BE ONE COURSE, STEEL TROWEL & MEDIUM HAIR BROOM FINISH. NO TOPPING PERMITTED.
6. DRIVEWAYS MAY BE OPENED TO TRAFFIC:
   A. IN 48 HOURS WITH HIGH STRENGTH CEMENT
   B. IN 5 DAYS WITH STANDARD CLASS 520-C-2500 MIX.
7. ENDS OF DRIVEWAYS TO BE NOT LESS THAN 5' FROM NEAREST FIRE HYDRANT, METER BOX OR VALVE AND 12' FROM UTILITY POLE.
8. 1/4" EXPANSION JOINT FELT SHALL BE PLACED ALONG THE TX.
9. DRIVEWAY ENTRANCE WIDTH (W) SHALL BE:
   A. 25' MIN FOR NON-TRUCK USE.
   B. 40' MIN FOR TRUCK USE.
10. 30" CONCRETE WALL PER CITY STD. V2122 OR 6' HIGH WROUGHT IRON FENCE OR 4' WIDE LANDSCAPE STRIP AS APPROVED BY THE CITY ENGINEER.

PARKWAY WIDTH		Y	
		6" CURB	8" CURB
V=0'	5'	0.20"	2.20"
	6'	0.00"	1.24"
	7'	0.00"	0.28"
V=3'	8'	0.20"	2.20"
	9'	0.00"	1.24"
V=4'	10'	0.00"	1.24"
	11'	0.00"	0.28"
	12'	0.00"	0.00"

REVISIONS		
DATE	DESCRIPTION	INITIALS
10/9/13	ISSUED	LM
10/16	ISSUED FOR APPROVAL SIGNOFF	BS

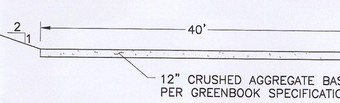
STANDARD DRIVEWAY
CITY OF VERNON, CALIFORNIA
COMMUNITY SERVICES & WATER DEPARTMENT
OCTOBER 2005

STANDARD PLAN
PV 693
PAGE 2 OF 2



ACCESS ROAD PROFILE
SCALE: 1" = 10'

3 CITY OF VERNON STANDARD DRIVEWAY DETAIL
SCALE: NTS



J ACCESS DRIVEWAY
SCALE: 1" =10'

CAUTION: THIS PLAN MAY BE REDUCED 0 1" 2" ORIGINAL SCALE

REFERENCES:
PLANS
DATUM

NO.	REVISION	DATE	APRVD
1	ISSUED FOR PERMITTING	6/6/12	
2–4	REVISED 6/18, 7/19, 8/9 CITY COMMENTS	8/15/12	
5	REVISED 8/16/12 – ISSUED FOR CONSTRUCTION	8/20/12	
6–8	NEW LAYOUT – ISS FOR PERMITTING 8/5, REVISED CITY CMTS 8/19, 9/10	9/10/13	
9	ISSUED FOR CONSTRUCTION	9/10/13	

DRAWN CAS
DESIGNED KAF
CHECKED DLS
REVIEWED CHH

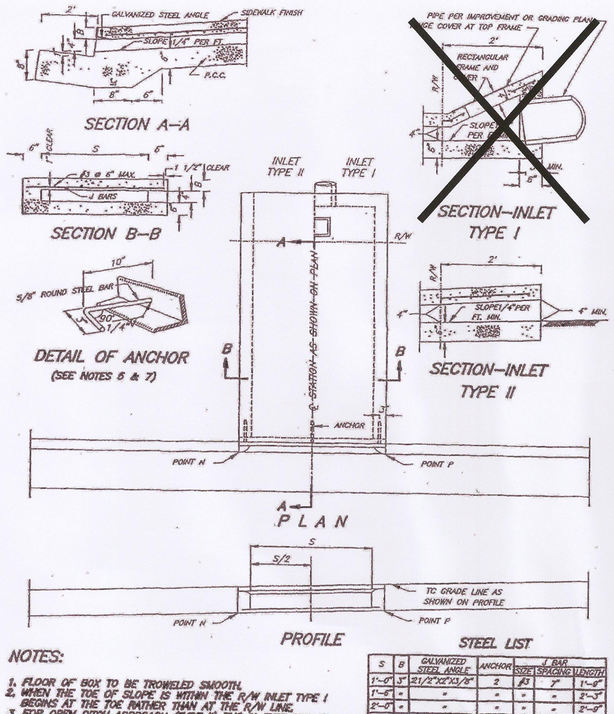
amec
121 Innovation Drive, Suite 200
Irvine, California 92617
(949) 642-0245

BELOW GRADE DEMOLITION & SOIL EXCAVATION
PECHINEY CAST PLATE, INC., FACILITY
3200 FRUITLAND, VERNON, CALIFORNIA

ACCESS ROAD PLAN AND PROFILE

DATE: 09/
SCALE: 1"
SHEET: 5
PROJ No: 10627.00

Plot Date: 10/23/13 - 3:01pm, Plotted by: pat.herring
Drawing Path: Y:\10627.003.0\acad\Reports-2013\Final Grading Plan-2013\Issued for Construction_2013-10-11\sheets\, Drawing Name: D-5 ACCESS ROAD PLAN AND PROFILE.dwg



NOTES:

