

Agency: Commerce, Community and Economic Development**Grants to Municipalities (AS 37.05.315)****Grant Recipient: Anchorage****Federal Tax ID: 92-0059987****Project Title:****Project Type: Remodel, Reconstruction and Upgrades****Anchorage - Bolin Street Area Storm Drain****State Funding Requested: \$2,500,000**
One-Time Need**House District: Anchorage Areawide (11-27)****Brief Project Description:**

This project will install/replace storm drain and resurface the local roads in the vicinity of Bolin Street. The decision has been made to replace the storm drain in Bolin, 4th, and Cherry Streets to connect with existing pipe large enough to handle the flows.

Funding Plan:

Total Project Cost:	\$3,300,000
Funding Already Secured:	(\$300,000)
FY2015 State Funding Request:	<u>(\$2,500,000)</u>
Project Deficit:	\$500,000

Funding Details:

\$225,000 in state grant funds and \$75,000 in local road bonds funded the design start. Municipal voters will be asked to approve another \$500,000 in the 2014 election.

Detailed Project Description and Justification:

This project will install/replace storm drain and resurface the local roads in the vicinity of Bolin Street. The decision has been made to replace the storm drain in Bolin, 4th, and Cherry Streets to connect with existing pipe large enough to handle the flows.

Design is underway. Project funding is from a combination of state grants and local road bonds. The homes on the eastern edge of the Municipal boundary are experiencing flooding due to a combination of high ground water and surface flow from military land. The existing drainage infrastructure is insufficient to handle the demand. Improvements to the ditch along the military boundary may also be included.

The grant funds may be used for planning, design, right-of-way acquisition, utility relocation, construction, and any other activity associated with replacing and installing the storm drains and resurfacing the roadways including curb repairs in the vicinity of Bolin Street.

Project Timeline:

Design expenditures are anticipated in 2014/2015. Construction expense is expected in 2015/2016.

Entity Responsible for the Ongoing Operation and Maintenance of this Project:

Municipality of Anchorage

Grant Recipient Contact Information:

Name:	Gary Jones
Title:	Capital Program Coordinator
Address:	PO Box 196650 Anchorage, Alaska 99502
Phone Number:	(907)343-8446
Email:	jonesgb@muni.org

Has this project been through a public review process at the local level and is it a community priority? Yes No

<i>For use by Co-chair Staff Only:</i>
11:54 AM 5/13/2014

4th & Bolin drainage damage







H:\jobs\12-012 MOA Civil Engineering Term Agreement\09-Spring Acres Sudv. Road and Drainage Improvements\03-Design\CAD\Drawings\12012-09_01-Cover_1=1_02/17/14 at 15:24 by CDB
LAYOUT: Model
VIEW: SHOT1_H_PDF_SHTD1_H_X7700, TCO1_F_D0800, TCO1_H_L5000, TCO1_H_X7700
XREF: 12005-08-B001

BOLIN STREET
PROJECT LOCATION



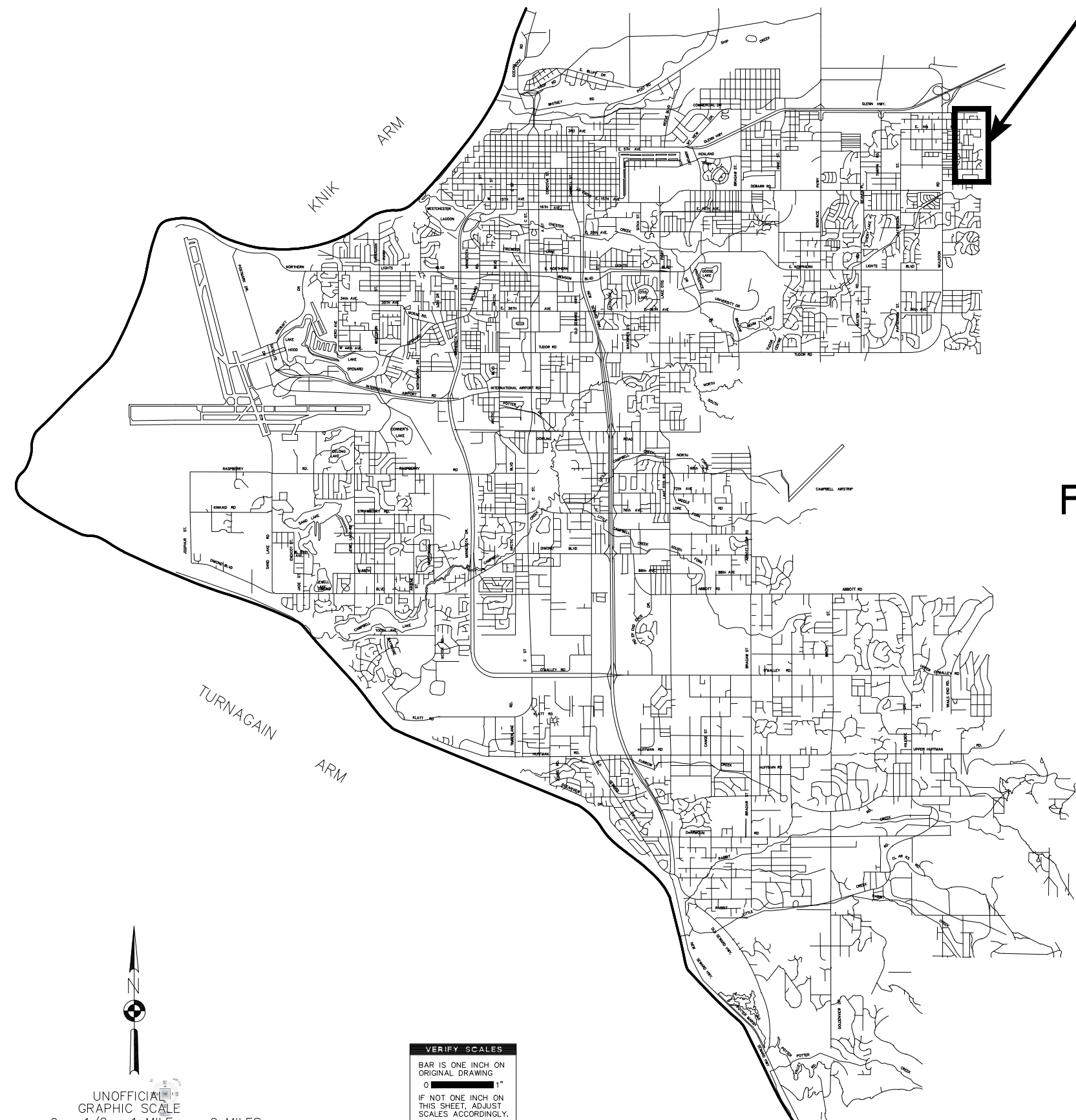
MUNICIPALITY OF ANCHORAGE
PROJECT MANAGEMENT AND ENGINEERING
DIVISION

BOLIN STREET
STORM DRAIN UPGRADE
Project 12-74

APPROVED BY:

