MUNICIPALITY OF ANCHORAGE
SOLID WASTE SERVICES

Eagle River, Alaska

ANCHORAGE REGIONAL LANDFILL

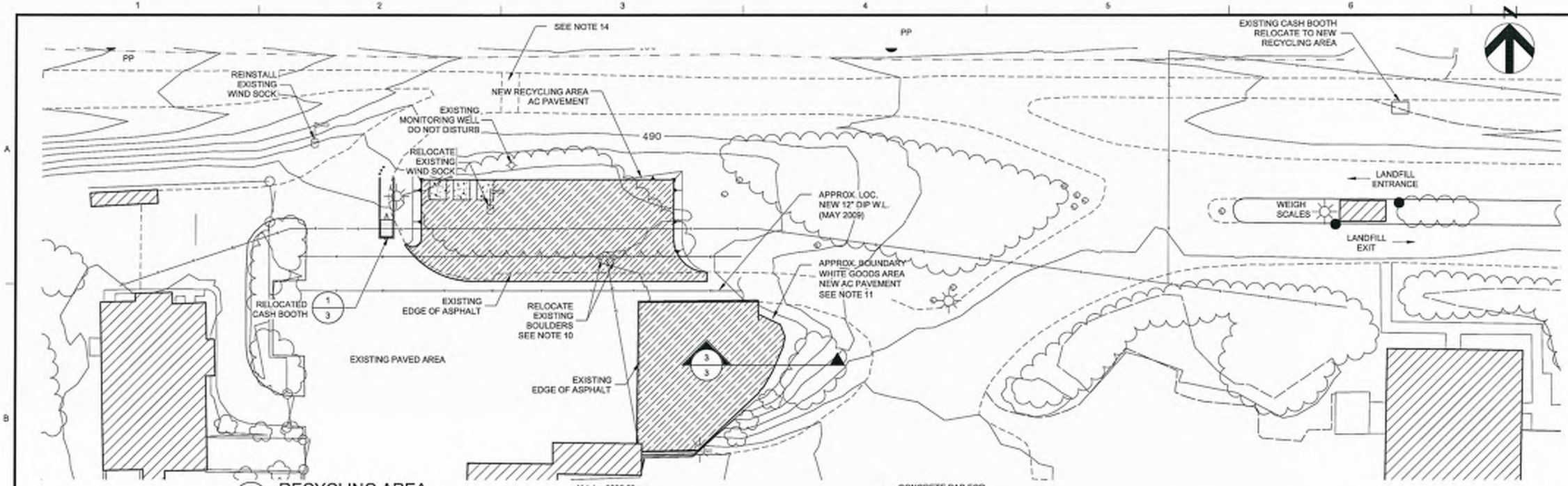
NEW RECYCLING CENTER

May, 2009

DRAWING INDEX

HDR Alaska, Inc.

User: ONEILANGE May 29, 2009 - 9:17am
Drawing: C:\PWWORKING\SEA\00225837\SWS_ARL_RAL_G-01.DWG - Layout: LAYOUT1
Xrefs: - Images:



NOTES:

1. CONTRACTOR TO MATCH EXISTING DRAINAGE PATTERNS ON NEW SURFACES, EXCEPT WHERE NOTED TO IMPROVE.
2. CONTRACTOR SHALL COORDINATE ALL WORK WITH OWNER TO ENSURE THAT LANDFILL OPERATIONS ARE NOT INTERRUPTED.
3. ALL SITE WORK SHALL CONFORM TO APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
4. CONTRACTOR IS RESPONSIBLE FOR SAFETY AND TRAFFIC CONTROL WITHIN THE AREAS OF WORK SHOWN.
5. THE CONTRACTOR SHALL REPAIR OR REPLACE ALL DAMAGED ITEMS TO EXISTING CONDITIONS AT NO COST TO THE OWNER.
6. TRANSPORT EXCAVATED MATERIAL TO ON SITE AREA DESIGNATED BY THE OWNER.
7. PRIOR TO PLACEMENT OF PERMANENT PAVING, EXISTING PAVEMENT SHALL BE SAW CUT OR WHEEL CUT THROUGH INTACT ASPHALT IN A NEAT STRAIGHT LINE. CRACKED PAVEMENT OUTSIDE THE LIMITS OF CUTTING WHICH RESULT FROM THE CONTRACTORS WORK SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST.
8. TACK COAT ALL ASPHALT EDGE CUTS PRIOR TO PAVING ACTIVITY.
9. SURVEY CONTROL IS PER ANCHORAGE REGIONAL LANDFILL GRID. SEE SPECIFICATIONS FOR CONTROL DATA.
10. RELOCATE EXISTING BOULDERS TO LOCATION DESIGNATED BY OWNER. LOCATION NOT TO OBSTRUCT OR INTERFERE WITH SNOW REMOVAL.
11. PAVE WHITE GOODS AREA TO LIMITS DETERMINED BY THE FIELD ENGINEER. SLOPE TO DRAIN.
12. SCHEDULE PAVING WORK WITH AWWU WATERLINE PROJECT UNDER CONSTRUCTION MAY 2009.
13. TOP OF CONCRETE PADS TO MATCH TOP OF A.C. PAVEMENT. PADS TO BE 6" THICK, 3000 PSI CONCRETE REINFORCED WITH #4 BARS @ 12" O.C. REINFORCEMENT SHALL HAVE 2" MIN COVER ON ALL SIDES. 3/4" ANCHOR BOLTS SHALL BE CORROSION RESISTANT, EXTENDED THROUGH FULL PAD THICKNESS AND LOCATED PER MANUFACTURERS REQUIREMENTS.
14. CUT & PATCH EXISTING PAVEMENT AS REQUIRED FOR ELECTRICAL SERVICE.