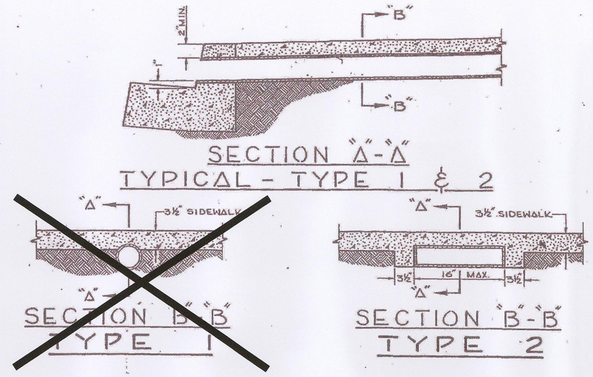
1. FLOOR OF BOX TO BE TROWELED SMOOTH.
2. WHEN THE TOE OF SLOPE IS WITHIN THE R/W INLET TYPE I BEGINS AT THE TOE RATHER THAN AT THE R/W LINE.
3. FOR OPEN DITCH APPROACH (TYPE II) THE 2' EXTENSION IS NOT REQUIRED WHEN THE BACK OF WALK IS 2' OR MORE FROM THE R/W LINE.
4. TOP OF INLET STRUCTURE (TYPE I & II) TO BE FLUSH WITH ADJACENT SURFACE WHERE PRACTICABLE.
5. A HEADED STEEL STUD 5/8"X8 3/8" WITH HEAD D=1" ATTACHED BY A FULL PENETRATION BUTT WELD MAY BE USED AS AN ALTERNATE ANCHOR.
6. THE 3" LEG OF THE INTERIOR ANCHORS SHALL BE PARALLEL TO THE TOP OF SIDEWALK.

STEEL LIST

S	B	GALVANIZED STEEL ANGLE	ANCHOR	J BAR SIZE	J BAR SPACING	J BAR LENGTH
1'-0"	3"	2 1/2"X2 1/2"X1/8"	2	#3	7"	1'-8"
1'-6"	"	"	"	"	"	2'-3"
2'-0"	"	"	"	"	"	2'-9"
2'-6"	"	"	"	"	"	3'-3"
3'-0"	"	"	3	"	"	3'-9"
3'-6"	"	"	"	"	6"	4'-3"
4'-0"	"	"	"	"	5"	4'-9"

PARKWAY DRAIN NO.1
CITY OF VERNON, CALIFORNIA
PUBLIC WORKS DEPARTMENT
AUG.1991
STANDARD PLAN
DV 2171

4 CURB DRAIN DETAILS
SCALE: NTS

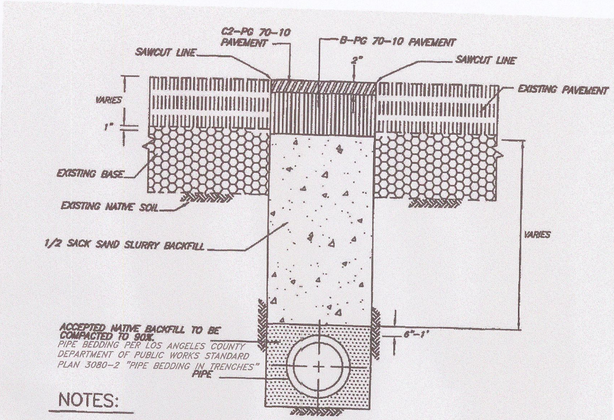


NOTES:

1. MATERIALS FOR TYPE 1 DRAINS SHALL BE STEEL, CAST IRON OR P.V.C. MATERIALS FOR TYPE 2 DRAINS SHALL BE STEEL OR CAST IRON ONLY.
2. REFERENCE IS MADE TO STANDARD PLAN PV 582 - STANDARD SIDEWALK CURB AND GUTTER.

CURB DRAINS
CITY OF VERNON, CALIFORNIA
PUBLIC WORKS DEPARTMENT
AUGUST, 1971

STANDARD PLAN
DV 1888



NOTES:

1. NEW PAVEMENT THICKNESS SHALL BE 1 INCH BELOW THE EXISTING TO A MAXIMUM OF 10 INCHES, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
2. ASPHALT CONCRETE SHALL BE B-PG70-10. TACK COAT SHALL BE APPLIED PER LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK).
3. FOGSEED ASPHALT CONCRETE SHALL BE C2-PG70-10, 2" THICK AND PAVED FLUSH WITH ADJACENT PAVEMENT WITHIN SAME DAY AS NEW A.C. PLACEMENT.
4. DAMAGED AND UNDERMINED PAVEMENT SHALL BE REMOVED BY SAW CUTTING FULL DEPTH PARALLEL TO TRENCH AND REPLACED WITH ASPHALT CONCRETE PER ABOVE AT NO COST TO THE CITY.
5. FOR CONCRETE STREETS THE WIDTH OF CONCRETE TO BE REPLACED SHALL EITHER BE FROM COLD JOINT LINE TO COLD JOINT LINE OR APPROVED TRENCH WIDTH WITH CONCRETE DOWELS (MIN. #4 BARS) PLACED EVERY 3 FT STAGGERED.
6. IF THE SAWCUT LINE IS 3 FEET OR LESS FROM GUTTER LINE OR COLD JOINT THE A.C. PAVEMENT OR CONCRETE SHALL BE REMOVED TO GUTTER LINE OR COLD JOINT.
7. ALL TRAFFIC SIGNAL LOOPS, DOTS, LANE LINES, PEDESTRIAN LINES, AND OTHER PAINTED MARKINGS ARE TO BE REPLACED IN KIND BY THE CONTRACTOR.
8. AN ENCROACHMENT PERMIT SHALL BE OBTAINED FROM THE CITY OF VERNON COMMUNITY SERVICES AND WATER DEPARTMENT PRIOR TO ANY ENCROACHMENT OR CONSTRUCTION WITHIN A CITY OF VERNON RIGHT-OF-WAY.
9. THE CONTRACTOR SHALL OBTAIN AN UNDERGROUND SERVICE ALERT TICKET AND OBTAIN A CALIFORNIA COMMISION OF OCCUPATIONAL SAFETY AND HEALTH (DOSH) PERMIT IF THE TRENCH IS GREATER THAN 5 FEET DEEP PRIOR TO THE COMMENCEMENT OF WORK.
10. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND MAINTAINING ALL TRAFFIC CONTROLS AND SIGNAGE PER W.A.T.C.H. MANUAL DURING ENTIRE PROJECT.
11. NO STOCK PILING OF CONSTRUCTION MATERIALS OR EQUIPMENT SHALL BE ALLOWED OVER NIGHT IN THE PUBLIC RIGHT-OF-WAY UNLESS APPROVED BY THE CITY ENGINEER.
12. ALL NECESSARY STEEL PLATES SHALL BE PROVIDED AT THE JOB SITE PRIOR TO ANY REMOVALS. PLATES SHALL BE SKID RESISTANT, RESTRAINED AND RAMPED WITH A.C. COLD MIX..
13. ALL TRENCHES SHALL BE BACKFILLED WITH 1/2 SACK SAND SLURRY UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
14. THE CONSTRUCTION SHALL COMPLY WITH CITY STANDARDS AND THE GREEN BOOK.