DANIEL A. SULLIVAN
MAYOR

STEPHEN D. SHRADER, P.E.
ACTING MUNICIPAL ENGINEER



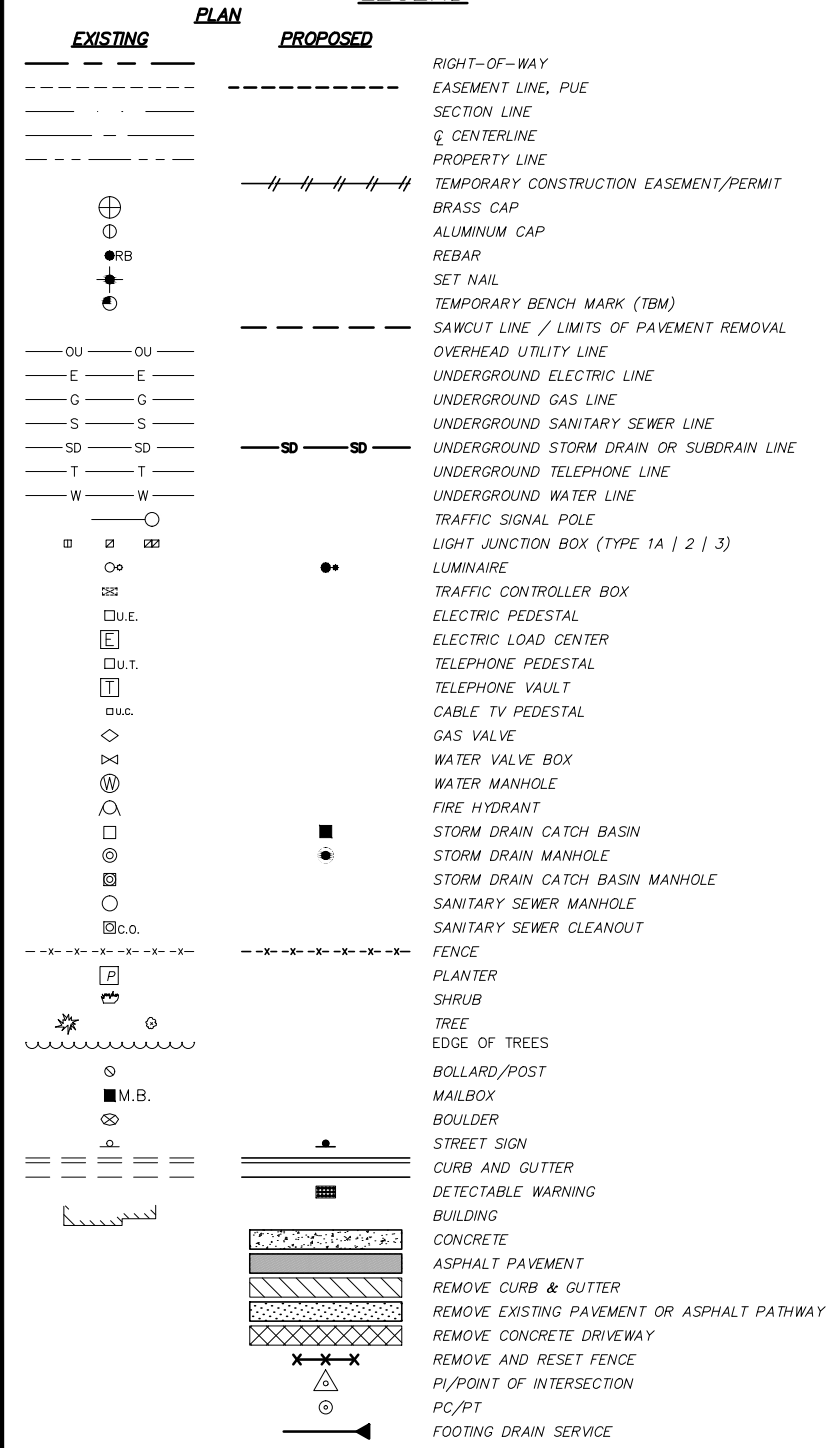
UNOFFICIAL
GRAPHIC SCALE
0 1/2 1 MILE 2 MILES

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

65% REVIEW SET - 2/14/14

FILE NO.-

LEGEND



DRAWING INDEX

- 1 TITLE SHEET
2 LEGEND, INDEX, GENERAL NOTES, AND ABBREVIATIONS
3 KEY MAP
4 SURVEY CONTROL DIAGRAM
5-7 ROW MAP
8-9 DEMOLITION PLAN
10-11 TYPICAL SECTIONS
12-14 PAVING UPGRADES
15-17 STORM DRAIN UPGRADES
18 DITCH UPGRADES
19-20 SIGNING PLAN

ABBREVIATIONS

- AC ASPHALT CONCRETE
ADDN ADDITION
ALCAP ALUMINUM CAP
APPROX APPROXIMATE
BG BELOW GRADE
BLK BLOCK
B.S.B.P. BUS STOP BOARDING PAD
C&G CURB & GUTTER
CL CENTERLINE
CB CATCH BASIN
CONC CONCRETE
CPEP CORRUGATED POLYETHYLENE PIPE
E EAST
E.A. EXPOSED AGGREGATE
E.J. EXPANSION JOINT
ELEC ELECTRIC
ELEV ELEVATION
ESMT EASEMENT
F&I FURNISH AND INSTALL
I.A.W. IN ACCORDANCE WITH
IN INCH
INV INVERT
LBS POUNDS
LOC LIP OF CURB
LT LEFT
M.A.S.S. MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS, STREETS-DRAINAGE-UTILITIES-PARKS, 2009 AS CURRENTLY AMENDED
MAX MAXIMUM
ME MATCH EXISTING
MEA MEASURED
MIN MINIMUM
MOA MUNICIPALITY OF ANCHORAGE
MON MONUMENT
MSL MEAN SEA LEVEL
N NORTH
NE NORTHEAST
NTS NOT TO SCALE
NW NORTHWEST
O.C.E.W. ON CENTER EACH WAY
PC POINT OF CURVATURE
PCC POINT OF CEMENT CURVATURE
P.C.C. PORTLAND CEMENT CONCRETE
PI POINT OF INTERSECTION
PT POINT OF TANGENCY
R RADIUS
REC RECORDED
REQ'D REQUIRED
RP RADIUS POINT
RT RIGHT
S SOUTH
SD STORM DRAIN
SDMH STORM DRAIN MANHOLE
SE SOUTHEAST
SFC STEEL FACED CURB
STA STATION
STD. DTL. STANDARD DETAIL FOUND IN DIVISION 90, M.A.S.S. 2009
SUBD SUBDIVISION
SW SOUTHWEST
TBC TOP BACK OF CURB
TELE TELEPHONE
TRA TRANSITION
TYP TYPICAL
W WEST/WHITE
Y YELLOW
(30') DIMENSION FROM RECORD DRAWINGS
A DETAIL AND SHEET NUMBER FOR DETAIL