VERIFY SCALE — THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" — 1" — IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. FULL SIZE SCALE HOR2.: NA VERT.: NA

DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY
BASE			TELEPHONE						
TOPOGRAPHY			ELECTRIC						
PROFILE			CABLE TV						
SANITARY SEWER			TRAFFIC SIGNAL						
STORM SEWER			DESIGN						
WATER			QUANTITIES						
GAS			MSN. FINAL CHECK						
PLAN CHECK				REVISIONS					

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

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HDR Alaska, Inc. — CONSULTANT

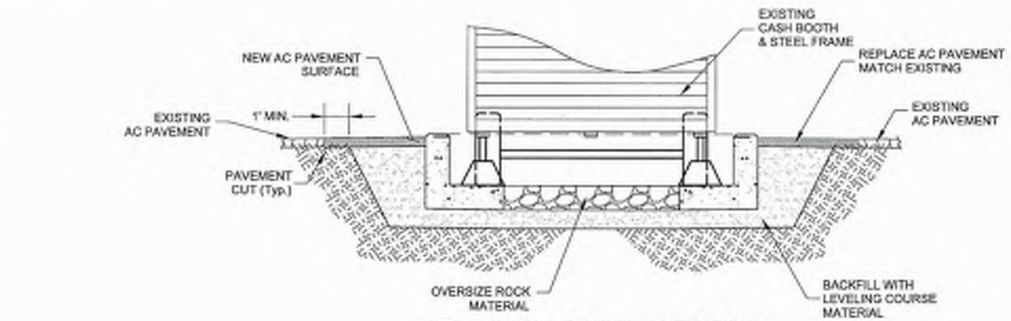
STATE OF ALASKA — WILLIAM T. HARLEY — No. 08-7048 — REGISTERED PROFESSIONAL ENGINEER — 7/14/09 — SEAL

MUNICIPALITY OF ANCHORAGE SOLID WASTE SERVICES — SWS

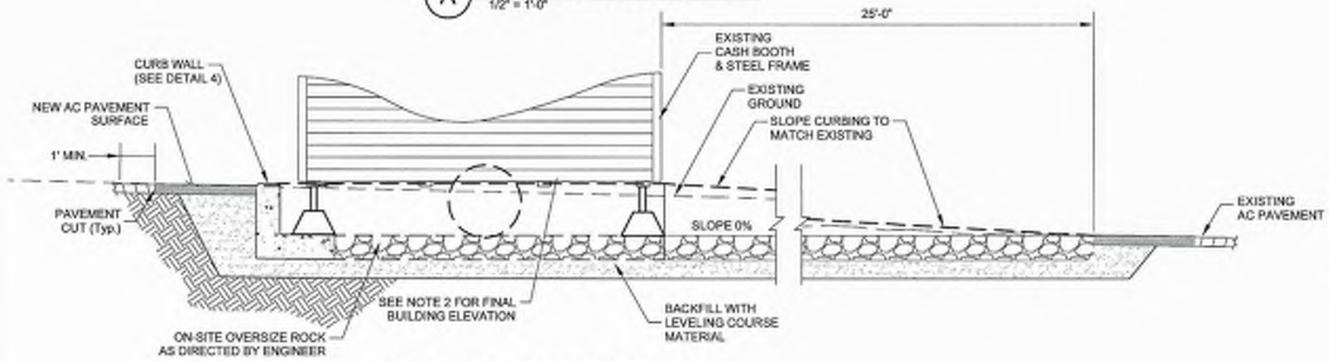
MUNICIPALITY OF ANCHORAGE
SOLID WASTE SERVICES
ANCHORAGE REGIONAL LANDFILL
NEW RECYCLING AREA

SITE PLAN

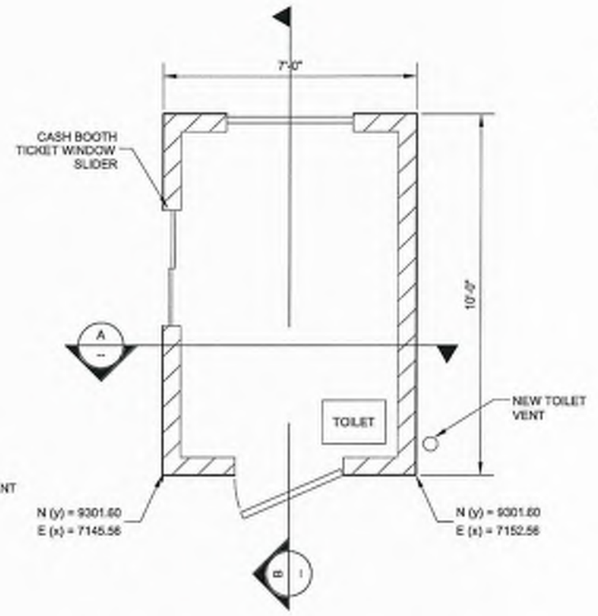
HOR2 SCALE: AS SHOWN | VERT SCALE: AS SHOWN | DATE: MAY 2009 | GRD: MSM MCA1 MCA3 MCA2 | PROJ. ID: 000000/XXXX (SWS) | SHEET 2 / 7



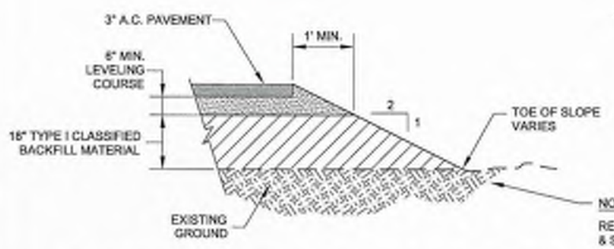
A CASH BOOTH SECTION
1/2" = 1'-0"