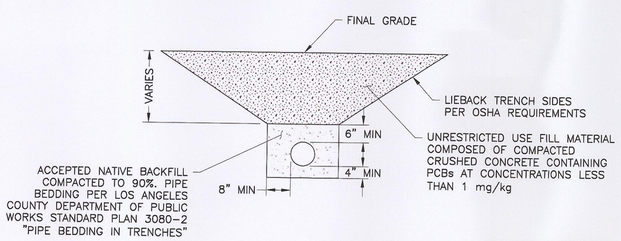
REVISIONS			
NUMBER	DESCRIPTION	INITIALS	
REVISION 1	[illegible]	KT	
REVISION 2	[illegible]	KT	
REVISION 3	[illegible]	KT	
REVISION 4	[illegible]	KT	
REVISION 5	[illegible]	KT	
REVISION 6	[illegible]	KT	
REVISION 7	[illegible]	KT	
REVISION 8	[illegible]	KT	
REVISION 9	[illegible]	KT	

TYPICAL TRENCH PAVING SECTION

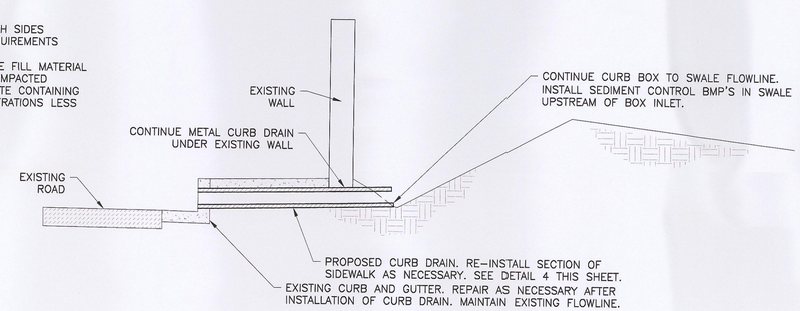
CITY OF VERNON, CALIFORNIA
COMMUNITY SERVICES & WATER DEPARTMENT
OCTOBER 2009

STANDARD PLAN V2264
SHEET 1 OF 2

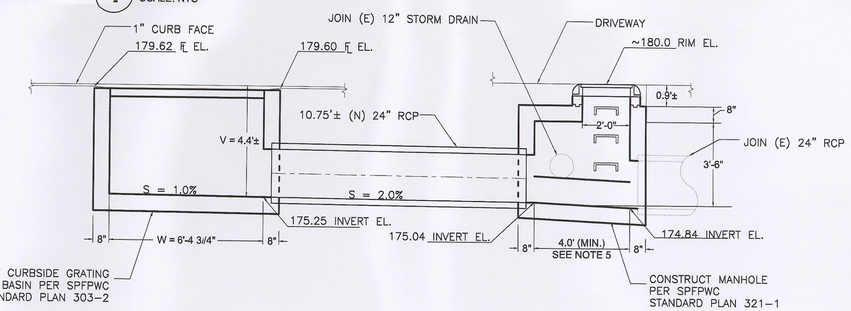
6 TYPICAL TRENCH PAVING SECTION
SCALE: NTS



L TYPICAL TRENCH SECTION (OUTSIDE PAVEMENT)
NTS



5 CURB DRAIN DETAIL CONTINUED
SCALE: NTS



NOTES:
1. CONTRACTOR SHALL VERIFY INVERT ELEVATION OF EXISTING 24" RCP STORM DRAIN CONNECTING TO EXISTING CURB INLET CATCH BASIN AND REPORT FINDINGS TO ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OF NEW CATCH BASIN AND MANHOLE.
2. PIPE PENETRATION TO BE CONNECTED TO STRUCTURE WITH BEVELED REBAR, MORTAR (NON-SHRINK GROUT), AND A CONCRETE COLLAR.
3. REMOVE EXISTING CONNECTOR PIPE SCREEN (C.P.S.) FROM EXISTING STRUCTURE AND DONATE TO CITY OF VERNON PUBLIC WORKS. INSTALL NEW C.P.S. ON PROPOSED 24" R.C.P.
4. REFER TO SHEET D-5 ACCESS ROAD PLAN AND PROFILE FOR FINAL GRADE INFORMATION.
5. FOR THE PROPOSED MANHOLE, PER DETAIL 321-1 AND ASSOCIATED NOTE 3, L SHALL BE 4-FT MINIMUM, BUT SHOULD BE INCREASED IF NECESSARY TO MEET EXISTING PIPE ENDS. CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION.
6. SUPPORT PIPE OUTSIDE OF STRUCTURE WITH BACKFILL 265-C-14 MIX CONCRETE AS SHOWN IN SPFPWC JUNCTION STRUCTURE DETAIL STD. 333-1, SECTION Z-Z.