GENERAL NOTES

- 1. CONTRACTOR SHALL COMPLETE CONSTRUCTION IN ACCORDANCE WITH THE MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS, REVISION 3, DATED 2009 HEREAFTER REFERRED TO AS M.A.S.S.
2. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO BEGINNING CONSTRUCTION. THE PERMITS SHALL BE MAINTAINED AT THE JOB SITE.
3. IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES AND M.A.S.S. GENERAL PROVISIONS, THE CONTRACTOR SHALL HAVE SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS, SUBCONTRACTORS, SUPPLIERS, PROPERTY, AND TRAFFIC SAFETY. THE CONTRACTOR SHALL ALSO HAVE SOLE AND COMPLETE RESPONSIBILITY OF STORM WATER MANAGEMENT. THESE REQUIREMENTS SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
4. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, STATE AND FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS (OSHA), AND ALL OTHER FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS PERTAINING TO THIS PROJECT. ANY WORK PERFORMED BY THE CONTRACTOR CONTRARY TO SUCH LAWS OR REGULATIONS SHALL BE AT THE CONTRACTOR'S SOLE RISK AND EXPENSE.
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LAYOUT PRIOR TO PROCEEDING WITH THE WORK. ANY DISCREPANCY IN THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
6. CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT (ROADS, PARKING AREAS, DRIVEWAYS, ETC.) TO A LINE 2 FEET BEYOND THE PROPOSED IMPROVEMENTS, AND MORE IF NECESSARY, DURING THE INITIAL EXCAVATION OPERATIONS. IF EXISTING PAVEMENT HAS BEEN LIFTED, IF EDGE DOES NOT OCCUR IN UNDISTURBED MATERIAL, OR IF EDGE IS LOCATED WITHIN A TRAVEL LANE, FURTHER REMOVAL MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, TO PROVIDE A PROPER TRANSITION BETWEEN NEW AND EXISTING PAVEMENT. SAW CUTTING OF EXISTING PAVEMENT IS INCIDENTAL TO THE BID ITEM "REMOVE EXISTING PAVEMENT", AND NO SEPARATE PAYMENT SHALL BE MADE.
7. CONTRACTOR SHALL SAWCUT CURB & GUTTER AND SIDEWALK AT THE NEAREST JOINT AT OR BEYOND REMOVAL LIMITS OR AS DIRECTED BY THE ENGINEER. SAWCUTTING IS INCIDENTAL TO THE RESPECTIVE BID ITEM. CONTRACTOR SHALL REMOVE ORGANIC MATERIAL FROM THE SUBGRADE TO A DEPTH TO BE DETERMINED BY THE ENGINEER. CONTRACTOR SHALL NOT PLACE OR SHALL NOT OTHERWISE UTILIZE ORGANIC MATERIAL OR OTHER DELETERIOUS MATERIAL FOR BACKFILL, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
8. CONTRACTOR SHALL APPLY TACK COAT TO THE SAW CUT ASPHALT OR CURB FACE PRIOR TO PAVING.
9. CONTRACTOR SHALL REMOVE ORGANIC MATERIAL FROM THE SUBGRADE TO A DEPTH TO BE DETERMINED BY THE ENGINEER. CONTRACTOR SHALL NOT PLACE OR SHALL NOT OTHERWISE UTILIZE ORGANIC MATERIAL OR OTHER DELETERIOUS MATERIAL FOR BACKFILL, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
10. WORK AND MATERIALS REQUIRED FOR REMOVING LITTER OR DEBRIS THAT EXISTS WITHIN THE PROJECT LIMITS IS INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE.
11. CONTRACTOR SHALL MAINTAIN "REDLINE" RECORD DRAWINGS ON A CLEAN SET OF CONSTRUCTION DRAWINGS IN ACCORDANCE WITH M.A.S.S. DIVISION 65.00 CONSTRUCTION SPECIFICATIONS FOR MUNICIPAL CONSTRUCTION SURVEYS. THE CONTRACTOR SHALL MAINTAIN THE "REDLINES" CURRENT ON A DAILY BASIS WHICH SHALL BE AVAILABLE TO THE ENGINEER FOR INSPECTION ON THE JOB SITE.
12. CONTRACTOR SHALL RECORD SURVEY NOTES FOR SUBMITTAL WITH RECORD DRAWINGS, INCLUDING HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD. CONTRACTOR SHALL RECORD ALL DEVIATIONS FROM THE PLANS AND SUBMIT DAILY SURVEY NOTES TO THE ENGINEER.
13. CONSTRUCTION OPERATIONS REQUIRED FOR THIS PROJECT SHALL REMAIN WITHIN EXISTING MOA RIGHTS-OF-WAY AND EASEMENTS, UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER AND THE AFFECTED PROPERTY OWNER.
14. LOCATIONS DEPICTED FOR THE UTILITIES AND OTHER EXISTING FEATURES ARE APPROXIMATE. SOME UTILITIES HAVE BEEN LOCATED FROM RECORD DRAWINGS AND UTILITY COMPANY LOCATES. CONTRACTOR SHALL LOCATE AND VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.
15. UNDERGROUND ELECTRICAL AND TELECOMMUNICATION LINES OCCUR WITHIN THE PROJECT AREA; CONTRACTOR SHALL COORDINATE WORK ACCORDINGLY. ALL WORK IN CLOSE PROXIMITY TO EXISTING UNDERGROUND LINES SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL STATUTES, CODES AND GUIDELINES, AND THE ELECTRICAL FACILITY CLEARANCE REQUIREMENTS OF THE GOVERNING UTILITY. CONTRACTOR SHALL HAND DIG WITHIN TWO FEET OF BURIED ELECTRICAL CABLE.
16. CONTRACTOR SHALL REPLACE ALL DISTURBED PROPERTY CORNERS IN ACCORDANCE WITH M.A.S.S. SECTION 65.02 CONSTRUCTION SURVEYING, ARTICLE 2.1 PROJECT CONTROL. PAYMENT FOR REPLACING DISTURBED PROPERTY CORNERS IS INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.
17. CONTRACTOR SHALL RESTORE DISTURBED PROPERTY TO PRE-CONSTRUCTION CONDITION(S), UNLESS OTHERWISE DIRECTED BY THE ENGINEER. RESTORING DISTURBED PROPERTY IS INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.
18. CONTRACTOR SHALL MAINTAIN STOP SIGNS AND STREET SIGNS OPERATIONAL IN THE PROJECT AREA DURING CONSTRUCTION.
19. CONTRACTOR SHALL TOPSOIL AND SEED ALL AREAS DISTURBED AND NOT OTHERWISE IMPROVED.
20. WORK AND MATERIALS REQUIRED FOR RAISING WATER VALVES, MANHOLES, AND CLEANOUTS TO GRADE IS INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE.
21. CONTRACTOR SHALL RECONSTRUCT DRIVEWAYS I.A.W. M.A.S.S. STD DTL 20-7. REPLACE DRIVEWAY SURFACE WITH LIKE MATERIALS OR AS DIRECTED BY THE ENGINEER. PAYMENT FOR DRIVEWAY RECONSTRUCTION IS PURSUANT TO M.A.S.S. SECTION 20.28 "RECONSTRUCT DRIVEWAY" AND NO SEPARATE PAYMENT SHALL BE MADE.
22. TERMINATE ROADWAY EXCAVATION WITH MINIMUM 1:1 LONGITUDINAL SLOPE.
23. EXISTING LIGHT POLE FOUNDATIONS MAY BE EXPOSED DURING ROADWAY EXCAVATION. CONTRACTOR SHALL SHORE LIGHT POLES AS REQUIRED AND TAKE NECESSARY PRECAUTIONS TO ENSURE LIGHT POLE FOUNDATIONS ARE NOT DAMAGED DURING CONSTRUCTION. SHORING OF UTILITY POLES IS INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENTS SHALL BE MADE.
24. REMOVE AND RESET MAILBOXES AS NECESSARY TO COMPLETE PROJECT. REMOVAL AND RESETTING OF MAILBOXES SHALL BE I.A.W. M.A.S.S. SECTION 70.17.