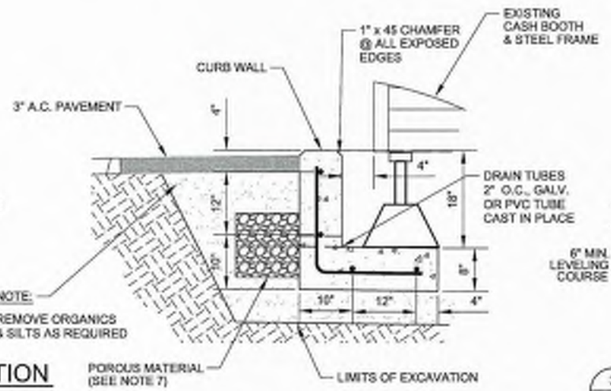
B CASH BOOTH SECTION
1/2" = 1'-0"



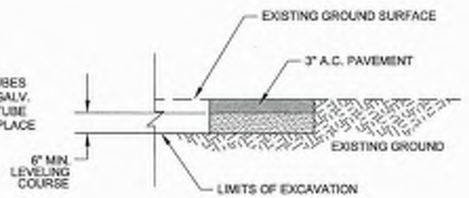
1/2 RELOCATED CASH BOOTH LAYOUT
NOT TO SCALE



2/2 NEW RECYCLING AREA PAVEMENT SECTION
NOT TO SCALE



4/- CURB WALL DETAIL
NOT TO SCALE



3/2 NEW WHITE GOODS PAVEMENT SECTION
NOT TO SCALE

NOTES:

1. VERIFY CASH BOOTH DIMENSIONS PRIOR TO FOUNDATION WORK.
2. CUT AND REPLACE EXISTING PAVEMENT AND SET CASH BOOTH SUCH THAT SIDE WINDOW SILL IS ~42" FROM NEW ASPHALT SURFACE
3. SLOPE NEW ASPHALT TO DRAIN NORTH @ 1% MINIMUM SLOPE.
4. COMPACT BACKFILL TO 95% DRY DENSITY.
5. LEVEL CASH BOOTH WITH CONCRETE PIERS AS REQUIRED.
6. INSTALL INCINERATING TOILET WITH PRIVACY CURTAIN IN CASH BOOTH. TOILET TO BE VENTED PER MANUFACTURE'S REQUIREMENTS. INCINOLET MODEL RV OR APPROVED EQUAL. REMOVE CABINETS IN CASH BOOTH ABOVE NEW TOILET.
7. PLACE ONE CUBIC FOOT OF POROUS BACKFILL MATERIAL AROUND WEEP HOLE AS SHOWN.

VERIFY SCALE — THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" —— 1" IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. FULL SIZE SCALE HORZ.: NA VERT.: NA

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CONSULTANT

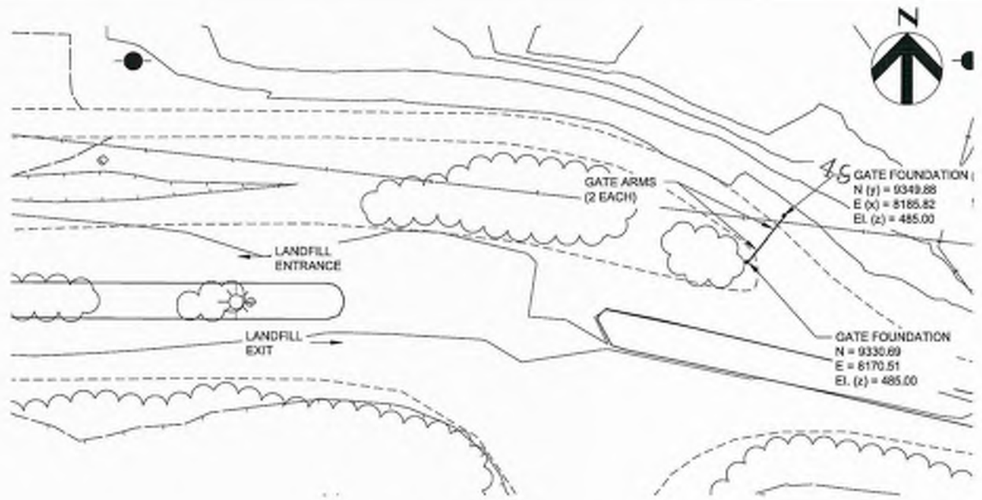
STATE OF ALASKA 49TH — WILLIAM T. HAMBY — REGISTERED PROFESSIONAL ENGINEER — 5/15/09
SEAL