7 CATCH BASIN AND MANHOLE SECTION
D-5 SCALE: NTS

CAUTION: THIS PLAN MAY BE REDUCED 0 1" 2" ORIGINAL SCALE

REFERENCES:
PLANS
DATUM

NO.	REVISION	DATE	APRVD
1	ISSUED FOR PERMITTING	6/6/12	
2-4	REVISED 6/18, 7/19, 8/9 CITY COMMENTS	8/15/12	
5	REVISED 8/16/12 - ISSUED FOR CONSTRUCTION	8/20/12	
6-8	NEW LAYOUT - ISS FOR PERMITTING 8/5, REVISED CITY CMTS 8/19, 9/10	9/10/13	
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DRAWN CAS
DESIGNED KAF
CHECKED DLS
REVIEWED CHH

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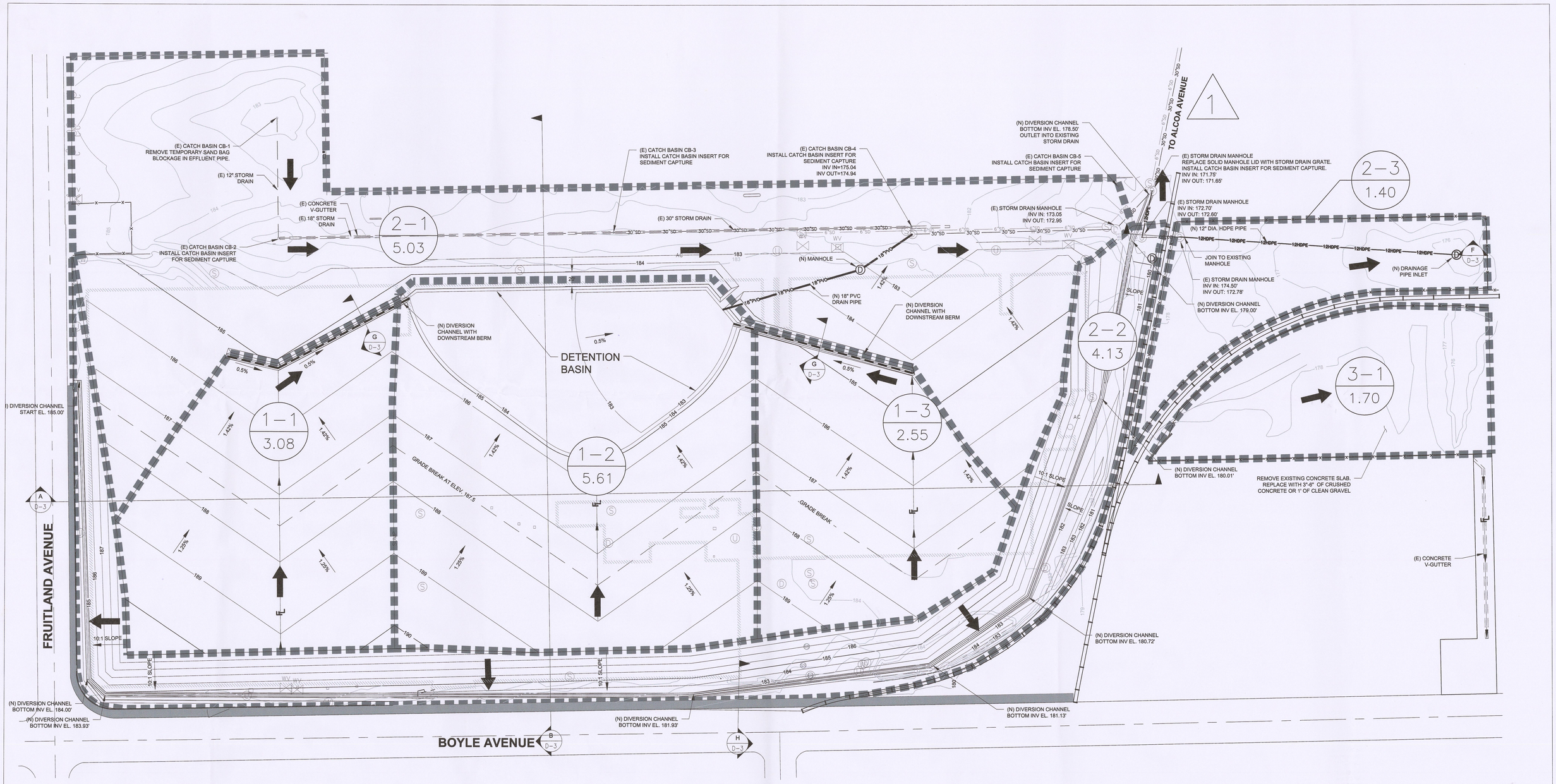
Irvine, California 92617
(949) 642-0245

BELOW GRADE DEMOLITION & SOIL EXCAVATION
PECHINEY CAST PLATE, INC., FACILITY
3200 FRUITLAND, VERNON, CALIFORNIA

CITY OF VERNON DETAILS

DATE: 09/10/13
SCALE: AS SHOWN
SHEET: 6 OF 6 SHEETS
PROJ No: 10627.003
D-6

Plot Date: 10/23/13 - 2:40pm, Plotted by: pat.herring
Drawing Path: Y:\10627.003.0\acad\Reports-2013\Final Grading Plan-2013\Issued for Construction_2013-10-11\sheet\1, Drawing Name: D-6 CITY OF VERNON DETAILS SHEET 2 OF 2.dwg



DRAINAGE SITE PLAN
SCALE: 1" = 50'

EXPLANATION

- DRAINAGE BASIN BOUNDARY
- BASIN ID / # ACRES — DRAINAGE BASIN ID SYMBOL
- DIRECTION OF FLOW
- DRAINAGE BASIN DISCHARGE POINT
- (D) MANHOLE DRAINAGE
- (S) MANHOLE SEWER
- (U) MANHOLE UNKNOWN
- (W) MANHOLE WATER
- (E) MANHOLE ELECTRICAL
- (W) WELL
- PROPOSED STORM DRAIN MANHOLE
- FIREHYDRANT
- WV WATER VALVE
- WATER METER
- POWER POLE