STORM DRAIN NOTES

- 1. CONSTRUCT CATCH BASINS I.A.W. STD. DTL. 55-22.
2. CONSTRUCT STORM DRAIN MANHOLES I.A.W. STD. DTL. 55-4.
3. CONTRACTORS SHALL FURNISH AND INSTALL INSULATION BOARD (R-20) BETWEEN THE STORM DRAIN IMPROVEMENTS AND THE WATER AND SANITARY SEWER UTILITIES, WHEN HORIZONTAL OR VERTICAL CLEARANCE IS LESS THAN THREE (3) FEET FROM THE OUTSIDE OF THE PIPE (FOR MANHOLE) TO OUTSIDE OF PIPE (OR MANHOLE); HORIZONTAL OR VERTICAL SEPARATION BETWEEN STORM DRAIN AT WATER LINES SHALL NOT BE LESS THAN 18 INCHES. INSTALL INSULATION BOARD I.A.W. M.A.S.S. STD. DTL. 60-12. INSULATION SHALL BE PAID UNDER SECTION 20.26 INSULATION BOARD (R-20), UNLESS NOTED OTHERWISE IN PLANS.
4. PLACE STORM DRAIN PIPE JOINTS AT LEAST 9 FT FROM WATER LINE CROSSING.
5. INSTALL 4" EXTRUDED RIGID BOARD INSULATION (R-20) AT ALL SANITARY SEWER CROSSINGS. INSULATION SHALL BE FULL WIDTH OF STORM DRAIN TRENCH AND SHALL EXTEND AT LEAST 4' BEYOND EDGE OF SEWER PIPE IN BOTH DIRECTIONS.
6. PIPE CONNECTIONS ARE PAID PURSUANT TO M.A.S.S. SECTION 55.04 AND NO SEPARATE PAYMENT SHALL BE MADE.

CALL BEFORE YOU DIG (SEE GENERAL NOTE 13)

THE CONTRACTOR SHALL NOTIFY AREA UTILITY COMPANIES PRIOR TO COMMENCEMENT OF EXCAVATION. THE FOLLOWING IS A PARTIAL LIST:
LOCATE CALL CENTER OF ALASKA 278-3121
(INCLUDES ACS, AWWU, CEA, ENG, BUTLER AVIATION/TESORO, GCI CABLE, MLP, TRAFFIC SIGNALS, MOA STORM/STREETS, AND ALASKA FIBER STAR.)
STATE STORM/STREET LIGHTS 333-2411
MILITARY PETROLEUM LINES 862-4112

H:\jobs\12-012 MOA Civil Engineering Term Agreement\09-Spring Road and Drainage Improvements\03-Design\CAD\Drawings\12012-09-02-Notes, 1=1, 02/17/14 at 15:24 by CDB

Table with columns: FIELD BOOKS, BM NO., LOCATION, ELEV., DATA, DRAWN BY, CHECKED BY, DATA, DRAWN BY, CHECKED BY, REV, DATE, DESCRIPTION, BY, REV, DATE, DESCRIPTION, BY.