MUNICIPALITY OF ANCHORAGE
SOLID WASTE SERVICES

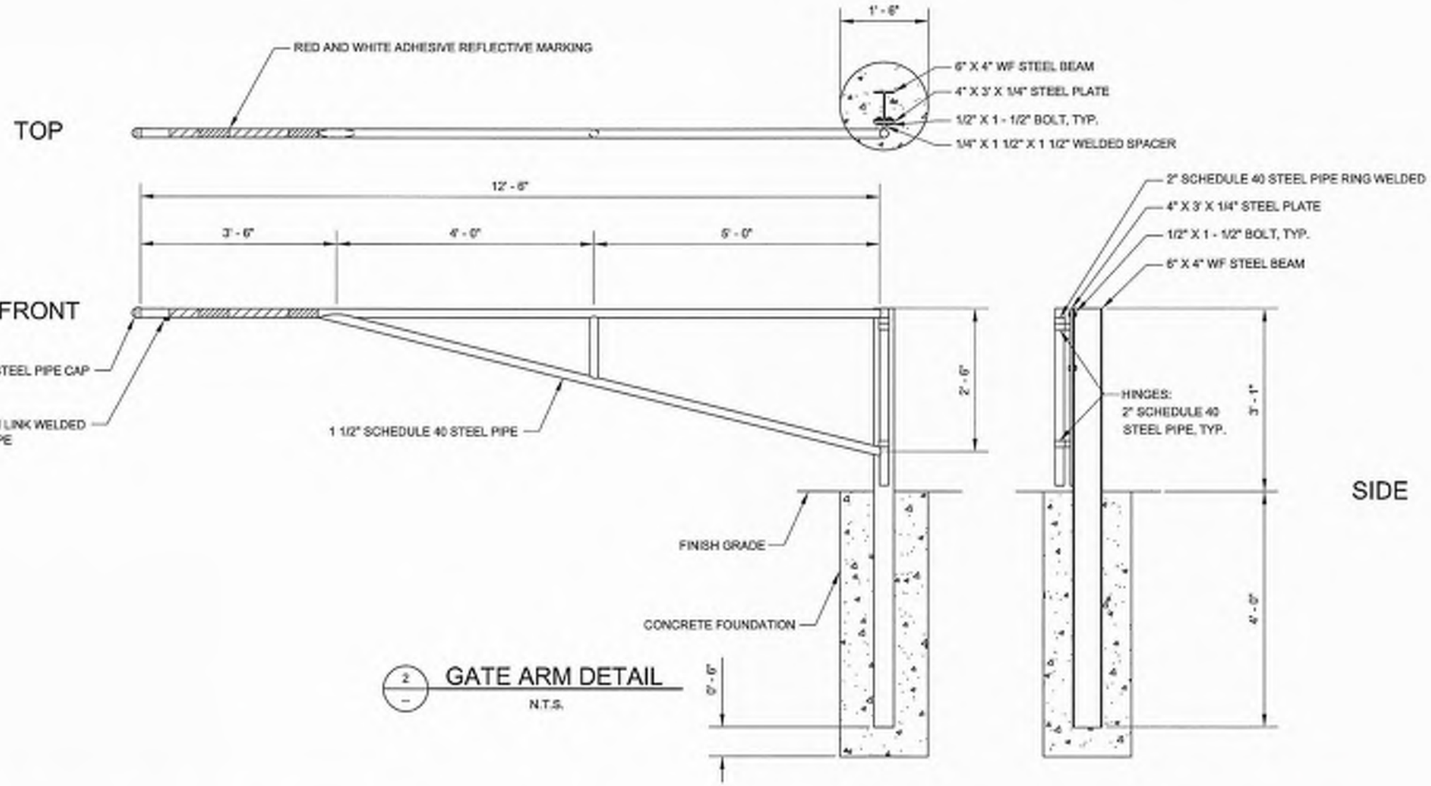
ANCHORAGE REGIONAL LANDFILL
NEW RECYCLING AREA

SECTIONS & DETAILS

HORZ SCALE: AS SHOWN | VERT SCALE: AS SHOWN | DATE: MAY 2009 | DRD: MDA6 MDA1 MDA3 MDA2 | PROJ. ID. 0000000XXXX (SWS) | SHEET 3 / 7



1 — PROPOSED PIPE GATE
N.T.S.



2 — GATE ARM DETAIL
N.T.S.

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CONSULTANT

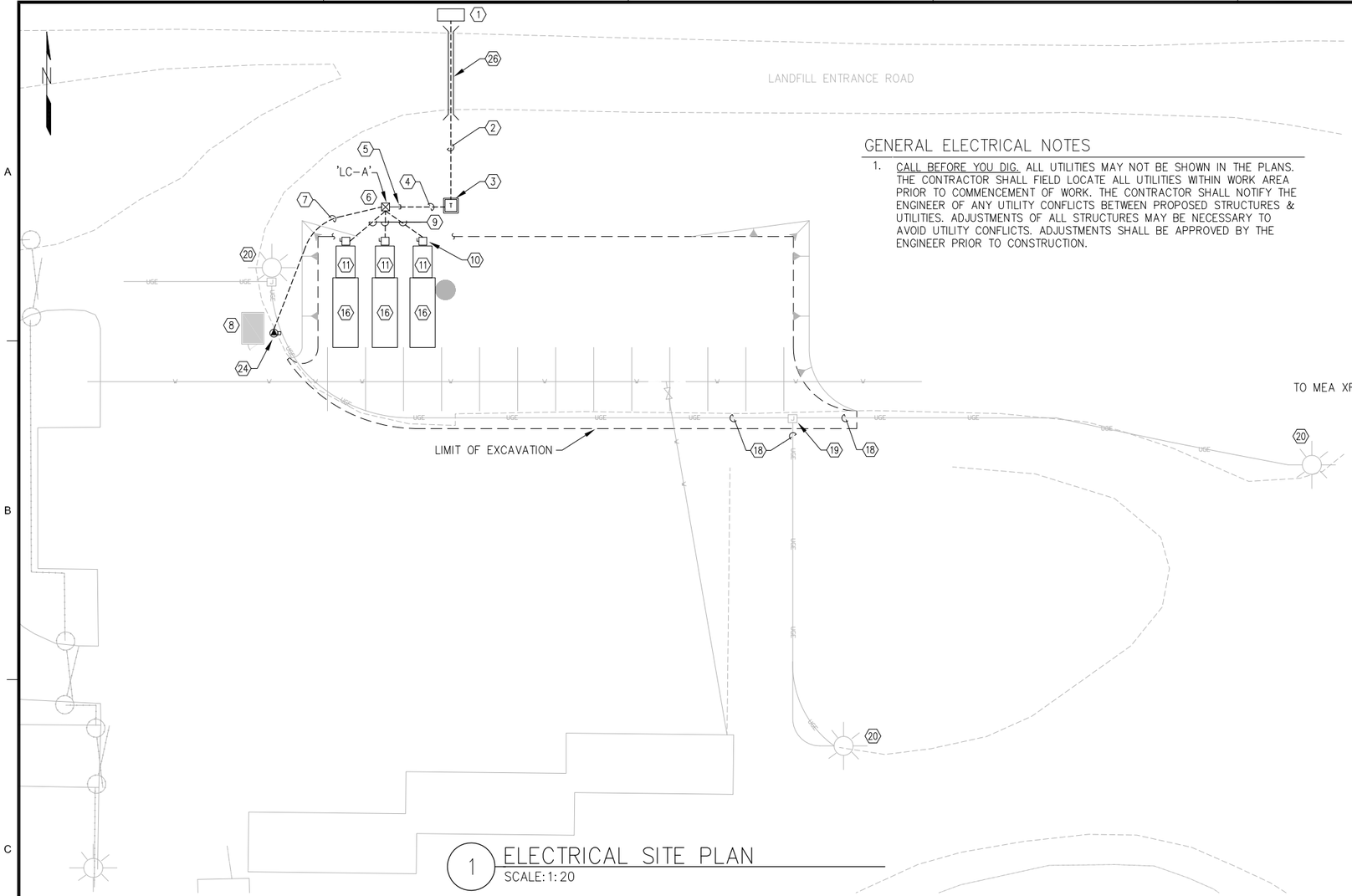
STATE OF ALASKA — WILLIAM H. HURLEY — No. CE-12148 — REGISTERED PROFESSIONAL ENGINEER — 7/14/09
SEAL