(E) EXISTING
(N) NEW

NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND AVOIDING ALL PUBLIC AND PRIVATE UTILITIES DURING BACKFILLING AND GRADING OF SOIL AND MATERIALS UNLESS OTHERWISE STATED IN THE PROJECT DOCUMENTS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW GRADING PLAN AND SPECIFICATIONS THOROUGHLY PRIOR TO SITE MOBILIZATION. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE CIVIL ENGINEER IF ONSITE DISCREPANCIES ARE OBSERVED THAT WOULD AFFECT THE EARTHWORK QUANTITIES.
3. THE EXISTING TOPOGRAPHY AS DELINEATED ON THIS DRAWING AND THE LIMITS OF WORK SHOWN ON THE DRAWING SHALL BE UTILIZED AS THE BASIS FOR ALL EARTHWORK COMPUTATIONS. EXCAVATION VOLUMES ARE BASED ON LIMITED SOIL INVESTIGATION SAMPLING. ACTUAL CONDITIONS MAY VARY FROM OBSERVED OR MEASURED CONDITIONS AT THE TIME OF PLAN PREPARATION. EXTENT OF SOIL EXCAVATION AND EXCAVATION VOLUMES ARE APPROXIMATE AND SHALL BE CONFIRMED BY SOIL SAMPLING AT TIME OF EXCAVATION AND SCAQMD RULE 1166 MONITORING. ACTUAL EARTHWORK QUANTITIES MAY VARY AS A RESULT.
4. ALL SOIL SHALL BE MONITORED DURING BACKFILLING AND GRADING OPERATIONS FOR VOLATILE ORGANIC COMPOUNDS (VOCs) BY THE CONTRACTOR IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, STANDARDS, AND CODES INCLUDING SCAQMD RULE 1166, OSHA AND CALOSHA.
5. CONTRACTOR SHALL RESTORE ALL EXCAVATED AREAS PURSUANT TO THE REQUIREMENTS OF SECTION 02351 AND AS SHOWN ON THE DRAWINGS.
6. CONTRACTOR SHALL PREVENT SOIL, CONCRETE, DEBRIS, AND OTHER CONSTRUCTION MATERIALS FROM ENTERING STORM DRAINS AND SEWER SYSTEMS.
7. CONTRACTOR SHALL PREVENT SITE SOIL AND DEBRIS FROM BEING TRACKED ONTO CITY-RIGHT-OF-WAYS. ANY TRACKED SOIL OR DEBRIS SHALL BE ADDRESSED PURSUANT TO THE REQUIREMENTS OF SECTION 02120.
8. FINAL GRADES SHALL CONTROL AND CONVEY RAINFALL RUNOFF TO EXISTING POINTS OF STORMWATER COLLECTION AS SHOWN ON THE DRAWING. RAINFALL RUNOFF SHALL NOT FLOW OFF-SITE IN AN UNCONTROLLED MANNER.
9. CONTRACTOR SHALL PREPARE AND IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THE CALIFORNIA STORMWATER BEST MANAGEMENT PRACTICES (BMP) HANDBOOK (JANUARY, 2003) AND THE REQUIREMENTS OF SECTION 01502.
10. CONTRACTOR SHALL PLACE A MINIMUM THICKNESS OF 3 TO 6 INCHES OF CRUSHED RECYCLED AGGREGATE MATERIALS GENERATED FROM ONSITE CRUSHING OF UNRESTRICTED USE CONCRETE AS UPPERMOST LAYER IN ALL BACKFILL AND GRADING AREAS TO REDUCE POTENTIAL SOIL EROSION.
11. BACKFILL MATERIALS, PLACEMENT, AND COMPACTION SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02351.
12. INSPECTION OF EARTHWORK AND SOILS TESTING SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02351.
13. CONTRACTOR SHALL STOCKPILE AND SEGREGATE CONCRETE AND ASPHALT DEBRIS IN SEPARATE PILES. CRUSHED RECYCLED AGGREGATES COMPRISED OF CONCRETE WITH PCB CONCENTRATIONS LESS THAN 1 mg/kg MAY BE USED AS UNRESTRICTED USE FILL AT ANY DEPTH. ASPHALT DEBRIS CANNOT BE USED AS FILL AND MUST BE RECYCLED OR DISPOSED OFF-SITE.
14. CONCRETE CAP SHOWN IN DETAIL 1 SHALL BE PLACED OVER REMAINING PORTIONS OF SUBSURFACE STRUCTURES THAT EXTEND DEEPER THAN 10-FEET BELOW GRADE, AS SPECIFIED IN SECTION 02050 AND SHOWN IN THE DRAWINGS, AND AS IDENTIFIED DURING THE PERFORMANCE OF DEMOLITION WORK.
15. SITE TOPOGRAPHY AS DELINEATED BASED ON SURVEY SPOT ELEVATIONS BY CALVADA DATED JANUARY 5, 2006 THAT ARE BASED ON THE COUNTY OF LOS ANGELES NGS POINT No. AJ1840 (DESIGNATION BGIS GARDENS INT SCH GRM), ELEVATION 128.31 FEET (NAVD 1988).
16. FORMER BUILDING 114 CONCRETE STRUCTURES ABANDONED IN PLACE BY ALCOA. ELEVATIONS TO TOP OF STRUCTURES ARE APPROXIMATE. STRUCTURES CAPPED WITH 8 TO 10 INCHES OF CONCRETE. DETAILS AVAILABLE IN "ALUMINUM COMPANY OF AMERICA (ALCOA) DIVESTITURE OF THE ALCOA CAST PLATE FACILITY, PARCELS 6, 7 , AND 8, VERNON, CALIFORNIA, ENVIRONMENTAL ACTIVITIES VOLUME 2 OF 2, A.J. URSIC, JR., JULY 26, 1999".
17. FORMER BUILDING 12 CONCRETE STRUCTURE ABANDONED IN PLACE BY ALCOA. ELEVATION TO TOP OF CONCRETE CRANE PAD STRUCTURE IS APPROXIMATE. DETAILS AVAILABLE IN "ALUMINUM COMPANY OF AMERICA FORGE DEMOLITION/REMEDIATION, VERNON FACILITY, VERNON, CALIFORNIA, FINAL CLOSURE OF FORGE FACILITY ZONES 1-4, A. J. URSIC, JR., JANUARY 29, 1999".
18. DURING ROUGH GRADING, CONTRACTOR SHALL INSTITUTE GRADE CONTROLS TO AVOID MIXING SOILS CONTAINING PCBs AT CONCENTRATIONS GREATER THAN 3.5 mg/kg WITH SHALLOW SOIL OR BACKFILL MATERIALS PRESENT AT DEPTHS SHALLOWER THAN 5 FEET BGS.
19. FUTURE REDEVELOPMENT GRADING SHALL COMPLY WITH POST-REMEDIAL SOIL MANAGEMENT PLAN, TO BE PREPARED AFTER COMPLETION OF THE SOIL REMOVAL WORK, AS DESCRIBED IN THE REMEDIAL ACTION PLAN.
20. ALL ON-SITE CATCH BASINS AND INLETS WILL BE INSTALLED WITH NEW INSERTS APPROVED BY THE CITY OF VERNON TO PREVENT FROM SEDIMENT.
21. INSTALL A MINIMUM OF 3 TO 6-INCHES OF CRUSHED RECYCLED AGGREGATE MATERIAL (CRUSHED CONCRETE) OVER THE RE-GRADED DRAINAGE AREAS TO PREVENT EROSION AND PROVIDE WEED CONTROL.