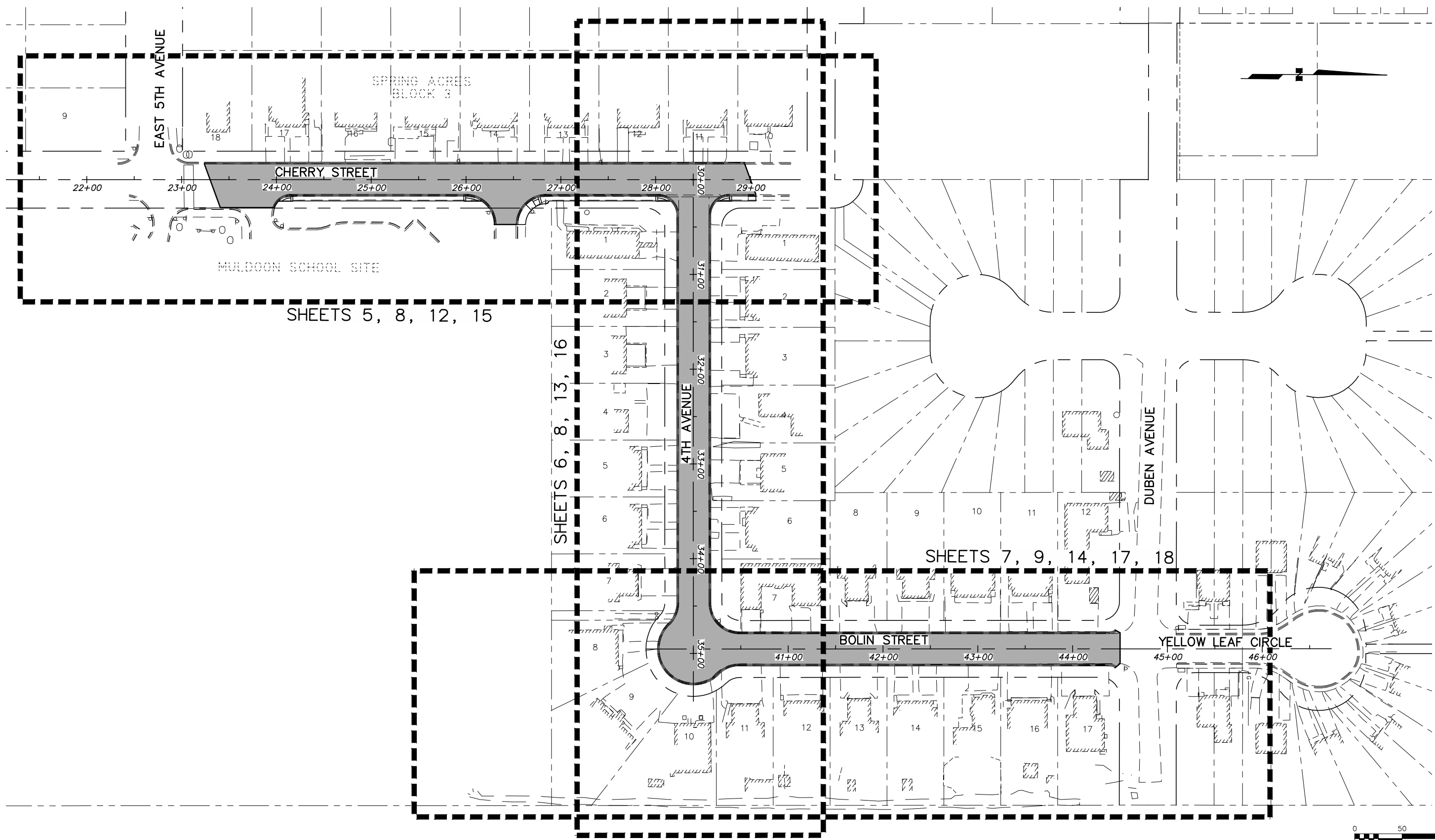
HDI HATTENBURG DILLEY & LINNELL Engineering Consultants logo and address.

STATE OF ALASKA 49th DENNIS R. LINNELL No. CE 7649 REGISTERED PROFESSIONAL ENGINEER logo.

MUNICIPALITY OF ANCHORAGE logo.

PUBLIC WORKS DEPARTMENT PROJECT MANAGEMENT AND ENGINEERING 12-74 BOLIN STREET STORM DRAIN UPGRADE LEGEND, INDEX, GENERAL NOTES AND ABBREVIATIONS SCALE: HOR. 1"=NTS DATE: 2014 GRIDS: SW1241 SHEET 2 of 20

H:\Jobs\12-012 MOA Civil Engineering Term Agreement\09-Spring Acres Sudw. Road and Drainage Improvements\03-Design\CAD\Drawings\12012-09-03-keymap, 1=50, 02/17/14 at 15:28 by CDB
 LAYOUT: KEYMAP
 VIEW: SH103_H_PDF_SHT03_H_X7700
 XREF: 12012-09-BASE, 12012-09-ROW, 12012-09-X01, 12012-09-BD01

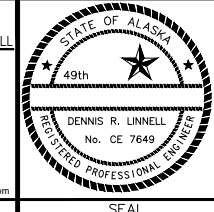


FIELD BOOKS	BM NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY	REV	DATE	DESCRIPTION	BY
DESIGN: HDL 12-005 MOA	NAME		ELEV.	BASE			TELEPHONE										
STAKING:				TOPOGRAPHY			ELECTRIC										
ASBUILT:				PROFILE			CABLE TV										
CONTRACTOR:				SANITARY SEWER			DESIGN										
INSPECTOR:				STORM SEWER			QUANTITIES										
				WATER			MUN. FINAL CHECK										
				GAS													
CONSTRUCTION RECORD				VERTICAL DATUM				PLAN CHECK				REVISIONS					

HDL
HATTENBURG DILLEY & LINNELL
 Engineering Consultants

- ENGINEERING
- SURVEYING
- PROJECT MANAGEMENT
- EARTH SCIENCE
- PLANNING
- ENVIRONMENTAL

3335 Arctic Blvd, Suite 100
 Anchorage, AK 99503
 (907) 564-2120 www.HDLalaska.com



PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING

12-74 BOLIN STREET STORM DRAIN UPGRADE ALL SCH

KEY MAP

SCALE: HOR. 1"=50' DATE: 2014 GRIDS: SW1241 SHEET **3** of **20**
 VER. 1"=N/A ACCT. NO.