MUNICIPALITY OF ANCHORAGE
SOLID WASTE SERVICES

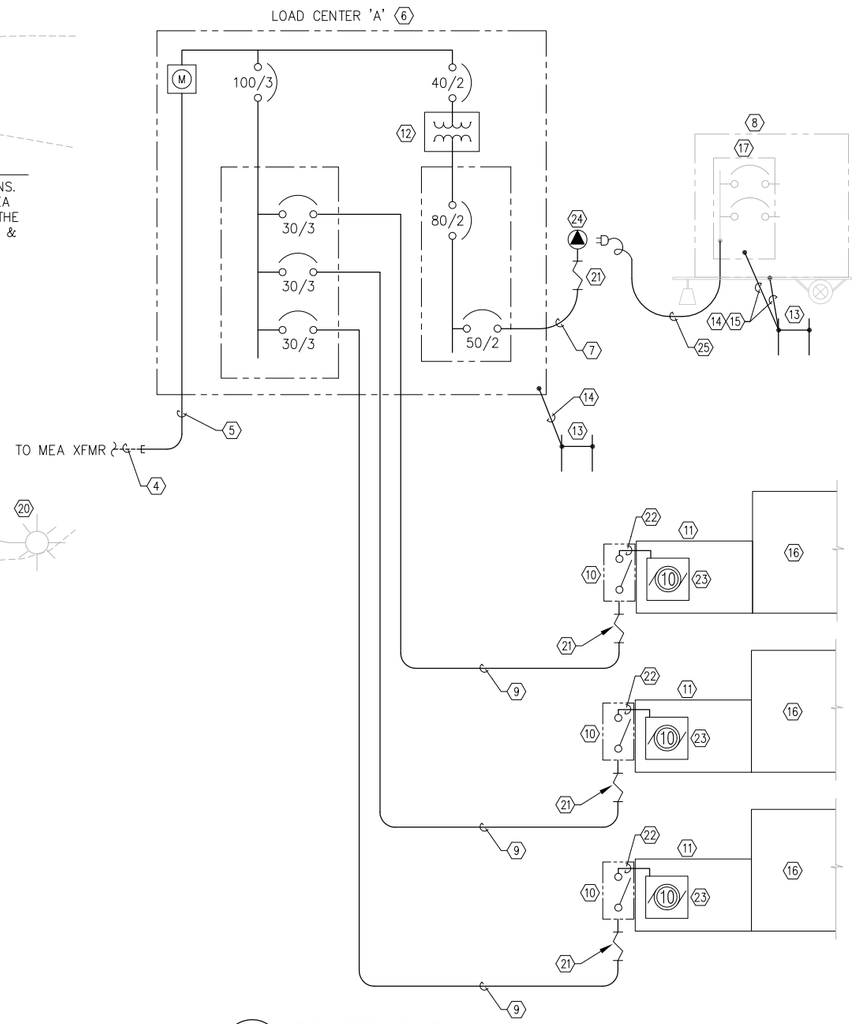
MUNICIPALITY OF ANCHORAGE
SOLID WASTE SERVICES
ANCHORAGE REGIONAL LANDFILL
NEW RECYCLING AREA

GATE DETAIL

HORZ SCALE: AS SHOWN	DATE: MAY 2009	GRID: MOA1 MOA2	SHEET 4 / 7
VERT SCALE: AS SHOWN			
PROJ. ID: 0000000XXXX (SWS)			



1 ELECTRICAL SITE PLAN
SCALE: 1: 20



2 POWER ONE-LINE
SCALE: NTS

GENERAL ELECTRICAL NOTES

1. CALL BEFORE YOU DIG. ALL UTILITIES MAY NOT BE SHOWN IN THE PLANS. THE CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES WITHIN WORK AREA PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY UTILITY CONFLICTS BETWEEN PROPOSED STRUCTURES & UTILITIES. ADJUSTMENTS OF ALL STRUCTURES MAY BE NECESSARY TO AVOID UTILITY CONFLICTS. ADJUSTMENTS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