NOT FOR CONSTRUCTION

CAUTION: THIS PLAN MAY BE REDUCED 0 1" 2" ORIGINAL SCALE

REFERENCES:
PLANS
DATUM

NO.	REVISION	DATE	APRVD
1	ISSUED FOR PERMITTING	6/6/12	
2	REVISED 6/18/12 CITY COMMENTS	7/9/12	
3	REVISED 7/19/12 CITY COMMENTS	7/26/12	

DRAWN JBR
DESIGNED KNJ
CHECKED DLS
REVIEWED CHH

amec
AMEC
121 Innovation Drive, Suite 200
Irvine, California
(949) 642-0245

BELOW GRADE DEMOLITION & SOIL EXCAVATION
PECHINEY CAST PLATE, INC., FACILITY
3200 FRUITLAND, VERNON, CALIFORNIA

GRADING PLAN

DATE: 07/26/12
SCALE: 1"=50'
SHEET: 1 OF 3 SHEETS
PROJ No: 10627.003
D-1

Filepath: K:\10627.003.01\Technical\Grading\Drainage Plan\07212 Send to Vernon\D-1 GRADING PLAN.dwg
Plot Time: Aug 02, 2012 - 1:03pm , Plotted By: pattersing

EXISTING CATCH BASIN

EXISTING 30" STORM DRAIN

EXISTING CATCH BASIN
INV IN=175.04
INV OUT=174.94

WV

WV

183

184

20'

20'
EMERGENCY
SPILLWAY

18" PVC DRAIN PIPE

184

1.42%

275 LF ~ DIVERSION CHANNEL
0.5% SLOPE
INV EL OUT:184.0
START OF CHANNEL EL:185.35

0.5%

POND BOTTOM: 182.0

330 LF ~DIVERSION CHANNEL
0.5% SLOPE
INV EL OUT:183.0
START OF CHANNEL EL:184.65

0.5%

185

183

185

184

187

1.42%

1.42%

GRADE BRF

DETENTION POND PLAN VIEW
SCALE: 1" = 20'

185.4'

SPILLWAY WATER SURFACE
ELEVATION: 184.4'

185.4'

183.7'

183.7'

20'

2 EMERGENCY SPILLWAY
SCALE: 1" = 2'

TRASH RACK

3.5" ORIFICE
(3 ROWS WITH
8 HOLES PER
ROW)

18" DISCHARGE PIPE

183.7'

182.5'

5.45"

5"

MULTIPLE ORIFICE OUTLET RISER PROFILE
SCALE: 1" = 3'

CREST
ELEVATION=186.5'

63'

4

1

3'

4.57%

4.8'

0.5% MIN

18" PVC @ 2.38%

INV: 182.0

PROPOSED MANHOLE
RIM = 183.0
INV. IN = 177.49
INV. OUT = 177.39

1.42%

EXISTING MANHOLE
RIM = 182.2
INV. IN = 175.04
INV. OUT = 174.94

18" PVC @ 2.97%

1 DETENTION POND OUTLET PROFILE
HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: NONE

EXPLANATION

W	WELL		DIRECTION OF FLOW
	GUARD POST	D	MANHOLE DRAINAGE
	FIREHYDRANT	S	MANHOLE SEWER
WV	WATER VALVE	U	MANHOLE UNKNOWN
	WATER METER	W	MANHOLE WATER
	POWER POLE	E	MANHOLE ELECTRICAL

NOT FOR CONSTRUCTION

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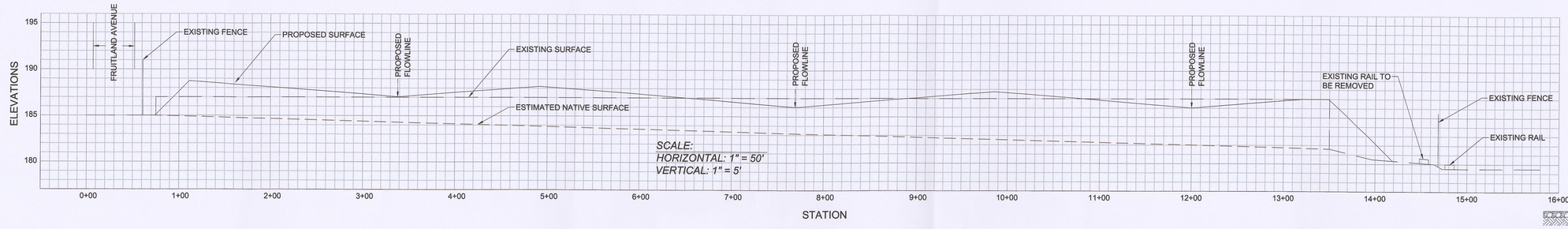
BELOW GRADE DEMOLITION & SOIL EXCAVATION
PECHINEY CAST PLATE, INC., FACILITY
3200 FRUITLAND, VERNON, CALIFORNIA

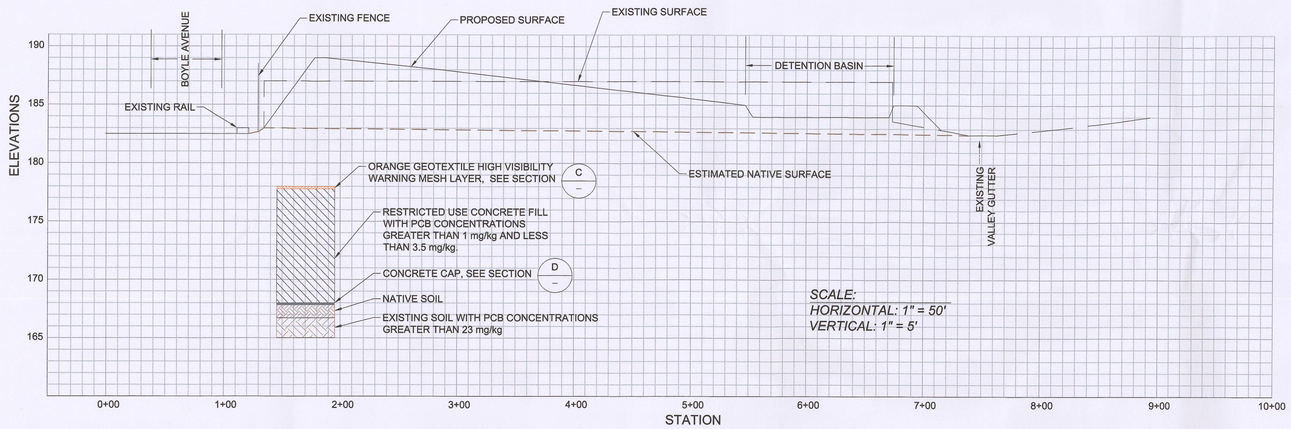
DETENTION POND PLAN

DATE: 07/26/12
SCALE: AS SHOWN
SHEET: 2 OF 3 SHEETS
PROJ No: 10627.003
D-2

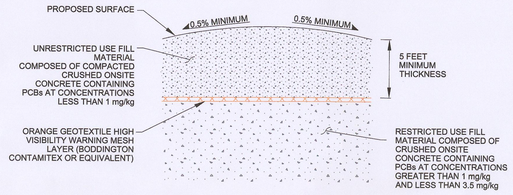
Filepath: K:\10627.003.00\Technical\Grading\Drainage Plan\072712 Send to Vernon\D-2 DETENTION POND PLAN.dwg
Plot Time: Aug 02, 2012 - 4:04pm, Plotted By: pat.herring



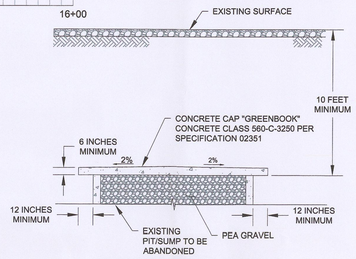
A / D-1 SECTION A
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



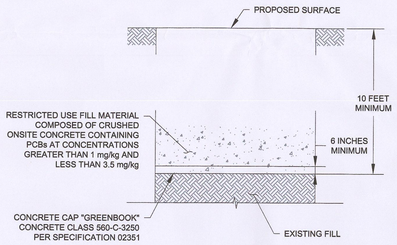
B / D-1 SECTION B
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



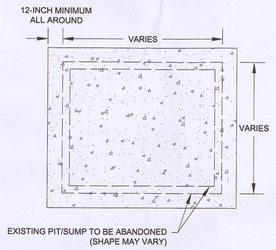
C / - TYPICAL INTERIM CAP SECTION
NOT TO SCALE



TYPICAL CONCRETE CAP SECTION

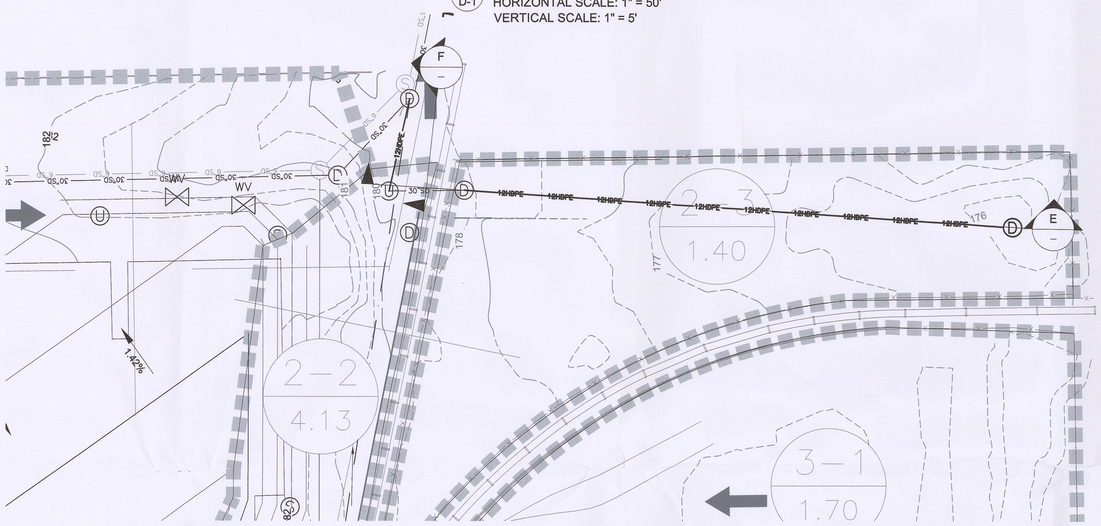


D / - TYPICAL CONCRETE CAP SECTION OVER EXISTING FILL WITH PCB CONCENTRATIONS GREATER THAN 23 mg/kg AT SOIL EXCAVATION AREAS 4a AND 4b
NOT TO SCALE

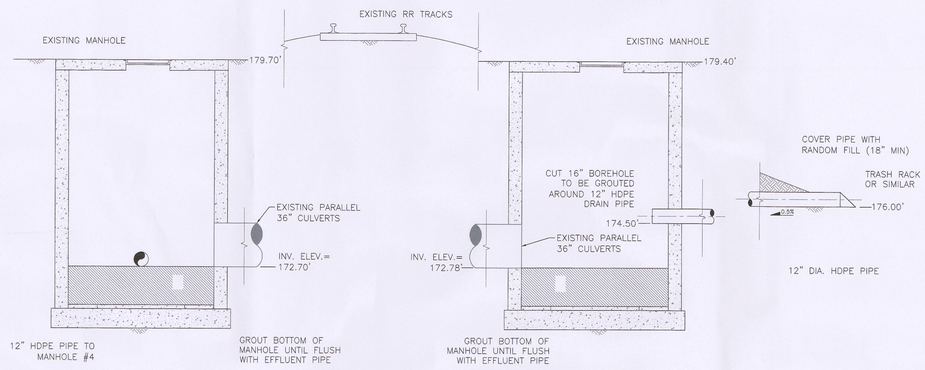


TYPICAL CONCRETE CAP PLAN

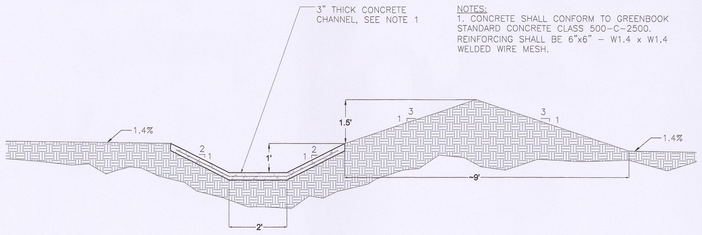
1 / - TYPICAL CONCRETE CAP OVER FORMER BURIED STRUCTURES DETAIL
NOT TO SCALE



MANHOLE CONNECTION DETAIL
SCALE: 1" = 40'

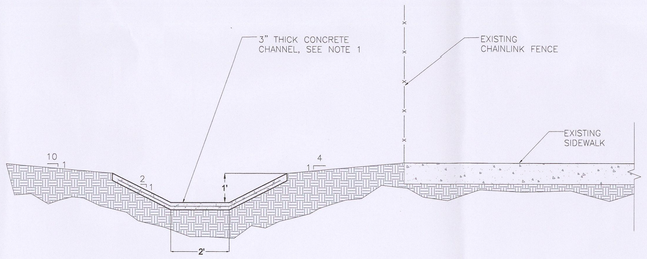


E / -- SECTION E
SCALE: 1" =4'

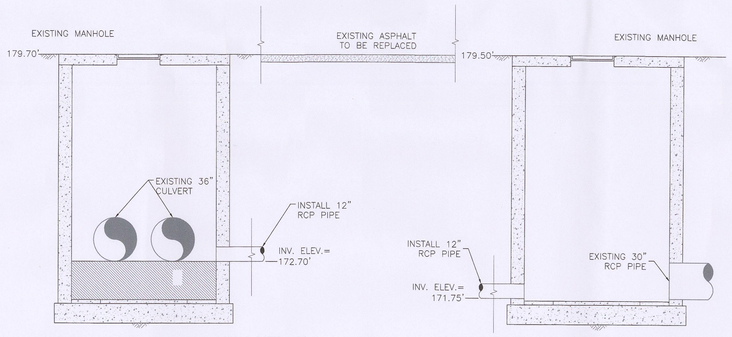


NOTES:
1. CONCRETE SHALL CONFORM TO GREENBOOK STANDARD CONCRETE CLASS 500-C-2500. REINFORCING SHALL BE 6"x6" – W1.4 x W1.4 WELDED WIRE MESH.

G / D-1 SECTION B
SCALE: 1" =2'



H / D-1 SECTION B
SCALE: 1" =2'



F / -- SECTION F
SCALE: 1" =4'

CAUTION: THIS PLAN MAY BE REDUCED 0 1" 2" ORIGINAL SCALE

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BELOW GRADE DEMOLITION & SOIL EXCAVATION
PECHINEY CAST PLATE, INC., FACILITY
3200 FRUITLAND, VERNON, CALIFORNIA

CROSS SECTIONS AND DETAILS

DATE: 07/26/12
SCALE: AS SHOWN
SHEET: 3 OF 3 SHEETS
PROJ. No: 10627.003
D-3

Filepath: K:\10627.003.01\Technical\Grading\Drainage Plan\072712 Send to Vernon\D-3 DETAILS.dwg
Plot Time: Aug 02, 2012 - 3:41pm, Plotted By: pat.herring