FILE NO. -

SURVEY CONTROL DIAGRAM BY OTHERS

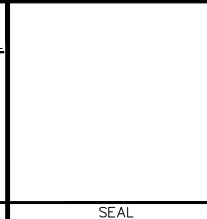
H:\Jobs\12-012 MOA Civil Engineering Term Agreement\09-Spring Acres Sudw. Road and Drainage Improvements\03-Design\CAD\Drawings\2012-09_04-CONTROL_1=1_02/17/14 at 15:29 by CDB
 LAYOUT: Model
 VIEW: SHOT4_PDF_SHT04_H_X7700
 XREF: 12012_09_BD01

FIELD BOOKS	BM NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY	REV	DATE	DESCRIPTION	BY
DESIGN:	NAME	-	ELEV	BASE	-	-	TELEPHONE	-	-								
STAKING:				TOPOGRAPHY	-	-	ELECTRIC	-	-								
ASBUILT:				PROFILE	-	-	CABLE TV	-	-								
				SANITARY SEWER	-	-	DESIGN	-	-								
				STORM SEWER	-	-	QUANTITIES	-	-								
CONTRACTOR:	BASIS OF DATUM:		-	WATER	-	-	MUN. FINAL CHECK	-	-								
INSPECTOR:				GAS	-	-		-	-								
CONSTRUCTION RECORD	VERTICAL DATUM			PLAN CHECK				REVISIONS				SEAL	SEAL				

HDL
HATTENBURG DILLEY & LINNELL
 Engineering Consultants

- ENGINEERING
- SURVEYING
- PROJECT MANAGEMENT
- EARTH SCIENCE
- PLANNING
- ENVIRONMENTAL

3335 Arctic Blvd, Suite 100
 Anchorage, AK 99503
 (907) 564-2120 www.HDLalaska.com



PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING

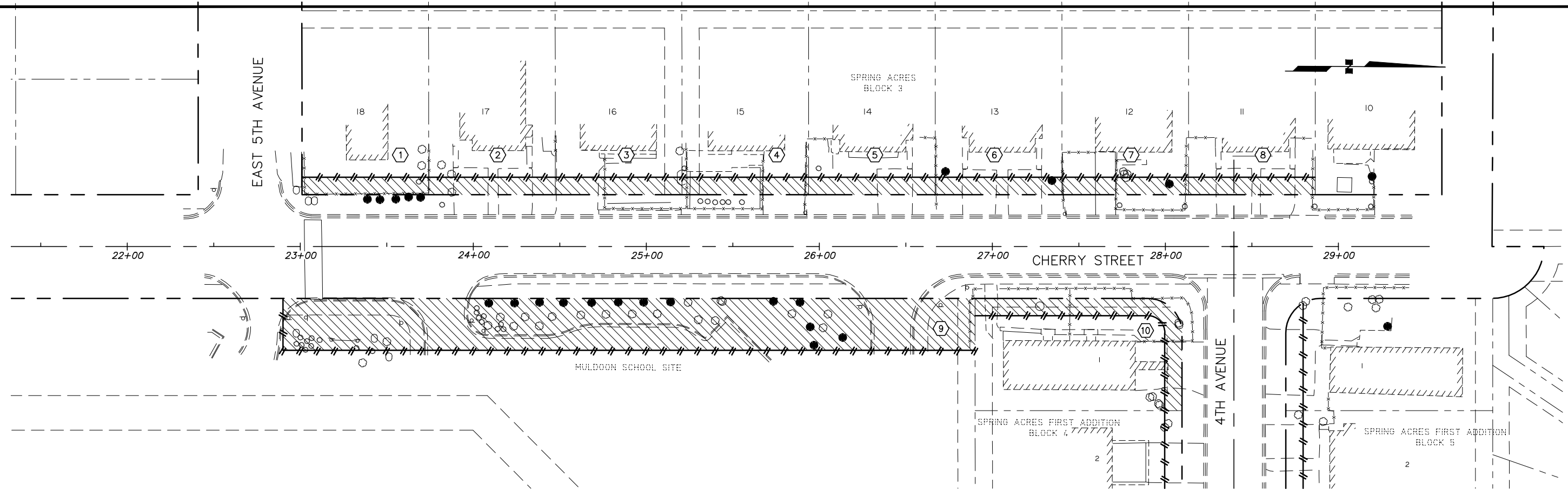
12-74 BOLIN STREET STORM DRAIN UPGRADE

SURVEY CONTROL DIAGRAM

SCALE: HOR. 1"=NTS	DATE: 2014	GRIDS: SW1241	SHEET 4 of 20
VER. 1"=NTS	ACCT. NO.		

FILE NO.-

H:\jobs\12-012 MOA Civil Engineering Term Agreement\09-Spring Acres Sudw. Road and Drainage Improvements\03-Design\CAD\Drawings\2012-09-05-07-ROWMAP_1=30_02/17/14 at 10:54 by CDB
 LAYOUT: ROWMAP - CHERRY
 VIEW: SHT05_H_X7700_SHT05_H_X7700_SHT06_H_X7700_SHT06_H_X7700_SHT07_H_X7700_SHT07_H_X7700
 XREF: 12012_09-BASE; 12012_09-ROW; 12012_09-X01; 12012_09-BD01

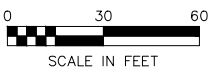


PARCEL NO.	LEGAL DESCRIPTION	TYPE
①	LOT 18, BLOCK 3, SPRING ACRES	
②	LOT 17, BLOCK 3, SPRING ACRES	
③	LOT 16, BLOCK 3, SPRING ACRES	
④	LOT 15, BLOCK 3, SPRING ACRES	
⑤	LOT 14, BLOCK 3, SPRING ACRES	
⑥	LOT 13, BLOCK 3, SPRING ACRES	
⑦	LOT 12, BLOCK 3, SPRING ACRES	
⑧	LOT 11, BLOCK 3, SPRING ACRES	
⑨	MULDOON SCHOOL SITE	
⑩	LOT 1, BLOCK 4, SPRING ACRES FIRST ADDITION	

LEGEND

PROPOSED LIMITS OF TEMPORARY CONSTRUCTION PERMIT. (THIS SHEET ONLY)

PARCEL NUMBER

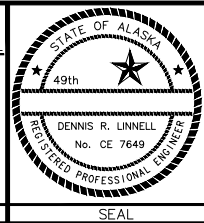


FIELD BOOKS	BM NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY	REV	DATE	DESCRIPTION	BY
DESIGN: HDL 12-005 MOA	NAME		ELEV.	BASE			TELEPHONE										
STAKING:				TOPOGRAPHY			ELECTRIC										
ASBUILT:				PROFILE			CABLE TV										
CONTRACTOR:				SANITARY SEWER			DESIGN										
INSPECTOR:				STORM SEWER			QUANTITIES										
				WATER			MUN. FINAL CHECK										
				GAS													
CONSTRUCTION RECORD				VERTICAL DATUM				PLAN CHECK				REVISIONS					