SHEET NOTES

1. EXISTING MEA PRIMARY JUNCTION BOX #AER2020.
2. PRIMARY UNDERGROUND 3Ø LINE EXTENSION BY MEA.
3. 12,470: 480V, 3Ø PAD MOUNT TRANSFORMER BY MEA.
4. SERVICE LATERALS BY MEA.
5. 4" GRC CONDUIT STUB-OUT FOR SERVICE LATERALS. COORDINATE W/ MEA. MEA CONTACT: BILL WEST (907)761-9302.
6. 200A, 480V, 3Ø, TYPE 1 LOAD CENTER.
7. 1"C, 3#8 (2H,N) & 1#10 (G).
8. RE-LOCATED CASH BOOTH, SEE DETAIL SHEET 7.
9. 1"C, 5#10 (3H,N,G).
10. 30A, 480V, 3-POLE, NEMA 3R DISCONNECT SWITCH, SQUARE D CAT# HU361RB OR EQUAL. MOUNT TO SIDE OF COMPACTOR.
11. STATIONARY, 480V, 10HP, 3Ø COMPACTOR.
12. 480V: 120/240V, 1Ø, 15kVA TRANSFORMER.
13. GROUNDING SYSTEM. (2) 3/4"X10' COPPER CLAD STEEL GROUND RODS SEPARATED 10' MIN, IMBEDDED A MINIMUM OF 12" BELOW GRADE AND INTERCONNECTED W/ 2/0 BCU BURIED A MINIMUM OF 30". ALL BELOW GRADE CONNECTIONS SHALL BE EXTOTHERMICALLY WELDED.
14. #6 BCU.
15. BOND TO GROUND BUS IN CASH BOOTH PANELBOARD AND TO CASH BOOTH METAL FRAME.
16. REMOVABLE RECYCLING CONTAINER.
17. CASH BOOTH PANELBOARD. REMOVE ANY BONDS BETWEEN THE NEUTRAL AND GROUND BUSSES.
18. EXISTING AREA LIGHTING CIRCUIT. REMOVE CONDUIT WITHIN THE LIMITS OF EXCAVATION. REMOVE CONDUCTORS BACK TO THE NEAREST LIGHTING FIXTURE. AFTER EXCAVATION IS COMPLETE, RE-INSTALL 2" CONDUIT AND PULL IN NEW 3C#6 CONDUCTORS TO RE-CONNECT THE EXISTING LIGHTS.
19. EXISTING JUNCTION BOX TO BE REMOVED AND REPLACED.
20. EXISTING AREA LIGHTING FIXTURE.
21. PROVIDE SECTION OF LTF ABOVE GRADE TO ALLOW FOR MOVEMENT.
22. 3/4" LTF, 5#10 (3H,N,G). CONNECT TO COMPACTOR'S POWER UNIT.
23. COMPACTOR POWER UNIT.
24. POST MOUNTED RECEPTACLE FOR CASH BOOTH. SEE DETAIL ON SHEET 7.
25. HEAVY DUTY, ARCTIC GRADE, TYPE SOOW CORD, 3C#8 W/ GROUND. PROVIDE W/ STRAIN RELIEF AT CONNECTION TO CASH BOOTH PANELBOARD.
26. 6" SCHEDULE 40 PVC OR HDPE CONDUIT TO BE PLACED UNDER ROADWAY TO FACILITATE INSTALLATION OF MEA LINE EXTENSION CONDUCTORS. CONDUIT SHALL BE BURIED A MINIMUM OF 48". ENDS SHALL BE CAPPED AND LOCATIONS MARKED WITH AN ABOVE GRADE MARKER POST.

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EDC, INC.
213 W. FIREWEED LANE
ANCHORAGE, AK 99503
(907) 276-7933
CONSULTANT

STATE OF ALASKA — 49TH — John H. Faschan — EE 8286 — REGISTERED PROFESSIONAL ENGINEER — 5/27/09
SEAL

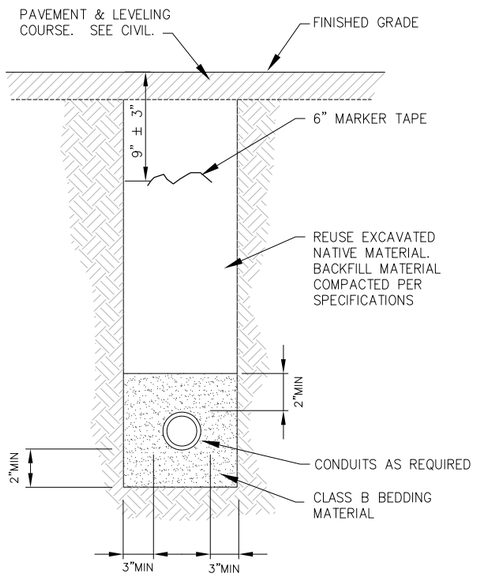
MUNICIPALITY OF ANCHORAGE — SWS — SOLID WASTE SERVICES

MUNICIPALITY OF ANCHORAGE
SOLID WASTE SERVICES
ANCHORAGE REGIONAL LANDFILL
NEW RECYCLING AREA

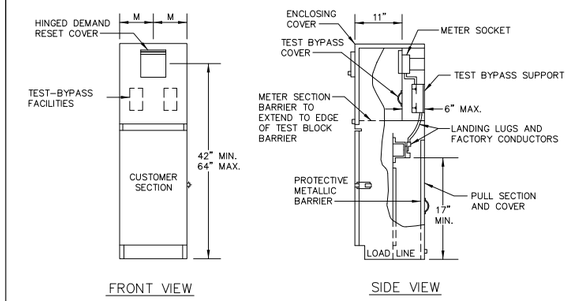
ELECTRICAL SITE PLAN & POWER ONE-LINE

HORZ SCALE: AS SHOWN	DATE: MAY. 2009	GRID: MOA4 MOA1	SHEET 5 of 7
VERT SCALE: AS SHOWN		MOA3 MOA2	
PROJ. ID. 000000XXXX (SWS)			

May 27, 2009 - 3:41pm
Drawing: P:\PROJECTS\HDR\ARL\DRWGS\ELEC\E1.DWG - Layout: E1
Xrefs: SWS_PLN-22X34.DWG TOPO BASE.DWG - Images:



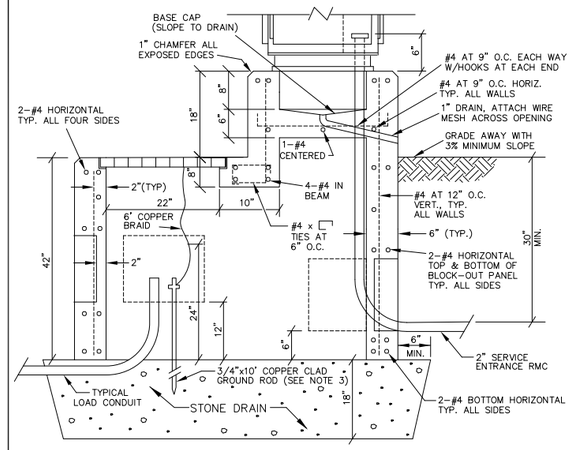
1 CONDUIT BURIAL SECTION
SCALE: NTS



MINIMUM DIMENSIONS

SERVICE	W	A
1 PHASE	10-1/2"	10"
3 PHASE	12-1/2"	

MUNICIPALITY OF ANCHORAGE	SCALE: NTS APPROVED: REVISED: 10-02-07	PAD-MOUNTED LOAD CENTER-TYPE 1	SECTION: 80.14 DETAIL #: 80-37

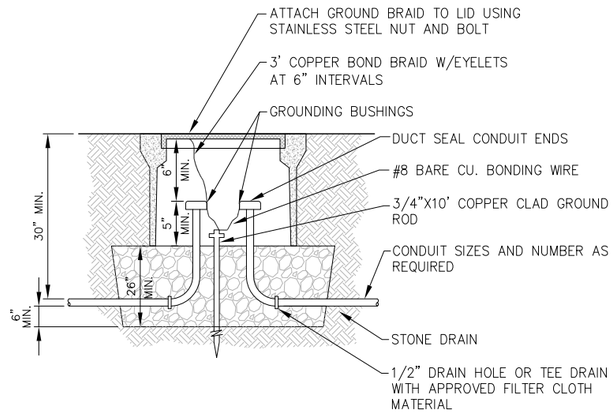


SECTION A-A

NOTES:

1. STOP HORIZ. & VERT. STEEL AT BLOCK-OUT PANELS & USE 90 HOOK. USE 2-#4 HORIZ. & VERT. EXTRA BARS ALL SIDES AS SHOWN.
2. SEE DETAIL 80-3 FOR PLAN VIEW.
3. ADD SECOND 3/4" x 10' GROUND ROD 10' FROM LOAD CENTER PER NEC.

MUNICIPALITY OF ANCHORAGE	SCALE: NTS APPROVED: REVISED: 06-04-02	SECTION A-A, TYPE 1 LOAD CENTER FOUNDATION	SECTION: 80.04 DETAIL #: 80-4



2 TYPE 1A JUNCTION BOX DETAIL
SCALE: NTS

LOAD CENTER "A" SUMMARY: TYPE 1 INSTALLATION

Load Center Location: STA "XX" xx+xx Offset xx.x'											Power Source: MEA					
Service: Three Phase, 4 Wire, 277/480V W/Gnd Neutral											Meter Socket Reqd. Y					
LOAD	Main Breakers			Contactor			Contactor Control				P. E. Control location:					
A	480 Volt	3 Poles	100 Amps								None					
B	480 Volt	2 Poles	40 Amps													

PANEL A - 277/480V

Pole	Amp/Trip	Description	kVA	AØ	BØ	CØ	kVA	Description	Amp/Trip	Pole
1	40/2	480:240V Transformer	0.0	3.7			3.7			2
3			0.0		3.7		3.7	Compactor #2	40/3	4
5			0.0			3.7	3.7			6
7	40/3	Compactor #1	3.7	7.4			3.7			8
9			3.7		7.4		3.7	Compactor #3	40/3	10
11			3.7			7.4	3.7			12
13			0.0	0.0			0.0			14
15			0.0		0.0		0.0			16
17			0.0			0.0	0.0			18
				11.1	11.1	11.1				

PANEL B - 120/240V

Pole	Amp/Trip	Description	kVA	AØ	BØ	kVA	Description	Amp/Trip	Pole
1	80/2	Main Circuit Breaker	0.0	2.9		2.9	Cash Booth	50/2	2
3			0.0		2.9	2.9			4
5			0.0	0.0		0.0			6
7			0.0		0.0	0.0			8
9			0.0	0.0		0.0			10
11			0.0		0.0	0.0			12
13			0.0	0.0		0.0			14
15			0.0		0.0	0.0			16
17			0.0	0.0		0.0			18
19			0.0		0.0	0.0			20
				2.9	2.9				