HDL
HATTENBURG DILLEY & LINNELL
 Engineering Consultants

- ENGINEERING
- SURVEYING
- PROJECT MANAGEMENT
- EARTH SCIENCE
- PLANNING
- ENVIRONMENTAL

3335 Arctic Blvd, Suite 100
 Anchorage, AK 99503
 (907) 564-2120 www.HDLalaska.com



PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING

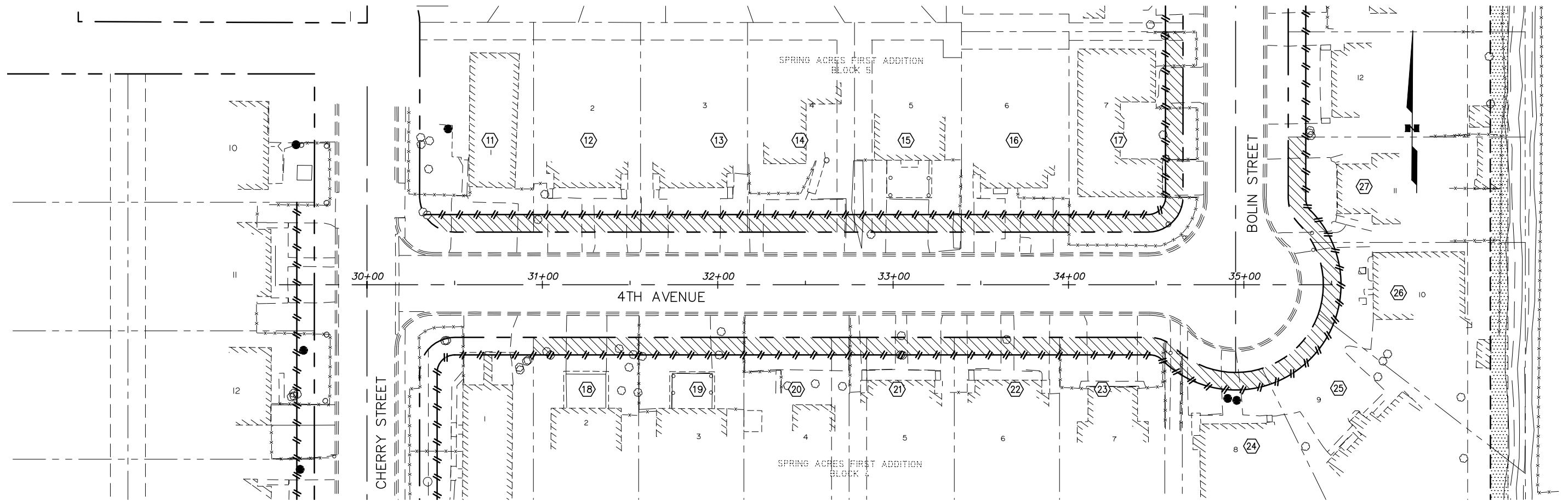
12-74 BOLIN STREET STORM DRAIN UPGRADE

ROW MAP
CHERRY STREET

SCALE: HOR. 1"=30' DATE: 2014 GRIDS: SW1241 SHEET 5 of 20
 VER. 1"=N/A ACCT. NO.

FILE NO.-

H:\Jobs\12-012 MOA Civil Engineering Term Agreement\09-Spring Acres Sudw. Road and Drainage Improvements\03-Design\CAD\Drawings\12012-09-05-07-ROWMAP_1=30_02/17/14 at 10:54 by CDB
 LAYOUT: ROWMAP - 4TH AVE
 VIEW: SH105_H_PDF_SHT05_H_X7700_SHT06_H_PDF_SHT06_H_X7700_SHT07_H_PDF_SHT07_H_X7700
 XREF: 12012-09-BASE_12012-09-ROW_12012-09-X01_12012-09-6D01



PARCEL NO.	LEGAL DESCRIPTION	TYPE
11	LOT 1, BLOCK 5, SPRING ACRES FIRST ADDITION	
12	LOT 2, BLOCK 5, SPRING ACRES FIRST ADDITION	
13	LOT 3, BLOCK 5, SPRING ACRES FIRST ADDITION	
14	LOT 4, BLOCK 5, SPRING ACRES FIRST ADDITION	
15	LOT 5, BLOCK 5, SPRING ACRES FIRST ADDITION	
16	LOT 6, BLOCK 5, SPRING ACRES FIRST ADDITION	
17	LOT 7, BLOCK 5, SPRING ACRES FIRST ADDITION	
18	LOT 2, BLOCK 4, SPRING ACRES FIRST ADDITION	
19	LOT 3, BLOCK 4, SPRING ACRES FIRST ADDITION	
20	LOT 4, BLOCK 4, SPRING ACRES FIRST ADDITION	
21	LOT 5, BLOCK 4, SPRING ACRES FIRST ADDITION	
22	LOT 6, BLOCK 4, SPRING ACRES FIRST ADDITION	
23	LOT 7, BLOCK 4, SPRING ACRES FIRST ADDITION	
24	LOT 8, BLOCK 4, SPRING ACRES FIRST ADDITION	
25	LOT 9, BLOCK 4, SPRING ACRES FIRST ADDITION	
26	LOT 10, BLOCK 4, SPRING ACRES FIRST ADDITION	
27	LOT 11, BLOCK 4, SPRING ACRES FIRST ADDITION	

LEGEND

PROPOSED LIMITS OF TEMPORARY CONSTRUCTION PERMIT. (THIS SHEET ONLY)

PARCEL NUMBER

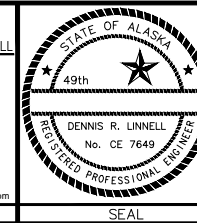


FIELD BOOKS	BM NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY	REV	DATE	DESCRIPTION	BY
DESIGN: HDL 12-005 MOA	NAME		ELEV.	BASE			TELEPHONE										
STAKING:				TOPOGRAPHY			ELECTRIC										
ASBUILT:				PROFILE			CABLE TV										
CONTRACTOR:	BASIS OF DATUM:			SANITARY SEWER			DESIGN										
INSPECTOR:				STORM SEWER			QUANTITIES										
				WATER			MUN. FINAL CHECK										
				GAS													

HDL
HATTENBURG DILLEY & LINNELL
 Engineering Consultants

- ENGINEERING
- SURVEYING
- PROJECT MANAGEMENT
- EARTH SCIENCE
- PLANNING
- ENVIRONMENTAL

3335 Arctic Blvd, Suite 100
 Anchorage, AK 99503
 (907) 564-2120 www.HDLalaska.com



PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING

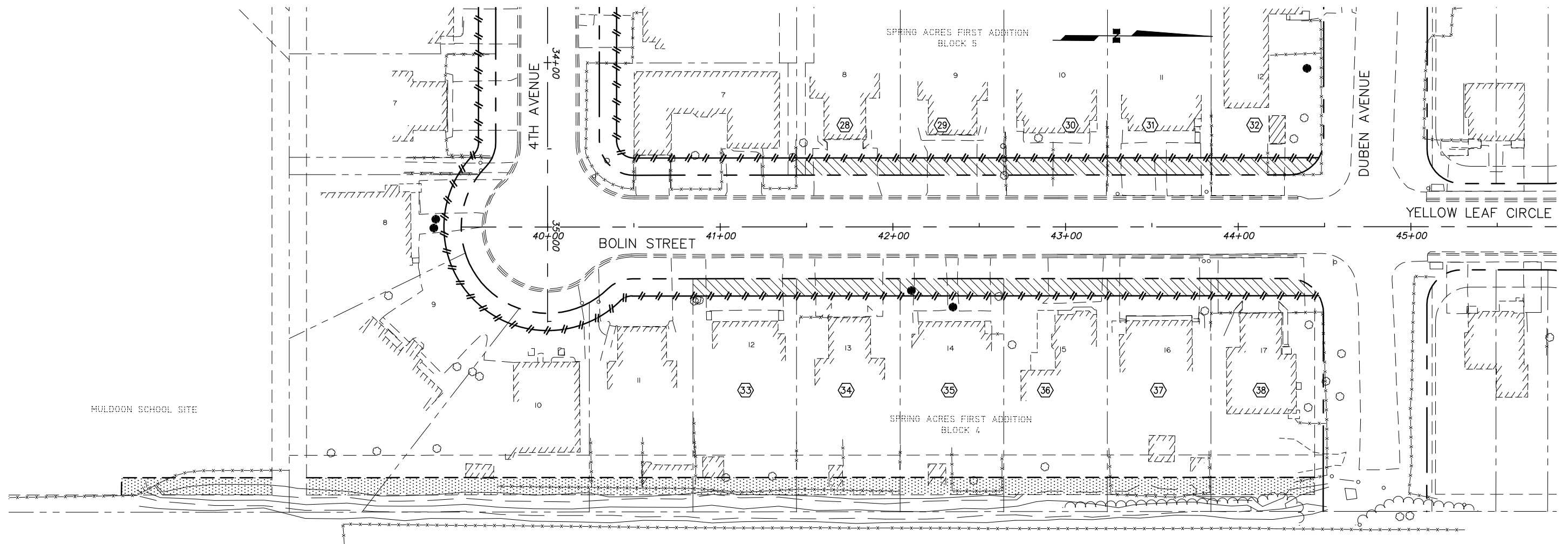
12-74 BOLIN STREET STORM DRAIN UPGRADE

ROW MAP
4TH AVENUE

SCALE: HOR. 1"=30' DATE: 2014 GRIDS: SW1241 SHEET **6** of **20**
 VER. 1"=N/A ACCT. NO.

FILE NO. -

H:\Jobs\12-012 MOA Civil Engineering Term Agreement\09-Spring Acres Sudw. Road and Drainage Improvements\03-Design\CAD\Drawings\12012-09-05-07-ROWMAP_1=30_02/17/14 at 10:54 by CDB
 LAYOUT: ROWMAP - BOLIN
 VIEW: SH105_H_X7700_PDF, SH105_H_X7700, SH106_H_X7700, SH106_H_X7700, SH107_H_PDF, SH107_H_X7700
 XREF: 12012-09-BASE, 12012-09-ROW, 12012-09-X01, 12012-09-SD01



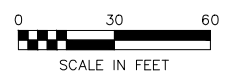
PARCEL NO.	LEGAL DESCRIPTION	TYPE
28	LOT 8, BLOCK 5, SPRING ACRES FIRST ADDITION	
29	LOT 9, BLOCK 5, SPRING ACRES FIRST ADDITION	
30	LOT 10, BLOCK 5, SPRING ACRES FIRST ADDITION	
31	LOT 11, BLOCK 5, SPRING ACRES FIRST ADDITION	
32	LOT 12, BLOCK 5, SPRING ACRES FIRST ADDITION	
33	LOT 12, BLOCK 4, SPRING ACRES FIRST ADDITION	
34	LOT 13, BLOCK 4, SPRING ACRES FIRST ADDITION	
35	LOT 14, BLOCK 4, SPRING ACRES FIRST ADDITION	
36	LOT 15, BLOCK 4, SPRING ACRES FIRST ADDITION	
37	LOT 16, BLOCK 4, SPRING ACRES FIRST ADDITION	
38	LOT 17, BLOCK 4, SPRING ACRES FIRST ADDITION	

LEGEND

PROPOSED LIMITS OF TEMPORARY CONSTRUCTION PERMIT. (THIS SHEET ONLY)

PROPOSED EASEMENT (THIS SHEET ONLY)

PARCEL NUMBER

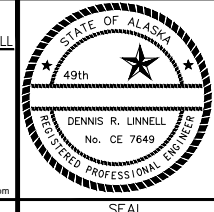


FIELD BOOKS	BM NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY	REV	DATE	DESCRIPTION	BY
DESIGN: HDL 12-005 MOA	NAME		ELEV.	BASE			TELEPHONE										
STAKING:				TOPOGRAPHY			ELECTRIC										
ASBUILT:				PROFILE			CABLE TV										
CONTRACTOR:	BASIS OF DATUM:			SANITARY SEWER			DESIGN										
INSPECTOR:				STORM SEWER			QUANTITIES										
				WATER			MUN. FINAL CHECK										
				GAS													

HDL
HATTENBURG DILLEY & LINNELL
 Engineering Consultants

- ENGINEERING
- SURVEYING
- PROJECT MANAGEMENT
- EARTH SCIENCE
- PLANNING
- ENVIRONMENTAL

3335 Arctic Blvd, Suite 100
 Anchorage, AK 99503
 (907) 564-2120 www.HDLalaska.com



PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING

12-74 BOLIN STREET STORM DRAIN UPGRADE

ROW MAP
BOLIN STREET

SCALE: HOR. 1"=30' DATE: 2014 GRIDS: SW1241 SHEET 7 of 20
 VER. 1"=N/A ACCT. NO.

FILE NO. -