Total kVA=	39.1
Amps=	47.1

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EDC, INC.
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CONSULTANT

STATE OF ALASKA — 49TH — John H. Faschan — EE 8286 — REGISTERED PROFESSIONAL ENGINEER — 5/27/09

SEAL

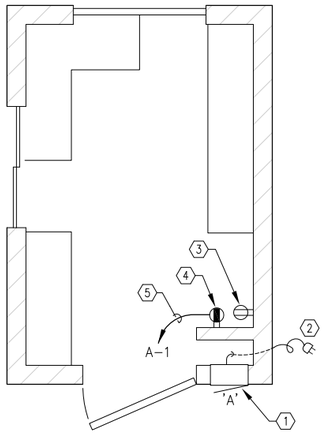
MUNICIPALITY OF ANCHORAGE SOLID WASTE SERVICES

MUNICIPALITY OF ANCHORAGE
SOLID WASTE SERVICES
ANCHORAGE REGIONAL LANDFILL
NEW RECYCLING AREA

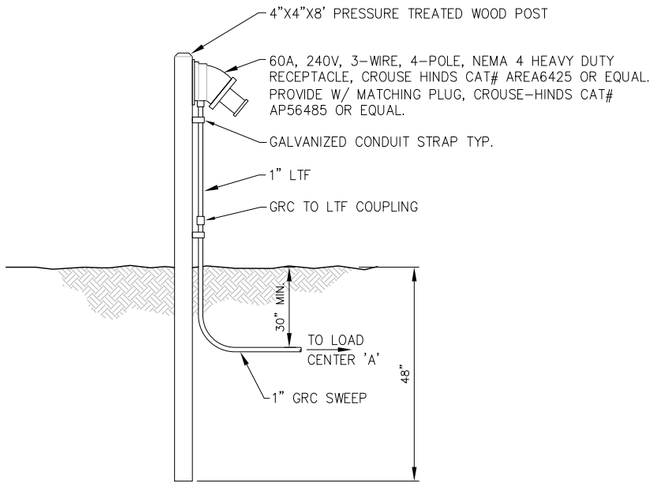
ELECTRICAL DETAILS AND PANEL SCHEDULE

HORZ SCALE: AS SHOWN VERT SCALE: AS SHOWN	DATE: MAY, 2009	GRID: MOA4 MOA1 MOA3 MOA2	SHEET 6 of 7
PROJ. ID. 000000XXXX (SWS)			

May 27, 2009 - 3:43pm
Drawing: P:\PROJECTS\HDR\ARL\DRWGS\ELEC\E1.DWG - Layout: E2
Xrefs: SWS_PLN-22X34.DWG TOPO BASE.DWG - Images:



1 CASH BOOTH ELECTRICAL PLAN
SCALE: NTS



2 CASH BOOTH RECEPTACLE POST DETAIL
SCALE: NTS

SHEET NOTES

1. EXISTING CASH BOOTH 120/240V, SQUARE D PANELBOARD 'A'. PROVIDE NEW 20A SINGLE POLE CIRCUIT BREAKER IN AVAILABLE SPACE FOR THE NEW INCINERATING TOILET.
2. REMOVE EXISTING CORD AND PLUG FEEDING THE CASH BOOTH PANELBOARD AND REPLACE W/ NEW CORD AND PLUG AS SHOWN ON THE ONE–LINE ON SHEET 5. PROVIDE LARGER PENETRATION FOR THE NEW CORD THROUGH THE FLOOR AS NECESSARY. SEAL AROUND FLOOR PENETRATION AND PROPERLY SECURE CORD.
3. EXISTING RECEPTACLE TO BE REMOVED. SPLICE TOGETHER CONDUCTORS TO MAINTAIN CIRCUIT FEEDING DOWNSTREAM RECEPTACLES. PROVIDE BLANK COVER FOR OUTLET BOX.
4. PROVIDE NEW 20A, 120V, GFCI RECEPTACLE FOR NEW INCINERATING TOILET. RECEPTACLE SHALL BE ON IT'S OWN DEDICATED CIRCUIT. CIRCUIT MAY BE RUN IN SURFACE MOUNTED EMT IN CHASE BEHIND PANELBOARD 'A'.
5. 1/2"C, 3#12 (H,N,G).

VERIFY SCALE — THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" ■ 1" IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. FULL SIZE SCALE HORZ.: NA VERT.: NA

DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY
BASE			TELEPHONE						
TOPOGRAPHY			ELECTRIC						
PROFILE			CABLE TV						
SANITARY SEWER			TRAFFIC SIGNAL						
STORM SEWER			DESIGN						
WATER			QUANTITIES						
GAS			MUN. FINAL CHECK						
PLAN CHECK				REVISIONS					

RECORD DRAWING — Note: To be filled out on original drawings upon project completion.

1. DATA PROVIDED BY: _____
   This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
   CONTRACTOR: _____
   BY: _____ TITLE: _____
   DATE: _____
2. DATA TRANSFERRED BY: _____
   COMPANY: _____
   DATE:
3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
   DATA TRANSFER CHECKED BY: _____
   COMPANY: _____
   BY: _____ TITLE: _____
   DATE: _____

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NEW RECYCLING AREA

ELECTRICAL DETAILS

HORZ SCALE: AS SHOWN
VERT SCALE: AS SHOWN
DATE: MAY, 2009
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PROJ. ID. 000000XXXX (SWS)
SHEET 7 of 7

May 27, 2009 - 3:42pm
Drawing: P:\PROJECTS\HDR\ARL\DRWGS\ELEC\E1.DWG - Layout: E3
Xrefs: SWS_PLN-22X34.DWG TOPO BASE.DWG - Images: