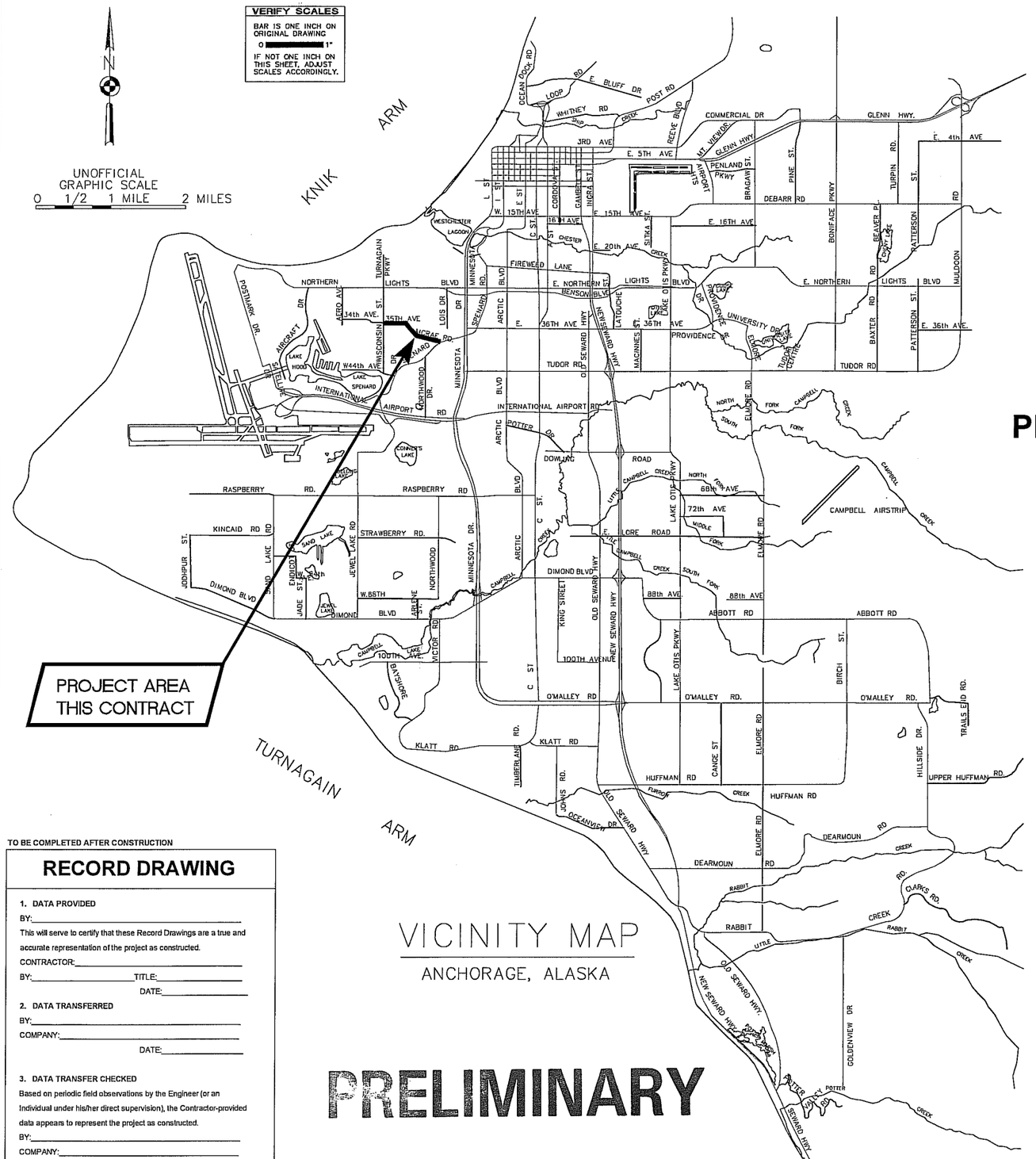

VICINITY MAP

ANCHORAGE, ALASKA

PRELIMINARY

TO BE COMPLETED AFTER CONSTRUCTION

RECORD DRAWING

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. DATA TRANSFER CHECKED

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.

BY:_____

COMPANY:_____

BY:_____ TITLE:_____

DATE:_____

ANCHORAGE ALASKA

ANCHORAGE WATER & WASTEWATER UTILITY
AWWU
MUNICIPALITY OF ANCHORAGE

AWWU PLAN SET NO. 9540 (W)
AND 9491 (S)

MUNICIPALITY OF ANCHORAGE
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT & ENGINEERING DIVISION

35TH AVENUE AND McRAE ROAD IMPROVEMENTS
WISCONSIN STREET TO SPENARD ROAD
PM&E PROJECT NUMBER: 03-09
AWWU PROJECT NUMBERS: 0000005687 & 0000006105

FEBRUARY 2012
95% DESIGN

PREPARED BY:

CRW ENGINEERING GROUP, LLC

APPROVED BY:

Daniel A Sullivan

DAN SULLIVAN
MAYOR

BETTISWORTH NORTH
ARCHITECTS AND PLANNERS

HDR
HDR Engineering, Inc.

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

SHEET INDEX

SHEET NO.	DESCRIPTION	WORK SCHEDULE
GENERAL		
G1		ALL
G2	INDEX	ALL
G3	GENERAL NOTES	ALL
G4	LEGEND & ABBREVIATIONS	ALL
G5	KEY MAP	ALL
G6	SURVEY CONTROL AND ROW MAP	ALL
G7	SURVEY CONTROL AND ROW MAP	ALL
G8	SURVEY CONTROL AND ROW MAP	ALL
G9	SURVEY CONTROL AND ROW MAP	ALL
G10	SURVEY CONTROL AND ROW MAP	
G11	SURVEY CONTROL AND ROW MAP	
DEMOLITION		
B1	DEMOLITION PLAN – WEST 35TH AVENUE BOP TO STA 28+00	ALL
B2	DEMOLITION PLAN – WEST 35TH AVENUE & McRAE ROAD STA 28+00 TO STA 36+00	ALL
B3	DEMOLITION PLAN – McRAE ROAD STA 36+00 TO STA 43+50	ALL
B4	DEMOLITION PLAN – McRAE ROAD STA 43+50 TO STA 52+50	ALL
B5	DEMOLITION PLAN – McRAE ROAD STA 52+50 TO EOP	ALL
B6	DEMOLITION SUMMARY	ALL
B7	DEMOLITION SUMMARY	ALL
B8	DEMOLITION SUMMARY	ALL
CROSS SECTIONS		
C1	TYPICAL SECTIONS	A
C2	TYPICAL SECTIONS	A
C3	TYPICAL SECTIONS	A
C4	TYPICAL SECTIONS	A
ROADWAY		
R1	ROADWAY IMPROVEMENTS – WEST 35TH AVENUE BOP TO STA 28+00	A
R2	ROADWAY IMPROVEMENTS – WEST 35TH AVENUE & McRAE ROAD STA 28+00 TO STA 36+00	A
R3	ROADWAY IMPROVEMENTS – McRAE ROAD STA 36+00 TO STA 43+50	A
R4	ROADWAY IMPROVEMENTS – McRAE ROAD STA 43+50 TO STA 52+50	A
R5	ROADWAY IMPROVEMENTS – McRAE ROAD STA 52+50 TO EOP	A
R6	ROADWAY IMPROVEMENTS – VINTAGE CIRCLE, TURNAGAIN STREET, AND TURNAGAIN BLVD E	A
R7	ROADWAY IMPROVEMENTS – KONA LANE, ABBEY LANE, AND FORREST ROAD	A
R8	ROADWAY IMPROVEMENTS – BARBARA DRIVE, ARKANSAS DRIVE, ARKANSAS DRIVE, AND IOWA DRIVE	A
R9	ROADWAY IMPROVEMENTS – PARCEL 36 DRIVEWAY, NORTHWOOD DRIVE, AND CAROLINA DRIVE	A
R10	INTERSECTION LAYOUT PLAN – WEST 35TH AVENUE AT WISCONSIN STREET	A
R11	RAISED INTERSECTION & CURB NECKDOWN LAYOUT PLAN – WEST 35TH AVENUE AT VINTAGE CIRCLE	A
R12	INTERSECTION LAYOUT PLAN – WEST 35TH AVENUE AT TURNAGAIN STREET & McRAE ROAD AT FORREST ROAD	A
R13	INTERSECTION LAYOUT PLAN – McRAE ROAD AT TURNAGAIN BLVD EAST	A
R14	INTERSECTION LAYOUT PLAN – McRAE ROAD AT KONA LANE & ABBEY LANE	A
R15	RAISED INTERSECTION LAYOUT PLAN – McRAE ROAD AT BARBARA DRIVE	A
R16	INTERSECTION LAYOUT PLAN – McRAE ROAD AT ARKANSAS DRIVE	A
R17	INTERSECTION LAYOUT PLAN – McRAE ROAD AT IOWA DRIVE & PARCEL 36 DRIVEWAY	A
R18	RAISED INTERSECTION LAYOUT PLAN – McRAE ROAD AT NORTHWOOD DRIVE	A
R19	INTERSECTION & CURB TRANSITION LAYOUT PLAN – McRAE ROAD AT CAROLINA DRIVE	A
R20	INTERSECTION LAYOUT PLAN – McRAE ROAD AT SPENARD ROAD	A
R21	TRAIL IMPROVEMENTS – FISH CREEK TRAIL NORTH & SOUTH	A
R22	SPECIAL DRIVEWAY PLANS – PARCEL 18 AND 26	A
R23	SPECIAL DRIVEWAY PLANS – PARCEL 35 AND 82	A
SUMMARY TABLES		
T1	ROADWAY SUMMARY TABLES	A
T2	ROADWAY SUMMARY TABLES	A
T3	ROADWAY SUMMARY TABLES	A
T4	ROADWAY SUMMARY TABLES	A
DETAILS		
D1	CURB RAMP DETAILS	A
D2	CURB RAMP DETAILS	A
D3	DRIVEWAY CURB RETURN DETAILS	A
D4	DRIVEWAY CURB CUT DETAILS	A
D5	MISCELLANEOUS DETAILS	A
D6	RAISED INTERSECTION & CROSSWALK DETAILS	A
D7	MISCELLANEOUS DETAILS	A
D8	MAILBOX DETAILS – WOOD POST, CLUSTER METAL, AND PCC CLUSTER BASE	A
D9	MAILBOX DETAILS	A

PRELIMINARY

SHEET INDEX

SHEET NO.	DESCRIPTION	WORK SCHEDULE
SIGNING & STRIPING		
S1	SIGNING & STRIPING – BOP TO STA 36+00	A
S2	SIGNING & STRIPING – STA 36+00 TO STA 52+50	A
S3	SIGNING & STRIPING – STA 52+50 TO EOP	A
S4	SIGN SUMMARY	A
S5	SIGN SUMMARY	A
STORM DRAIN		
SD1	STORM DRAIN IMPROVEMENTS – WEST 35TH AVENUE BOP TO STA. 28+00	B
SD2	STORM DRAIN IMPROVEMENTS – WEST 35TH AVENUE AND MCRAE ROAD STA. 28+00 TO 34+00	B
SD3	STORM DRAIN IMPROVEMENTS – MCRAE ROAD STA. 34+00 TO 41+50	B
SD4	STORM DRAIN IMPROVEMENTS – MCRAE ROAD STA. 34+00 TO 41+50	B
SD5	STORM DRAIN IMPROVEMENTS – MCRAE ROAD STA. 49+00 TO 56+50	B
SD6	STORM DRAIN IMPROVEMENTS – OGS SITE PLAN	B
SD7	STORM DRAIN IMPROVEMENTS – TYPICAL SECTION & MANHOLE DETAILS	B
SD8	STORM DRAIN IMPROVEMENTS – BYPASS MANHOLE DETAILS	B
SD9	STORM DRAIN IMPROVEMENTS – SLUICE GATE, OGS AND OUTFALL DETAILS	B
STREAM		
ST1	FISH CREEK STREAM IMPROVEMENTS – PLAN AND PROFILE	B
ST2	FISH CREEK STREAM IMPROVEMENTS – MULTI-PLATE PIPE ARCH AND TYPICAL SECTIONS	B
ILLUMINATION		
I1	ILLUMINATION SITE PLAN, NOTES & LUMINAIRE SCHEDULE	C
I2	ILLUMINATION PLAN: BOP TO STA. 28+00	C
I3	ILLUMINATION PLAN: STA. 28+00 TO STA. 36+00	C
I4	ILLUMINATION PLAN: STA. 36+00 TO STA. 43+50	C
I5	ILLUMINATION PLAN: STA. 43+50 TO STA. 52+50	C
I6	ILLUMINATION PLAN: STA. 52+50 TO EOP	C
I7	LOAD CENTER SCHEDULES & POWER ONE-LINES	C
I8	LIGHTING CONTROL SCHEMATIC & WIRING DETAILS	C
I9	PEDESTRIAN ELECTROLIER DETAILS	C
I10	FLASHING PEDISTRIAN SIGN DETAILS	C
I11	VOLUNTARY SPEED COMPLIANCE SIGN DETAILS	C
SIGNALIZATION		
J1	W. 35TH AVE & WISCONSIN ST SIGNALIZATION IMPROVEMENTS	C
J2	McRAE RD AND SPENARD RD SIGNALIZATION IMPROVEMENTS	C
J3	McRAE RD AND SPENARD RD WIRING DIAGRAM	C
J4	McRAE RD AND SPENARD RD TEMPORARY SIGNALIZATION IMPROVEMENTS	C
J5	McRAE RD AND SPENARD RD TEMPORARY SIGNAL WIRING DIAGRAM	C
LANDSCAPING		
L1	OVERALL LANDSCAP PLAN AND PLANTING SCHEDULE	D
L2	LANDSCAPE PLAN STA 20+00 TO 28+00	D
L3	LANDSCAPE PLAN STA 28+00 TO 36+00	D
L4	LANDSCAPE PLAN STA 36+00 TO 43+50	D
L5	LANDSCAPE PLAN STA 43+50 TO 52+50	D
L6	LANDSCAPE PLAN STA 43+50 TO End of Project	D
L7	LANDSCAPE DETAILS	D
L8	LANDSCAPE DETAILS	D
L9	LANDSCAPE DETAILS	D
L10	LANDSCAPE DETAILS	D
L11	LANDSCAPE DETAILS	D
SANITARY SEWER		
SS1	SEWER KEY MAP, NOTES & TYPICAL SECTION	E & G
SS2	SANITARY SEWER MAIN PLAN & PROFILE – MCRAE ROAD & TURNAGAIN BLVD E	E
SS3	SANITARY SEWER MAIN PLAN & PROFILE – EXTENSION ON MCRAE RD AT FOREST RD	G
SS3	SANITARY SEWER DETAILS	E & G
WATER		
W1	WATER KEY MAP, NOTES & TYPICAL SECTION	F
W2	WATER MAIN PLAN & PROFILE – WEST 35TH AVE AND ABBEY RD SERVICES	F
W3	WATER MAIN PLAN & PROFILE – FORREST RD AND WATER SERVICE SCHEDULE	F
W4	WATER DETAILS	F
W5	WATER DETAILS	F
W6	WATER DETAILS	F
W7	TEMPORARY WATER PLAN & DETAILS	F

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.
CONTRACTOR: _____
BY: _____ TITLE: _____ DATE: _____
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COMPANY: _____ DATE: _____
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BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273

CONSULTANT

STATE OF ALASKA 49TH — Justin T. Keene CE-11775 — REGISTERED PROFESSIONAL ENGINEER

SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS ALL
WISCONSIN STREET TO SPENARD ROAD

INDEX

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET G2 of G11

File: J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Index.dwg

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE MUNICIPALITY OF ANCHORAGE (MOA) STANDARD SPECIFICATIONS, DATED 2009, REVISION 1, (HEREINAFTER REFERRED TO AS MASS), THE LATEST EDITION OF THE AWWU DESIGN CRITERIA MANUAL AND THE SPECIAL PROVISIONS.
2. THE LOCATION OF THE EXISTING FEATURES AND UTILITIES SHOWN IN THESE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES ENCOUNTERED AND RECORD THEIR LOCATION ON THE CONTRACT RECORD DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
3. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO BEGINNING CONSTRUCTION. THE PERMITS SHALL BE MAINTAINED ON THE PROJECT SITE.
4. ALL WORK IN CLOSE PROXIMITY TO EXISTING OVERHEAD TELEPHONE AND ELECTRIC UTILITIES SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL STATUTES, CODES AND GUIDELINES AND THE CLEARANCE REQUIREMENTS OF THE SERVING UTILITY.
5. LIMITS OF EXCAVATION SHOWN ON THE DRAWINGS ARE APPROXIMATE. ACTUAL LIMITS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER DURING CONSTRUCTION OPERATIONS.
6. GEOTECHNICAL (SOILS) INFORMATION IS INCLUDED IN THE CONTRACT DOCUMENTS.
7. ALL WORK SHALL BE PERFORMED WITHIN PUBLIC RIGHT-OF-WAY, PUBLIC USE EASEMENT, SLOPE EASEMENT, TEMPORARY CONSTRUCTION EASEMENT, DRAINAGE EASEMENT, OR TEMPORARY CONSTRUCTION PERMIT AREA. ALL DISTURBED AREA SHALL BE RESTORED TO ORIGINAL CONDITION, UNLESS OTHERWISE NOTED. REVEGETATION SHALL BE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
8. CONTRACTOR SHALL RESTORE DISTURBED PROPERTY TO PRE-CONSTRUCTION CONDITIONS, UNLESS OTHERWISE DIRECTED BY ENGINEER. PAYMENT FOR RESTORING DISTURBED PROPERTY OUTSIDE OF IDENTIFIED CONSTRUCTION LIMITS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE. DISTURBED AREAS NOT BEING PAVED SHALL BE TOPSOILED AND SEEDED WITH SCHEDULE A SEEDING MIX UNLESS OTHERWISE NOTED.
9. PROJECT CLEARING AND GRUBBING LIMITS SHALL COINCIDE WITH SLOPE OR EXCAVATION LIMITS. SLOPE LIMITS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE ACTUAL SLOPE LIMITS BASED ON SURVEY DATA AND SHALL OBTAIN APPROVAL OF THE CLEARING AND GRUBBING LIMITS BY THE ENGINEER.
10. IN PREPARATION FOR AND IMMEDIATELY PRIOR TO PAVING, THE CONTRACTOR SHALL SAW CUT AND REMOVE ADDITIONAL PAVEMENT BEYOND THE INITIAL SAW CUT, A MINIMUM OF 1-FOOT ONTO UNDISTURBED ASPHALT. AT TRANSVERSE JOINTS FINAL SAW CUT LINE SHALL BE SKEWED 15° – 25° PER DETAIL 4, SHEET D6. TACK COAT SHALL BE APPLIED TO THE SAWN FACE OF ASPHALT PRIOR TO BEGINNING PAVING.
11. PAVEMENT CROSS SLOPE SHALL VARY AT INTERSECTIONS TO PROVIDE POSITIVE DRAINAGE. SEE ROADWAY (R) SHEETS FOR INTERSECTION LAYOUTS.
12. ALL WORK AND MATERIALS REQUIRED FOR REMOVING ANY LITTER OR DEBRIS WITHIN THE PROJECT LIMITS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT WILL BE MADE.
13. ALL ORGANIC MATERIAL SHALL BE REMOVED FROM THE SUBGRADE TO A DEPTH TO BE DETERMINED BY THE ENGINEER. NO ORGANIC MATERIAL OR OTHER DELETERIOUS MATERIAL SHALL BE UTILIZED FOR BACKFILL.
14. THE CONTRACTOR SHALL SUBMIT RECORD SURVEY NOTES WITH THE RECORD DRAWINGS.
15. EXCAVATION SHALL BE MEASURED BY CROSS-SECTION AND SHALL BE LIMITED TO THE PAY LIMITS IDENTIFIED IN THE TYPICAL CROSS SECTIONS, UNLESS ADDITIONAL EXCAVATION IS DIRECTED BY THE ENGINEER.
16. THE ROADWAY STATIONING IS NOT RIGHT-OF-WAY CENTERLINE PER SURVEY CONTROL DRAWING UNLESS OTHERWISE NOTED. SEE SURVEY CONTROL DRAWING FOR HORIZONTAL AND VERTICAL CONTROL.
17. THE EASEMENTS AND TEMPORARY CONSTRUCTION PERMITS ACQUIRED FOR THIS PROJECT MAY HAVE RESTRICTIONS. SEE CONTRACT DOCUMENTS FOR RESTRICTIONS.
18. ALL CURB LOCATIONS, RADIUS MEASUREMENTS AND ELEVATIONS ARE TO THE TOP BACK OF CURB (TBC) UNLESS OTHERWISE NOTED.
19. UNLESS OTHERWISE NOTED, ALL KEY BOXES, VALVE BOXES, CLEANOUTS, AND MANHOLES WITHIN THE CONSTRUCTION AREA SHALL BE ADJUSTED TO FINISH GRADE.
20. FURNISH AND INSTALL PIPE INSULATION BOARD (R-20) BETWEEN THE STORM DRAIN IMPROVEMENTS AND THE WATER AND SEWER UTILITIES WHEN THE VERTICAL CLEARANCE IS LESS THAN THREE FEET. IF 18 INCHES OF VERTICAL SEPARATION BETWEEN WATER AND SEWER/STORMDRAIN MAINS CAN NOT BE MAINTAINED THEN WATER RELOCATION WILL BE REQUIRED.
21. EXISTING WATER AND SEWER SERVICE LINES ARE NOT SHOWN IN THE PROFILES UNLESS SPECIFICALLY CALLED OUT.
22. WATER RESULTING FROM THE CONTRACTOR'S DEWATERING EFFORT MAY NOT BE PUMPED OR OTHERWISE DIVERTED INTO EXISTING STORM DRAINS OR SANITARY SEWERS UNLESS REQUIRED PERMITS, INCLUDING, BUT NOT LIMITED TO, THE MUNICIPALITY OF ANCHORAGE STORM WATER PLAN REVIEW OFFICE, ARE OBTAINED BY THE CONTRACTOR. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE ALLOWED TO DIVERT WATER FROM EXCAVATION ONTO ROADWAYS. THE CONTRACTOR SHALL PROVIDE DISPOSAL SITE FOR EXCESS WATER AND SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL PROVIDE COPIES OF PERMITS AND APPROVALS TO THE MOA ROW PERMIT OFFICE PRIOR TO BEGINNING DEWATERING.
23. ALL CURB AND GUTTER SHALL BE PAID AS "P.C.C. CURB AND GUTTER (ALL TYPES)" EXCEPT FOR CURBS WITH STEEL CURB FACING WHICH SHALL BE PAID AS "P.C.C. CURB AND GUTTER (TYPE 1, STEEL CURB FACING)".
24. EXISTING UTILITIES AND PROPOSED UTILITIES ARE NOT SHOWN IN THE TYPICAL CROSS SECTIONS.
25. CAUTION!!! THERE ARE EXISTING BUILDING FOUNDATIONS/BASEMENTS AT UNKNOWN LOCATIONS AND DEPTHS NEAR OR WITHIN THE PROJECT LIMITS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND DEPTH OF BUILDING FOUNDATIONS/BASEMENTS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPAIR BUILDING FOUNDATIONS/BASEMENTS THAT ARE DAMAGED DURING CONSTRUCTION. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.
26. THE MATCH EXISTING ELEVATIONS AS SHOWN IN THE PLANS ARE APPROXIMATE. CONTRACTOR SHALL ADJUST PROPOSED GRADES AS REQUIRED TO MATCH INTO EXISTING ELEVATIONS PER THE DIRECTION OF THE ENGINEER.

WORK SCHEDULES	
A	ROADWAY IMPROVEMENTS
B	DRAINAGE IMPROVEMENTS
C	ILLUMINATION AND SIGNALIZATION IMPROVEMENTS
D	LANDSCAPING IMPROVEMENTS
E	PM&E SEWER IMPROVEMENTS
F	AWWU WATER IMPROVEMENTS
G	AWWU SEWER IMPROVEMENTS

PRELIMINARY

CALL BEFORE YOU DIG!!!	
Alaska Digline, Inc. Statewide	811
Alaska Railroad	265-2520
Military Fuel Lines	552-3760
State Storm Drains	333-2411

RECORD DRAWING
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TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

FIELD BOOKS	
DESIGN	CRW Books 85 & MOA 2007-01
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	
CONSTRUCTION RECORD	

TBM NO.	LOCATION	ELEV.
GAAB77	See MOA Benchmark Book Page D-20	89.89
BASIS OF THIS DATUM GAAB 1972 Adjust		
VERTICAL DATUM		

REV	DATE	DESCRIPTION	BY
REVISIONS			

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
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STATE OF ALASKA 49TH
Justin T. Keene
CE-11775
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SEAL

MUNICIPALITY OF ANCHORAGE

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GENERAL NOTES

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File:s:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Index.dwg

PLAN LEGEND

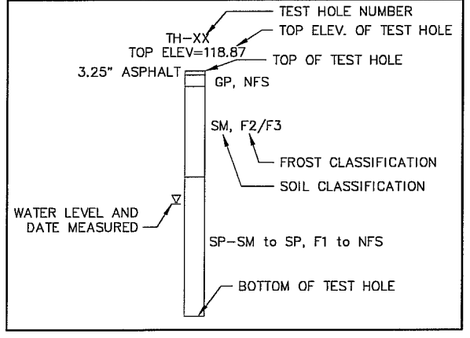
SYMBOL EXISTING	SYMBOL PROPOSED	
		CENTERLINE
		PROPERTY LINE
		ROW LINE
		EASEMENT LINE
		TEMPORARY CONSTRUCTION EASEMENT/PERMIT
		SECTION LINE
		UNPAVED (GRAVEL) EDGE OF ROAD/DRIVEWAY
		EDGE OF PAVEMENT
		SIDEWALK
		STREAM/EDGE OF WATERWAY
		PAVEMENT/DRIVEWAY REMOVAL
		CURB & GUTTER
		RADIUS TO BACK OF CURB
		DRAINAGE SWALE
		DRAINAGE ARROW
		BLUFF AREA/ EARTHWORK SLOPE
		CULVERT
		CHAINLINK FENCE
		WOOD FENCE
		DECIDUOUS TREE/SHRUB
		CONIFEROUS TREE/SHRUB
		VEGETATION & BRUSH
		GUARDRAIL
		STREET SIGN
		TEST BORING OR TEST HOLE
M.B.	M.B.	MAILBOX
		HOUSE OR STRUCTURE
IP		IRON PIN (REBAR) / IRON PIPE
		BENCHMARK
		TEMPORARY BENCHMARK
		BRASS CAP MONU./BLM CORNER
		PK NAIL, SPIKE OR CONCRETE NAIL
		ALCAP OR PLASTIC CAP
		FILL SLOPE LIMITS
		CUT SLOPE LIMITS
		RETAINING WALL
C		UNDERGROUND CABLE TV LINE
E		UNDERGROUND ELECTRIC LINE
OE		ELECTRIC LINE (OVERHEAD)
OET		ELECTRIC & TELEPHONE (OVERHEAD)
OHT/C		TELEPHONE & CABLE (OVERHEAD)
FO		UNDERGROUND FIBER OPTIC LINE
G		GAS LINE
S	S	SANITARY SEWER LINE
SD	SD	STORM DRAIN LINE
T		UNDERGROUND TELEPHONE LINE
OT		TELEPHONE LINE (OVERHEAD)
W	W	WATER LINE
TR		UNDERGROUND TRAFFIC LINE

SYMBOL EXISTING	SYMBOL PROPOSED	
		STORM DRAIN MANHOLE
		CATCH BASIN MANHOLE
		CATCH BASIN
		SANITARY SEWER MANHOLE
C.O.	C.O.	SANITARY SEWER/SUBDRAIN CLEANOUT
		SEWER SERVICE CONNECTION
		WATER WELL
		WATERTIGHT SANITARY SEWER MANHOLE
		WATER VALVE
		WATER KEY BOX
		FIRE HYDRANT
		DRY WELL
		STUBOUT CAPPED OR PLUGGED END
		GAS VALVE
G.M.		GAS METER
U.E.		UNDERGROUND ELECTRIC PEDESTAL
		ELECTRICAL MANHOLE/J-BOX
E.M.		ELECTRIC METER
		JB TYPE IA
		JB TYPE II
		JB TYPE III
		ELECTRICAL VAULT
		LUMINAIRE
		PEDESTRIAN LIGHT
		UTILITY POLE
		GUY POLE
		GUY ANCHOR
		CONTROLLER OR ATR CABINET
		LOAD CENTER
SC		SWITCH CABINET
		ELECTRIC TRANSFORMER
		JOINT USE POWER & TELE. POLE
		TELEPHONE MANHOLE
U.T.		UNDERGROUND TELE. PEDESTAL
U.C.		UNDERGROUND TV CABLE PEDESTAL
FO		UNDERGROUND FIBER OPTIC PEDESTAL
113	114	DETECTOR LOOPS
		TRAFFIC SIGNAL POLE/LUMINAIRE
		TRAFFIC SIGNAL POLE
		CLUSTER MAILBOX
		PARCEL NUMBERS
		PARKING METER
L		LIGHTING LINE
		ELECTRICAL SIGN

PROFILE LEGEND

SYMBOL EXISTING	SYMBOL PROPOSED	
		PROPERTY LINE
	0.00%	GRADE OF PAVEMENT AT CENTER LINE
		EXISTING GROUND OVER PIPE
		APPROXIMATE EXCAVATION LIMITS
		WATER LEVEL
		PIPE (PROFILE)
		PIPE (SECTION)
		STORMDRAIN/SANITARY SEWER MANHOLE & PIPE
		TYPE III STORMDRAIN MANHOLE & PIPE
		STORMDRAIN CATCH BASIN/OGS
G		GAS CROSSING
T		TELEPHONE CROSSING
E		ELECTRIC CROSSING
C		CABLE CROSSING
L		LIGHTING CROSSING
		INSULATION
		CONCRETE
		GRAVEL
		COMPACTED SOIL
		NATURAL SOIL
		TEXTURED CONCRETE/PAVER

LEGEND – SOIL



COMMON ABBREVIATIONS

ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
AC	ASPHALT CONCRETE	NWT	NO WATER TABLE
APPROX	APPROXIMATE	OC	ON CENTER
BM	BENCH MARK	OCEW	ON CENTER EACH WAY
BOP	BEGINNING OF PROJECT	OD	OUTSIDE DIAMETER
C&G	CURB AND GUTTER	OGS	OIL AND GRIT SEPARATOR
CB	CATCH BASIN	OH	OVERHEAD
CBMH	CATCH BASIN MANHOLE	PC	POINT OF CURVATURE
CI	CAST IRON	PCC	PORTLAND CONCRETE CEMENT POINT OF CONTINUOUS CURVATURE
C/L, CL	CENTERLINE		
CMP	CORRUGATED METAL PIPE	PI	POINT OF INTERSECTION
CO	CLEANOUT	PL, P/L	PROPERTY LINE
CONST	CONSTRUCTION	PCMP	PRECOATED CORRUGATED METAL PIPE
CPEP	CORRUGATED POLYETHYLENE PIPE	PCPEP	PERFORATED CORRUGATED POLYETHYLENE PIPE
DIA	DIAMETER		
DI	DUCTILE IRON PIPE	PT	POINT OF TANGENCY
DW	DETECTABLE WARNING	PUE	PUBLIC USE EASEMENT
DWY	DRIVEWAY	PVC	POINT OF VERTICAL CURVATURE
ELEC	ELECTRIC / ELECTRICAL	PVC	POLYVINYL CHLORIDE
ELEV, EL	ELEVATION	PVI	POINT OF VERTICAL INTERSECTION
EOP	END OF PROJECT / EDGE OF PAVEMENT	PVT	POINT OF VERTICAL TANGENT
F&I	FURNISH AND INSTALL	ROW, R/W	RIGHT OF WAY
FG	FINISHED GRADE	RT, R	RIGHT
GB	GRADE BREAK	S/W	SIDEWALK
JB	JUNCTION BOX	SS	STAINLESS STEEL
LC	LOAD CENTER	SEC COR	SECTION CORNER
IAW	IN ACCORDANCE WITH	SI	STREET INTERSECTION
ID	INSIDE DIAMETER	ST	STREET
IE	INVERT ELEVATION	STA	STATION / STATIONING
INTX	INTERSECTION	STD	STANDARD
INV	INVERT	STRUCT	STRUCTURE
LF	LINEAR FOOT	TBC	TOP BACK OF CURB
LT, L	LEFT	TBM	TEMPORARY BENCH MARK
LUM	LUMINAIRE	TCP	TEMPORARY CONSTRUCTION PERMIT
MAX	MAXIMUM	TELE	TELEPHONE
ME	MATCH EXISTING	TH	TEST HOLE
MH	MANHOLE	TYP	TYPICAL
MIN	MINIMUM	UG	UNDERGROUND
MON	MONUMENT	UON	UNLESS OTHERWISE NOTED
MSL	MEAN SEA LEVEL	UTIL	UTILITY
N/A	NOT APPLICABLE	VB	VALVE BOX
N.I.C.	NOT IN CONTRACT	VC	VERTICAL CURVE
NTS	NOT TO SCALE	W/	WITH

PRELIMINARY

RECORD DRAWING

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DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page 0-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			
CONSTRUCTION RECORD	VERTICAL DATUM		

REV	DATE	DESCRIPTION	BY
REVISIONS			

CRW ENGINEERING GROUP, LLC
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PHONE: (907) 562-3252
FAX: (907) 561-2273
CONSULTANT

STATE OF ALASKA 49TH
Justin T. Keene
CE-11775
REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

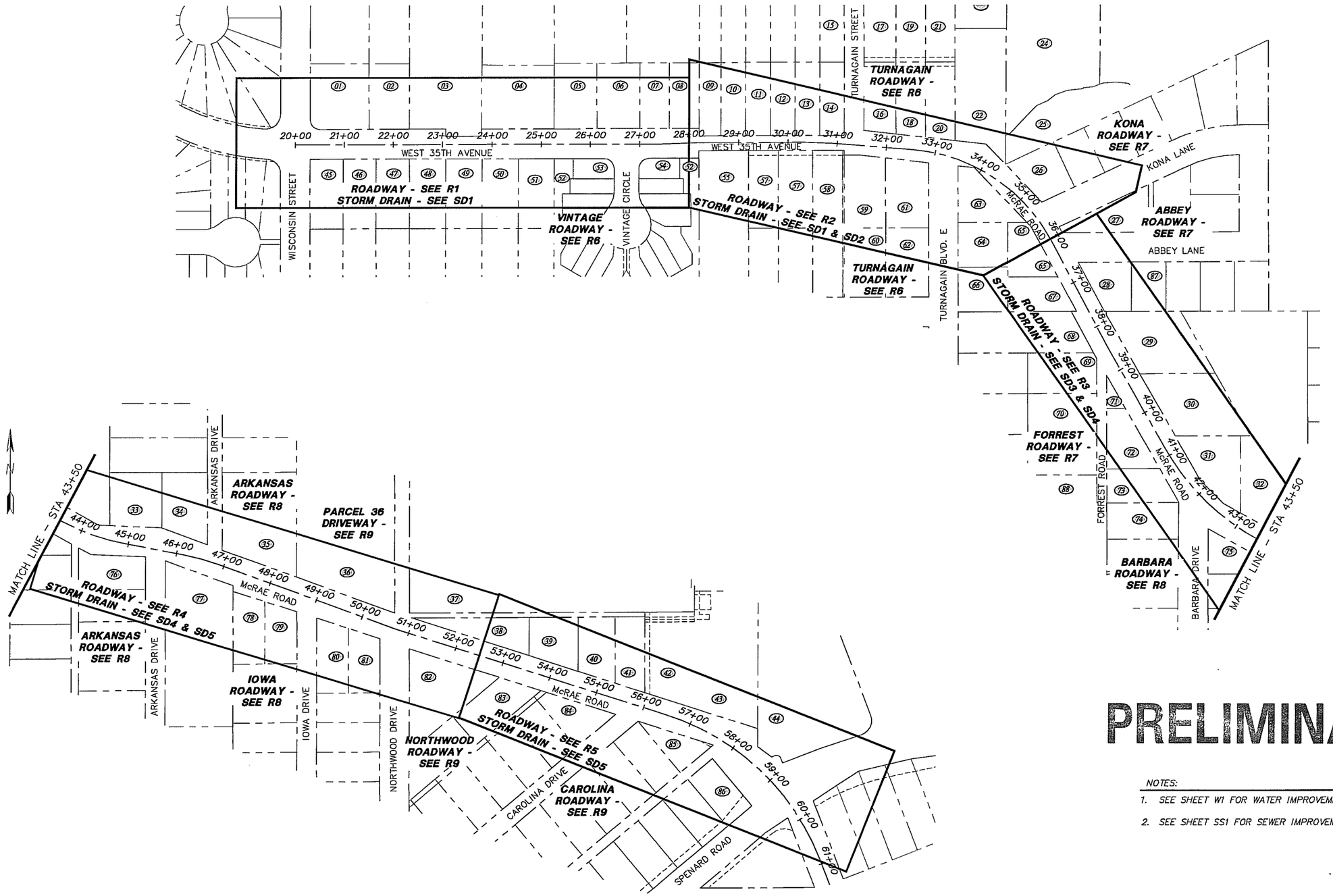
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS ALL
WISCONSIN STREET TO SPENARD ROAD

LEGEND & ABBREVIATIONS

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET G4 of G11

File: k:\obsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Index.dwg



PRELIMINARY

NOTES:

1. SEE SHEET W1 FOR WATER IMPROVEMENT KEY MAP.
2. SEE SHEET SS1 FOR SEWER IMPROVEMENT KEY MAP.

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DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

GRAPHIC SCALE 200 100 0 100 200

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.69
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust.		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273

CONSULTANT

STATE OF ALASKA 49TH — Justin T. Keene CE-11775 — REGISTERED PROFESSIONAL ENGINEER

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PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

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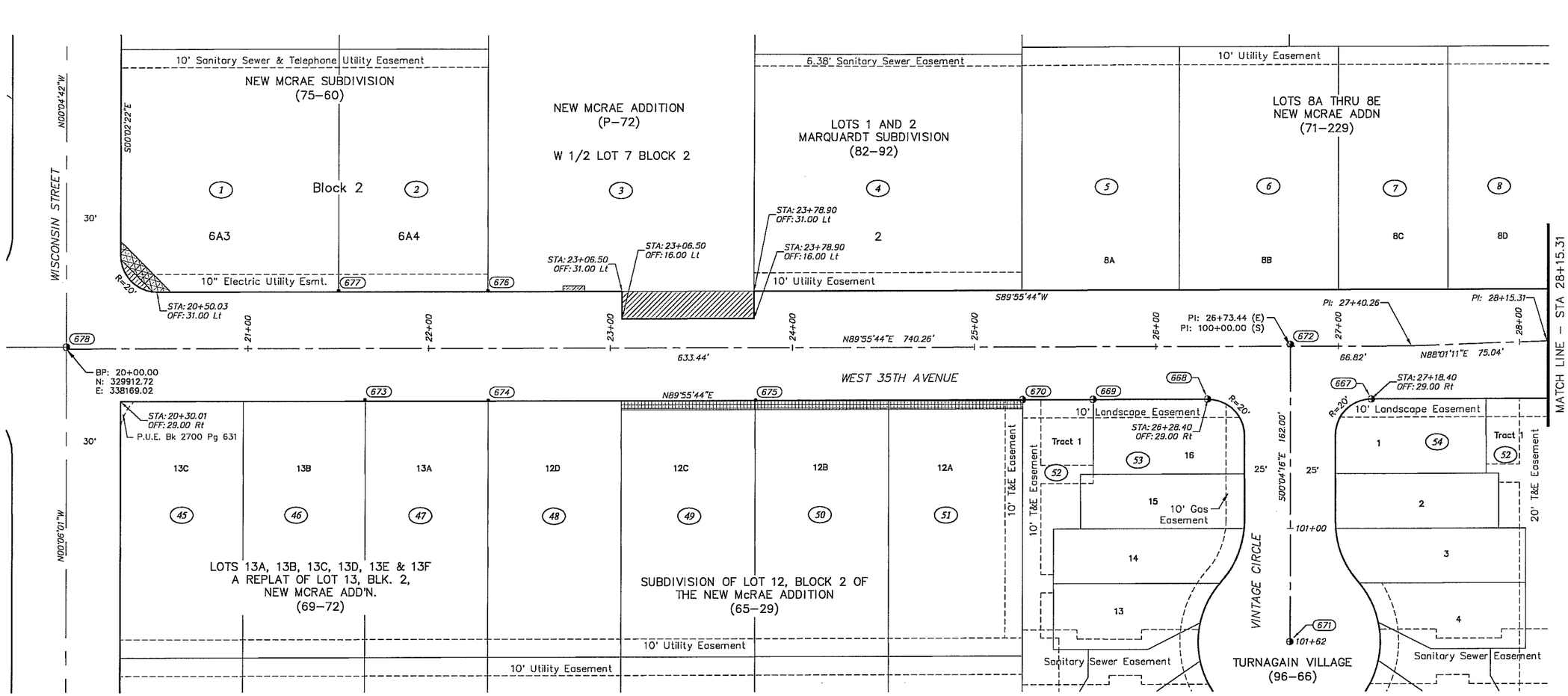
WISCONSIN STREET TO SPENARD ROAD

KEY MAP

SCALE HOR. 1"=100' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET G5 of G11

File: J:\Jobs\dot\10104 35th & McRae\DOC CADD\Drawings\01 Working Set\01 Civil\10104 KEY MAP.dwg



Parcel Information						Easement Acquisition Information				
Parcel	Lot	Block	Subdivision	Plat	Owner	PUE (sf)	Slope (sf)	Drainage (sf)	TCE (sf)	Recorder's Serial Number
1	6A3	2	New McRae Subdivision	(75–60)	Bohlin Karl & Kathleen	75			226	
3	7 W1/2	2	New McRae Subdivision	(P–72)	Casey Victor H Jr & Diana L	1,086	36			
49	12C	2	New McRae Subdivision	(65–29)	Lyon Jacob M			367		
50	12B	2	New McRae Subdivision	(65–29)	Eaton Mary F Living Trust Eaton Mary F/Trustee			367		
51	12A	2	New McRae Subdivision	(65–29)	Waalkes John H			367		

LEGEND

- Existing Monument
- Existing Rebar With Yellow Plastic or Aluminum Cap
- Rebar or Iron Pipe
- Benchmark
- (100) Parcel Number
- (100) Control Point Number
- Right–of–Way Purchase
- Public Use Easement
- Slope Easement
- Drainage & Sanitary Sewer Easement
- Drainage Easement
- Water Easement
- Temporary Construction Easement

PRELIMINARY

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PLAN CHECK

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BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

CONSTRUCTION RECORD

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007–01	GAAB77	See MOA Benchmark Book Page D–20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562–3252
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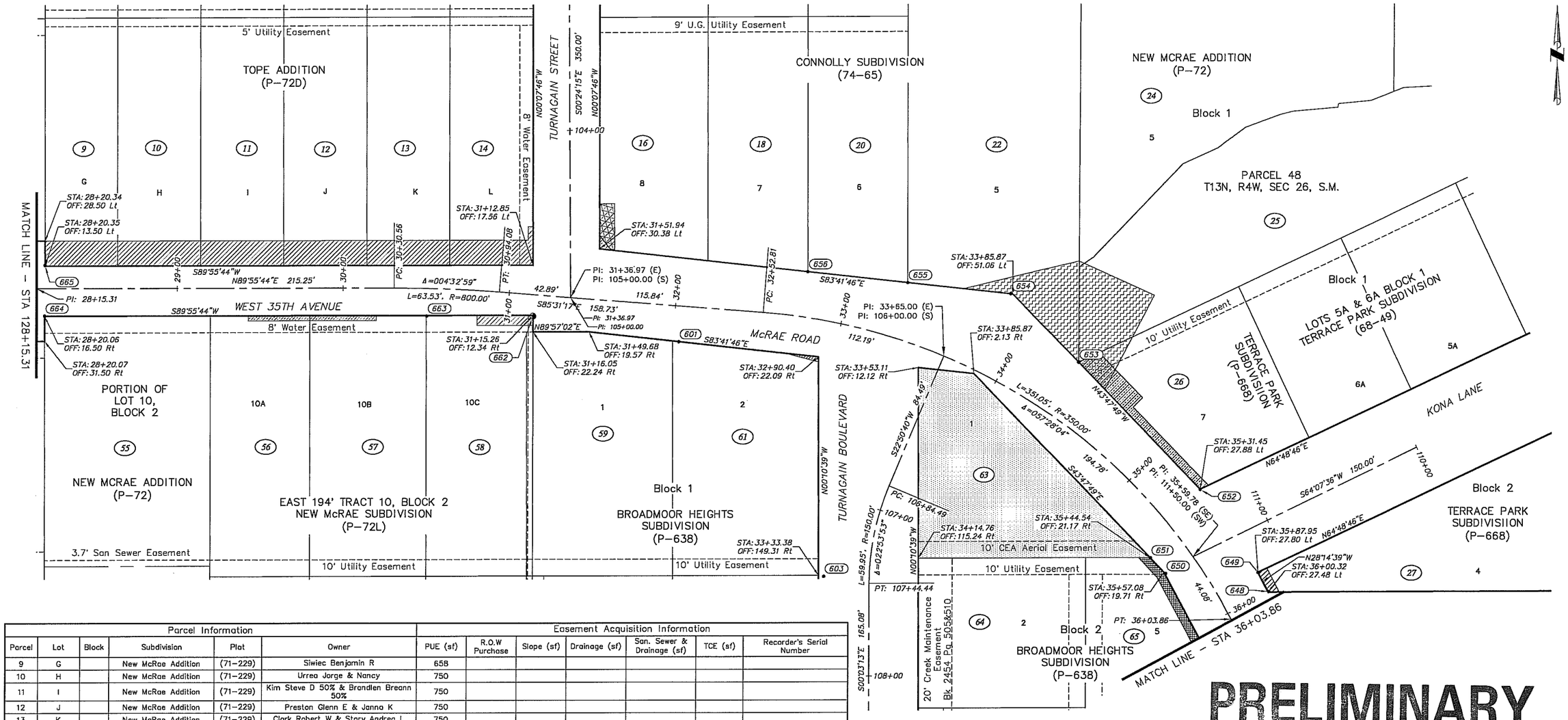
03–09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS ALL
WISCONSIN STREET TO SPENARD ROAD

SURVEY CONTROL
AND ROW MAP

SCALE HOR. 1"=30' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET G6 of G11

File:k:\Jobsdata\01014 35th & McRae\00 CADD\Drawings\01 Working Set\02 Survey\03 Survey Control\101014 SCS.dwg



Parcel Information						Easement Acquisition Information						
Parcel	Lot	Block	Subdivision	Plat	Owner	PUE (sf)	R.O.W Purchase	Slope (sf)	Drainage (sf)	San. Sewer & Drainage (sf)	TCE (sf)	Recorder's Serial Number
9	G		New McRae Addition	(71–229)	Siwiec Benjamin R	658						
10	H		New McRae Addition	(71–229)	Urrea Jorge & Nancy	750						
11	I		New McRae Addition	(71–229)	Kim Steve D 50% & Brandlen Breann 50%	750						
12	J		New McRae Addition	(71–229)	Preston Glenn E & Janna K	750						
13	K		New McRae Addition	(71–229)	Clark Robert W & Story Andrea L	750						
14	L		New McRae Addition	(71–229)	Witucki Dana H 50% & Heysell Mark J 50%	774						
16	8		Connolly Subdivision	(74–65)	Kaeppele Rudi & Verena			28			219	
22	5		Connolly Subdivision	(74–65)	Albright Peggy Marie & Timothy					1,547		
24	5	1	New McRae Subdivision	(P–72)	Starer Geraldine K & Andrew J					5		
25	Parel 48		T13N R4W, SEC 26		Leguineche Michael J					1,668		
26	7	1	Terrace Park Subdivision	(P–668)	Holtman Terry Lee			839		384		
27	4	2	Terrace Park Subdivision	(P–668)	Mellen Roger B & Block Robin R	89						
56	10A	2	New McRae Subdivision	(P–72L)	Connor Bret H & Erika C			111				
57	10B	2	New McRae Subdivision	(P–72L)	Curtis–Johnson Kathy A			119				
58	10C	2	New McRae Subdivision	(P–72L)	Garner Inez	202						
61	2	1	Broadmoor Heights	(P–6380	Wilcox Walter J II & Yelizaveta V			30				
63	1	2	Broadmoor Heights	(P–638)	Albright Peggy Marie & Timothy		9,606					
65	5	2	Broadmoor Heights	(P–638)	McRae Road Trailer Park LLC				637			

LEGEND

- Existing Monument
- Existing Rebar With Yellow Plastic or Aluminum Cap
- Rebar or Iron Pipe
- Benchmark
- (100) Parcel Number
- (100) Control Point Number
- Right–of–Way Purchase
- Public Use Easement
- Slope Easement
- Drainage & Sanitary Sewer Easement
- Drainage Easement
- Water Easement
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GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007–01	GAAB77	See MOA Benchmark Book Page D–20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
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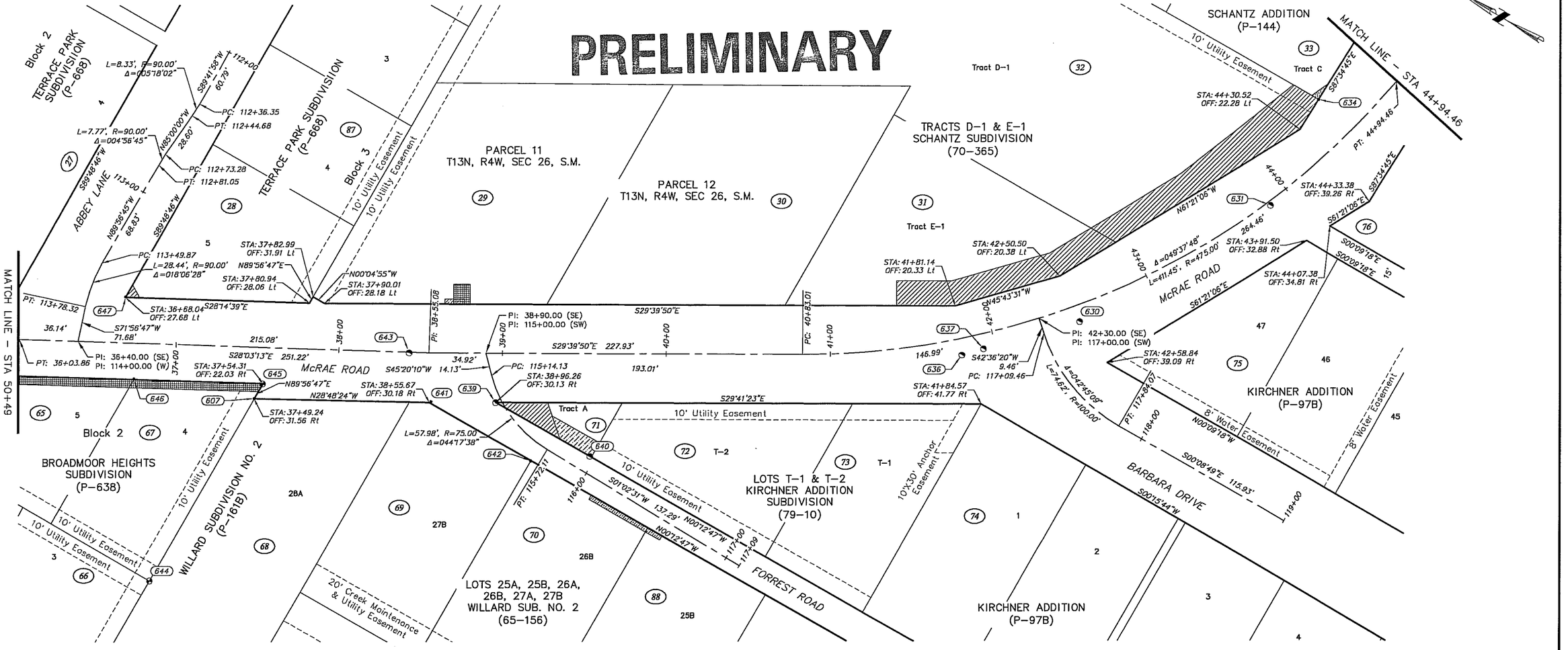
03–09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS ALL
WISCONSIN STREET TO SPENARD ROAD

SURVEY CONTROL
AND ROW MAP

SCALE HOR. 1"=30'
VER. N/A
DATE FEB 2012
GRID1627/1727/1728
STATUS 95% DESIGN
SHEET G7 of G11

File: k:\obsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\02 Survey\03 Survey Control\10104 SCS.dwg

PRELIMINARY



Parcel Information						Easement Acquisition Information				
Parcel	Lot	Block	Subdivision	Plat	Owner	PUE (sf)	Slope (sf)	Drainage (sf)	Water (sf)	Recorder's Serial Number
28	5	3	Terrace Park Subdivision	(P-668)	Jackson Scotty N	34				
29	Parcel 11		T13N R4W, SEC 26		Baer Investments LLC/Baer Betty Ann/Manager		36	120		
31	Tract E-1		Schantz Subdivision	(70-365)	MOA	2,011				
32	Tract D-1		Schantz Subdivision	(70-365)	MOA	2,690				
33	Tract C		Schantz Addition	(P-144)	Brown Bernice Agnes		25			
65	5	2	Broadmoor Heights	(P-638)	McRae Road Trailer Park LLC			637		
67	4	2	Broadmoor Heights	(P-638)	McRae Road Trailer Park LLC			397		
70	26B		Willard #2 Subdivision	(65-156)	Johnson John FC & Eleanor MC		120			
71	Tr. A N66'		Kirchner Subdivision	(79-10)	Lewis Henry & M Lee	350			279	
88	25B		Willard #2 Subdivision	(65-156)	Johnson John FC & Eleanor MC		30			

LEGEND

- Existing Monument
- Existing Rebar With Yellow Plastic or Aluminum Cap
- Rebar or Iron Pipe
- Benchmark
- (100) Parcel Number
- (100) Control Point Number
- Right-of-Way Purchase
- Public Use Easement
- Slope Easement
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DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

GRAPHIC 60 30 0 30 60 SCALE

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
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STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			
CONSTRUCTION RECORD	VERTICAL DATUM		

REV	DATE	DESCRIPTION	BY

REVISIONS

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03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS ALL
WISCONSIN STREET TO SPENARD ROAD

SURVEY CONTROL AND ROW MAP

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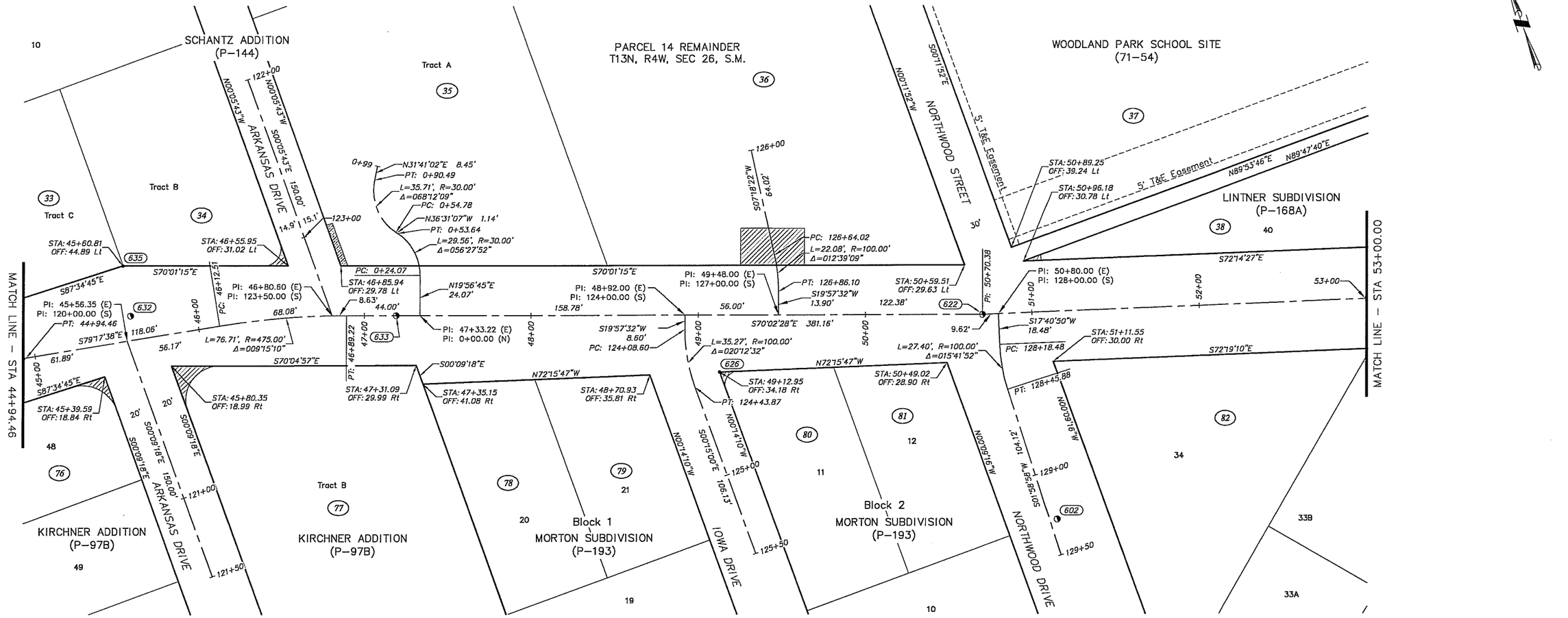

Parcel Information						Easement Acquisition Information			
Parcel	Lot	Block	Subdivision	Plat	Owner	PUE (sf)	Slope (sf)	TCE (sf)	Recorder's Serial Number
34	Tract B		Schantz Addition	(P-144)	Colegrove Shellie & Stanley Living trust Colegrove S A & S R/Trustees	48			
35	Tract A		Schantz Addition	(P-144)	Porter Patricia A Liv Trust Poert Patricia A/Trustee		104		
36	Parcel 14		T13N R4W, SEC 26		Porter Patricia A Living Trust Porter Patricia A/Trustee	837			
38	40		Lintner Subdivision	(P-168A)	Hines Tamela J	18			
40	38		Lintner Subdivision	(P-168A)	Thompson Eileen S		36	820	
76	48		Kirchner Subdivision	(P-97B)	Long Bruce A & Wanda K	76			
77	Tr. B		Kirchner Subdivision	(P-97B)	Ferati Ulber	188			
80	11	2	Morton Subdivision	(P-193)	Eaton John T & Betty D	34			

PRELIMINARY

LEGEND

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- Existing Rebar With Yellow Plastic or Aluminum Cap
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- 100 Control Point Number
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- Drainage Easement
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QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

GRAPHIC SCALE 60 30 0 30 60

CONSTRUCTION RECORD

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273

CONSULTANT

STATE OF ALASKA 49TH REGISTERED PROFESSIONAL LAND SURVEYOR

SEAL

MUNICIPALITY OF ANCHORAGE

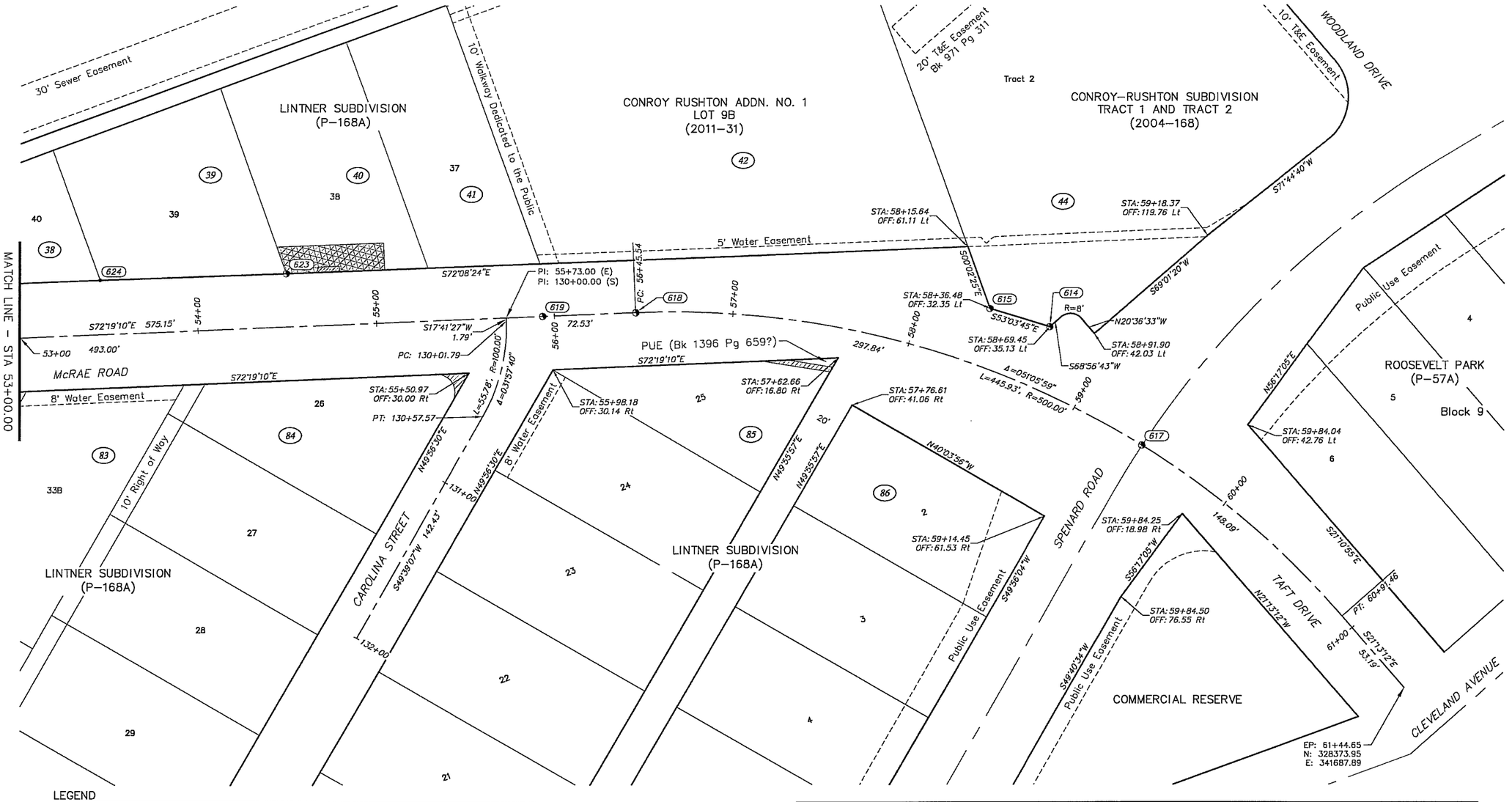
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS WISCONSIN STREET TO SPENARD ROAD ALL

SURVEY CONTROL AND ROW MAP

SCALE HOR. 1"=30' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET G9 of G11

File: L:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\02 Survey\03 Survey Control\10104 SCS.dwg



LEGEND

- Existing Monument
- Existing Rebar With Yellow Plastic or Aluminum Cap
- Rebar or Iron Pipe
- Benchmark
- (100) Parcel Number
- (100) Control Point Number
- Right-of-Way Purchase
- Public Use Easement
- Slope Easement
- Drainage & Sanitary Sewer Easement
- Drainage Easement
- Water Easement
- Temporary Construction Easement

Parcel Information						Easement Acquisition Information			
Parcel	Lot	Block	Subdivision	Plat	Owner	PUE (sf)	Slope (sf)	TCE (sf)	Recorder's Serial Number
38	40		Lintner Subdivision	(P-168A)	Hines Tamela J	18			
40	38		Lintner Subdivision	(P-168A)	Thompson Eileen S		36	820	
84	26		Lintner Subdivision	(P-168A)	Henderson Richard A	75			
85	25		Lintner Subdivision	(P-168A)	Norene Larry G	91			

PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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: _____ TITLE: _____
COMPANY: _____ DATE: _____
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COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR			
INSPECTOR			

CONSTRUCTION RECORD

VERTICAL DATUM: BASIS OF THIS DATUM GAAB 1972 Adjust

REV	DATE	DESCRIPTION	BY

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CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
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PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS WISCONSIN STREET TO SPENARD ROAD — ALL

SURVEY CONTROL AND ROW MAP

SCALE HOR. 1"=30' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET G10 of G11

File: K:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\02 Survey\03 Survey Control\10104 SCS.dwg

Horizontal Control - Sheet G6					
Point No	Station	Offset	Northing	Easting	Description
678	0+00.00	1.00 Rt	329913.72	338169.01	Found 2" Aluminum Cap
677	21+50.34	31.54 Lt	329944.44	338319.32	Found 5/8" Rebar
673	21+65.07	28.17 Rt	329884.75	338334.12	Found 5/8" Rebar
676	22+32.50	31.64 Lt	329944.65	338401.48	Found 5/8" Rebar
674	22+32.84	28.63 Rt	329884.38	338401.89	Found 5/8" Rebar
675	23+79.86	28.84 Rt	329884.35	338548.91	Found 5/8" Rebar
670	25+26.37	28.88 Rt	329884.49	338695.42	Found 5/8" Rebar with Yellow Plastic Cap
669	25+65.36	28.88 Rt	329884.54	338734.41	Found 5/8" Rebar with Yellow Plastic Cap
668	26+28.38	28.92 Rt	329884.58	338797.43	Found 5/8" Rebar with Yellow Plastic Cap
671	26+73.31	162.05 Rt	329751.51	338842.52	Found 2" Aluminum Cap
672	26+73.44	1.00 Lt	329914.55	338842.45	Found 2" Aluminum Cap
667	27+18.37	29.07 Rt	329884.53	338887.42	Found 5/8" Rebar with Yellow Plastic Cap
Stationing base on 35th & McRae Alignment					

Horizontal Control - Sheet G7					
Point No.	Station	Offset	Northing	Easting	Description
664	28+20.06	16.31 Rt	329899.92	338989.05	Found 1/2" Iron Pipe
665	28+20.35	13.97 Lt	329930.20	338989.30	Found 1/2" Rebar
663	30+50.77	16.49 Rt	329899.78	339219.34	Found 5/8" Rebar
662	31+15.29	12.80 Rt	329899.63	339283.14	Found 2" Aluminum Cap
601	32+03.63	21.35 Rt	329884.21	339370.53	Found 1/2" Rebar
656	32+75.83	27.19 Lt	329926.02	339448.00	Found 5/8" Rebar
655	33+31.02	34.00 Lt	329919.39	339507.98	Found 5/8" Rebar
603	33+38.85	148.84 Rt	329743.42	339457.94	Found 5/8" Rebar
654	33+84.88	50.68 Lt	329912.56	339570.17	Found 5/8" Rebar
653	34+34.47	35.41 Lt	329871.43	339610.63	Found 5/8" Rebar
652	35+31.56	27.89 Lt	329795.07	339683.85	Found 5/8" Rebar
651	35+44.78	20.93 Rt	329754.08	339654.18	Found 3/4" Rebar
650	35+58.44	19.31 Rt	329744.71	339663.16	Found 3/4" Rebar
649	35+87.97	27.86 Lt	329745.39	339718.96	Found 5/8" Rebar
648	36+00.31	27.92 Lt	329733.83	339725.60	Found 5/8" Rebar
Stationing based on 35th & McRae Alignment					

Horizontal Control - Sheet G8					
Point No.	Station	Offset	Northing	Easting	Description
647	36+68.20	28.07 Lt	329673.76	339757.81	Found 3/4" Iron Pipe
646	36+75.07	22.00 Rt	329644.14	339716.85	Found 5/8" Rebar
644	36+89.15	144.50 Rt	329574.11	339615.37	Found 2-1/2" Brass Cap
607	37+49.34	31.41 Rt	329574.17	339743.48	Found 5/8" Rebar
645	37+54.09	22.24 Rt	329574.29	339753.81	Found 2-1/2" Brass Cap, leaning North
643	38+43.00	0.34 Rt	329506.12	339814.95	Found 1-1/2" Aluminum Cap
641	38+56.66	29.81 Rt	329479.50	339795.81	Found 5/8" Rebar
639	38+96.26	30.13 Rt	329444.93	339815.12	Found 1-1/2" Aluminum Cap
642	39+17.84	65.58 Rt	329408.64	339795.01	Found 5/8" Rebar
640	39+53.89	62.67 Rt	329378.75	339815.37	Found 1-1/2" Aluminum Cap
636	41+79.17	9.90 Rt	329212.85	339981.98	Found 1-1/2" Aluminum Cap
637	41+92.70	9.01 Rt	329203.21	339991.89	Found 2" Aluminum Cap
630	42+52.40	9.85 Rt	329160.72	340035.45	Found 1-1/2" Aluminum Cap
631	43+86.70	2.28 Rt	329095.64	340154.61	Found 1-1/2" Aluminum Cap
634	44+52.61	27.65 Lt	329102.11	340225.03	Found 5/8" Rebar
Stationing based on 35th & McRae Alignment					

Horizontal Control - Sheet G9					
Point No.	Station	Offset	Northing	Easting	Description
632	45+60.80	14.57 Lt	329067.91	340326.13	Found 1-1/2" Aluminum Cap
635	45+61.00	44.86 Lt	329097.64	340331.96	Found 5/8" Rebar
633	47+19.17	0.00	329013.51	340476.29	Found 1-1/2" Aluminum Cap
626	49+12.92	34.18 Rt	328915.25	340646.73	Found 5/8" Rebar
622	50+70.38	0.00	328893.62	340806.41	Found 1-1/2" Aluminum Cap
602	51+10.44	124.29 Rt	328763.04	340806.83	Found 2" Aluminum Cap
Stationing based on 35th & McRae Alignment					

Horizontal Control - Sheet G10					
Point No.	Station	Offset	Northing	Easting	Description
624	53+46.00	30.43 Lt	328838.91	341078.25	Found 5/8" Rebar
623	54+50.84	29.81 Lt	328806.48	341177.94	Found 5/8" Rebar with Yellow Plastic Cap
619	55+93.55	0.00 Rt	328734.73	341304.87	Found 1-1/2" Aluminum Cap
618	56+45.67	0.04 Rt	328718.87	341354.51	Found 2" Aluminum Cap
615	58+36.48	32.35 Lt	328652.97	341541.59	Found 1-1/2" Aluminum Cap
614	58+69.45	35.13 Lt	328631.76	341569.81	Found 3-1/2" Aluminum Cap
617	59+43.24	0.00 Rt	328551.81	341595.44	Found 2" Aluminum Cap
Stationing based on 35th & McRae Alignment					

NOTES:

1. Whether listed or not, all monuments or property markers, corners, or accessories, which will be disturbed or buried, shall be referenced or re-established in their original position (A.S. 19.10.260) and recorded (A.S. 34.65.040).

2. Refer to Municipality of Anchorage Standard Specification (MASS) for additional requirements. Requirements for surveying and preservation of monumentation exist throughout the MASS. Relevant sections include, but are not limited to:
   Section 10.04 Article 4.7 Reference Stakes and Surveying
   Section 65.02 Construction Surveying

Horizontal Control

Coordinate System:
This project is located entirely within the Anchorage Bowl 2000 adjustment, a local surface grid coordinate system expressed in U.S. Survey feet units developed by the Alaska Department of Transportation.

Basis of Coordinates:
The Basis of Coordinates is NGS Station O'Malley, located near the intersection of the New Seward Highway and O'Malley Road. Said station has Anchorage Bowl 2000 coordinates of 303939.2310 N, 353362.5446 E. U.S. Survey Feet.

Basis of Bearings:
The Basis of Bearings is a local plane bearing between NGS Station O'Malley and NGS Station Loop 2 USE RM 3 1964. NGS Station Loop 2 USE RM 3 1964 bears N $01^{21}/_{32}$43'26.4" E a distance of 49488.4476 feet from NGS Station O'Malley. NGS Station Loop 2 USE RM 3 1964 has Anchorage Bowl 2000 coordinates of 353405.2778 N, 354851.3982 E. U.S. Survey Feet.

Translation Parameters:
To convert the local coordinates to NAD83 (92) State Plane coordinates expressed in U.S. Survey Feet, translate using +2,296,868.6878 N usf, +1,312,517.4904 E usf, and scale using 0.9998910192.

Vertical Control

Vertical control is based on the MOA Benchmark Network adjusted to NGS-72 monument GAAB 77, Elevation = 89.89 feet described as follows:

Beginning at the intersection of McRae Road and Caroline Drive; thence easterly 183 feet along McRae Road; thence northerly 90.5 feet to the south wall of the Spenard Fire Station. Monument is 36 feet west of the southeast corner. Monument is set vertically in a pilaster between two overhead doors.

PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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CONTRACTOR: _____
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PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

CONSTRUCTION RECORD

GRAPHIC 60 30 0 30 60 SCALE

FIELD BOOKS	
DESIGN	CRW Books 85 & MOA 2007-01
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	

VERTICAL DATUM

TBM NO.	LOCATION	ELEV.
GAAB77	See MOA Benchmark Book Page D-20	89.89

BASIS OF THIS DATUM GAAB 1972 Adjust

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
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CONSULTANT

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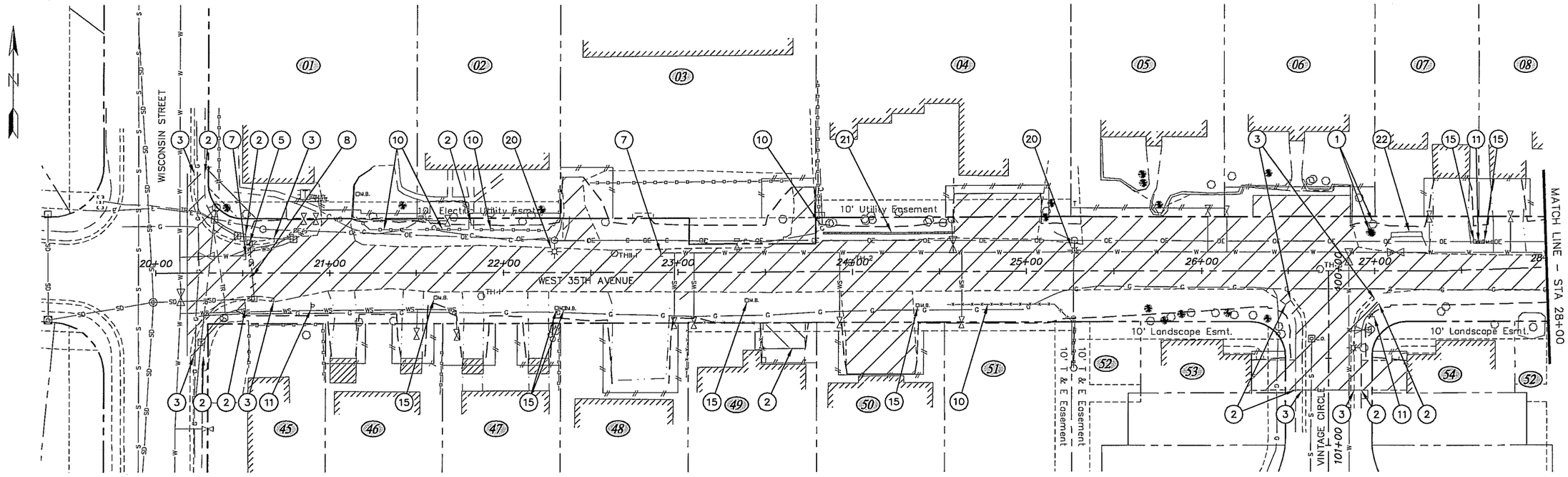
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS ALL
WISCONSIN STREET TO SPENARD ROAD

SURVEY CONTROL AND ROW MAP

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET G11 of G11

File: L:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\02 Survey\03 Survey Control\10104 SCS.dwg



LEGEND

(1) *REMOVE TREES AND SHRUBS WITHIN LIMITS OF DISTURBANCE, OR AS DIRECTED BY THE ENGINEER IN THE FIELD (SECTION 20.04).*

(2) *REMOVE SIDEWALK OR CONCRETE APRON (SECTION 20.07).*

(3) *REMOVE CURB AND GUTTER (SECTION 20.08).*

(5) *REMOVE MANHOLE OR CATCH BASIN (SECTION 55.11).*

(7) *REMOVE EXISTING PLUG, SEE WATER SHEETS FOR MORE INFORMATION.*

(8) *REMOVE PIPE (SECTION 70.07).*

(10) *REMOVE AND RESET FENCE (SECTION 70.08).*

(11) *REMOVE AND SALVAGE SIGN. THIS WORK SHALL BE INCIDENTAL TO THE BID ITEM STANDARD SIGNS (SECTION 70.11).*

(15) *REMOVE MAILBOX AND PROVIDE TEMPORARY GROUP MAILBOXES (SECTION 70.16). THE WORK REQUIRED FOR MAILBOX REMOVAL SHALL BE INCIDENTAL TO THE BID ITEM TEMPORARY GROUP MAILBOXES (SECTION 70.16).*

(20) *REMOVE LUMINAIRE FROM POLE (SECTION 80.28). THE WORK REQUIRED FOR LUMINAIRE REMOVAL SHALL BE INCIDENTAL TO SECTION 80.28.*

(21) *REMOVE EXISTING WOOD EDGING & PLACE ON PARCEL 4. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.*

(22) *REMOVE EXISTING WOOD PLANTER & PLACE ON PARCEL 7. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.*

REMOVAL OF PAVEMENT (SECTION 20.09) AND/OR, SIDEWALK, CURB & GUTTER, AND CONCRETE, AS SHOWN & NOTED IN SUMMARY TABLES.

— — APPROXIMATE LIMITS OF DISTURBANCE

\ \ \ REMOVE PIPE PER ITEM NUMBER ABOVE

NOTES:

1. *SEE SUMMARY TABLE SHEETS B6 – B8 FOR STATION AND OFFSET OF DEMOLITION ITEMS.*
2. *SEE ROADWAY IMPROVEMENTS (R) SHEETS FOR DRIVEWAY RECONSTRUCTION LIMITS.*
3. *SEE SIGNALIZATION (S) SHEETS FOR SIGNAL DEMOLITION ITEMS.*

PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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CONTRACTOR: _____
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PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

CONSTRUCTION RECORD

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books B5 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
DESIGN		ASBUILT	
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS ALL
WISCONSIN STREET TO SPENARD ROAD

DEMOLITION PLAN

WEST 35TH AVENUE
BOP TO STA 28+00

SCALE HOR. 1"=30' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET B1 of B8

File: J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 DEMO PLAN.dwg

LEGEND

(1) REMOVE TREES AND SHRUBS WITHIN LIMITS OF DISTURBANCE, OR AS DIRECTED BY THE ENGINEER IN THE FIELD (SECTION 20.04).

(4) SANITARY WASTEWATER SYSTEM REMOVAL (SECTION 50.22).

(5) REMOVE MANHOLE OR CATCH BASIN (SECTION 55.11).

(6) REMOVE AND SALVAGE EXISTING FIRE HYDRANT (SECTION 60.14).

(8) REMOVE PIPE (SECTION 70.07).

(9) REMOVE FENCE (SECTION 70.08).

(10) REMOVE AND RESET FENCE (SECTION 70.08).

(11) REMOVE AND SALVAGE SIGN. THIS WORK SHALL BE INCIDENTAL TO THE BID ITEM STANDARD SIGNS (SECTION 70.11).

(13) REMOVE BOLLARD (SECTION 70.13).

(14) REMOVE GUARDRAIL (SECTION 70.14).

(15) REMOVE MAILBOX AND PROVIDE TEMPORARY GROUP MAILBOXES (SECTION 70.16). THE WORK REQUIRED FOR MAILBOX REMOVAL SHALL BE INCIDENTAL TO THE BID ITEM TEMPORARY GROUP MAILBOXES (SECTION 70.16).

(16) RELOCATE MAILBOX (SECTION 70.17).

(19) REMOVE LOAD CENTER (SECTION 80.28). THE WORK REQUIRED FOR LOAD CENTER REMOVAL SHALL BE INCIDENTAL TO SECTION 80.28.

(20) REMOVE LUMINAIRE FROM POLE (SECTION 80.28). THE WORK REQUIRED FOR LUMINAIRE REMOVAL SHALL BE INCIDENTAL TO SECTION 80.28.

REMOVAL OF PAVEMENT (SECTION 20.09) AND/OR, SIDEWALK, CURB & GUTTER, AND CONCRETE, AS SHOWN & NOTED IN SUMMARY TABLES.

— — APPROXIMATE LIMITS OF DISTURBANCE

\\\ REMOVE PIPE PER ITEM NUMBER ABOVE

NOTES:

1. SEE SUMMARY TABLE SHEETS B6 – B8 FOR STATION AND OFFSET OF DEMOLITION ITEMS.
2. SEE ROADWAY IMPROVEMENTS (R) SHEETS FOR DRIVEWAY RECONSTRUCTION LIMITS.
3. SEE SIGNALIZATION (S) SHEETS FOR SIGNAL DEMOLITION ITEMS.

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GRAPHIC SCALE 60 30 0 30 60

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CONSTRUCTION RECORD | VERTICAL DATUM

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03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS ALL
WISCONSIN STREET TO SPENARD ROAD

DEMOLITION PLAN

WEST 35TH AVENUE & McRAE ROAD
STA 28+00 TO STA 36+00

SCALE HOR. 1"=30' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET B2 of B8

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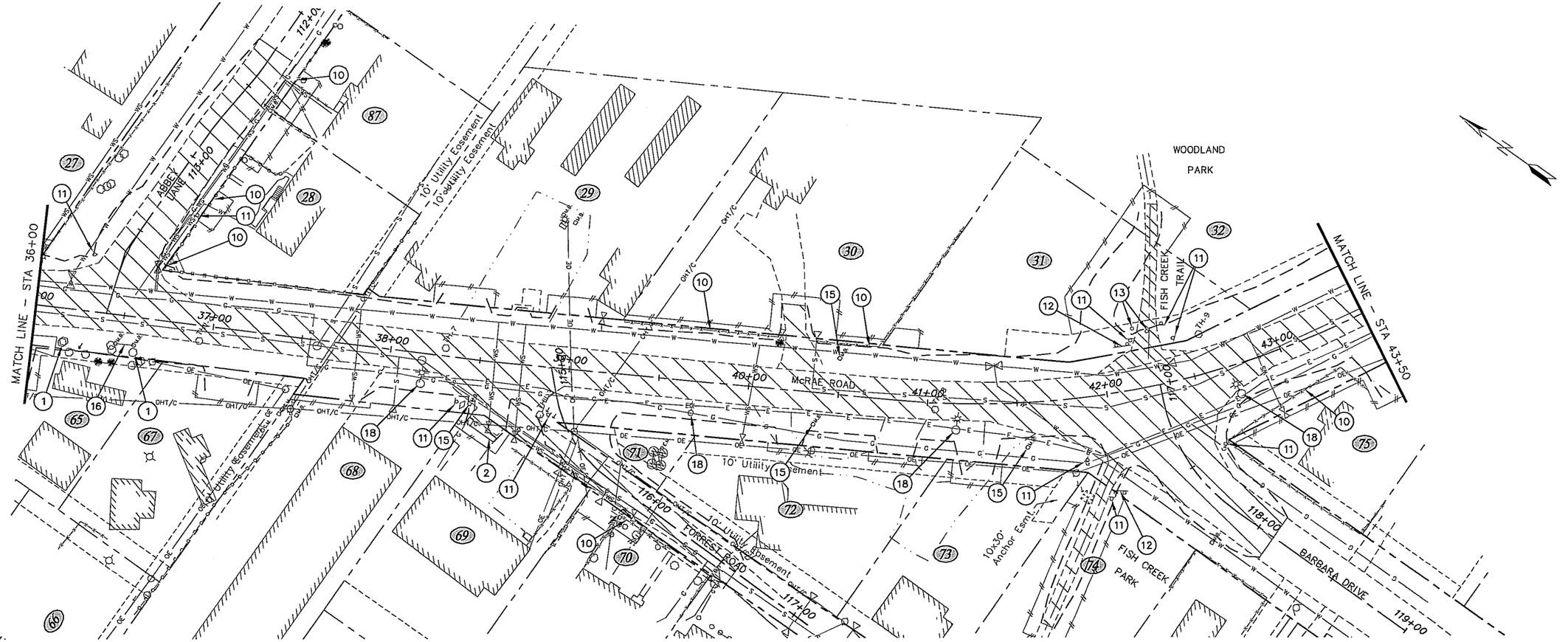

LEGEND

(1) REMOVE TREES AND SHRUBS WITHIN DISTURBANCE LIMITS, OR AS DIRECTED BY THE ENGINEER IN THE FIELD (SECTION 20.04).

(2) REMOVE SIDEWALK OR CONCRETE APRON (SECTION 20.07).

(10) REMOVE AND RESET FENCE (SECTION 70.08).

(11) REMOVE AND SALVAGE SIGN. THIS WORK SHALL BE INCIDENTAL TO THE BID ITEM STANDARD SIGNS (SECTION 70.11).

(12) REMOVE AND RELOCATE SIGNS (SECTION 70.11).

(13) REMOVE BOLLARD (SECTION 70.13).

(15) REMOVE MAILBOX AND PROVIDE TEMPORARY GROUP MAILBOXES (SECTION 70.16). THE WORK REQUIRED FOR MAILBOX REMOVAL SHALL BE INCIDENTAL TO THE BID ITEM TEMPORARY GROUP MAILBOXES (SECTION 70.16).

(16) RELOCATE MAILBOX (SECTION 70.17).

(18) REMOVE LUMINAIRE POLE (SECTION 80.28).

▨ REMOVAL OF PAVEMENT (SECTION 20.09) AND/OR, SIDEWALK, CURB & GUTTER, AND CONCRETE, AS SHOWN & NOTED IN SUMMARY TABLES.

– – APPROXIMATE LIMITS OF DISTURBANCE

NOTES:

1. SEE SUMMARY TABLE SHEETS B6 – B8 FOR STATION AND OFFSET OF DEMOLITION ITEMS.
2. SEE ROADWAY IMPROVEMENTS (R) SHEETS FOR DRIVEWAY RECONSTRUCTION LIMITS.
3. SEE SIGNALIZATION (S) SHEETS FOR SIGNAL DEMOLITION ITEMS.

PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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CONTRACTOR: _____
BY: _____ TITLE: _____ DATE: _____
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DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
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DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			
CONSTRUCTION RECORD	VERTICAL DATUM		

REV	DATE	DESCRIPTION	BY
REVISIONS			

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
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CONSULTANT

STATE OF ALASKA 49TH
Justin T. Keene
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REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

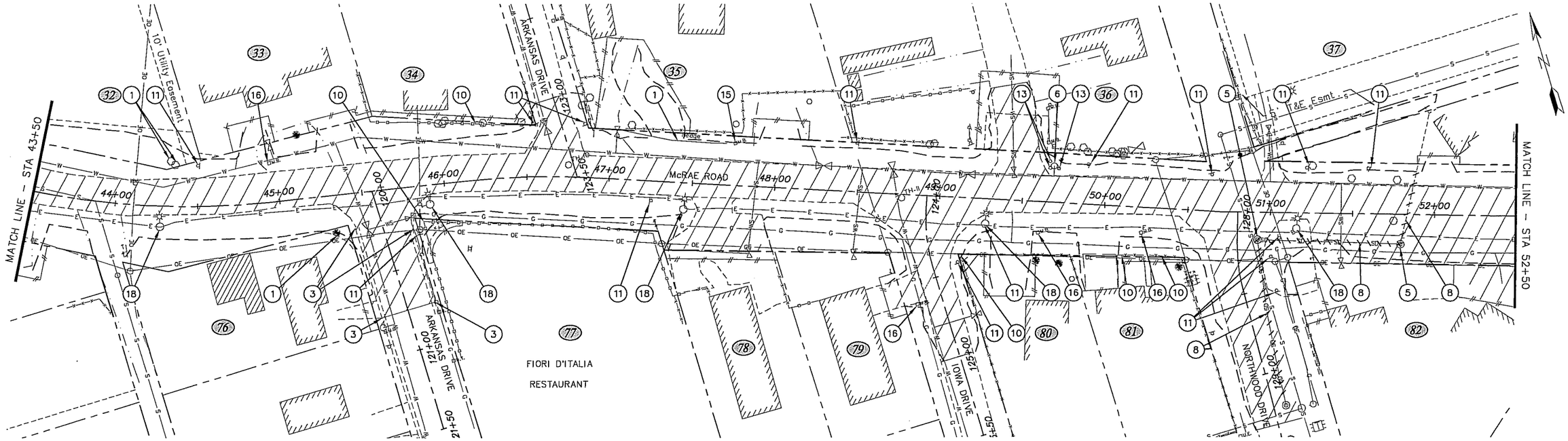
03–09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS ALL
WISCONSIN STREET TO SPENARD ROAD

DEMOLITION PLAN

McRAE ROAD
STA 36+00 TO STA 43+50

SCALE HOR. 1"=30' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET B3 of B8

File: K:\Jobdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 DEMO PLAN.dwg



LEGEND

(1) *REMOVE TREES AND SHRUBS WITHIN DISTURBANCE LIMITS, OR AS DIRECTED BY THE ENGINEER IN THE FIELD (SECTION 20.04).*

(3) *REMOVE CURB AND GUTTER (SECTION 20.08).*

(5) *REMOVE MANHOLE OR CATCH BASIN (SECTION 55.11).*

(6) *REMOVE AND SALVAGE EXISTING FIRE HYDRANT (SECTION 60.14).*

(8) *REMOVE PIPE (SECTION 70.07).*

(10) *REMOVE AND RESET FENCE (SECTION 70.08).*

(11) *REMOVE AND SALVAGE SIGN. THIS WORK SHALL BE INCIDENTAL TO THE BID ITEM STANDARD SIGNS (SECTION 70.11).*

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(16) *RELOCATE MAILBOX (SECTION 70.17).*

(18) *REMOVE LUMINAIRE POLE (SECTION 80.28).*

▨ *REMOVAL OF PAVEMENT (SECTION 20.09) AND/OR, SIDEWALK, CURB & GUTTER, AND CONCRETE, AS SHOWN & NOTED IN SUMMARY TABLES.*

– – *APPROXIMATE LIMITS OF DISTURBANCE*

\\\ *REMOVE PIPE PER ITEM NUMBER ABOVE*

NOTES:

1. *SEE SUMMARY TABLE SHEETS B6 – B8 FOR STATION AND OFFSET OF DEMOLITION ITEMS.*
2. *SEE ROADWAY IMPROVEMENTS (R) SHEETS FOR DRIVEWAY RECONSTRUCTION LIMITS.*
3. *SEE SIGNALIZATION (S) SHEETS FOR SIGNAL DEMOLITION ITEMS.*

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MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
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INSPECTOR			
CONSTRUCTION RECORD	VERTICAL DATUM		

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PROJECT MANAGEMENT AND ENGINEERING DIVISION

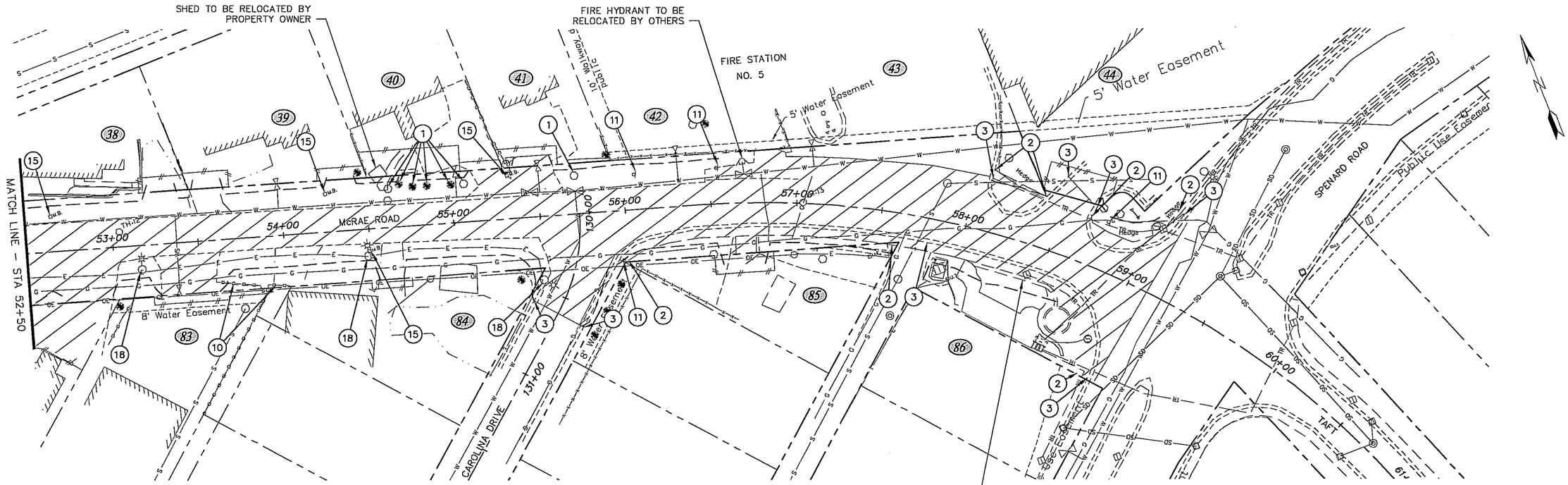
03–09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS ALL
WISCONSIN STREET TO SPENARD ROAD

DEMOLITION PLAN

McRAE ROAD
STA 43+50 TO STA 52+50

SCALE HOR. 1"=30' VER. N/A | DATE FEB 2012 | GRID 1627/1727/1728 | STATUS 95% DESIGN | SHEET B4 of B8

File: J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 DEMO PLAN.dwg



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— — *APPROXIMATE LIMITS OF DISTURBANCE*

NOTES:

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PLAN CHECK		

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
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McRAE ROAD
STA 52+50 TO EOP

SCALE HOR. 1"=30' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET B5 of B8

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20.07

REMOVE SIDEWALK OR CONCRETE APRON (2)

SHEET	APPX STATION BEGIN	APPX OFFSET (FT)	APPX STATION END	APPX OFFSET (FT)	AREA (SY)	REMARKS
B1	20+27.47	47.4 RT	20+51.7	20.2 RT	24	WISCONSIN AND WEST 35TH
B1	20+28.07	56.9 LT	20+51.5	22.2 LT	30	WISCONSIN AND WEST 35TH
B1	21+80.0	31.0 LT	21+82.8	31.0 LT	2	PARCEL 2 SIDEWALK
B1	23+48.0	52.0 RT	23+72.6	53.0 RT	65	PARCEL 49 DRIVEWAY
B1	26+48.5	19.4 RT	26+54.3	68.2 RT	22	VINTAGE CIRCLE
B1	26+92.3	68.2 RT	27+02.3	18.8 RT	23	VINTAGE CIRCLE
B3	38+46.4	35.1 RT	38+62.0	44.3 RT	6	PARCEL 69 DRIVEWAY
B5	56+00.1	29.0 RT	58+94.9	59.5 RT	210	
B5	58+08.2	35.6 LT	58+39.0	29.2 LT	49	
B5	58+66.4	27.0 LT	59+08.5	51.0 LT	42	

20.08

REMOVE CURB AND GUTTER (3)

SHEET	APPX STATION BEGIN	APPX OFFSET (FT)	APPX STATION END	APPX OFFSET (FT)	LENGTH (FT)	REMARKS
B1	20+22.1	47.4 RT	20+67.7	16.3 RT	65	WEST 35TH AVENUE
B1	20+22.1	56.9 LT	20+67.9	19.8 LT	72	WEST 35TH AVENUE
B1	26+51.3	16.8 RT	26+58.2	68.2 RT	53	VINTAGE CIRCLE
B1	26+88.3	68.2 RT	26+99.9	15.8 RT	56	VINTAGE CIRCLE
B4	45+44.0	21.0 RT	45+54.5	76.7 RT	57	ARKANSAS DRIVE
B4	45+78.4	25.6 RT	45+87.1	70.5 RT	46	ARKANSAS DRIVE
B5	55+43.2	48.5 RT	55+47.4	42.0 RT	8	CAROLINA DRIVE
B5	55+71.0	65.8 RT	59+02.5	59.6 RT	375	CAROLINA DR & McRAE RD
B5	58+08.3	31.0 LT	58+46.9	44.3 LT	66	McRAE ROAD
B5	58+67.3	33.7 LT	59+12.0	50.2 LT	82	McRAE ROAD

20.09

REMOVE PAVEMENT

SHEET	STATION TO STATION	OFFSET	AREA (SY)	REMARKS
B1	BOP TO 28+00	LT & RT	3537	WEST 35TH AVE, VINTAGE CIR, & DRIVEWAYS
B2	28+00 TO 36+00	LT & RT	4181	WEST 35TH AVE, McRAE RD, SIDE STREETS & DRIVEWAYS
B3	36+00 TO 43+50	LT & RT	3531	McRAE RD, SIDE STREETS, TRAILS & DRIVEWAYS
B4	43+50 TO 52+50	LT & RT	3954	McRAE RD, SIDE STREETS, TRAIL & DRIVEWAYS
B5	52+50 TO EOP	LT & RT	2884	McRAE RD, SIDE STREETS & DRIVEWAYS

NOTES: 1. SEE ROADWAY IMPROVEMENT SHEETS FOR ROADWAY PAVEMENT REMOVAL LIMITS.
2. SEE DRIVEWAY RECONSTRUCTION TABLE FOR DRIVEWAY PAVEMENT REMOVAL LIMITS.

50.22

SANITARY WASTEWATER SYSTEM REMOVAL (4)

SHEET	APPX STATION BEGIN	APPX OFFSET (FT)	APPX STATION END	APPX OFFSET (FT)	ITEM	REMARKS	SCHEDULE
B2	10+42.0	CL	11+17.6	37.3 LT	30" PIPE	71.6 LF	E
B2	10+46.3	72.9 LT	11+17.6	37.3 LT	30" PIPE	42.2 LF	E
B2	11+17.6	37.3 LT	N/A	N/A	MANHOLE		E
B2	11+17.6	37.3 LT	12+15.3	CL	12" PIPE	83.2 LF	E
B2	11+92.6	CL	N/A	N/A	MANHOLE		E
B2	11+92.6	CL	12+15.3	CL	8" PIPE	22.7 LF	E
B2	12+15.3	CL	N/A	N/A	MANHOLE		E
B2	11+92.6	CL	13+39.4	CL	12" PIPE	146.8 LF	E
B2	13+39.4	CL	N/A	N/A	MANHOLE		E

20.08

REMOVE MANHOLE OR CATCH BASIN (5)

SHEET	APPX STATION	APPX OFFSET (FT)	CATCH BASIN	MANHOLE	REMARKS
B1	20+54.0	17.4 LT	X		
B2	31+18.0	17.4 LT		X	
B2	31+34.2	0.2 RT		X	
B2	31+52.8	36.7 LT		X	
B2	32+81.7	3.7 LT		X	
B2	33+48.1	10.6 RT		X	
B2	33+56.7	2.2 RT		X	
B4	50+92.2	16.6 RT		X	
B4	51+79.6	17.9 RT		X	

60.14

REMOVE AND SALVAGE EXISTING FIRE HYDRANT (6)

SHEET	APPX STATION	APPX OFFSET (FT)	REMARKS
B2	30+66.0	13.3 RT	HYDRANT LEG SHALL REMAIN IN PLACE
B2	35+94.0	23.2 LT	
B4	49+68.0	21.9 LT	

70.07

REMOVE PIPE (8)

SHEET	APPX STATION BEGIN	APPX OFFSET (FT)	APPX STATION END	APPX OFFSET (FT)	SIZE (INCH)	LENGTH (FT)	REMARKS
B1	20+54.0	17.4 LT	20+56.6	14.7 RT	12	32.2	STORM DRAIN
B2	31+18.3	17.4 LT	31+34.2	0.2 RT	12	23.7	STORM DRAIN
B2	31+30.4	41.5 LT	31+34.2	0.2 RT	12	41.9	STORM DRAIN
	31+34.2	0.2 RT	31+52.8	36.7 LT	12	41.4	STORM DRAIN
B2	31+34.2	0.2 RT	32+81.7	3.7 LT	12	147.7	STORM DRAIN
B2	32+81.7	3.7 LT	33+48.1	10.6 RT	24	67.2	STORM DRAIN
B2	33+48.1	10.6 RT	33+77.1	63.7 RT	48	59.1	STORM DRAIN
B2	33+48.1	10.6 RT	33+56.7	2.2 RT	48	11.9	STORM DRAIN
B2	33+56.7	2.2 RT	33+88.2	46.2 LT	48	58.8	STORM DRAIN
B4	51+11.4	116.3 RT	50+92.2	16.6 RT	15	101.5	STORM DRAIN
B4	50+92.2	16.6 RT	51+79.6	17.9 RT	15	87.4	STORM DRAIN
B4	51+79.6	17.9 RT	51+89.6	30.6 LT	15	49.5	STORM DRAIN

70.08

REMOVE FENCE (9)

SHEET	APPX STATION BEGIN	APPX OFFSET (FT)	APPX STATION END	APPX OFFSET (FT)	LENGTH (FT)	REMARKS
B1	23+80.8	26.4 LT	23+80.8	31.0 LT	4.6	WOOD
B2	28+19.9	18.0 LT	28+20.1	28.5 LT	10.5	WOOD
B2	28+63.1	13.3 LT	28+63.3	28.5 LT	15.3	WOOD
B2	29+13.9	8.3 LT	29+14.2	26.0 LT	20.2	CHAIN LINK
B2	30+14.4	11.5 LT	30+14.3	28.5 LT	17.0	CHAIN LINK
B2	30+30.7	28.5 LT	30+33.1	12.2 LT	16.6	CHAIN LINK
B2	30+64.6	14.3 LT	30+64.0	28.5 LT	14.2	CHAIN LINK
B2	33+55.5	5.8 RT	33+80.8	60.8 RT	59.5	CHAIN LINK
B2	33+55.5	5.8 RT	33+66.7	1.3 RT	11.9	CHAIN LINK
B2	33+66.7	1.3 RT	34+31.8	6.8 RT	64.9	CHAIN LINK
B2	33+80.8	60.8 RT	33+96.8	61.1 RT	13.2	CHAIN LINK
B2	33+96.8	61.1 RT	34+33.4	102.3 RT	48.3	CHAIN LINK
B2	34+31.8	6.8 RT	34+19.3	42.2 RT	37.3	CHAIN LINK
B2	34+33.4	102.3 RT	34+76.1	76.7 RT	40.7	CHAIN LINK
B2	34+49.7	73.4 RT	34+63.4	67.6 RT	12.4	CHAIN LINK
B2	34+63.4	67.6 RT	34+76.1	76.7 RT	13.5	CHAIN LINK

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DEMOLITION SUMMARY

SCALE HOR. VER. | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET B6 of B8

File: J:\Jobsdata\01104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\01104 DEMO SUMMARY.dwg

70.08

REMOVE AND RESET FENCE (10)

SHEET	EXISTING LOCATION APPX BEGIN STATION	EXISTING LOCATION APPX END STATION	EXISTING LOCATION APPX BEGIN OFFSET (FT)	EXISTING LOCATION APPX END OFFSET (FT)	PROPOSED LOCATION APPX BEGIN STATION	PROPOSED LOCATION APPX END STATION	PROPOSED LOCATION APPX BEGIN OFFSET (FT)	PROPOSED LOCATION APPX END OFFSET (FT)	LENGTH (FT)	REMARKS
B1	21+16.2	21+79.8	24.7 LT	24.7 LT	21+16.2	21+79.8	31.0 LT	31.0 LT	66.0	WOOD
B1	21+83.4	22+32.0	24.6 LT	24.6 LT	21+83.4	22+32.0	31.0 LT	31.0 LT	51.4	WOOD
B1	24+54.6	25+26.6	18.9 RT	18.9 RT	24+54.6	25+26.6	29.0 RT	29.0 RT	76.1	CHAIN LINK
B2	28+35.4	28+63.1	17.3 LT	13.3 LT	28+35.4	28+63.1	28.5 LT	28.5 LT	27.6	WOOD
B2	28+81.4	29+13.5	12.6 LT	11.2 LT	28+81.4	29+13.5	28.5 LT	28.5 LT	32.1	CHAIN LINK
B2	30+33.1	31+12.3	12.3 LT	19.6 LT	30+30.7	31+08.6	28.5 LT	30.0 LT	80.7	CHAIN LINK
B2	31+12.3	31+09.2	19.6 LT	76.5 LT	31+11.0	31+08.1	38.3 LT	76.5 LT	57.0	CHAIN LINK
B2	33+80.0	33+85.5	49.2 LT	51.6 LT	33+80.0	33+85.5	49.2 LT	51.6 LT	6.6	WOOD
B2	33+85.5	34+33.7	49.2 LT	35.6 LT	33+85.5	34+33.7	49.2 LT	35.6 LT	56.5	WOOD, TURNAGAIN ST
B2	34+33.7	34+44.9	35.6 LT	57.7 LT	34+33.7	34+44.9	35.6 LT	57.7 LT	24.4	WOOD
B2	34+74.3	35+30.9	26.9 LT	25.5 LT	34+74.3	35+31.5	28.4 LT	27.9 LT	61.3	WOOD
B2	35+88.3	36+00.3	29.7 LT	28.2 LT	35+88.3	36+01.2	28.2 LT	29.8 LT	13.9	WOOD
B3	36+86.4	36+91.0	61.8 LT	40.7 LT	36+86.4	36+91.0	61.8 LT	40.7 LT	10	WOOD
B3	37+27.7	37+30.0	139.6 LT	144.0 LT	37+27.7	37+30.0	139.6 LT	144.0 LT	7	CHAIN LINK
B3	36+69.0	36+74.6	27.9 LT	27.7 LT	36+71.1	36+74.8	33.1 LT	27.9 LT	6.1	WOOD
B3	39+27.8	40+13.7	29.0 LT	28.9 LT	39+28.0	40+13.8	30.0 LT	30.0 LT	85.9	CHAIN LINK
B3	115+90.6	116+00.6	12.5 RT	12.1 RT	115+90.6	116+00.6	12.5 RT	12.1 RT	10.0	CHAIN LINK, FOREST RD
B3	40+32.0	40+69.8	28.4 LT	28.7 LT	40+31.9	40+70.6	30.0 LT	30.0 LT	37.9	CHAIN LINK
B3	42+60.9	43+26.7	38.7 RT	22.0 RT	42+60.9	43+30.7	38.7 RT	30.8 RT	81.7	CHAIN LINK
B4	45+59.5	46.53.3	41.6 LT	31.1 LT	45+58.7	46+53.4	44.6 LT	31.3 LT	101.3	CHAIN LINK
B4	45+88.3	45+85.4	41.0 RT	21.5 RT	45+88.3	45+91.0	41.0 RT	29.4 RT	19.6	WOOD
B4	45+85.4	46+08.4	21.5 RT	24.7 RT	45+91.0	46+08.4	29.4 RT	24.7 RT	18.0	WOOD
B4	49+17.8	49+14.5	43.6 RT	34.0 RT	49+17.8	49+24.8	43.6 RT	33.7 RT	13.7	CHAIN LINK
B4	50+08.8	50+25.0	29.7 RT	28.8 RT	50+08.8	50+25.0	30.4 RT	29.7 RT	16.2	CHAIN LINK
B4	50+28.5	50+47.5	28.6 RT	28.7 RT	50+28.5	50+47.5	29.6 RT	28.8 RT	19.0	CHAIN LINK
B5	53+59.6	54+01.8	24.2 RT	29.5 RT	53+61.0	54+01.7	29.9 RT	30.0 RT	40.7	WOOD

NOTE: PROVIDE TEMPORARY FENCING PER SECTION 70.22 FOR ALL FENCES REMOVED OR AS DIRECETED BY THE ENGINEER.

70.11

REMOVE EXISTING SIGNS (11)

SHEET	APPX STATION	APPX OFFSET (FT)	SIGN TYPE	LEGEND	SIGN POST	REMARKS
B1	20+90	18.6 RT	R2-1	SPEED LIMIT 25	PERFORATED STEEL TUBE	
			W16-C	CHILDREN AT PLAY		
B1	26+98	25.3 RT	R1-1	STOP	PERFORATED STEEL TUBE	
			D3-1D	W 35TH AV		
			D3-1D	VINTAGE CIR		
B1	27+60	15.8 LT	R7P-101	NO PARKING ANYTIME	PERFORATED STEEL TUBE	
			R7-203D	DOUBLE ARROW		
B2	28+23	14.1 LT	R7P-101	NO PARKING ANYTIME	WOOD UTILITY POLE	
			R7-203D	DOUBLE ARROW		
B2	29+14	7.0 LT	R7P-101	NO PARKING ANYTIME	PERFORATED STEEL TUBE	
			R7-203D	DOUBLE ARROW		
B2	31+15	15.3 RT	R1-1	STOP	PERFORATED STEEL TUBE	
			D3-1D	W 35TH AV McRAE RD		
			D3-1D	TURNAGAIN ST		
B2	31+17	27.3 LT	R1-1	STOP	PERFORATED STEEL TUBE	
B2	31+32	19.8 RT	W1-7	DOUBLE ARROW	PERFORATED STEEL TUBE	
B2	33+36	29.5 LT	R1-1	STOP	PERFORATED STEEL TUBE	
B2	33+49	18.5 RT	R1-1	STOP	PERFORATED STEEL TUBE	
			D3-1D	McRAE RD		
			D3-1D	TURNAGAIN BLVD EAST		

PRELIMINARY

70.11

REMOVE EXISTING SIGNS (11)

SHEET	APPX STATION	APPX OFFSET (FT)	SIGN TYPE	LEGEND	SIGN POST	REMARKS
B2	35+47	36.0 LT	R1-1	STOP	PERFORATED STEEL TUBE	
			D3-1D	McRAE RD		
			D3-1D	KONA LANE		
B3	36+29	31.6 LT	R1-1	STOP	PERFORATED STEEL TUBE	
			D3-1D	McRAE RD		
			D3-1D	ABBEY LANE		
B3	36+83	60.3 LT	W14-1	DEAD END	PERFORATED STEEL TUBE	
B3	38+40	24.4 RT	W11-1	BICYCLE	PERFORATED STEEL TUBE	
B3	38+91	26.3 RT	R1-1	STOP	PERFORATED STEEL TUBE	
			D3-1D	McRAE RD		
			D3-1D	FOREST RD		
B3	41+85	35.0 RT	W11-1	BICYCLE CROSSING	PERFORATED STEEL TUBE	
B3	41+95	57.9 RT	R5-3A	UNAUTHROIZED MOTOR VEHICLES PROHIBITED	PERFORATED STEEL TUBE	
			D11-1	BIKE ROUTE		
B3	42+18	27.4 LT	R1-1	STOP (BIKE)	PERFORATED STEEL TUBE	
B3	42+38	33.0 LT	R5-3A	UNAUTHROIZED MOTOR VEHICLES PROHIBITED	PERFORATED STEEL TUBE	
			D11-1	BIKE ROUTE		
			SPECIAL	PLEASE REMOVE ANIMAL WASTE		
B3	42+43	23.7 LT	W11-1	BICYCLE CROSSING	PERFORATED STEEL TUBE	
B3	42+57	40.7 RT	R1-1	STOP	PERFORATED STEEL TUBE	
			D3-1D	McRAE RD		
			D3-1D	BARBARA DR		
B4	44+51	24.6 LT	W11-1	BICYCLE CROSSING	PERFORATED STEEL TUBE	
B4	45+82	28.1 RT	R1-1	STOP	PERFORATED STEEL TUBE	
			D3-1D	McRAE RD		
			D3-1D	ARKANSAS DR		
B4	46+56	31.1 LT	R1-1	STOP	PERFORATED STEEL TUBE	
			D3-1D	McRAE RD		
			D3-1D	ARKANSAS DR		
B4	46+84	32.2 LT	W14-1	DEAD END	PERFORATED STEEL TUBE	
B4	47+26	11.7 RT	W11-2	PEDESTRIAN CROSSING	PERFORATED STEEL TUBE	
B4	48+48	29.5 LT	W11-1	BICYCLE CROSSING	PERFORATED STEEL TUBE	
B4	49+13	39.0 RT	R1-1	STOP	PERFORATED STEEL TUBE	
B4	49+17	32.8 LT	W14-1	DEAD END	PERFORATED STEEL TUBE	
B4	49+28	13.0 RT	D3-1D	McRAE RD	LIGHT POLE	
			D3-1D	IOWA DR		
B4	49+89	23.9 LT	R7P-101	NO PARKING ANYTIME	PERFORATED STEEL TUBE	
			R7-203D	DOUBLE ARROW		
B4	50+63	22.0 LT	R7P-101	NO PARKING ANYTIME	PERFORATED STEEL TUBE	
			R7-203D	DOUBLE ARROW		
B4	51+01	26.5 RT	R1-1	STOP	PERFORATED STEEL TUBE	
			D3-1D	McRAE RD		
			D3-1D	NORTHWOOD DR		
B4	51+04	47.0 RT	D11-1	BIKE ROUTE	PERFORATED STEEL TUBE	

NOTE:
1. WORK TO REMOVE EXISTING SIGNS & POSTS SHALL BE INCIDENTAL TO 70.11 STANDARD SIGN PAY ITEM.
2. SEE SHEET B8 FOR REMOVE EXISTING SIGN TABLE CONTINUED.

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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: _____ TITLE: _____
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.
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COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books B5 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR			
INSPECTOR			
CONSTRUCTION RECORD			

VERTICAL DATUM: BASIS OF THIS DATUM GAAB 1972 Adjust

REV	DATE	DESCRIPTION	BY
REVISIONS			

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273
CONSULTANT

STATE OF ALASKA 49TH
Justin T. Keene
CE-11775
REGISTERED PROFESSIONAL ENGINEER
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MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS WISCONSIN STREET TO SPENARD ROAD ALL

DEMOLITION SUMMARY

SCALE HOR. VER.
DATE FEB 2012
CRID1627/1727/1728
STATUS 95% DESIGN
SHEET B7 of B8

File: J:\Jobdata\01104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\01104 DEMO SUMMARY.dwg

70.11

REMOVE EXISTING SIGNS (11)

SHEET	APPX STATION	APPX OFFSET (FT)	SIGN TYPE	LEGEND	SIGN POST	REMARKS
B4	51+06	15.2 RT	W11-1	BICYCLE CROSSING	PERFORATED STEEL TUBE	
			W11-2	PEDESTRIAN CROSSING		
B4	51+22	27.2 LT	W11-1	BICYCLE CROSSING	PERFORATED STEEL TUBE	
			W11-2	PEDESTRIAN CROSSING		
B4	51+59	27.5 LT	R7P-101	NO PARKING ANYTIME	PERFORATED STEEL TUBE	
			R7-203D	DOUBLE ARROW		
B5	55+97	28.6 RT	R1-1	STOP	PERFORATED STEEL TUBE	
			D3-1D	McRAE RD		
			D3-1D	CAROLINA DR		
B5	56+06	20.4 LT	D13-3	SNOW ROUTE	PERFORATED STEEL TUBE	
B5	56+54	20.8 LT	R2-1	SPEED LIMIT 25	PERFORATED STEEL TUBE	
			W16-C	CHILDREN AT PLAY		
B5	58+76	27.9 LT	D9-14A	POLICE SUBSTATION	PERFORATED STEEL TUBE	

NOTE:
1. WORK TO REMOVE EXISTING SIGNS & POSTS SHALL BE INCIDENTAL TO 70.11 STANDARD SIGN PAY ITEM.

70.11

REMOVE AND RELOCATE SIGNS (12)

EXISTING LOCATION			NEW LOCATION				
SHEET	APPX STATION	APPX OFFSET (FT)	APPX STATION	APPX OFFSET (FT)	LEGEND	SIGN POST	REMARKS
B3	419+93	52.2 RT	SEE REMARKS		FISH CREEK PARK MUNICIPALITY OF ANCHORAGE PARKS AND RECREATION PARK CLOSED 11 PM TO 6 AM	2 WOOD BOLLARDS	SEE LANDSCAPING SHEETS FOR NEW LOCATION
B3	42+13	25.0 LT	SEE REMARKS		WOODLAND PARK MUNICIPALITY OF ANCHORAGE PARKS AND RECREATION	2 WOOD BOLLARDS	SEE LANDSCAPING SHEETS FOR NEW LOCATION

70.13

REMOVE BOLLARD (13)

SHEET	APPX STATION	APPX OFFSET (FT)	REMARKS
B2	30+69.3	10.6 LT	STEEL
B3	42+20.7	33.7 LT	STEEL
B3	42+28.9	30.6 LT	STEEL
B4	49+65.8	24.6 LT	STEEL
B4	49+66.0	20.6 LT	STEEL
B4	49+71.2	20.4 LT	STEEL

70.14

REMOVE GUARDRAIL (14)

SHEET	APPX STATION BEGIN	APPX OFFSET (FT)	APPX STATION END	APPX OFFSET (FT)	LENGTH (FT)	REMARKS
B1	31+15.4	20.0 LT	31+12.8	57.5 LT	37.6	

70.16

REMOVE MAILBOX (15)

SHEET	APPX STATION	APPX OFFSET (FT)	REMARKS
B1	21+61.2	14.2 RT	MULTIPLE BOXES ON ONE POST
B1	22+30.4	20.3 RT	MULTIPLE BOXES ON ONE POST
B1	22+34.8	20.5 RT	MULTIPLE BOXES ON ONE POST
B1	23+39.5	16.2 RT	
B1	24+37.6	19.3 RT	MULTIPLE BOXES ON ONE POST
B1	27+58.2	16.1 LT	MULTIPLE BOXES ON ONE POST
B1	27+63.2	15.7 LT	MULTIPLE BOXES ON ONE POST
B2	28+12.2	12.5 LT	
B2	28+46.5	18.5 RT	
B2	28+84.3	8.4 LT	
B2	29+42.5	9.1 LT	
B2	29+43.3	17.6 RT	
B2	29+89.6	11.2 LT	
B2	30+37.3	8.4 LT	
B2	30+48.1	18.2 RT	
B2	30+77.8	19.2 RT	
B2	31+43.6	13.9 RT	
B2	32+16.3	30.5 LT	MULTIPLE BOXES ON ONE POST
B3	38+47.4	24.5 RT	
B3	40+38.0	17.8 RT	MULTIPLE BOXES ON ONE POST
B3	40+49.4	20.4 LT	
B3	41+54.9	25.2 RT	MULTIPLE BOXES ON ONE POST
B4	47+74.9	25.5 LT	MULTIPLE BOXES ON ONE POST
B5	52+64.9	20.4 LT	MULTIPLE BOXES ON ONE POST
B5	54+25.7	22.1 LT	MULTIPLE BOXES ON ONE POST
B5	54+49.6	12.9 RT	
B5	55+32.5	12.9 RT	

NOTES:
1. PROVIDE TEMPORARY GROUP MAILBOXES FOR ALL MAILBOXES REMOVED. PROVIDE FOUR TEMPORARY GROUP MAILBOXES AT APPROX LOCATION OF PROPOSED PCC CLUSTER MAILBOX BASES. VERIFY LOCATION WITH ENGINEER PRIOR TO REMOVAL.
2. WORK TO REMOVE MAILBOX SHALL BE INCIDENTAL TO 70.16 TEMPORARY GROUP MAILBOXES PAY ITEM.

PRELIMINARY

RELOCATE MAILBOX (16)

EXISTING LOCATION			NEW LOCATION		
SHEET	STATION	APPX OFFSET (FT)	STATION	APPX OFFSET (FT)	REMARKS
B2	31+08	108.8 LT	31+10	108.7 LT	PARCEL 14
B3	36+52	15.8 RT	36+52	17.5 RT	PARCEL 65, CLUSTER MAILBOX
B4	44+96.0	23.5 LT	45+47	44.4 RT	
B4	48+90.4	65.7 RT	48+91	67.7 RT	PARCEL 79
B4	49+60.8	18.7 RT	50+70	55.4 RT	PARCEL 80
B4	50+22.8	15.2 RT	50+70	57.6 RT	PARCEL 81

NOTE: SEE SHEET D8 FOR MAILBOX INSTALLATION DETAILS.

80.23

REMOVE LUMINAIRE POLE (18)

SHEET	STATION	APPX OFFSET (FT)	REMARKS
B3	38+19	16.9 RT	
B3	39+70	17.8 RT	
B3	41+16	14.6 RT	
B3	42+72	16.5 RT	
B4	44+28	12.4 RT	
B4	45+90	11.6 RT	
B4	47+46	16.0 RT	
B4	49+28	15.0 RT	
B4	51+16	09.5 RT	
B5	53+16	13.9 RT	
B5	54+49	15.5 RT	
B5	55+50	36.7 RT	

80.23

REMOVE LOAD CENTER (19)

SHEET	APPX STATION	APPX OFFSET (FT)	REMARKS
B2	28+08	28.9 RT	SEE ELECTRICAL FOR DETAILS

80.23

REMOVE LUMINAIRE FROM UTILITY POLE (20)

SHEET	STATION	APPX OFFSET (FT)	REMARKS
B1	22+29	18.5 LT	
B1	25+28	17.5 LT	
B2	28+23	14.1 LT	
B2	31+13	18.4 LT	
B2	33+10	37.9 LT	
B2	36+00	32.8 LT	

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COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
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STATE OF ALASKA 49TH
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CE-11775
REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

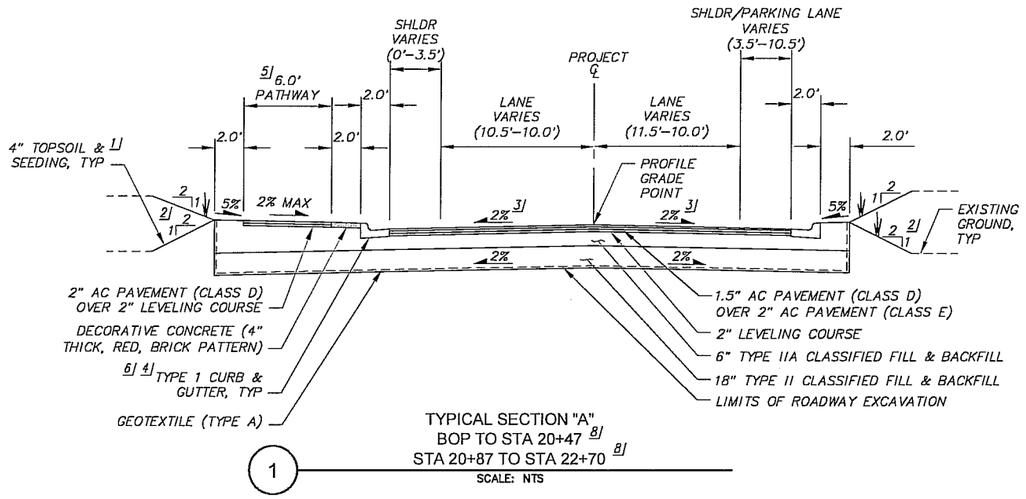
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS ALL
WISCONSIN STREET TO SPENARD ROAD

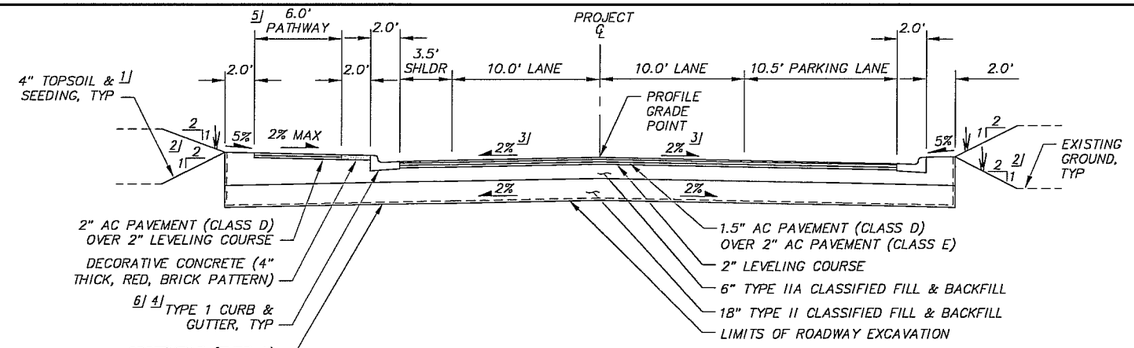
DEMOLITION SUMMARY

SCALE HOR.
VER.
DATE FEB 2012 GRID1627/1727/1728
STATUS 95% DESIGN
SHEET B8 of B8

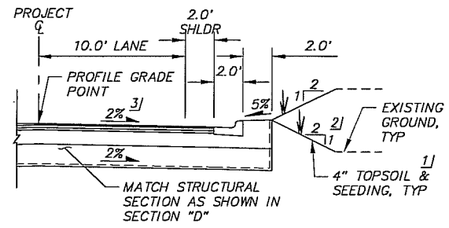
File: J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 DEMO SUMMARY.dwg



TYPICAL SECTION "A"
BOP TO STA 20+47 8/
STA 20+87 TO STA 22+70 8/
1 SCALE: NTS



TYPICAL SECTION "C"
STA 22+70 TO STA 25+20
STA 51+50 TO STA 52+60
3 SCALE: NTS

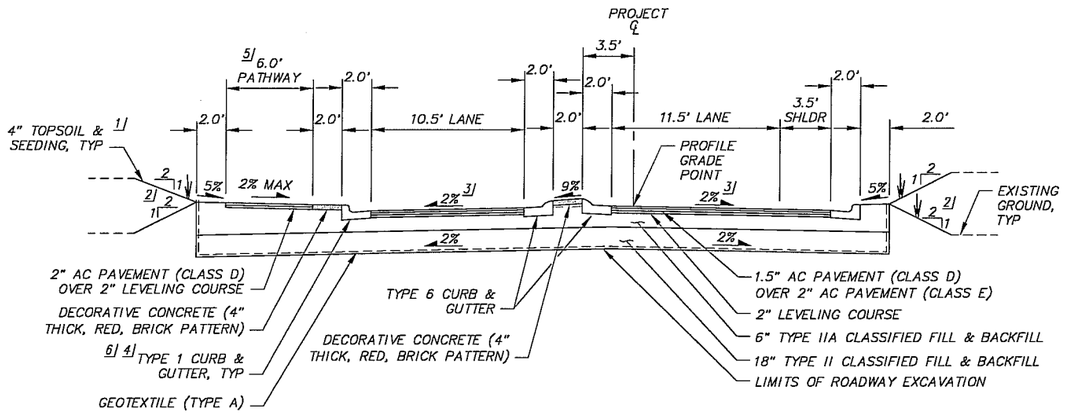


AT CURB NECKDOWNS
STA 50+20 TO STA 51+50
(MIRROR FOR LEFT SIDE)

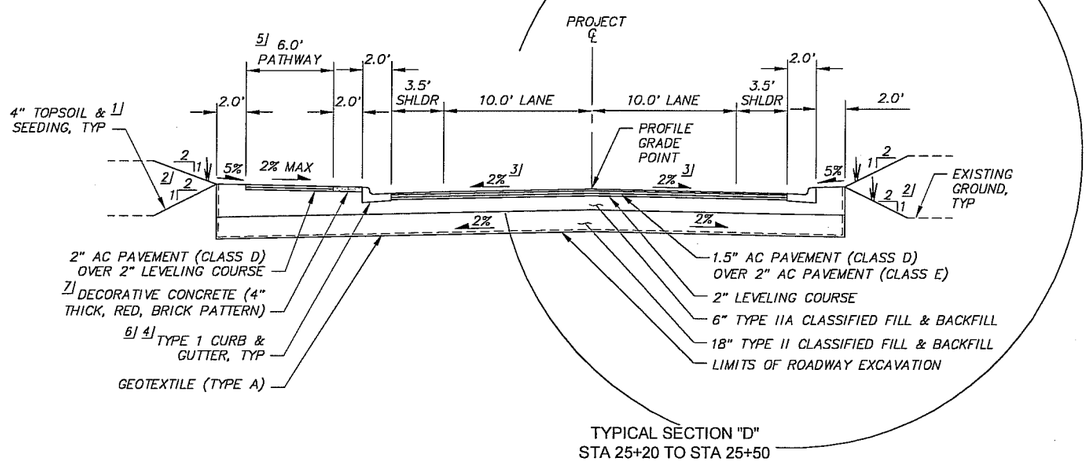
PRELIMINARY

SHEET NOTES:

1. *PLACE 4" OF TOPSOIL AND SEEDING ON ALL DISTURBED AREAS, SEE LANDSCAPING SHEETS FOR DETAILS.*
2. *THE MAXIMUM (STEEPEST) FILL SLOPE IS 2H:1V. FILL SLOPE MAY VARY ALONG ROADWAY TO PROVIDE POSITIVE DRAINAGE TOWARD ROADWAY SEE DETAIL 4, SHEET C2. SEE ROADWAY PLAN AND PROFILE SHEETS FOR LOCATIONS.*
3. *ROAD CROSS SLOPE SHALL BE 2% UNLESS OTHERWISE NOTED. SEE RAISED INTERSECTION & INTERSECTION LAYOUT PLANS FOR LOCATIONS.*
4. *TOP AC PAVEMENT SHALL BE 1/8" – 1/4" ABOVE NOSE OF CURB, UNLESS OTHERWISE NOTED. SEE DETAIL 5, SHEET C3.*
5. *SEE ROADWAY SUMMARY TABLES FOR PATHWAY CENTERLINE ALIGNMENT.*
6. *INSTALL TYPE 1 CURB & GUTTER UNLESS OTHERWISE NOTED, SEE RAISED INTERSECTION AND INTERSECTION LAYOUT SHEETS FOR LOCATIONS WHERE THERE ARE CHANGES IN CURB TYPE.*
7. *INCREASE DECORATIVE CONCRETE THICKNESS TO 6" PER THE ROADWAY SUMMARY TABLES.*
8. *SEE INTERSECTION LAYOUT SHEET R10 FOR CURB AND GUTTER LAYOUT.*



TYPICAL SECTION "B"
STA 20+47 TO STA 20+87
2 SCALE: NTS



TYPICAL SECTION "D"
STA 25+20 TO STA 25+50
STA 39+50 TO STA 50+20
STA 52+60 TO STA 56+00
4 SCALE: NTS

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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CONTRACTOR: _____
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DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
AS-BUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
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Justin T. Keane
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MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

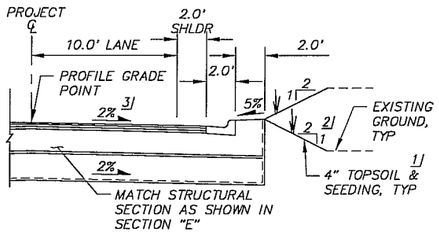
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

TYPICAL SECTIONS

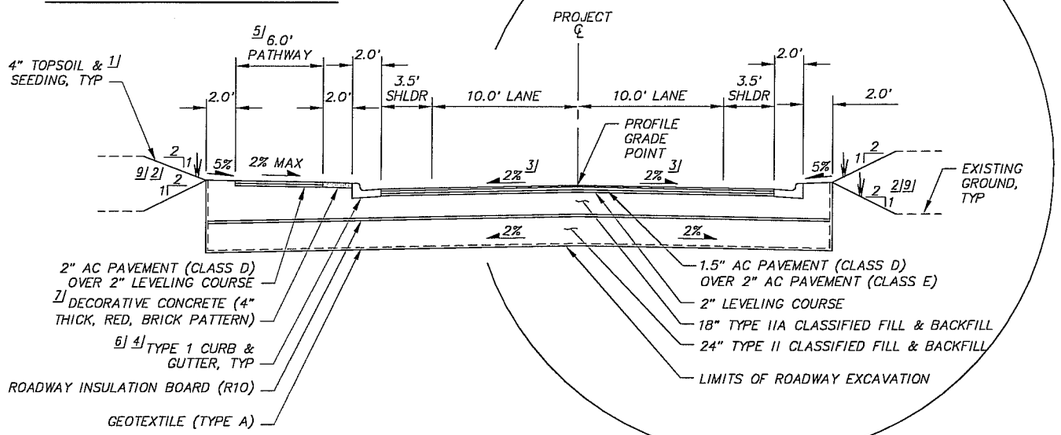
SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET C1 of C4

File: J:\Jobdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Typical.dwg

PRELIMINARY

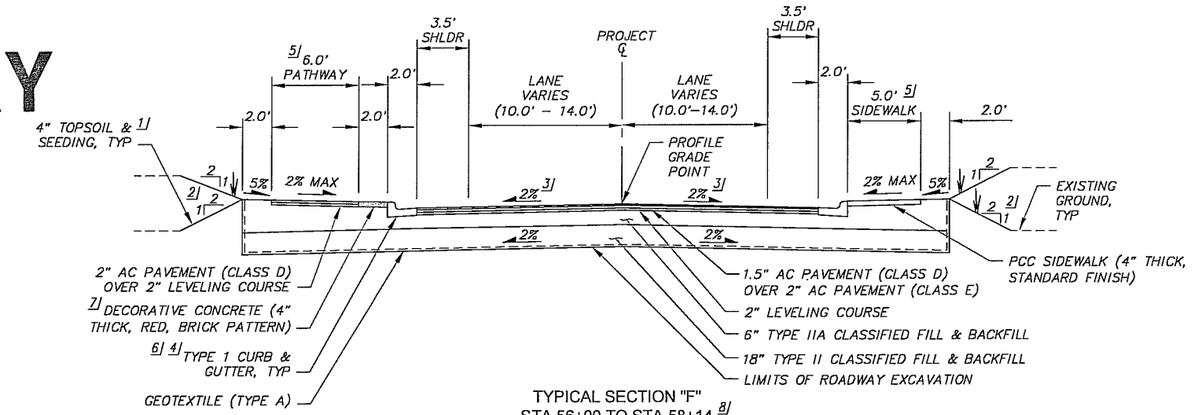


AT CURB NECKDOWNS
STA 25+95 TO STA 31+95
(MIRROR FOR LEFT SIDE)



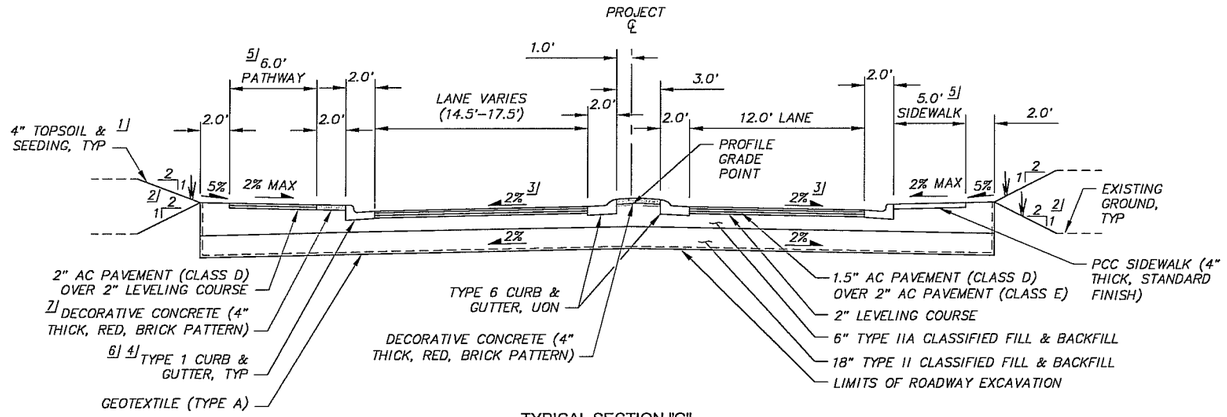
TYPICAL SECTION "E"
STA 25+50 TO STA 25+95
STA 31+95 TO STA 39+50 9/

1 SCALE: NTS



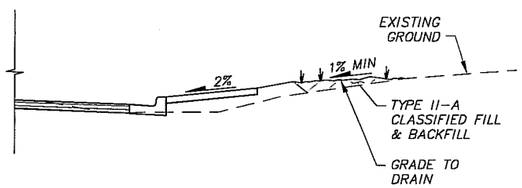
TYPICAL SECTION "F"
STA 56+00 TO STA 58+14 8/
STA 58+82 TO EOP 8/

2 SCALE: NTS



TYPICAL SECTION "G"
STA 58+14 TO STA 58+82

3 SCALE: NTS



SPECIAL FILL GRADING DETAIL

4 SCALE: NTS

SHEET NOTES:

1. PLACE 4" OF TOPSOIL AND SEEDING ON ALL DISTURBED AREAS, SEE LANDSCAPING SHEETS FOR DETAILS.
2. THE MAXIMUM (STEEPEST) FILL SLOPE IS 2H:1V. FILL SLOPE MAY VARY ALONG ROADWAY TO PROVIDE POSITIVE DRAINAGE TOWARD ROADWAY SEE DETAIL 4, SHEET C2. SEE ROADWAY PLAN AND PROFILE SHEETS FOR LOCATIONS.
3. ROAD CROSS SLOPE SHALL BE 2% UNLESS OTHERWISE NOTED. SEE RAISED INTERSECTION & INTERSECTION LAYOUT PLANS FOR LOCATIONS.
4. TOP AC PAVEMENT SHALL BE 1/8" – 1/4" ABOVE NOSE OF CURB, UNLESS OTHERWISE NOTED. SEE DETAIL 5, SHEET C3.
5. SEE ROADWAY SUMMARY TABLES FOR PATHWAY/SIDEWALK CENTERLINE ALIGNMENT. INCREASE SIDEWALK THICKNESS TO 6" ACROSS ALL DRIVEWAYS & ADD WELDED STEEL WIRE FABRIC REINFORCEMENT PER THE SPECIFICATIONS.
6. INSTALL TYPE 1 CURB & GUTTER UNLESS OTHERWISE NOTED, SEE RAISED INTERSECTION AND INTERSECTION LAYOUT SHEETS FOR LOCATIONS WHERE THERE ARE CHANGES IN CURB TYPE.
7. INCREASE DECORATIVE CONCRETE THICKNESS TO 6" PER THE ROADWAY SUMMARY TABLES.
8. SEE INTERSECTION LAYOUT SHEET R20 FOR CURB AND GUTTER LAYOUT.
9. FILL SLOPE SHALL BE 4 (HORIZONTAL):1 (VERTICAL) FROM STATION 33+00 TO STATION 34+50. TRANSITION FROM/TO TYPICAL SLOPE OVER 15 FEET.

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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CONTRACTOR: _____
BY: _____ TITLE: _____ DATE: _____
2. DATA TRANSFERRED BY: _____ TITLE: _____
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: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

CONSTRUCTION RECORD

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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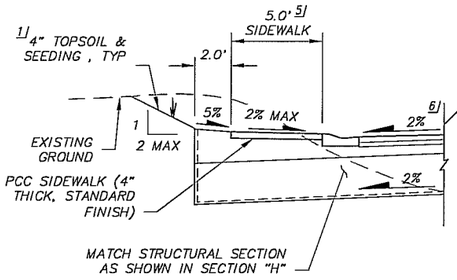
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

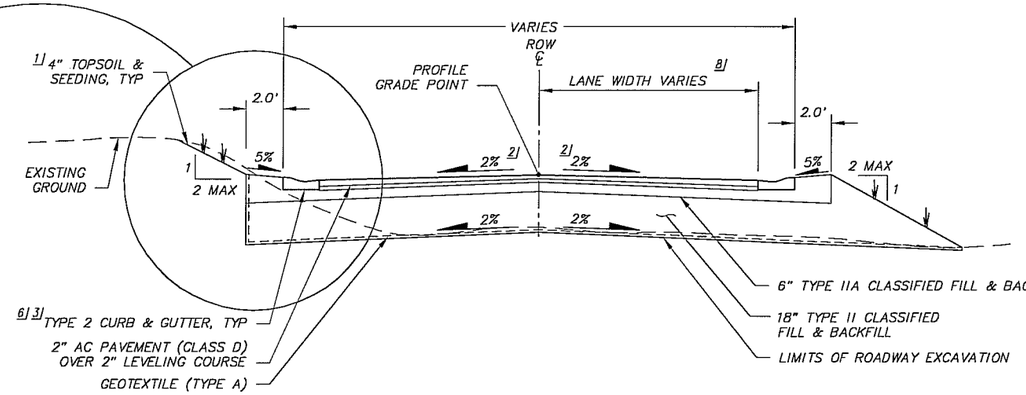
TYPICAL SECTIONS

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET C2 of C4

File:s:\Jobdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Typical.dwg



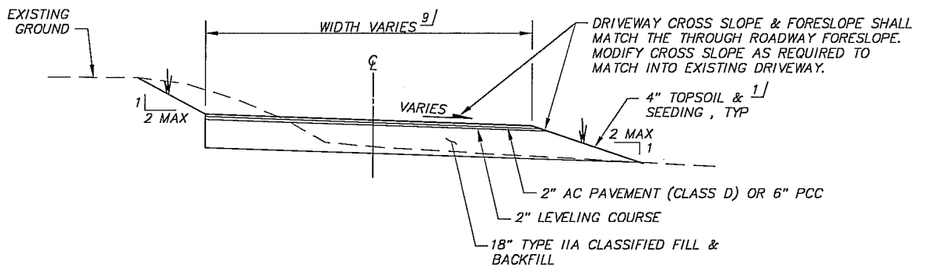
WHERE SIDEWALK REQUIRED
(MIRROR FOR RIGHT SIDE)



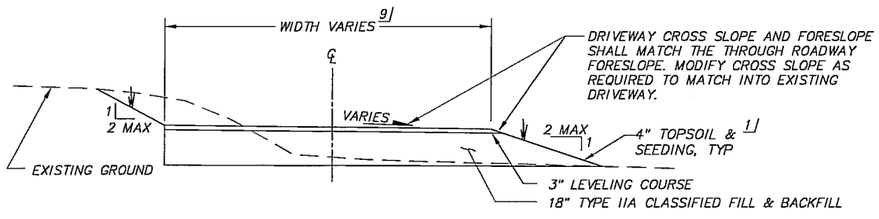
1 TYPICAL SECTION "H" - SIDE STREETS 7/
WITH CURB (BEYOND CURB RETURN)
SCALE: NTS

SHEET NOTES:

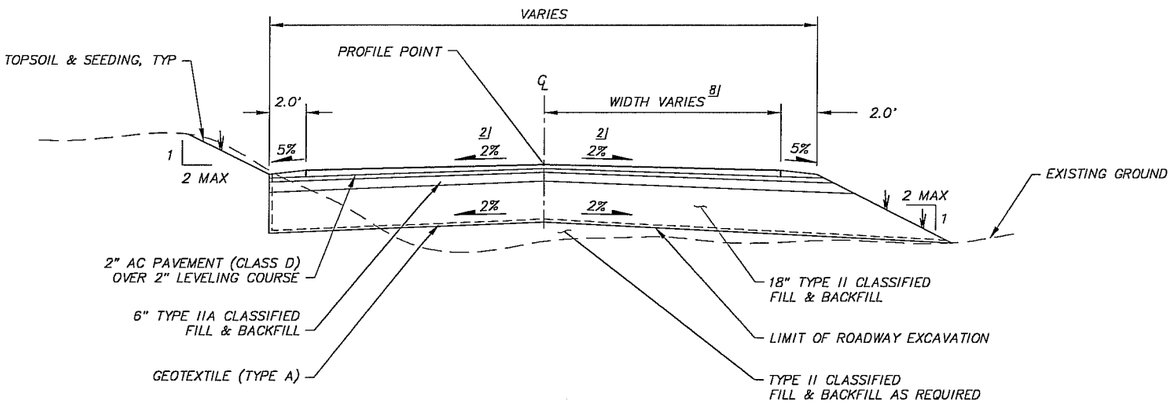
1. PLACE 4" OF TOPSOIL AND SEEDING ON ALL DISTURBED AREAS, SEE LANDSCAPING SHEETS FOR DETAILS.
2. ROAD CROSS SLOPE SHALL BE 2% UNLESS OTHERWISE NOTED. SEE RAISED INTERSECTION & INTERSECTION LAYOUT PLANS FOR LOCATIONS. MODIFY CROSS SLOPE AS REQUIRED TO MATCH INTO EXISTING ROADWAY.
3. TOP AC PAVEMENT SHALL BE 1/8" – 1/4" ABOVE NOSE OF CURB, UNLESS OTHERWISE NOTED. SEE DETAIL 5, THIS SHEET.
5. SEE ROADWAY SUMMARY TABLES FOR SIDEWALK CENTERLINE ALIGNMENT. INCREASE SIDEWALK THICKNESS TO 6" ACROSS ALL DRIVEWAYS & ADD WELDED STEEL WIRE FABRIC REINFORCEMENT PER THE SPECIFICATIONS.
6. INSTALL TYPE 2 CURB & GUTTER UNLESS OTHERWISE NOTED, SEE RAISED INTERSECTION AND INTERSECTION LAYOUT SHEETS FOR CURB TYPES ON SIDE STREETS.
7. BEGIN TRANSITION FROM MAIN STREET TYPICAL SECTION TO SIDE STREET TYPICAL SECTION AT END OF SIDE STREET CURB RETURN PER DETAIL 1, SHEET D5.
8. SEE ROADWAY PLAN & PROFILE SHEETS FOR SIDE STREET WIDTHS.
9. SEE RECONSTRUCT DRIVEWAY SUMMARY TABLE & RECONSTRUCT DRIVEWAY DETAILS FOR DRIVEWAY RECONSTRUCTION INFORMATION.



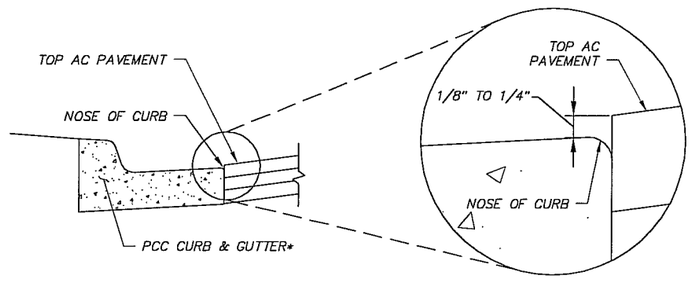
2 TYPICAL SECTION "J"
DRIVEWAYS PAVED
SCALE: NTS



3 TYPICAL SECTION "K"
DRIVEWAYS UNPAVED
SCALE: NTS



4 TYPICAL SECTION "I" - SIDE STREETS 7/
NO CURB (BEYOND CURB RETURN)
SCALE: NTS



* TOP AC PAVEMENT SHALL BE AT SAME LEVEL AS NOSE OF CURB FOR PCC CURB & GUTTER TYPES 3, 3A, AND 6.

5 CURB AND GUTTER &
AC PAVEMENT EDGE DETAIL
SCALE: NTS

PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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CONTRACTOR: _____
BY: _____ TITLE: _____ DATE: _____
2. DATA TRANSFERRED BY: _____ TITLE: _____
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COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			
CONSTRUCTION RECORD	VERTICAL DATUM		

REV	DATE	DESCRIPTION	BY
REVISIONS			

CRW ENGINEERING GROUP, LLC
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ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
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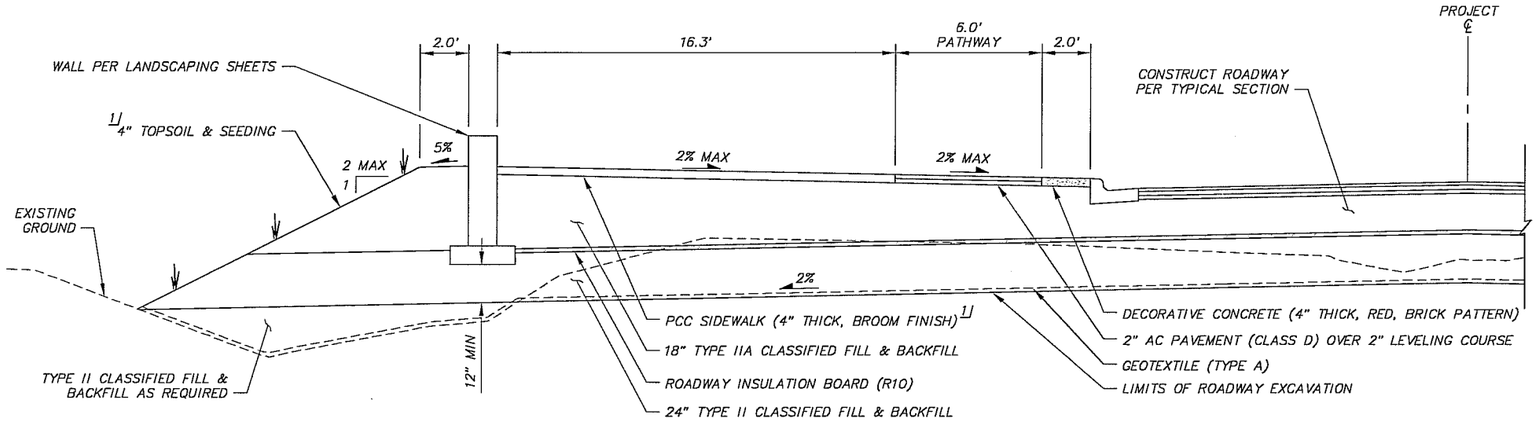
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

TYPICAL SECTIONS

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET C3 of C4

File: L:\Jobsdata\V0104 35th & McRae\D0 CADD\Drawings\01 Working Set\01 Civil\V0104 Typical.dwg



1 TYPICAL SECTION AT STATION 33+85
SCALE: NTS

SHEET NOTES:

1. PLACE 4" OF TOPSOIL AND SEEDING ON ALL DISTURBED AREAS, SEE LANDSCAPING SHEETS FOR DETAILS.

PRELIMINARY

RECORD DRAWING
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COMPANY: _____ DATE: _____
BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

CONSTRUCTION RECORD

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

VERTICAL DATUM

REVISIONS

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CONSULTANT
CRW ENGINEERING GROUP, LLC
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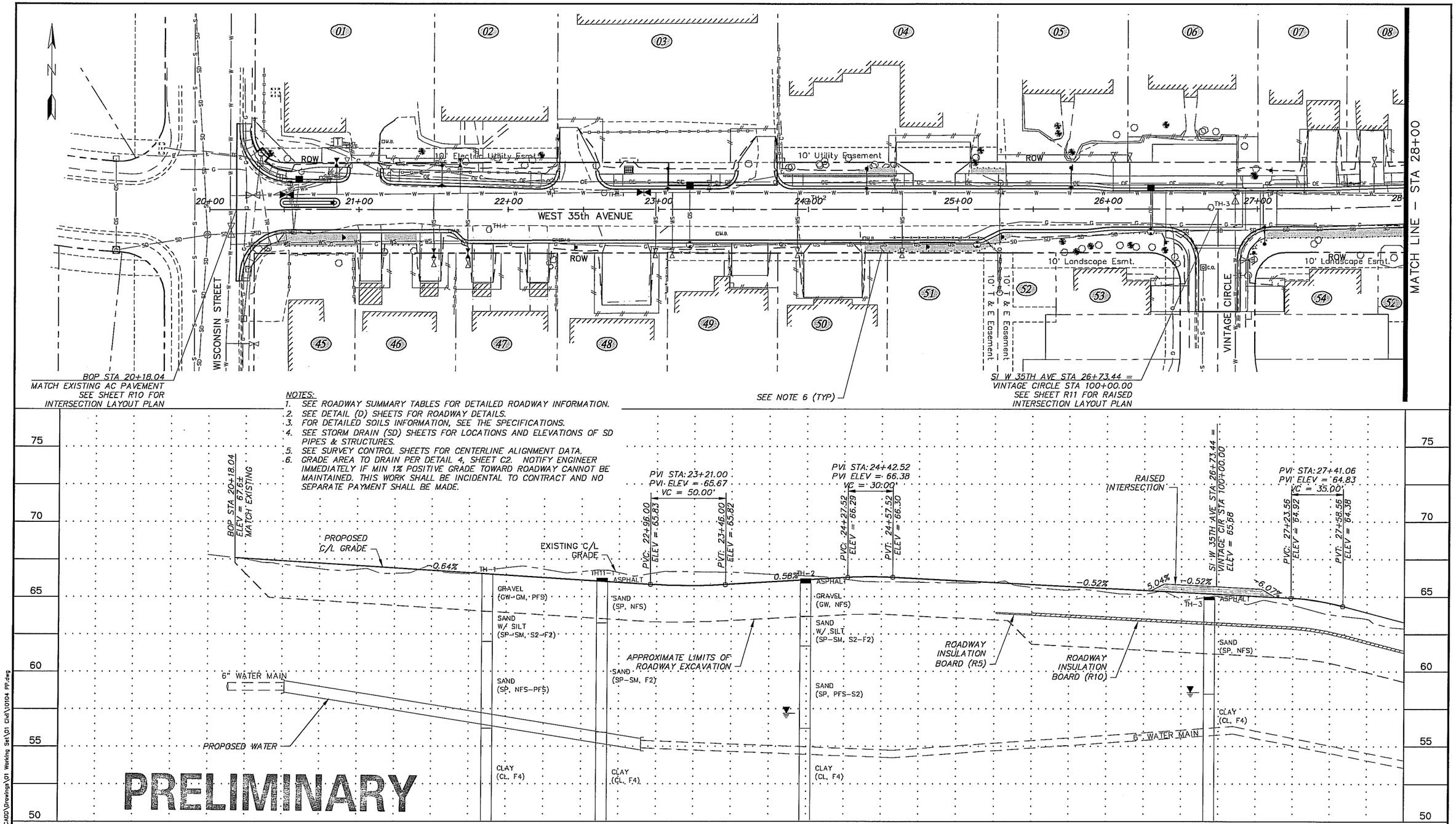
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS WISCONSIN STREET TO SPENARD ROAD SCHED A

TYPICAL SECTIONS

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET C4 of C4

File: J:\Jobdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Typical.dwg



PRELIMINARY

NOTES:
1. SEE ROADWAY SUMMARY TABLES FOR DETAILED ROADWAY INFORMATION.
2. SEE DETAIL (D) SHEETS FOR ROADWAY DETAILS.
3. FOR DETAILED SOILS INFORMATION, SEE THE SPECIFICATIONS.
4. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS AND ELEVATIONS OF SD PIPES & STRUCTURES.
5. SEE SURVEY CONTROL SHEETS FOR CENTERLINE ALIGNMENT DATA.
6. GRADE AREA TO DRAIN PER DETAIL 4, SHEET C2. NOTIFY ENGINEER IMMEDIATELY IF MIN 1% POSITIVE GRADE TOWARD ROADWAY CANNOT BE MAINTAINED. THIS WORK SHALL BE INCIDENTAL TO CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			
CONSTRUCTION RECORD	VERTICAL DATUM		

REV	DATE	DESCRIPTION	BY
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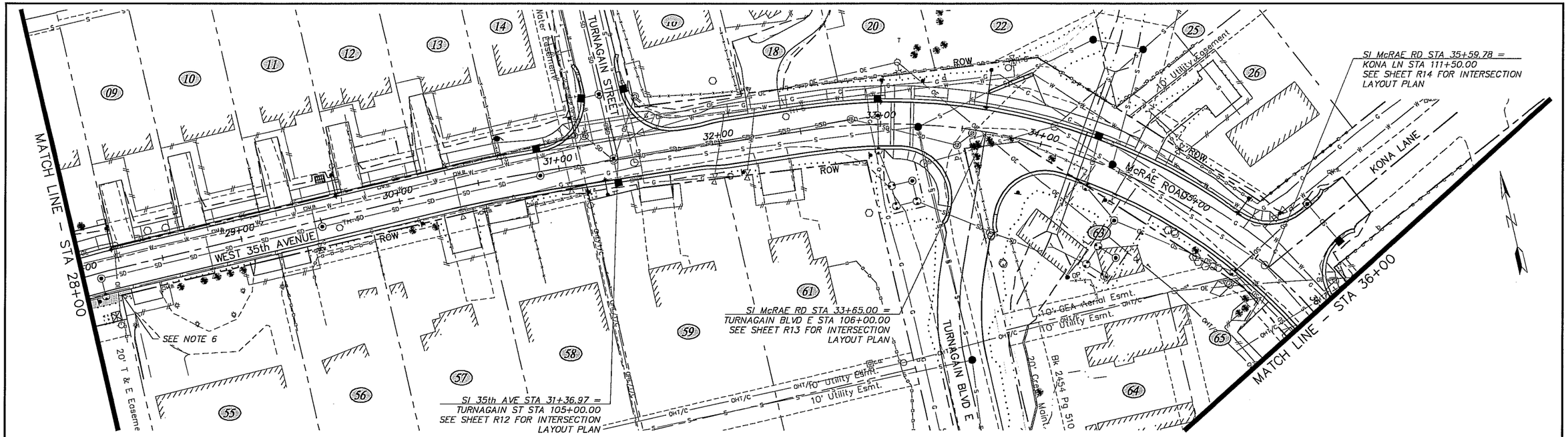
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

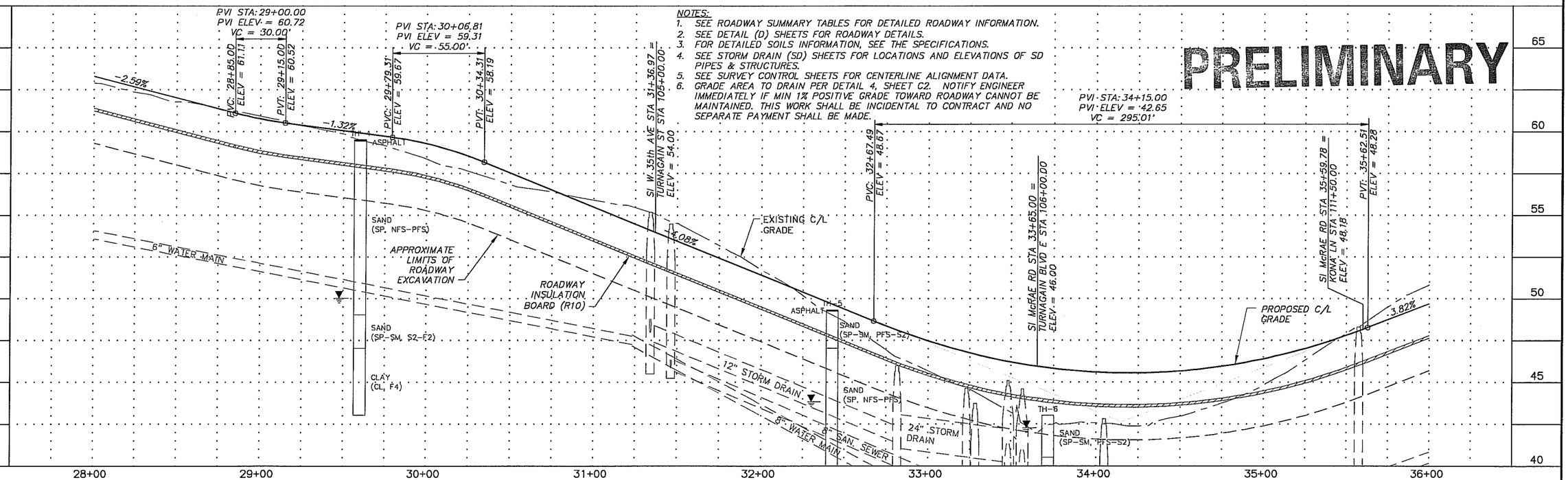
ROADWAY IMPROVEMENTS

WEST 35TH AVENUE
BOP TO STA 28+00

SCALE HOR. 1"=30' VER. 1"=3' | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET R1 of R23

File: N:\Asbuilts\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 PP.dwg





NOTES:
1. SEE ROADWAY SUMMARY TABLES FOR DETAILED ROADWAY INFORMATION.
2. SEE DETAIL (D) SHEETS FOR ROADWAY DETAILS.
3. FOR DETAILED SOILS INFORMATION, SEE THE SPECIFICATIONS.
4. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS AND ELEVATIONS OF SD PIPES & STRUCTURES.
5. SEE SURVEY CONTROL SHEETS FOR CENTERLINE ALIGNMENT DATA.
6. GRADE AREA TO DRAIN PER DETAIL 4, SHEET C2. NOTIFY ENGINEER IMMEDIATELY IF MIN 1% POSITIVE GRADE TOWARD ROADWAY CANNOT BE MAINTAINED. THIS WORK SHALL BE INCIDENTAL TO CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.

PRELIMINARY

RECORD DRAWING
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GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
AS-BUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

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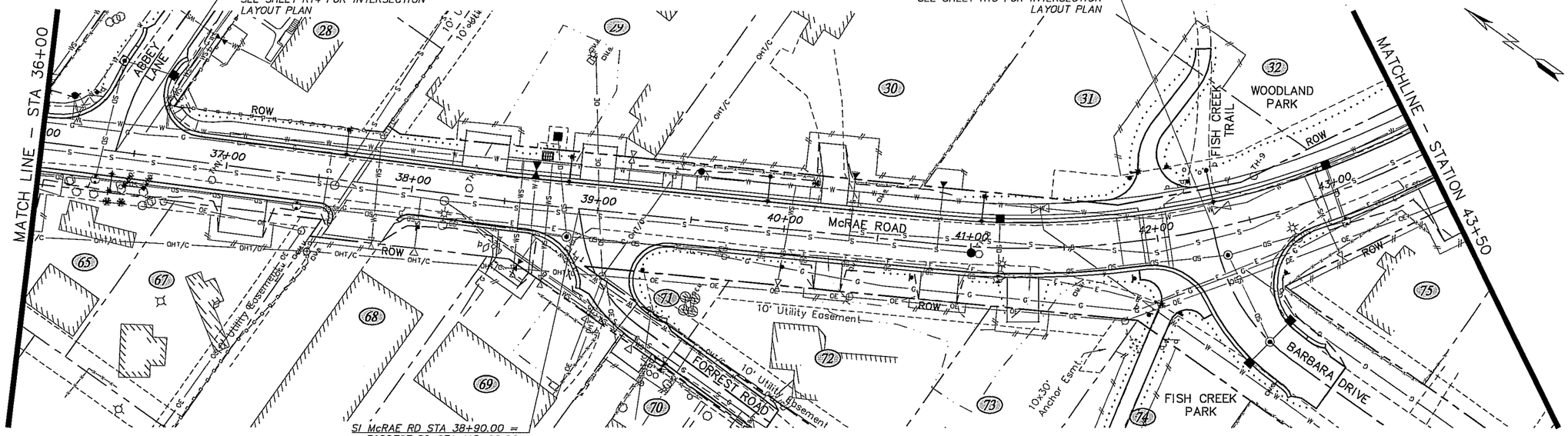
WISCONSIN STREET TO SPENARD ROAD

ROADWAY IMPROVEMENTS

WEST 35TH AVENUE & McRAE ROAD
STA 28+00 TO STA 36+00

SCALE HOR. 1"=30' VER. 1"=3' | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET R2 of R23

File: J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 PP.dwg



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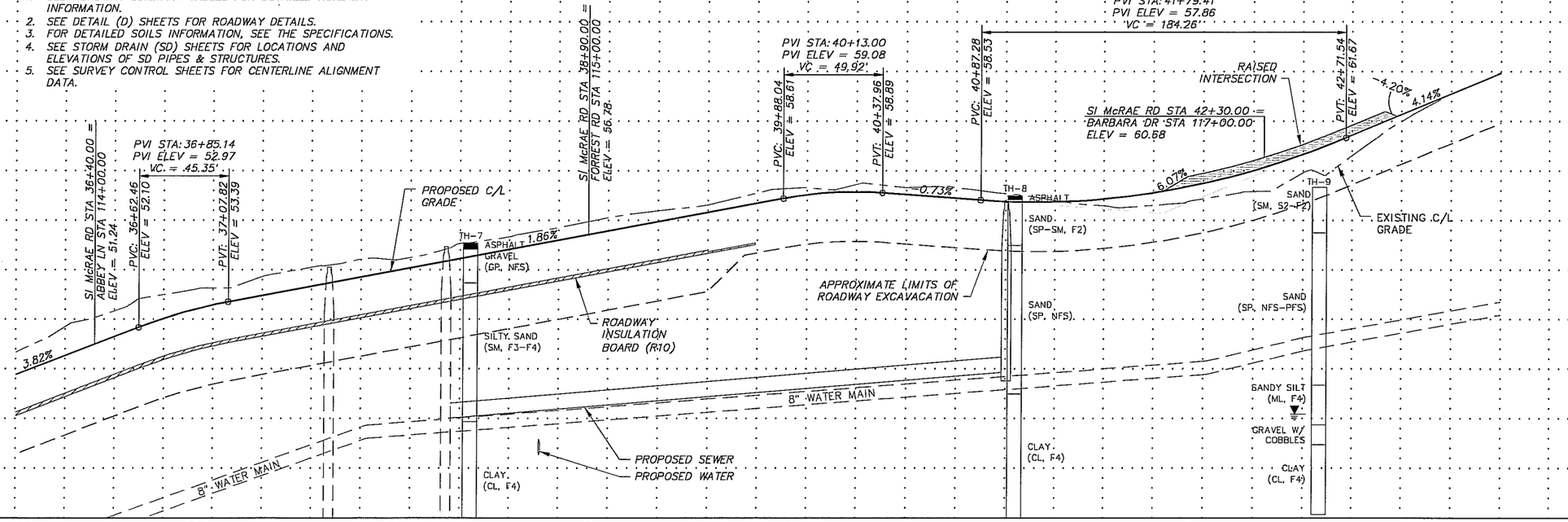
3. FOR DETAILED SOILS INFORMATION, SEE THE SPECIFICATIONS.
4. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS AND ELEVATIONS OF SD PIPES & STRUCTURES.
5. SEE SURVEY CONTROL SHEETS FOR CENTERLINE ALIGNMENT DATA.



RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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: _____ TITLE: _____
COMPANY: _____ DATE: _____
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DATA TRANSFER CHECKED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

GRAPHIC 60 30 0 30 60 SCALE

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR			
INSPECTOR			
	BASIS OF THIS DATUM GAAB 1972 Adjust		

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273
CONSULTANT

STATE OF ALASKA 49TH
Justin T. Keene
CE-11775
REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

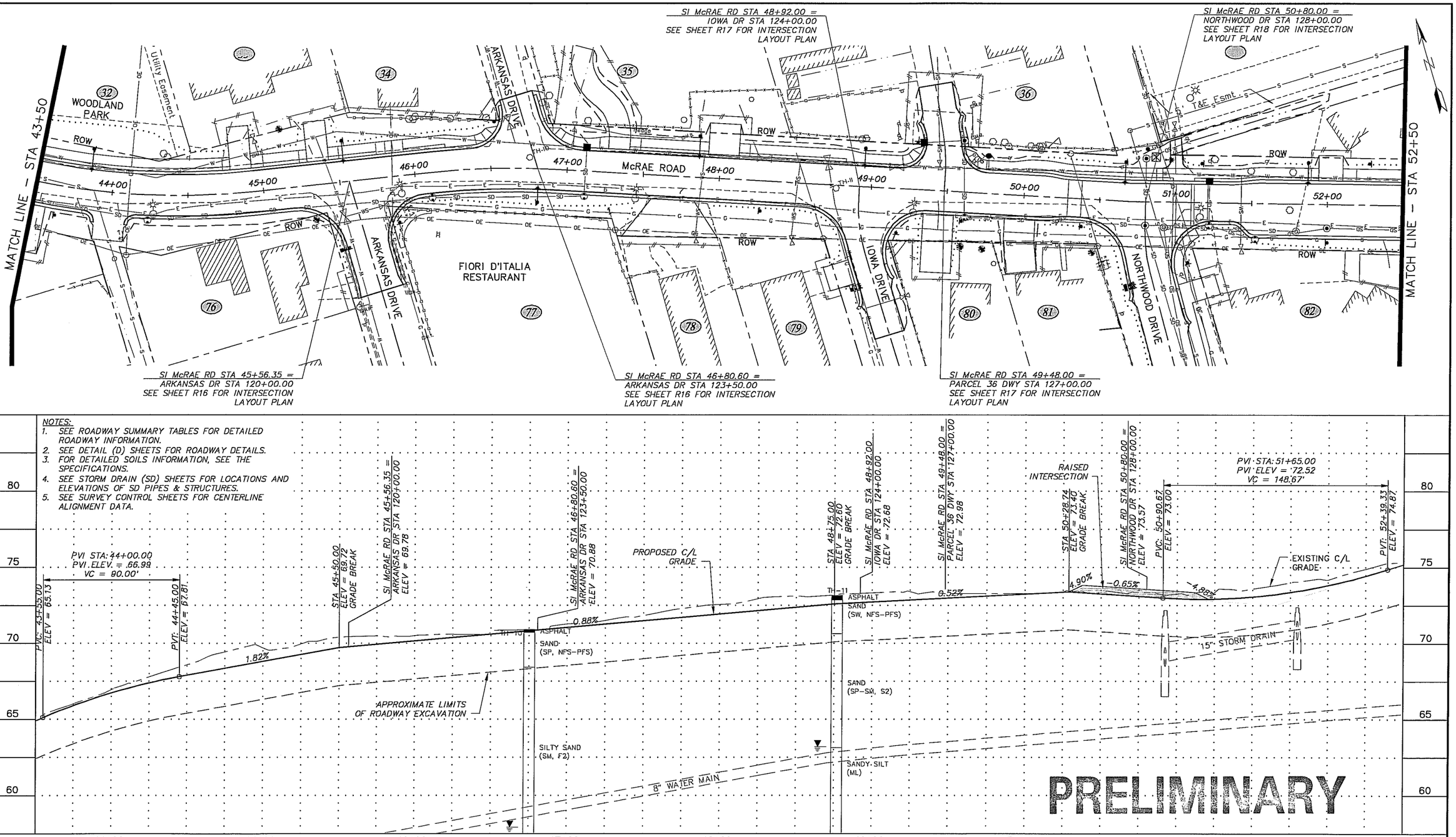
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS WISCONSIN STREET TO SPENARD ROAD SCHED A

ROADWAY IMPROVEMENTS

McRAE ROAD
STA 36+00 TO STA 43+50

SCALE HOR. 1"=30' VER. 1"=3' | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET R3 of R23

File: I:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 PP.dwg



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1. DATA PROVIDED BY: _____ TITLE: _____
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BY: _____ TITLE: _____ DATE: _____
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COMPANY: _____ DATE: _____
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DATA TRANSFER CHECKED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			
CONSTRUCTION RECORD	VERTICAL DATUM		

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-2252
FAX: (907) 561-2273
CONSULTANT

STATE OF ALASKA 49TH
Justin T. Keene
CE-11775
REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

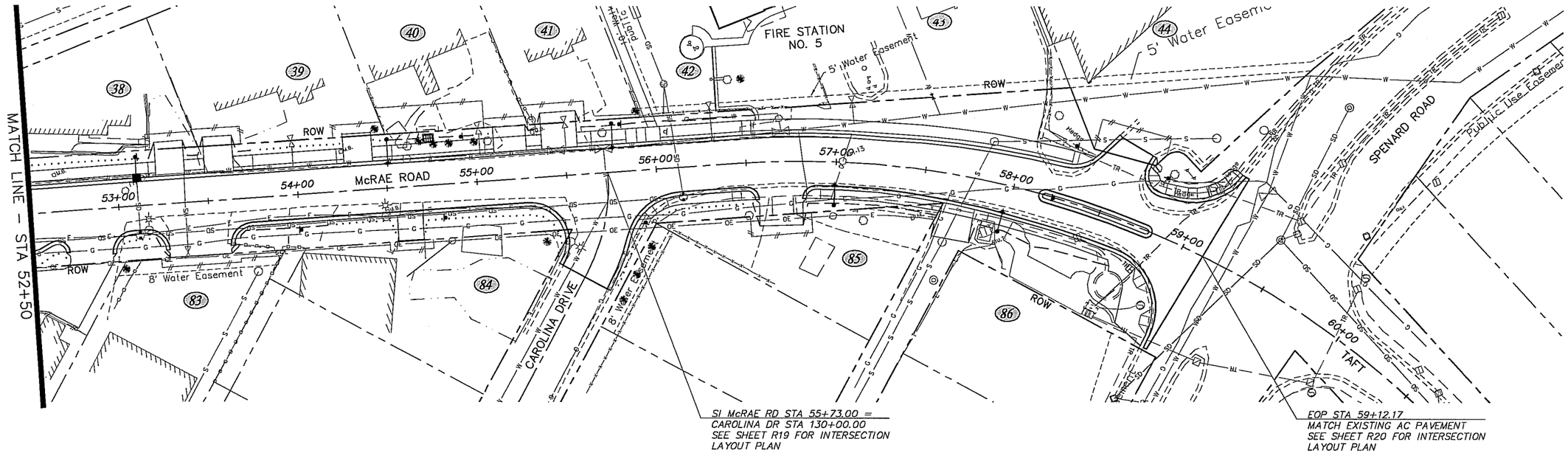
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS WISCONSIN STREET TO SPENARD ROAD SCHED A

ROADWAY IMPROVEMENTS

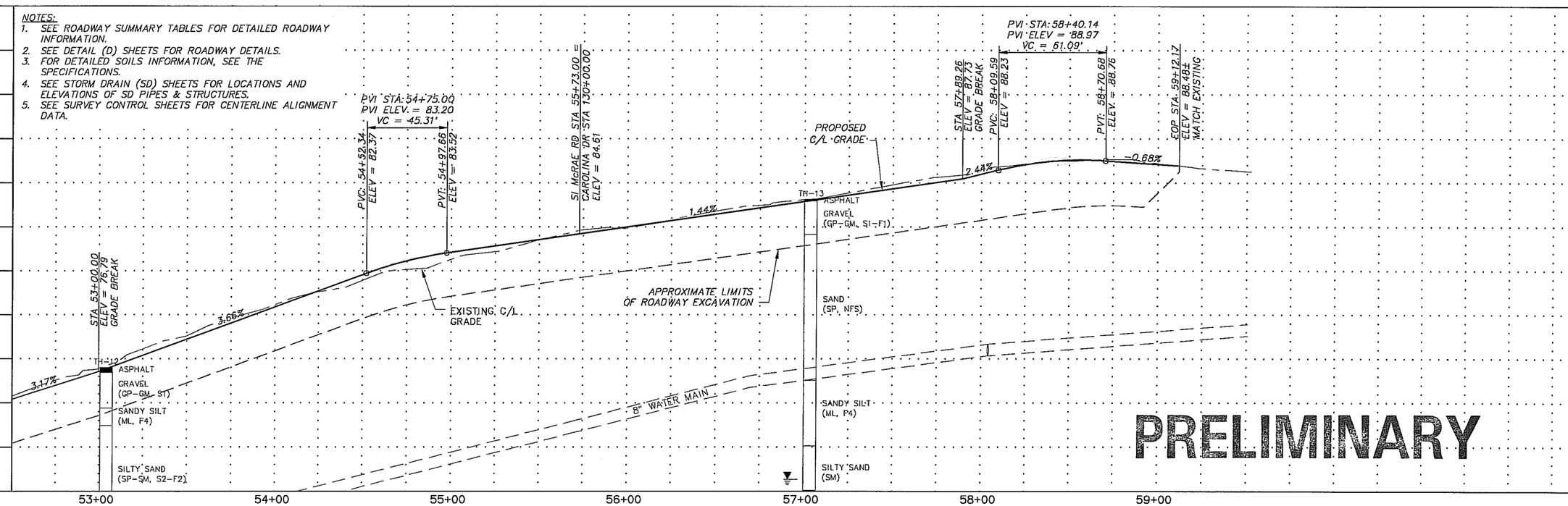
McRAE ROAD
STA 43+50 TO STA 52+50

SCALE HOR. 1"=30' VER. 1"=3' | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET R4 of R23

File: J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 PP.dwg



NOTES:
1. SEE ROADWAY SUMMARY TABLES FOR DETAILED ROADWAY INFORMATION.
2. SEE DETAIL (D) SHEETS FOR ROADWAY DETAILS.
3. FOR DETAILED SOILS INFORMATION, SEE THE SPECIFICATIONS.
4. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS AND ELEVATIONS OF SD PIPES & STRUCTURES.
5. SEE SURVEY CONTROL SHEETS FOR CENTERLINE ALIGNMENT DATA.



PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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: _____ TITLE: _____
COMPANY: _____ DATE: _____
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DATA TRANSFER CHECKED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

GRAPHIC 60 30 0 30 60 SCALE

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR			
INSPECTOR			
	BASIS OF THIS DATUM GAAB 1972 Adjust		

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273
CONSULTANT

STATE OF ALASKA 49TH
Justin T. Keene
CE-11775
REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

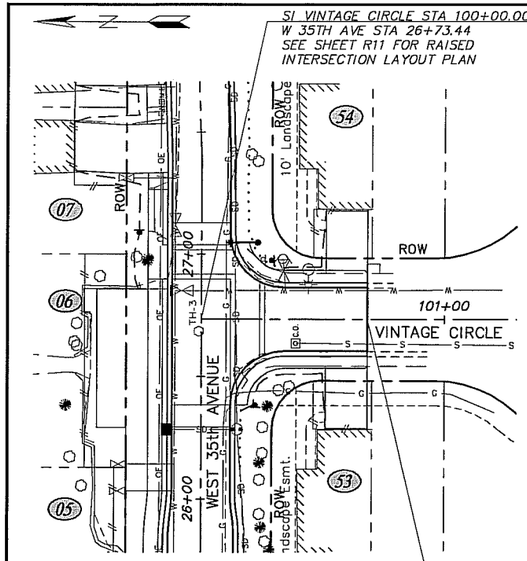
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS WISCONSIN STREET TO SPENARD ROAD SCHED A

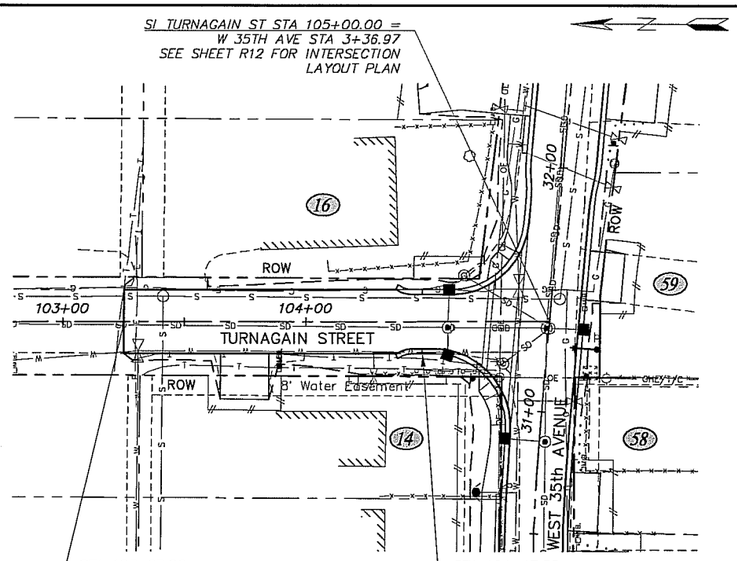
ROADWAY IMPROVEMENTS

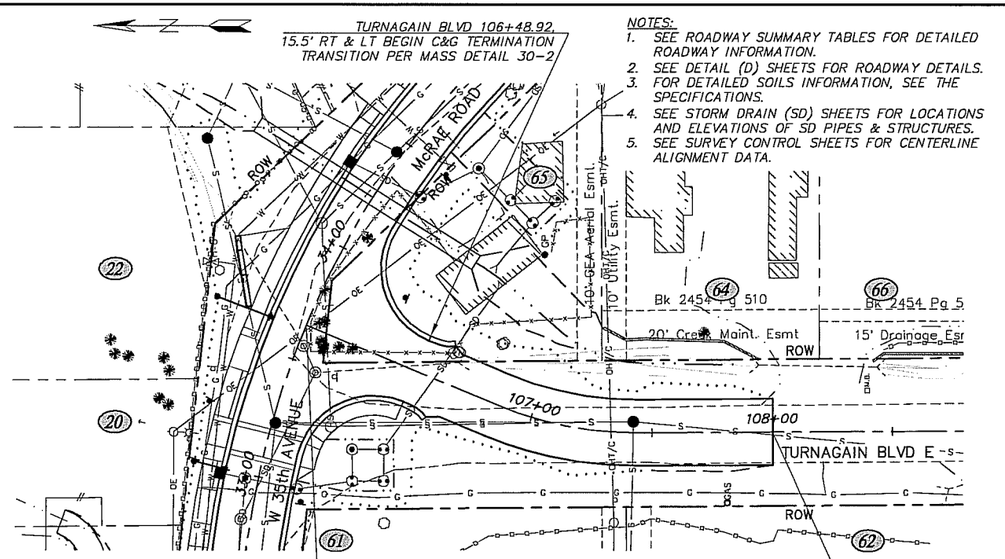
McRAE ROAD
STA 52+50 TO EOP

SCALE HOR. 1"=30' VER. 1"=3' | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET R5 of R23

File:c:\Jobsdata\V0104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\V0104 PP.dwg







NOTES:

1. SEE ROADWAY SUMMARY TABLES FOR DETAILED ROADWAY INFORMATION.
2. SEE DETAIL (D) SHEETS FOR ROADWAY DETAILS.
3. FOR DETAILED SOILS INFORMATION, SEE THE SPECIFICATIONS.
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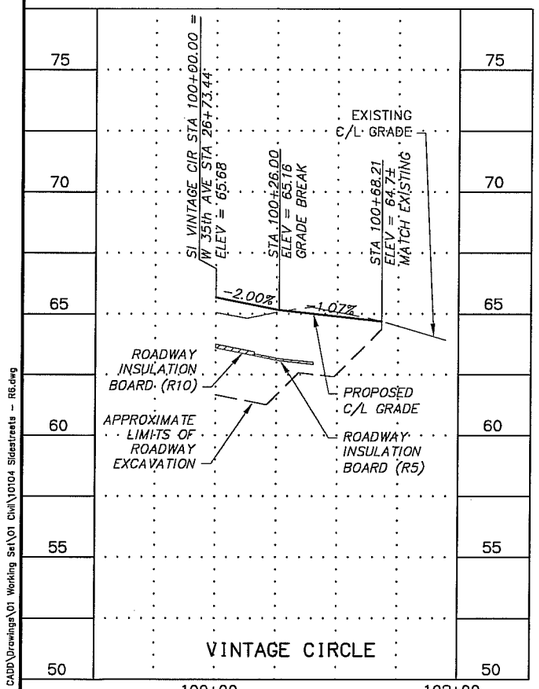
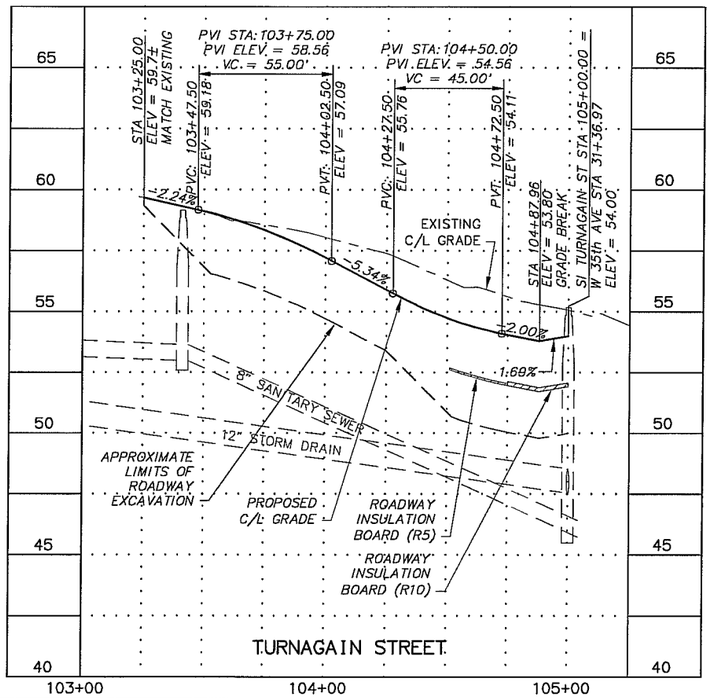
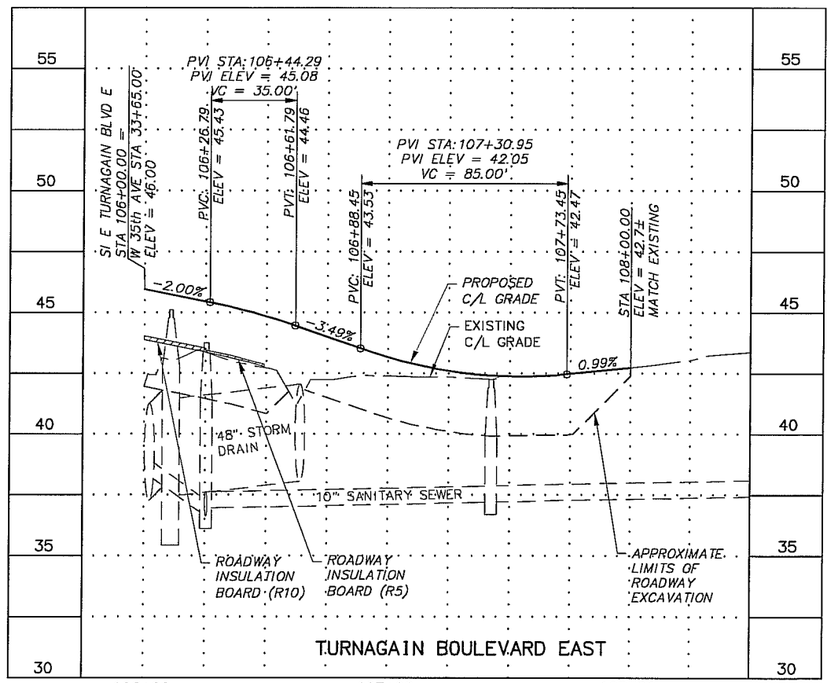
5. SEE SURVEY CONTROL SHEETS FOR CENTERLINE ALIGNMENT DATA.







PRELIMINARY

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.
   CONTRACTOR: _____
   BY: _____ TITLE: _____ DATE: _____
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   COMPANY: _____ DATE: _____
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DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
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ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273
CONSULTANT

STATE OF ALASKA — 49TH — Justin T. Keene — CE-11775 — REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

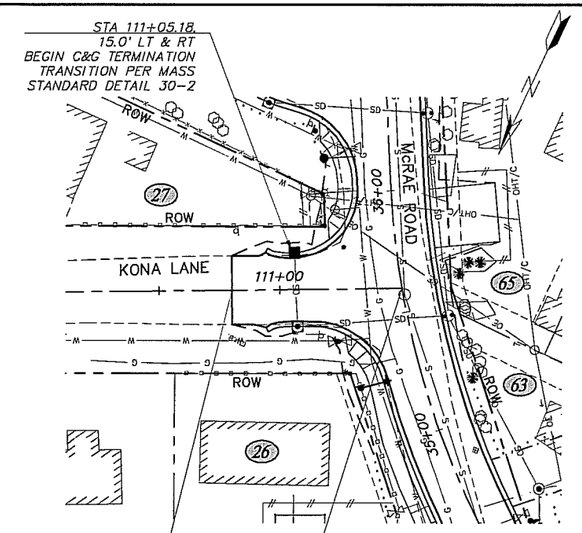
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

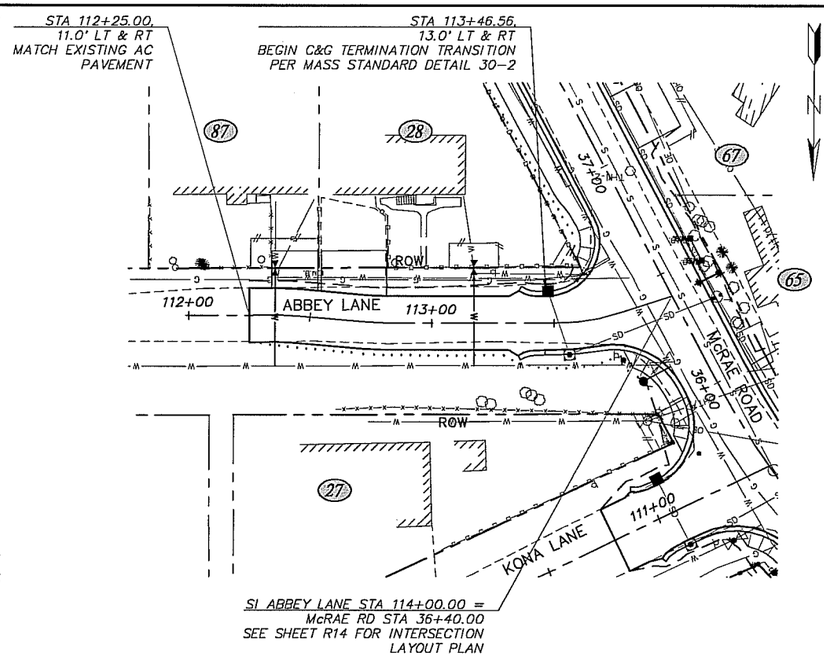
ROADWAY IMPROVEMENTS

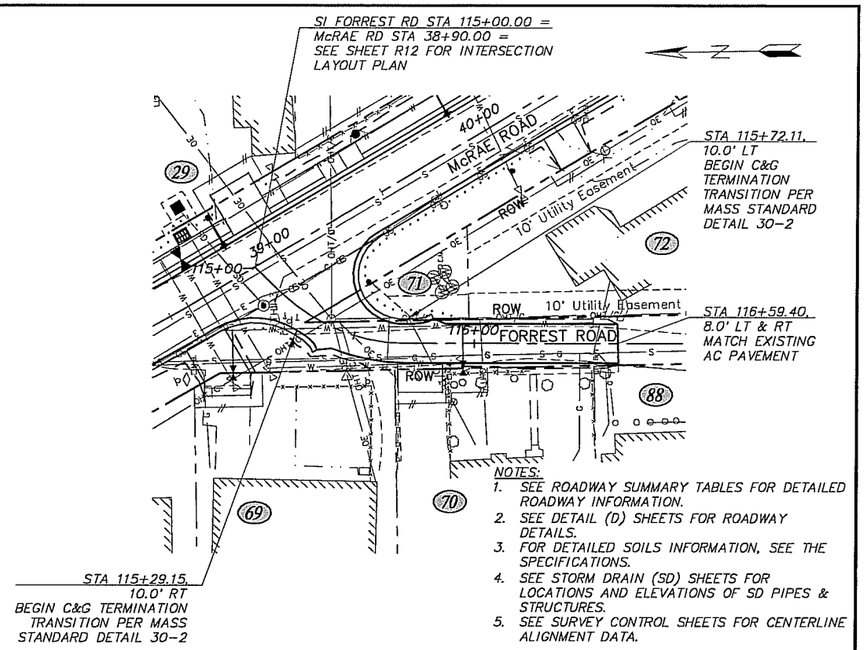
VINTAGE CIRCLE, TURNAGAIN STREET, AND TURNAGAIN BLVD E

SCALE HOR. 1"=30' VER. 1"=3' | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET R6 of R23

File:J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Sidestreets - R6.dwg







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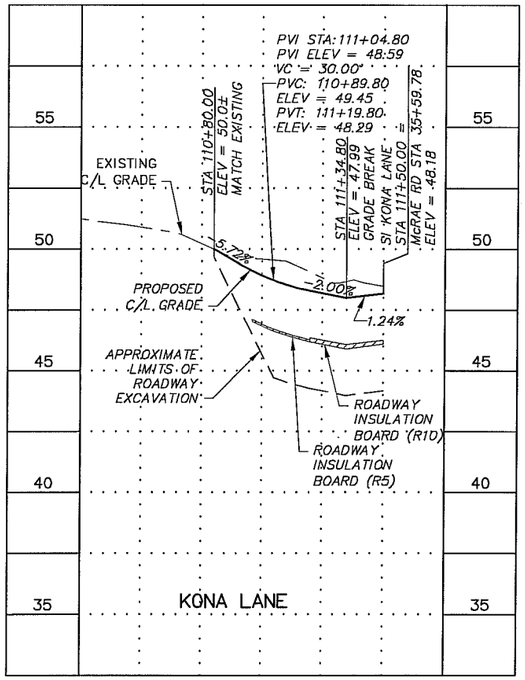

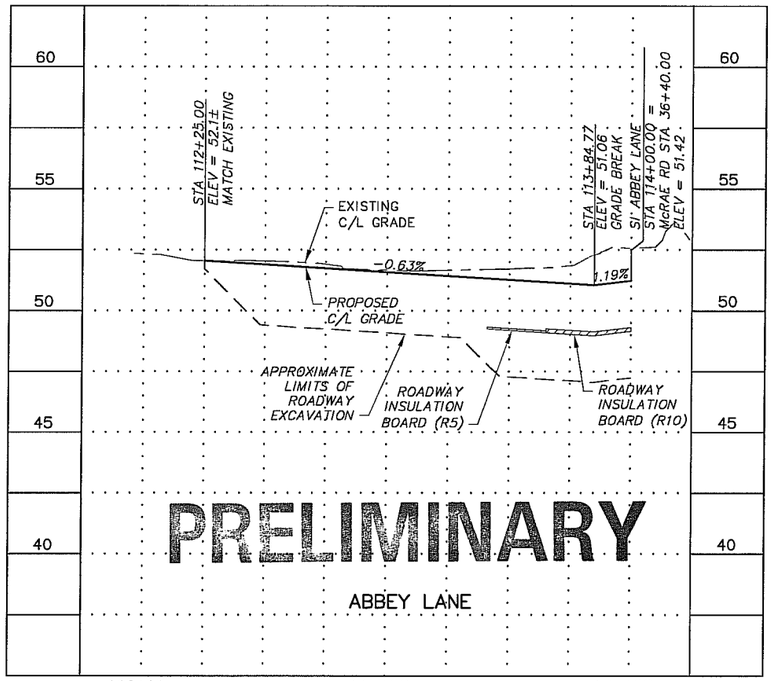

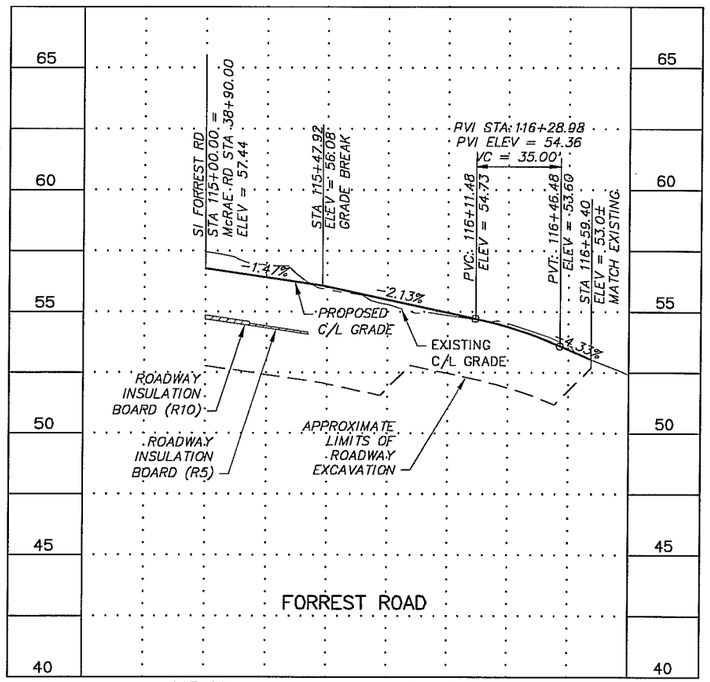

PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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: _____ TITLE: _____
COMPANY: _____ DATE: _____
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DATA TRANSFER CHECKED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	TBM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89				
STAKING							
ASBUILT							
CONTRACTOR		BASIS OF THIS DATUM GAAB 1972 Adjust					
INSPECTOR							
CONSTRUCTION RECORD		VERTICAL DATUM				REVISIONS	

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273
CONSULTANT

STATE OF ALASKA 49TH
Justin T. Keene
CE-11775
REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

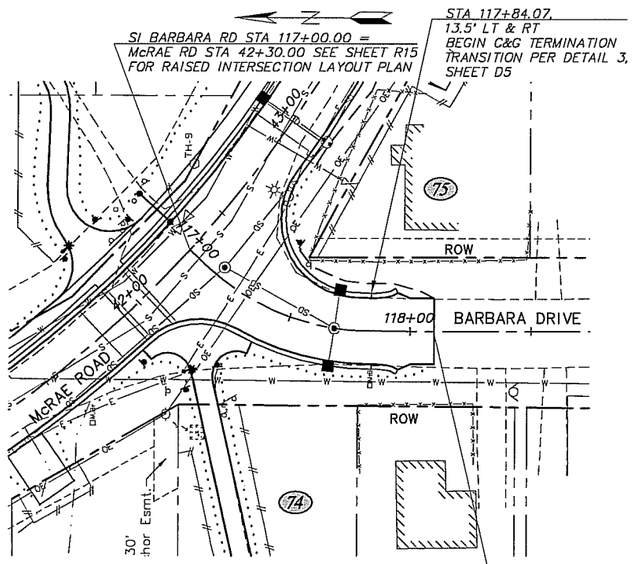
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS
WISCONSIN STREET TO SPENARD ROAD
SCHED A

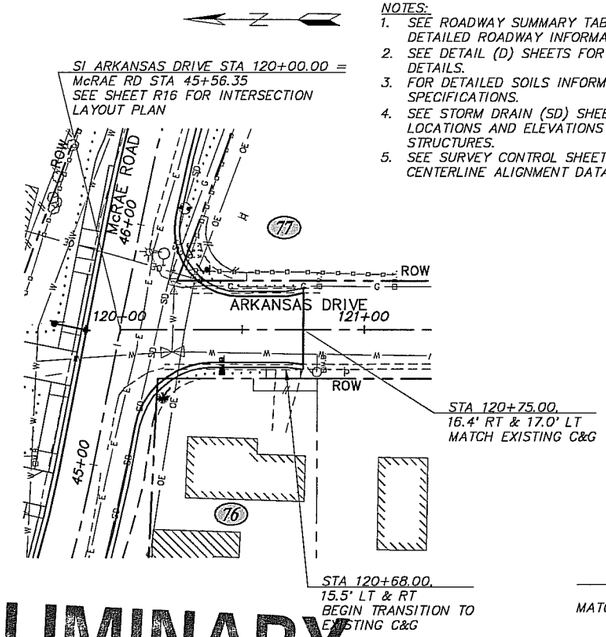
ROADWAY IMPROVEMENTS

KONA LANE, ABBEY LANE, AND FORREST ROAD

SCALE HOR. 1"=30'
VER. 1"=3'
DATE FEB 2012
GRID1627/1727/1728
STATUS 95% DESIGN
SHEET R7 of R23

File:J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Sdestreets - R7.dwg





NOTES:

1. SEE ROADWAY SUMMARY TABLES FOR DETAILED ROADWAY INFORMATION.
2. SEE DETAIL (D) SHEETS FOR ROADWAY DETAILS.
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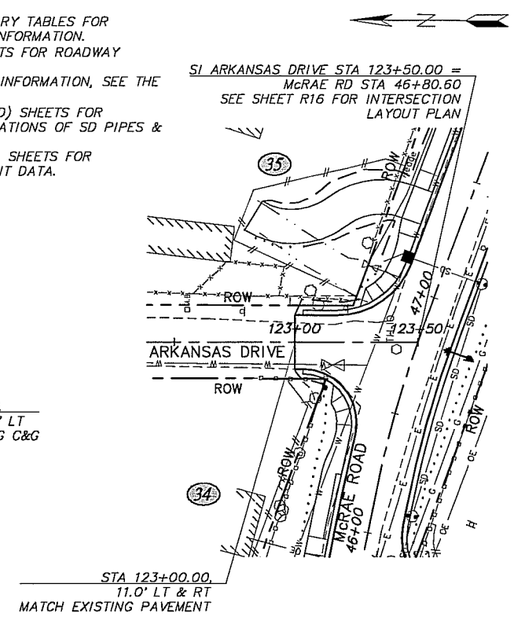
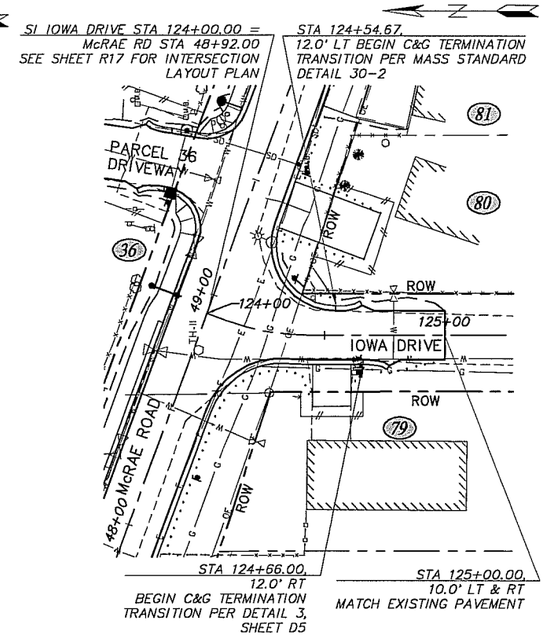
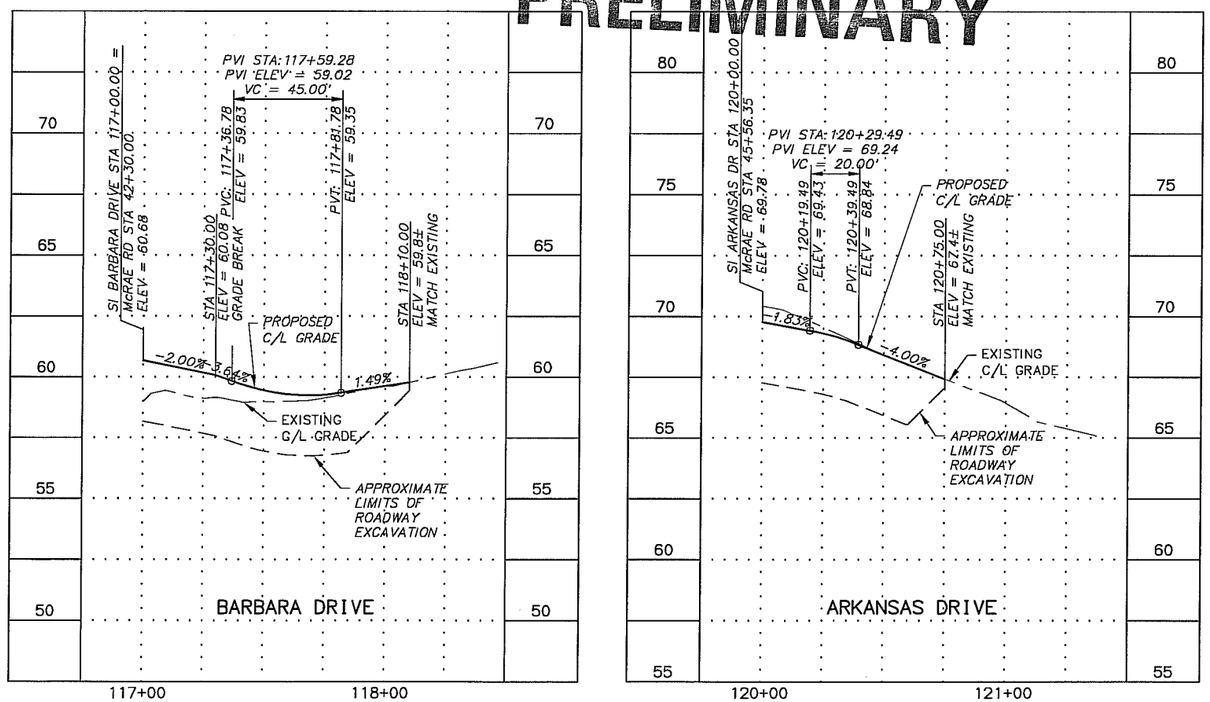
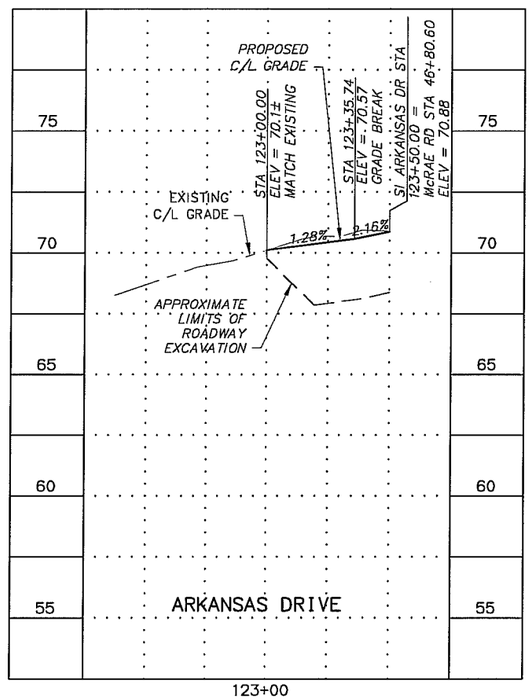
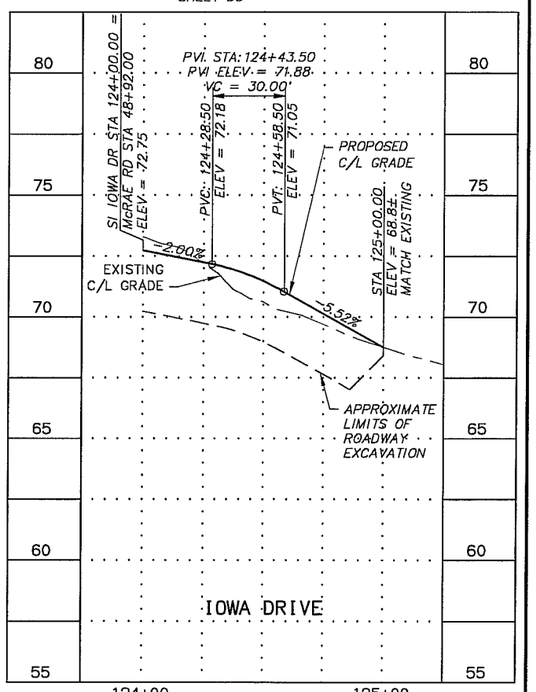




PRELIMINARY







RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   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: _____ TITLE: _____
   COMPANY: _____ DATE: _____
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   DATA TRANSFER CHECKED BY: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR			
INSPECTOR			
CONSTRUCTION RECORD	BASIS OF THIS DATUM GAAB 1972 Adjust		VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273
CONSULTANT

STATE OF ALASKA 49TH
Justin T. Keene
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SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

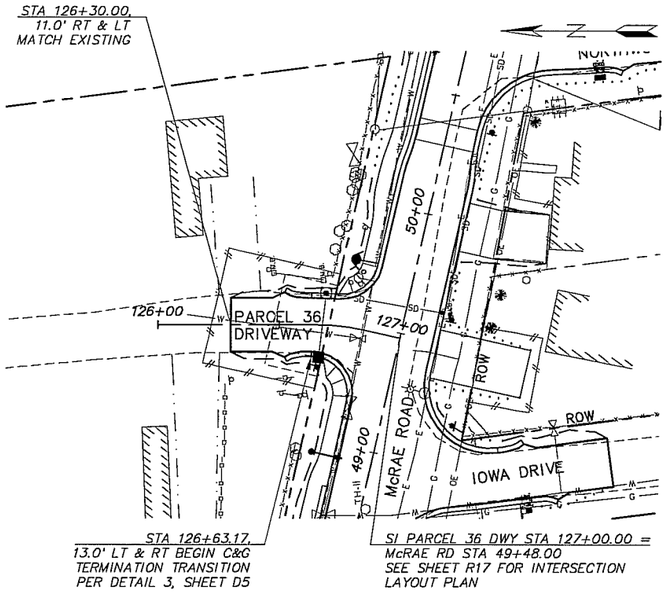
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

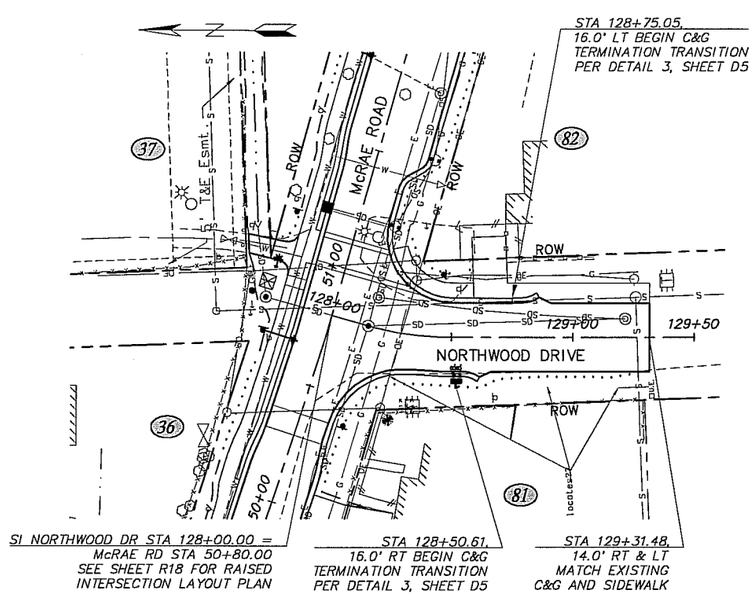
ROADWAY IMPROVEMENTS

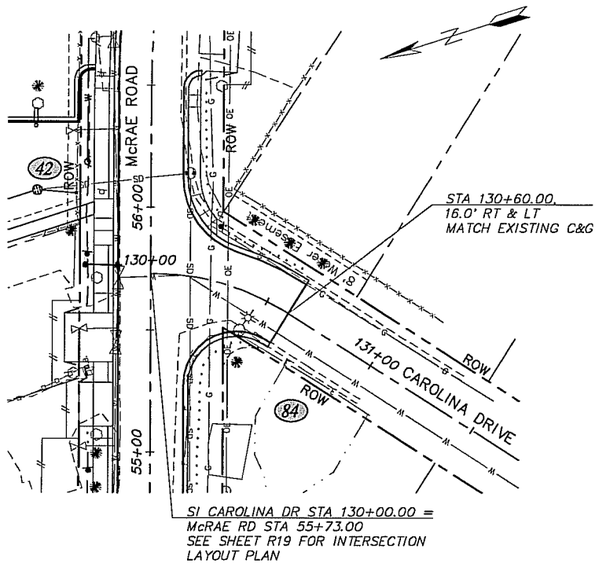
BARBARA DRIVE, ARKANSAS DRIVE, ARKANSAS DRIVE, AND IOWA DRIVE

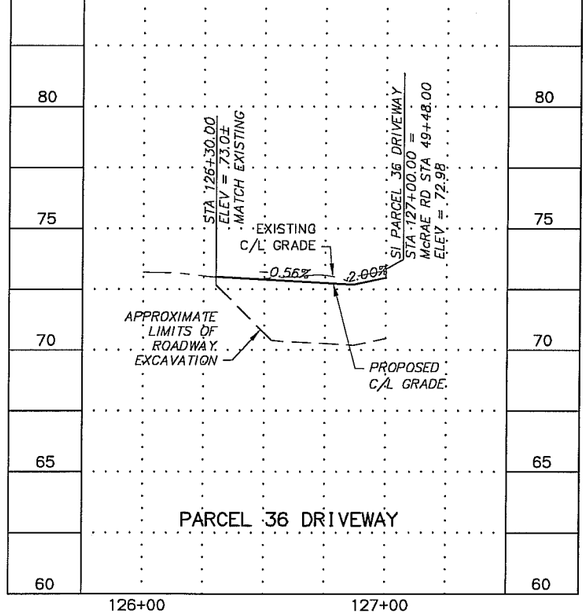
SCALE HOR. 1"=30' VER. 1"=3' | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET R8 of R23

File: J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Sidestreets - R8.dwg

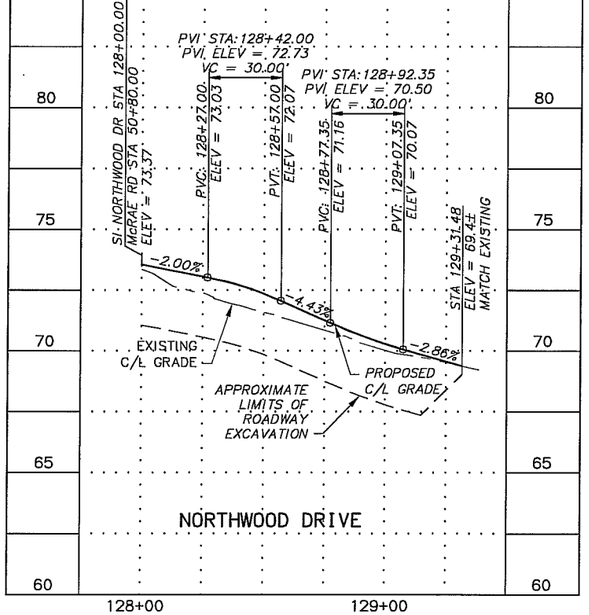


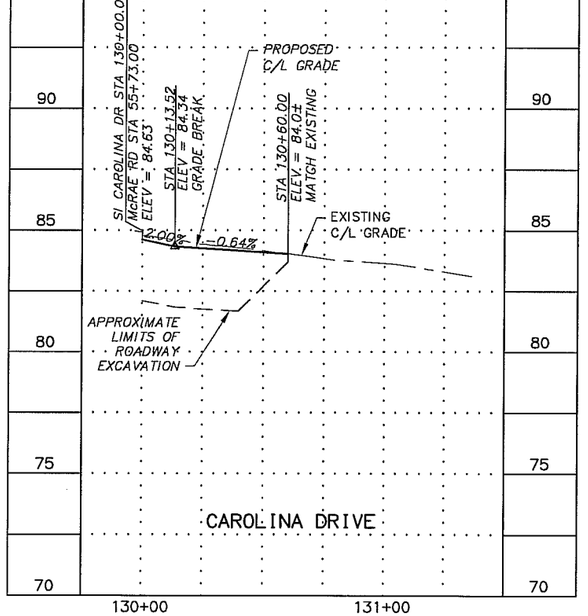






PRELIMINARY





RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   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: _____ TITLE: _____
   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: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR			
INSPECTOR			
	BASIS OF THIS DATUM GAAB 1972 Adjust		

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
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STATE OF ALASKA
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PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

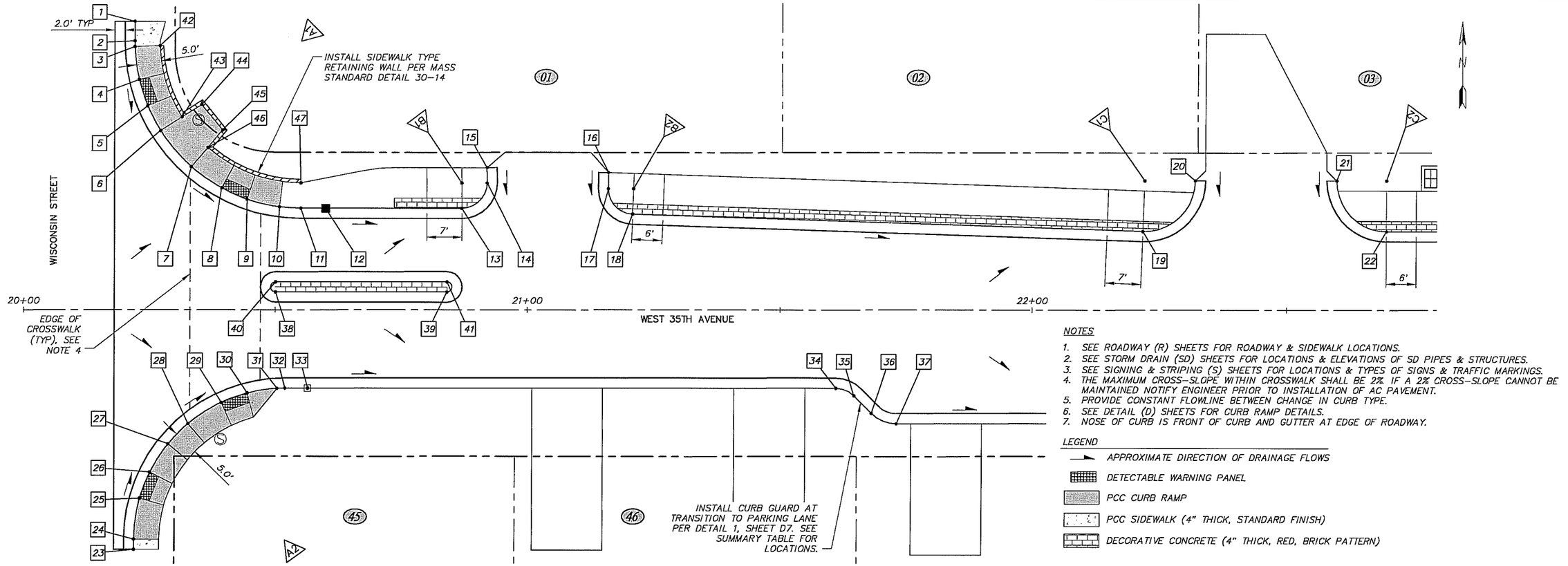
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS WISCONSIN STREET TO SPENARD ROAD SCHED A

ROADWAY IMPROVEMENTS

PARCEL 36 DRIVEWAY, NORTHWOOD DRIVE, AND CAROLINA DRIVE

SCALE HOR. 1"=30' VER. 1"=3' | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET R9 of R23

File: J:\Jobsdata\10104 35th & McRae\100 CADD\Drawings\01 Working Set\01 Civil\10104 Sitestreets - R9.dwg



NOTES

1. SEE ROADWAY (R) SHEETS FOR ROADWAY & SIDEWALK LOCATIONS.
2. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS & ELEVATIONS OF SD PIPES & STRUCTURES.
3. SEE SIGNING & STRIPING (S) SHEETS FOR LOCATIONS & TYPES OF SIGNS & TRAFFIC MARKINGS.
4. THE MAXIMUM CROSS-SLOPE WITHIN CROSSWALK SHALL BE 2%. IF A 2% CROSS-SLOPE CANNOT BE MAINTAINED NOTIFY ENGINEER PRIOR TO INSTALLATION OF AC PAVEMENT.
5. PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
6. SEE DETAIL (D) SHEETS FOR CURB RAMP DETAILS.
7. NOSE OF CURB IS FRONT OF CURB AND GUTTER AT EDGE OF ROADWAY.

LEGEND

- APPROXIMATE DIRECTION OF DRAINAGE FLOWS
- DETECTABLE WARNING PANEL
- PCC CURB RAMP
- PCC SIDEWALK (4" THICK, STANDARD FINISH)
- DECORATIVE CONCRETE (4" THICK, RED, BRICK PATTERN)

POINT SUMMARY - WEST 35TH AVENUE AT WISCONSIN STREET

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	NOSE OF CURB ELEV (FT)	TO NEXT POINT ALONG NOSE OF CURB LENGTH (FT)	TO NEXT POINT ALONG NOSE OF CURB SLOPE (%)	DESCRIPTION
1	20+22.07	56.92 LT	68.24	1	67.84	3.88	−2.06	MATCH EXISTING
2	20+22.07	53.04 LT	68.16	1	67.76	1.18	−1.69	PC CURB RETURN
3	20+22.08	51.92 LT	68.14	1	67.74	7.00	−1.29	BEGIN RAMP
4	20+22.95	45.39 LT	67.63	1A	67.65	5.83	−1.72	END RAMP, BEGIN LANDING
5	20+24.66	40.17 LT	67.53	1A	67.55	5.83	−1.03	END LANDING, BEGIN RAMP
6	20+27.21	35.31 LT	67.89	1	67.49	9.95	−1.31	END RAMP
7	20+33.30	28.20 LT	67.76	1	67.36	7.83	−1.28	BEGIN RAMP
8	20+39.34	23.99 LT	67.24	1A	67.26	5.83	−1.37	END RAMP, BEGIN LANDING
9	20+44.38	21.78 LT	67.16	1A	67.18	7.04	−1.28	END LANDING, BEGIN RAMP
10	20+50.83	20.27 LT	67.49	1	67.09	4.50	−1.33	END RAMP
11	20+55.06	20.00 LT	67.43	1	67.03	3.00	−1.33	PT CURB RETURN
12	20+58.06	20.00 LT	67.39	1	66.99	28.94	−0.66	CURB INLET
13	20+87.00	20.00 LT	66.78	1A	66.80	11.00	1.27	PC CURB RETURN
14	20+92.00	25.00 LT	66.92	1A	66.94	3.00	1.33	PT CURB RETURN
15	20+92.00	28.00 LT	66.96	1A	66.98	–	–	END C&G, BACK OF PATHWAY
16	21+16.00	27.05 LT	66.84	1A	66.86	3.17	−1.89	BEGIN C&G, BACK OF PATHWAY
17	21+16.00	23.88 LT	66.78	1A	66.80	10.76	−1.77	PC CURB RETURN
18	21+20.83	18.88 LT	66.59	1A	66.61	100.89	−0.56	PT CURB RETURN
19	22+21.67	15.54 LT	66.02	1A	66.04	19.25	0.78	PC CURB RETURN
20	22+32.00	25.53 LT	66.17	1A	66.19	–	–	PT CURB RETURN, END C&G
21	22+60.00	25.50 LT	66.02	1A	66.04	18.85	−1.64	PC CURB RETURN, BEGIN C&G
22	22+70.00	15.50 LT	65.71	1A	65.73	–	–	PT CURB RETURN

POINT SUMMARY - WEST 35TH AVENUE AT WISCONSIN STREET CONTINUED

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	NOSE OF CURB ELEV (FT)	TO NEXT POINT ALONG NOSE OF CURB LENGTH (FT)	TO NEXT POINT ALONG NOSE OF CURB SLOPE (%)	DESCRIPTION
23	20+22.01	47.34 RT	68.07	1	67.67	2.00	−1.00	MATCH EXISTING
24	20+22.02	45.34 RT	68.05	1	67.65	8.71	−1.03	PC CURB RETURN, BEGIN RAMP
25	20+23.17	37.29 RT	67.54	1A	67.56	5.93	−1.01	END RAMP, BEGIN LANDING
26	20+25.17	32.12 RT	67.48	1A	67.50	7.11	−0.98	END LANDING, BEGIN RAMP
27	20+28.79	26.53 RT	67.83	1	67.43	6.04	−0.99	END RAMP
28	20+32.76	22.51 RT	67.77	1	67.37	8.29	−0.97	BEGIN RAMP
29	20+39.29	18.33 RT	67.27	1A	67.29	5.90	−1.02	END RAMP, BEGIN LANDING
30	20+44.51	16.46 RT	67.21	1A	67.23	6.40	−0.94	END LANDING, BEGIN FLARE
31	20+50.43	15.54 RT	67.57	1	67.17	1.70	−1.76	END FLARE
32	20+52.02	15.50 RT	67.54	1	67.14	4.48	−1.12	PT CURB RETURN
33	20+56.51	15.50 RT	67.49	1	67.09	104.61	−0.64	CURB INLET
34	21+61.12	15.50 RT	66.82	1	66.42	5.50	−1.27	PC, R= 5'
35	21+64.65	16.96 RT	66.75	1	66.35	4.93	−1.83	PT
36	21+68.14	20.45 RT	66.66	1	66.26	3.93	−2.04	PC, R= 5'
37	21+73.09	22.50 RT	66.58	1	66.18	–	–	PT
38	20+50.10	3.50 LT	68.03	6	67.43	34.00	−0.65	PC, R=1'
39	20+84.10	3.50 LT	67.81	6	67.21	–	–	PC, R=1'
40	20+50.10	5.50 LT	67.85	6	67.25	34.00	−0.65	PT
41	20+84.10	5.50 LT	67.63	6	67.03	–	–	PT

POINT SUMMARY - W 35TH AVE AT WISCONSIN ST CONTINUED

POINT	STATION	OFFSET (FT)	TOP OF CONCRETE ELEV (FT)	TOP OF RETAINING WALL ELEV (FT)	DESCRIPTION
42	20+27.08	52.09 LT	68.24	69.24	BEGIN 1' WALL
43	20+31.43	37.99 LT	67.99	68.99	END 1' WALL, BEGIN TRANSITION TO 2' WALL
44	20+35.32	40.46 LT	68.08	70.08	2' WALL
45	20+39.47	35.40 LT	67.95	69.95	END 2' WALL, BEGIN TRANSITION TO 1' WALL
46	20+36.60	31.96 LT	67.86	68.86	1' WALL
47	20+55.06	25.00 LT	67.53	68.53	END 1' WALL

CURB RADIUS TABLE

POINT	TBC RADIUS POINT STATION	OFFSET (FT)	RADIUS (FT)	DESCRIPTION
A1	20+55.06	53.00 LT	33.0	WISCONSIN ST
A2	20+52.02	45.50 RT	30.0	WISCONSIN ST
B1	20+87.00	25.00 LT	5.0	PARCEL 1 DWY
B2	21+21.00	23.88 LT	5.0	PARCEL 1 DWY
C1	22+22.00	25.53 LT	10.0	PARCEL 3 DWY
C2	22+70.00	25.50 LT	10.0	PARCEL 3 DWY

PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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: _____ TITLE: _____
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: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

GRAPHIC SCALE 20 10 0 10 20

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAA877	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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SEAL

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PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS WISCONSIN STREET TO SPENARD ROAD SCHED A

INTERSECTION LAYOUT PLAN

WEST 35TH AVENUE AT WISCONSIN STREET

SCALE HOR. 1"=10' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET R10 of R23

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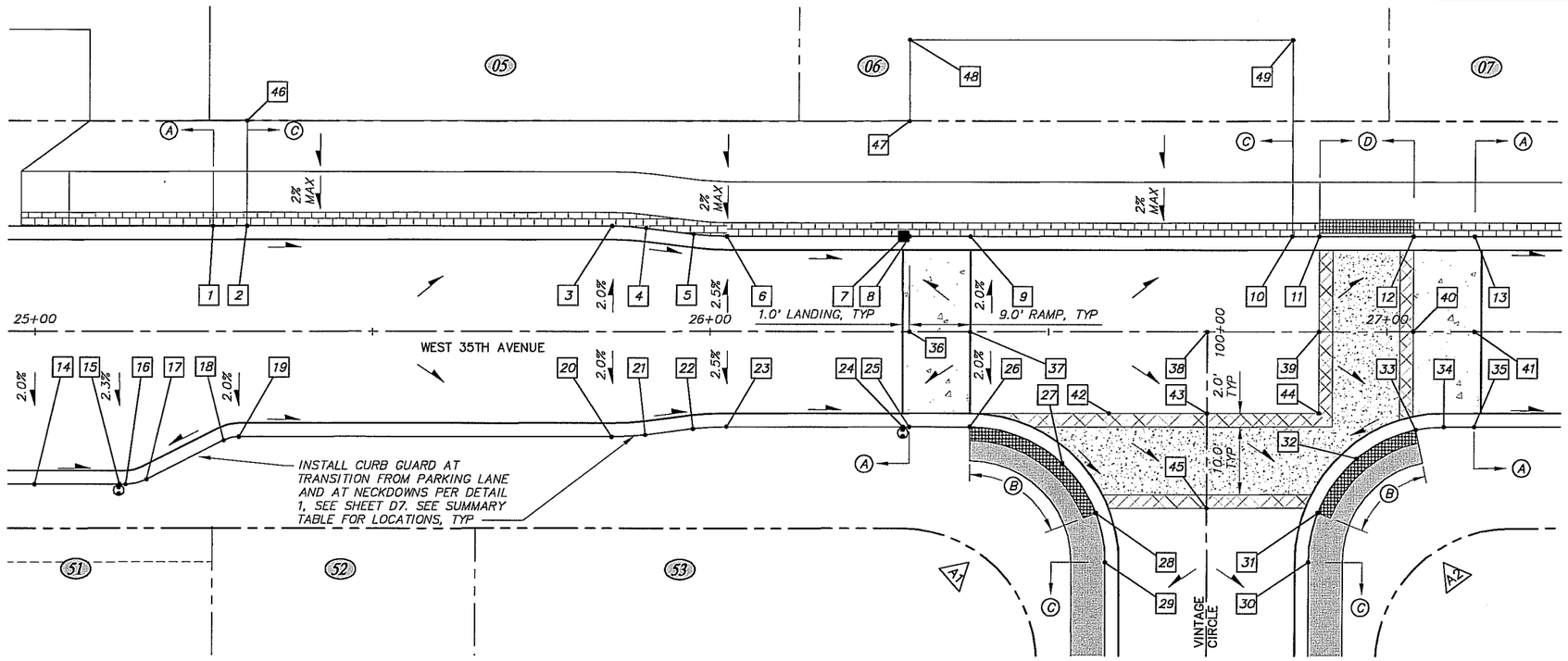

NOTES

1. SEE ROADWAY (R) SHEETS FOR ROADWAY & SIDEWALK LOCATIONS.
2. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS & ELEVATIONS OF SD PIPES & STRUCTURES.
3. SEE SIGNING & STRIPING (S) SHEETS FOR LOCATIONS & TYPES OF SIGNS & TRAFFIC MARKINGS.
4. THE MAXIMUM CROSS-SLOPE WITHIN CROSSWALKS SHALL BE 2%. IF A 2% CROSS-SLOPE CANNOT BE MAINTAINED NOTIFY ENGINEER PRIOR TO INSTALLATION OF CONCRETE.
5. CONTRACTOR SHALL AS-BUILT SURVEY CURB RETURNS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO POURING CROSSWALKS AND RAMPS. INTERSECTION LAYOUT ELEVATIONS MAY BE ADJUSTED BY ENGINEER BASED UPON AS-BUILT DATA.
6. CONCRETE CROSSWALKS & RAMPS FOR RAISED INTERSECTIONS SHALL BE POURED AGAINST FORMS SET TO THE ELEVATION SHOWN IN POINT SUMMARY TABLE, AS REVISED BY ENGINEER (NOTE 5). CONTRACTOR SHALL NOT UTILIZE AC PAVEMENT (NEW OR EXISTING) AS A CONCRETE FORM.
7. PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
8. SEE DETAIL (D) SHEETS FOR RAISED INTERSECTION AND DETECTABLE WARNING DETAILS.
9. NOSE OF CURB IS FRONT OF CURB AND GUTTER AT EDGE OF ROADWAY.
10. DETECTABLE WARNING (DW) PANELS SHALL BE CONTINUOUS AND SEAMLESS, GAPS BETWEEN PANELS ARE UNACCEPTABLE.

LEGEND

- APPROXIMATE DIRECTION OF DRAINAGE FLOWS
- DETECTABLE WARNING PANEL, SEE NOTE 10
- PCC SIDEWALK (4" THICK, STANDARD FINISH)
- DECORATIVE CONCRETE (4" THICK, RED, BRICK PATTERN)
- HIGH-PERFORMANCE CONCRETE (8" THICK, RED)
- HIGH-PERFORMANCE CONCRETE (8" THICK, WHITE)
- HIGH-PERFORMANCE CONCRETE (8" THICK, NATURAL)
- AC PAVEMENT

DESIGNATION	CURB TYPE
(A)	TYPE 1 CURB
(B)	TYPE 1A CURB
(C)	TYPE 2 CURB
(D)	TYPE 2A CURB

☐ **POINT SUMMARY - RAISED INTERSECTION AT VINTAGE CIRCLE**

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	NOSE OF CURB ELEV (FT)	TO NEXT POINT ALONG NOSE OF CURB LENGTH (FT)	SLOPE (%)	DESCRIPTION
1	25+26.47	15.50 LT	66.08	65.68	5.00	−0.60	END TYPE 1 C&G
2	25+31.47	15.50 LT	65.82	65.65	54.04	−0.52	BEGIN TYPE 2 C&G
3	25+85.51	15.50 LT	65.54	65.37	4.73	−0.63	PC, CROSS-SLOPE CHANGE
4	25+90.47	15.19 LT	65.51	65.34	7.11	−0.70	PT, R=40'
5	25+97.53	14.31 LT	65.46	65.29	5.22	−0.77	PC
6	26+02.49	14.00 LT	65.42	65.25	26.03	−0.54	PT, R=40', CROSS-SLOPE CHANGE
7	26+28.52	14.00 LT	65.28	65.11	0.92	0.00	CURB INLET
8	26+29.44	14.00 LT	65.28	65.11	9.00	5.67	BEGIN RAMP
9	26+38.44	14.00 LT	65.79	65.62	47.47	−0.51	END RAMP
10	26+85.91	14.00 LT	65.55	65.38	4.00	−0.50	END TYPE 2 C&G
11	26+89.91	14.00 LT	65.39	65.36	14.00	−0.57	BEGIN DW, EDGE OF CROSSWALK
12	27+03.91	14.00 LT	65.31	65.28	9.00	−6.00	END DW, EDGE OF CROSSWALK, BEGIN RAMP
13	27+12.91	14.00 LT	65.14	64.74	–	–	END RAMP
14	25+00.00	22.50 RT	66.07	65.67	12.58	−1.03	BEGIN CROSS-SLOPE CHANGE
15	25+12.58	22.50 RT	65.94	65.54	0.92	1.09	CURB INLET, CROSS-SLOPE CHANGE
16	25+13.50	22.50 RT	65.95	65.55	2.32	0.43	PC, R=7'
17	25+16.63	21.76 RT	65.96	65.56	12.82	0.62	PT
18	25+28.10	16.03 RT	66.04	65.64	3.25	0.62	PC, R=5'
19	25+30.34	15.50 RT	66.06	65.66	55.17	−0.53	PT, CROSS-SLOPE CHANGE
20	25+85.51	15.50 RT	65.77	65.37	4.73	−0.63	PC, R=40', CROSS-SLOPE CHANGE
21	25+90.47	15.19 RT	65.74	65.34	7.11	−0.70	PT
22	25+97.53	14.31 RT	65.69	65.29	5.22	−0.77	PC, R=40'
23	26+02.49	14.00 RT	65.65	65.25	26.03	−0.54	PT, CROSS-SLOPE CHANGE
24	26+28.52	14.00 RT	65.51	65.11	0.92	0.00	CURB INLET
25	26+29.44	14.00 RT	65.51	65.11	9.00	–	BEGIN RAMP
26	26+38.44	14.00 RT	65.62	65.64	16.50	−1.52	PC CURB RETURN, BEGIN DW, END RAMP, CROSS SLOPE CHANGE
27	26+52.07	19.37 RT	65.37	65.39	9.87	−1.42	
28	26+57.07	26.73 RT	65.23	65.25	8.19	−5.37	END DW, EDGE OF CROSSWALK, BEGIN RAMP
29	26+58.44	34.00 RT	64.98	64.81	–	–	PT CURB RETURN, BEGIN TYPE 2 C&G

☐ **POINT SUMMARY - RAISED INTERSECTION AT VINTAGE CIRCLE**

POINT	STATION	OFFSET (FT)	TOP OF CONCRETE ELEV (FT)	TOP AC ELEV (FT)	TBC ELEV (FT)	NOSE OF CURB ELEV (FT)	TO NEXT POINT ALONG NOSE OF CURB LENGTH (FT)	SLOPE (%)	DESCRIPTION
30	26+88.44	34.00 RT	–	–	64.98	64.81	8.19	3.54	PC CURB RETURN, END TYPE 2 C&G
31	26+89.81	26.73 RT	–	–	65.08	65.10	10.97	1.00	BEGIN DW, EDGE OF CROSSWALK
32	26+95.55	18.70 RT	–	–	65.19	65.21	10.82	0.55	
33	27+04.30	14.43 RT	–	–	65.25	65.27	4.58	−5.90	END DW, EDGE OF CROSSWALK, BEGIN RAMP
34	27+08.44	14.00 RT	–	–	65.20	65.00	4.47	−5.82	PT CURB RETURN, TRANSISTION C&G
35	27+12.91	14.00 RT	–	–	65.14	64.74	–	–	END RAMP, BEGIN TYPE 1 C&G
36	26+29.44	CL	65.41	–	–	–	–	–	BEGIN RAMP
37	26+38.44	CL	65.86	–	–	–	–	–	END RAMP
38	26+73.44	CL	–	65.68	–	–	–	–	SI W 35TH AVE & VINTAGE CIR
39	26+89.91	CL	65.60	–	–	–	–	–	CL W 35TH AVE, EDGE OF CROSSWALK
40	27+03.91	CL	65.52	–	–	–	–	–	CL W 35TH AVE, EDGE OF CROSSWALK, BEGIN RAMP
41	27+12.91	CL	64.98	–	–	–	–	–	CL W 35TH AVE, EDGE OF CROSSWALK, END RAMP
42	26+58.93	12.00 RT	65.52	–	–	–	–	–	EDGE OF CROSSWALK
43	26+73.44	12.00 RT	65.44	–	–	–	–	–	CL VINTAGE CIR, EDGE OF CROSSWALK
44	26+89.91	12.00 RT	65.34	–	–	–	–	–	EDGE OF CROSSWALK
45	26+73.44	26.00 RT	65.16	–	–	–	–	–	CL VINTAGE CIR, EDGE OF CROSSWALK
46	25+31.47	31.00 LT	66.41	–	–	–	–	–	MATCH EXISTING
47	26+29.34	31.00 LT	65.82	–	–	–	–	–	MATCH EXISTING
48	26+29.34	43.00 LT	66.35	–	–	–	–	–	MATCH EXISTING
49	26+85.91	43.00 LT	66.08	–	–	–	–	–	MATCH EXISTING

△ **VINTAGE CIRCLE CURB RADIUS TABLE**

POINT	TBC RADIUS POINT STATION	OFFSET (FT)	RADIUS (FT)	DESCRIPTION
A1	26+38.44	34.00 RT	20.0	VINTAGE CIR
A2	27+08.44	34.00 RT	20.0	VINTAGE CIR

PRELIMINARY

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   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: _____ TITLE: _____
   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: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

GRAPHIC SCALE 20 10 0 10 20

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
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STATE OF ALASKA 49TH
Justin T. Keene CE-11775
REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

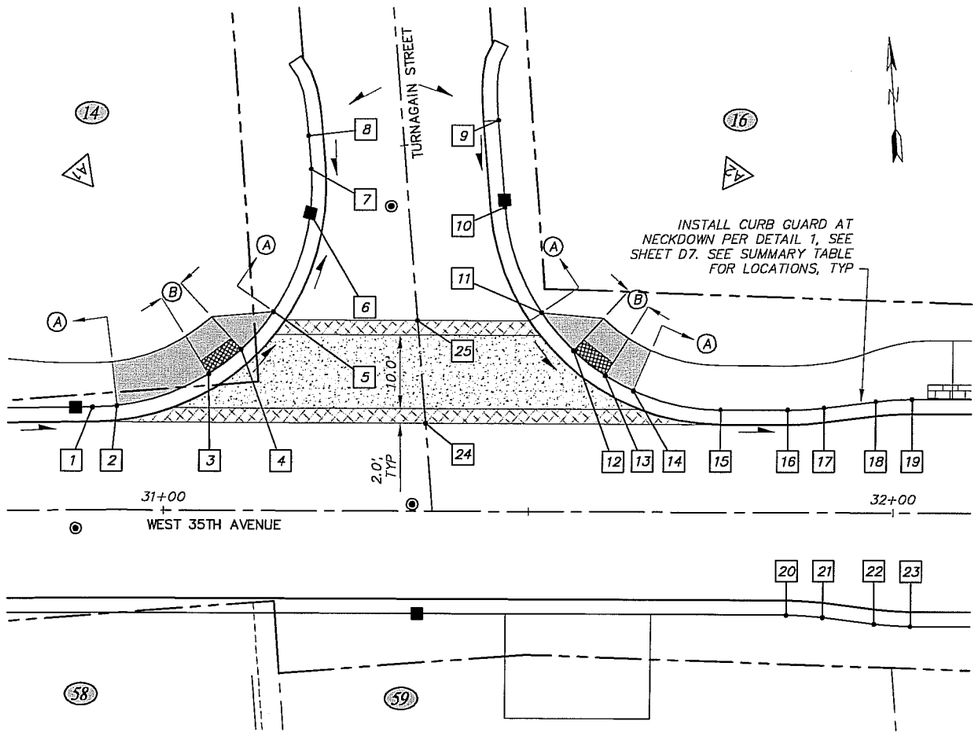
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

RAISED INTERSECTION & CURB NECKDOWN LAYOUT PLAN

WEST 35TH AVENUE AT VINTAGE CIRCLE

SCALE HOR. 1"=10' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET R11 of R23

File: J:\Jobs\ato\10104 35th & McRae\05 CADD\Drawings\01 Working Set\01 Civil\10104 INTERSECTION LAYOUT.dwg



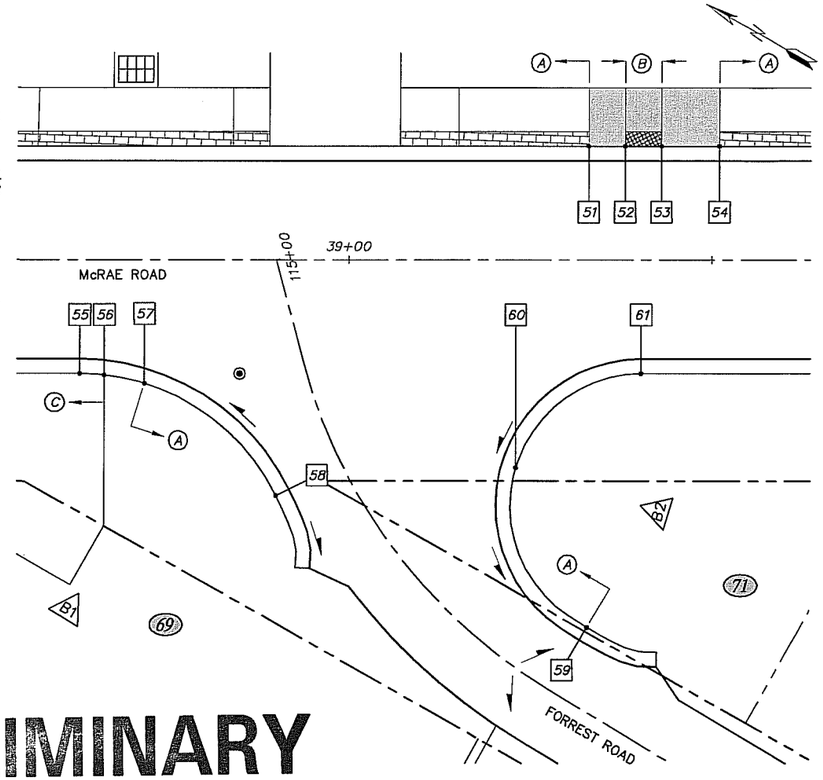
NOTES

1. SEE ROADWAY (R) SHEETS FOR ROADWAY & SIDEWALK LOCATIONS.
2. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS & ELEVATIONS OF SD PIPES & STRUCTURES.
3. SEE SIGNING & STRIPING (S) SHEETS FOR LOCATIONS & TYPES OF SIGNS & TRAFFIC MARKINGS.
4. THE MAXIMUM CROSS-SLOPE WITHIN THE CROSSWALK SHALL BE 2%. IF A 2% CROSS-SLOPE CANNOT BE MAINTAINED NOTIFY ENGINEER PRIOR TO INSTALLATION OF CONCRETE.
5. CONTRACTOR SHALL AS-BUILT SURVEY CURB RETURNS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO POURING CROSSWALK. INTERSECTION LAYOUT ELEVATIONS MAY BE ADJUSTED BY ENGINEER BASED UPON AS-BUILT DATA.
6. CONCRETE CROSSWALK SHALL BE POURED AGAINST FORMS SET TO THE ELEVATION SHOWN IN POINT SUMMARY TABLE, AS REVISED BY ENGINEER (NOTE 5). CONTRACTOR SHALL NOT UTILIZE AC PAVEMENT (NEW OR EXISTING) AS A CONCRETE FORM.
7. PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
8. SEE DETAIL (D) SHEETS FOR CROSSWALK AND CURB RAMP DETAILS.
9. NOSE OF CURB IS FRONT OF CURB AND GUTTER AT EDGE OF ROADWAY.

LEGEND

- APPROXIMATE DIRECTION OF DRAINAGE FLOWS
- DETECTABLE WARNING PANEL, SEE NOTE 10
- PCC SIDEWALK (4" THICK, STANDARD FINISH)
- DECORATIVE CONCRETE (4" THICK, RED, BRICK PATTERN)
- HIGH-PERFORMANCE CONCRETE (8" THICK, RED)
- HIGH-PERFORMANCE CONCRETE (8" THICK, WHITE)

DESIGNATION	CURB TYPE
A	TYPE 1 CURB
B	TYPE 1A CURB
C	TYPE 4 CURB



PRELIMINARY

POINT SUMMARY - WEST 35TH AVENUE AT TURNAGAIN STREET

POINT	STATION	OFFSET (FT)	TOP OF CONCRETE ELEV (FT)	TBC ELEV (FT)	NOSE OF CURB ELEV (FT)	TO NEXT POINT ALONG NOSE OF CURB LENGTH (FT)	TO NEXT POINT ALONG NOSE OF CURB SLOPE (%)	DESCRIPTION
1	30+90.27	14.00 LT	–	56.06	55.66	3.58	−3.91	PC CURB RETURN
2	30+93.56	14.19 LT	–	55.92	55.52	14.22	−4.08	BEGIN RAMP, END TYPE 1 C&G, EDGE OF CROSSWALK
3	31+06.02	18.59 LT	–	54.92	54.94	5.93	−1.85	END RAMP, BEGIN LANDING
4	31+10.42	21.96 LT	–	54.81	54.83	7.27	−2.75	END LANDING, BEGIN FLARE
5	31+14.86	27.12 LT	–	55.03	54.63	15.45	−2.78	EDGE OF CROSSWALK, END FLARE
6	31+19.86	40.56 LT	–	54.60	54.20	6.39	4.23	CURB INLET
7	31+19.95	46.54 LT	–	54.87	54.47	4.59	3.49	PT CURB RETURN
8	31+19.56	51.12 LT	–	55.03	54.63	–	–	BEGIN C&G TERMINATION TRANSITION
9	31+45.46	53.33 LT	–	55.03	54.63	11.93	−3.35	END C&G TERMINATION TRANSITION
10	31+46.48	41.45 LT	–	54.63	54.23	16.39	−5.06	CURB INLET
11	31+51.57	27.12 LT	–	53.80	53.40	7.27	−5.23	EDGE OF CROSSWALK, BEGIN FLARE
12	31+56.01	21.97 LT	–	53.00	53.02	5.93	−1.85	END FLARE, BEGIN LANDING
13	31+60.42	18.59 LT	–	52.89	52.91	4.74	–	END LANDING, BEGIN RAMP
14	31+64.34	16.52 LT	–	53.09	52.69	13.20	−4.09	END RAMP
15	31+76.37	14.00 LT	–	52.55	52.15	9.01	−4.22	PT CURB RETURN, EDGE OF CROSSWALK
16	31+85.51	14.00 LT	–	52.17	51.77	5.22	−3.83	PC, R=40'
17	31+90.47	14.31 LT	–	51.97	51.57	7.11	−4.36	PT
18	31+97.53	15.19 LT	–	51.66	51.26	4.73	−4.44	PC, R=40'
19	32+02.49	15.50 LT	–	51.45	51.05	–	–	PT
20	31+85.51	14.00 RT	–	52.17	51.77	5.22	−3.83	PC, R=40'
21	31+90.47	14.31 RT	–	51.97	51.57	7.11	−4.36	PT
22	31+97.53	15.19 RT	–	51.66	51.26	4.73	−4.44	PC, R=40'
23	32+02.49	15.50 RT	–	51.45	51.05	–	–	PT
24	31+35.95	12.00 LT	53.80	–	–	–	–	CL TURNAGAIN ST, EDGE OF CROSSWALK
25	31+34.75	26.00 LT	54.08	–	–	–	–	CL TURNAGAIN ST, EDGE OF CROSSWALK

POINT SUMMARY - McRAE ROAD AT FORREST ROAD

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	NOSE OF CURB ELEV (FT)	TO NEXT POINT ALONG NOSE OF CURB LENGTH (FT)	TO NEXT POINT ALONG NOSE OF CURB SLOPE (%)	DESCRIPTION
51	39+32.97	15.50 LT	57.72	57.32	5.00	1.80	BEGIN RAMP
52	39+37.97	15.50 LT	57.39	57.41	5.00	1.80	END RAMP, BEGIN LANDING
53	39+42.97	15.50 LT	57.48	57.50	8.00	1.87	END LANDING, BEGIN RAMP
54	39+50.97	15.50 LT	58.05	57.65	–	–	END RAMP
55	38+63.16	15.50 RT	55.99	56.01	3.56	0.56	PC CURB RETURN
56	38+66.49	15.69 RT	56.01	56.03	6.00	0.50	EDGE OF DRIVEWAY, END TYPE 4 C&G
57	38+71.99	16.83 RT	56.46	56.06	25.92	0.54	BEGIN TYPE 1 C&G
58	38+90.01	32.13 RT	56.60	56.20	–	–	PT CURB RETURN, BEGIN C&G TERMINATION TRANSITION
59	39+32.91	50.13 RT	55.80	55.40	23.04	4.99	PC CURB RETURN, END C&G TERMINATION TRANSITION
60	39+23.02	28.34 RT	56.95	56.55	23.04	3.91	MIDDLE OF CURB RETURN
61	39+40.27	15.50 RT	57.85	57.45	–	–	PT CURB RETURN

△ TURNAGAIN STREET CURB RADIUS TABLE

TBC RADIUS POINT				
POINT	STATION	OFFSET (FT)	RADIUS (FT)	DESCRIPTION
A1	30+90.27	44.00 LT	30.0	TURNAGAIN ST
A2	31+76.37	44.00 LT	30.0	TURNAGAIN ST

△ FORREST ROAD CURB RADIUS TABLE

TBC RADIUS POINT				
POINT	STATION	OFFSET (FT)	RADIUS (FT)	DESCRIPTION
B1	38+63.16	45.50 RT	30.0	FORREST RD
B2	39+40.27	33.50 RT	18.0	FORREST RD

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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: _____ TITLE: _____
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: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

CONSTRUCTION RECORD

GRAPHIC SCALE 20 10 0 10 20

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
AS-BUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
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PHONE: (907) 562-2252
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SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

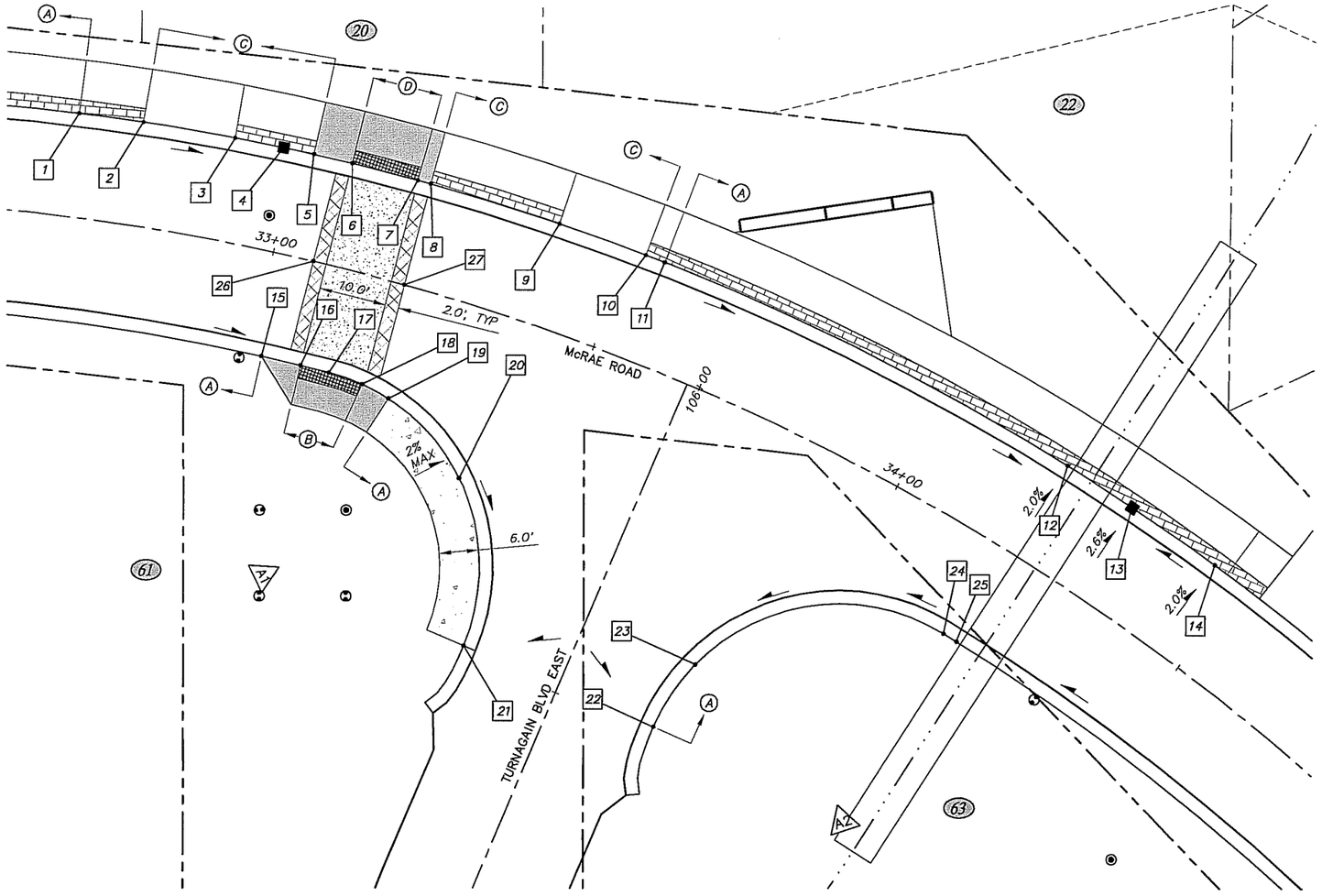
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

INTERSECTION LAYOUT PLAN

WEST 35TH AVENUE AT TURNAGAIN STREET & McRAE ROAD AT FORREST ROAD

SCALE HOR. 1"=10' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET R12 of R23

File: k:\Jobsdata\V0104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\V0104 INTERSECTION LAYOUT.dwg



NOTES

1. SEE ROADWAY (R) SHEETS FOR ROADWAY & SIDEWALK LOCATIONS.
2. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS & ELEVATIONS OF SD PIPES & STRUCTURES.
3. SEE SIGNING & STRIPING (S) SHEETS FOR LOCATIONS & TYPES OF SIGNS & TRAFFIC MARKINGS.
4. THE MAXIMUM CROSS-SLOPE WITHIN THE CROSSWALK SHALL BE 2% IF A 2% CROSS-SLOPE CANNOT BE MAINTAINED NOTIFY ENGINEER PRIOR TO INSTALLATION OF CONCRETE.
5. CONTRACTOR SHALL AS-BUILT SURVEY CURB RETURNS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO POURING CROSSWALK. INTERSECTION LAYOUT ELEVATIONS MAY BE ADJUSTED BY ENGINEER BASED UPON AS-BUILT DATA.
6. CONCRETE CROSSWALK SHALL BE POURED AGAINST FORMS SET TO THE ELEVATION SHOWN IN POINT SUMMARY TABLE, AS REVISED BY ENGINEER (NOTE 5). CONTRACTOR SHALL NOT UTILIZE AC PAVEMENT (NEW OR EXISTING) AS A CONCRETE FORM.
7. PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
8. SEE DETAIL (D) SHEETS FOR CROSSWALK AND CURB RAMP DETAILS.
9. NOSE OF CURB IS FRONT OF CURB AND GUTTER AT EDGE OF ROADWAY.
10. DETECTABLE WARNING (DW) PANELS SHALL BE CONTINUOUS AND SEAMLESS, GAPS BETWEEN PANELS ARE UNACCEPTABLE.

LEGEND

- APPROXIMATE DIRECTION OF DRAINAGE FLOWS
- DETECTABLE WARNING PANEL, SEE NOTE 10
- PCC CURB RAMP
- DECORATIVE CONCRETE (4" THICK, RED, BRICK PATTERN)
- HIGH-PERFORMANCE CONCRETE (8" THICK, RED)
- HIGH-PERFORMANCE CONCRETE (8" THICK, WHITE)
- PCC SIDEWALK (4" THICK, STANDARD FINISH)

DESIGNATION	CURB TYPE
(A)	TYPE 1 CURB
(B)	TYPE 1A CURB
(C)	TYPE 2 CURB
(D)	TYPE 2A CURB

PRELIMINARY

△ **TURNAGAIN BLVD EAST CURB RADIUS TABLE**

TBC RADIUS POINT				
POINT	STATION	OFFSET (FT)	RADIUS (FT)	DESCRIPTION
A1	33+12.50	45.500'	30.0	TURNAGAIN BLVD EAST
A2	34+17.50	45.500'	30.0	TURNAGAIN BLVD EAST

☐ **POINT SUMMARY - McRAE ROAD AT TURNAGAIN BLVD EAST**

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	NOSE OF CURB ELEV (FT)	TO NEXT POINT ALONG NOSE OF CURB LENGTH (FT)	TO NEXT POINT ALONG NOSE OF CURB SLOPE (%)	DESCRIPTION
1	32+68.52	15.50 LT	48.76	48.36	9.59	−3.75	END TYPE 1 C&G
2	32+77.75	15.50 LT	48.17	48.00	13.92	−3.52	BEGIN TYPE 2 C&G, BEGIN DRIVEWAY
3	32+91.15	15.50 LT	47.68	47.51	7.36	−3.12	END DRIVEWAY
4	32+98.24	15.50 LT	47.45	47.28	4.61	−3.25	CURB INLET
5	33+02.68	15.50 LT	47.30	47.13	5.84	−2.91	BEGIN RAMP
6	33+08.30	15.50 LT	46.99	46.96	10.00	−2.80	BEGIN LANDING, END RAMP
7	33+17.93	15.50 LT	46.71	46.68	2.00	−2.50	END LANDING, BEGIN RAMP
8	33+19.84	15.50 LT	46.80	46.63	20.14	−2.33	END RAMP
9	33+39.24	15.50 LT	46.33	46.16	13.63	−1.91	BEGIN DRIVEWAY
10	33+52.36	15.50 LT	46.07	45.90	10.00	−0.50	END DRIVEWAY, END TYPE 2 C&G
11	33+55.24	15.51 LT	46.25	45.85	67.13	−0.83	BEGIN TYPE 1 C&G
12	34+19.89	15.50 LT	45.69	45.29	11.48	−0.61	BEGIN CROSS-SLOPE CHANGE
13	34+30.94	15.50 LT	45.62	45.22	15.00	1.07	CURB INLET, CROSS-SLOPE CHANGE
14	34+45.38	15.50 LT	45.78	45.38	–	–	END CROSS-SLOPE CHANGE

☐ **POINT SUMMARY - McRAE ROAD AT TURNAGAIN BLVD EAST**

POINT	STATION	OFFSET (FT)	TOP OF CONCRETE ELEV (FT)	TBC ELEV (FT)	NOSE OF CURB ELEV (FT)	TO NEXT POINT ALONG NOSE OF CURB LENGTH (FT)	TO NEXT POINT ALONG NOSE OF CURB SLOPE (%)	DESCRIPTION
15	33+01.63	15.50 RT	–	47.56	47.16	6.04	−3.15	BEGIN FLARE
16	33+07.91	15.50 RT	–	46.95	46.97	4.41	−3.17	END FLARE, BEGIN LANDING, EDGE OF CROSSWALK
17	33+12.50	15.50 RT	–	46.81	46.83	5.61	−3.21	PC CURB RETURN
18	33+17.99	15.92 RT	–	46.63	46.65	4.74	−3.59	END LANDING, BEGIN RAMP, EDGE OF CROSSWALK
19	33+22.53	16.92 RT	–	46.88	46.48	44.71	−4.18	END RAMP
20	33+47.00	48.52 RT	–	45.01	44.61	5.00	−3.20	PT CURB RETURN
21	33+46.69	53.51 RT	–	44.62	44.45	–	–	BEGIN TYPE 2 C&G
22	33+83.00	48.52 RT	–	45.01	44.61	11.94	3.10	END C&G TERMINATION TRANSITION
23	33+84.68	37.49 RT	–	45.38	44.98	43.13	0.70	
24	34+17.50	15.50 RT	–	45.68	45.28	2.29	0.44	PT CURB RETURN
25	34+19.89	15.50 RT	–	45.69	45.29	–	–	
26	33+06.11	0.00 RT	47.29	–	–	–	–	CL McRAE RD, EDGE OF CROSSWALK
27	33+20.11	0.00 RT	46.89	–	–	–	–	CL McRAE RD, EDGE OF CROSSWALK

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   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: _____ TITLE: _____
   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: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

DATA	DRAWN BY	CHECKED BY
BASE		
TOPOGRAPHY		
PROFILE		
STORM SEWER		
WATER/SANITARY SEWER		
GAS		
TELEPHONE		
ELECTRIC		
DESIGN		
QUANTITIES		
PRELIMINARY/FINAL		
MUNICIPAL/STATE		

PLAN CHECK

GRAPHIC SCALE 20 10 0 10 20

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN			
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM		
INSPECTOR			

CONSTRUCTION RECORD

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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Justin T. Keene CE-11775
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PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS WISCONSIN STREET TO SPENARD ROAD SCHED A

INTERSECTION LAYOUT PLAN

McRAE ROAD AT TURNAGAIN BLVD EAST

SCALE HOR. 1"=10' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET R13 of R23

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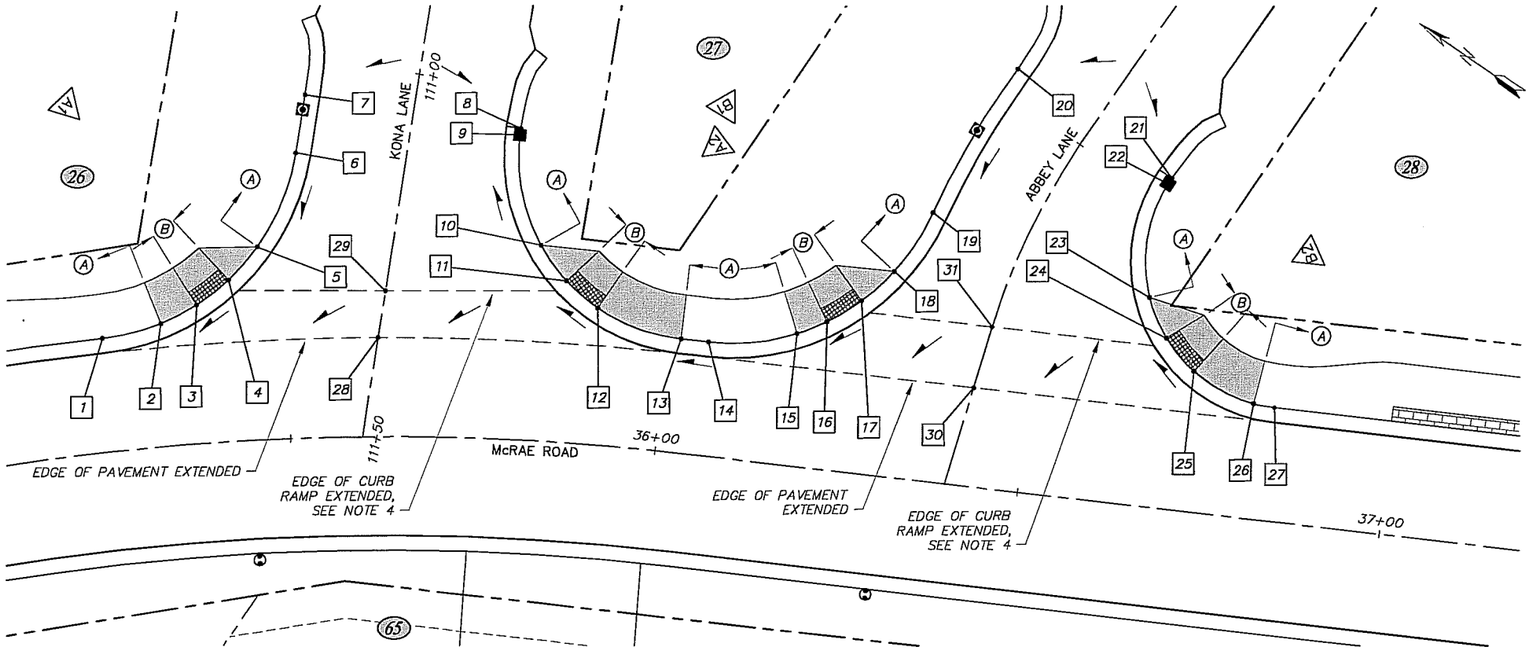


NOTES

1. SEE ROADWAY (R) SHEETS FOR ROADWAY & SIDEWALK LOCATIONS.
2. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS & ELEVATIONS OF SD PIPES & STRUCTURES.
3. SEE SIGNING & STRIPING (S) SHEETS FOR LOCATIONS & TYPES OF SIGNS & TRAFFIC MARKINGS.
4. THE MAXIMUM CROSS-SLOPE BETWEEN EDGE OF PAVEMENT EXTENDED AND EDGE OF CURB RAMP EXTENDED SHALL BE 2%. IF A 2% CROSS-SLOPE CANNOT BE MAINTAINED NOTIFY ENGINEER PRIOR TO INSTALLATION OF AC PAVEMENT.
5. PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
6. SEE DETAIL (D) SHEETS FOR CURB RAMP DETAILS.
7. NOSE OF CURB IS FRONT OF CURB AND GUTTER AT EDGE OF ROADWAY.

LEGEND

- APPROXIMATE DIRECTION OF DRAINAGE FLOWS
- DETECTABLE WARNING PANEL
- PCC CURB RAMP
- DECORATIVE CONCRETE (4" THICK, RED, BRICK PATTERN)

DESIGNATION	CURB TYPE
(A)	TYPE 1 CURB
(B)	TYPE 1A CURB

☐ **POINT SUMMARY - McRAE ROAD AT KONA LANE AND ABBEY LANE**

POINT	STATION	OFFSET (FT)	TOP OF CONCRETE ELEV (FT)	TBC ELEV (FT)	NOSE OF CURB ELEV (FT)	TO NEXT POINT ALONG NOSE OF CURB LENGTH (FT)	TO NEXT POINT ALONG NOSE OF CURB SLOPE (%)	DESCRIPTION
1	35+25.76	15.50 LT	–	47.19	46.79	8.80	2.61	PC CURB RETURN
2	35+33.53	16.72 LT	–	47.42	47.02	5.93	2.53	BEGIN RAMP, END TYPE 1 C&G
3	35+38.40	18.86 LT	–	47.15	47.17	5.93	1.85	END RAMP, BEGIN LANDING
4	35+42.74	21.97 LT	–	47.26	47.28	6.40	5.94	END LANDING, BEGIN FLARE
5	35+46.65	26.27 LT	–	48.06	47.66	14.85	3.57	END FLARE
6	35+51.87	38.83 LT	–	48.59	48.19	8.04	3.23	PT CURB RETURN
7	35+53.18	46.74 LT	–	48.85	48.45	–	–	BEGIN C&G TERMINATION TRANSITION
8	35+79.52	42.39 LT	–	48.85	48.45	1.00	0.00	END C&G TERMINATION TRANSITION
9	35+79.45	41.47 LT	–	48.85	48.45	16.82	2.02	CURB INLET
10	35+82.84	26.61 LT	–	49.19	48.79	6.48	2.01	BEGIN FLARE
11	35+86.39	21.98 LT	–	48.90	48.92	6.14	1.79	END FLARE, BEGIN LANDING
12	35+90.69	18.60 LT	–	49.01	49.03	13.16	3.65	END LANDING, BEGIN RAMP
13	36+01.81	15.50 LT	–	49.91	49.51	3.75	3.73	END RAMP, PT CURB RETURN
14	36+05.49	15.50 LT	–	50.05	49.65	13.21	4.24	PC CURB RETURN
15	36+17.52	18.02 LT	–	50.61	50.21	4.74	4.01	BEGIN RAMP
16	36+21.44	20.10 LT	–	50.38	50.40	5.93	1.85	END RAMP, BEGIN LANDING
17	36+25.85	23.47 LT	–	50.49	50.51	6.40	2.66	END LANDING, BEGIN FLARE
18	36+29.82	27.95 LT	–	51.08	50.68	10.27	2.63	END FLARE
19	36+34.11	36.53 LT	–	51.35	50.95	22.35	0.58	PT CURB RETURN
20	36+43.18	57.31 LT	–	51.48	51.08	–	–	BEGIN C&G TERMINATION TRANSITION
21	36+66.04	44.92 LT	–	51.49	51.09	1.00	−1.00	END C&G TERMINATION TRANSITION
22	36+65.63	44.11 LT	–	51.48	51.08	17.73	4.23	CURB INLET
23	36+64.97	28.44 LT	–	52.23	51.83	6.60	4.09	BEGIN FLARE
24	36+67.89	23.23 LT	–	52.08	52.10	6.47	1.85	END FLARE, BEGIN LANDING
25	36+72.13	19.18 LT	–	52.20	52.22	10.35	2.03	END LANDING, BEGIN RAMP
26	36+80.78	15.71 LT	–	52.83	52.43	3.20	3.44	END RAMP, BEGIN TYPE 1 C&G
27	36+83.68	15.50 LT	–	52.94	52.54	–	–	PT CURB RETURN
28	35+61.93	13.50 LT	48.01	–	–	–	–	CL KONA LN, EDGE OF PAVEMENT EXTENDED
29	35+62.89	19.85 LT	48.08	–	–	–	–	CL KONA LN, EDGE OF CURB RAMP EXTENDED
30	36+42.38	13.50 LT	51.05	–	–	–	–	CL ABBEY LANE, EDGE OF PAVEMENT EXTENDED
31	36+43.88	22.00 LT	51.10	–	–	–	–	CL ABBEY LANE, EDGE OF CURB RAMP EXTENDED

△ **KONA LANE AND ABBEY LANE CURB RADIUS TABLE**

TBC RADIUS POINT				
POINT	STATION	OFFSET (FT)	RADIUS (FT)	DESCRIPTION
A1	35+25.76	45.50 LT	30.0	KONA LANE
A2	36+01.81	40.50 LT	25.0	KONA LANE
B1	36+05.49	45.50 LT	30.0	ABBEY LANE
B2	36+83.68	35.50 LT	20.0	ABBEY LANE

PRELIMINARY

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   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: _____ TITLE: _____
   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: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

GRAPHIC SCALE 20 10 0 10 20

CONSTRUCTION RECORD

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

VERTICAL DATUM

REVISIONS

REV	DATE	DESCRIPTION	BY

CONSULTANT

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273

SEAL

STATE OF ALASKA 49TH
Justin T. Keene CE-11775
REGISTERED PROFESSIONAL ENGINEER

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

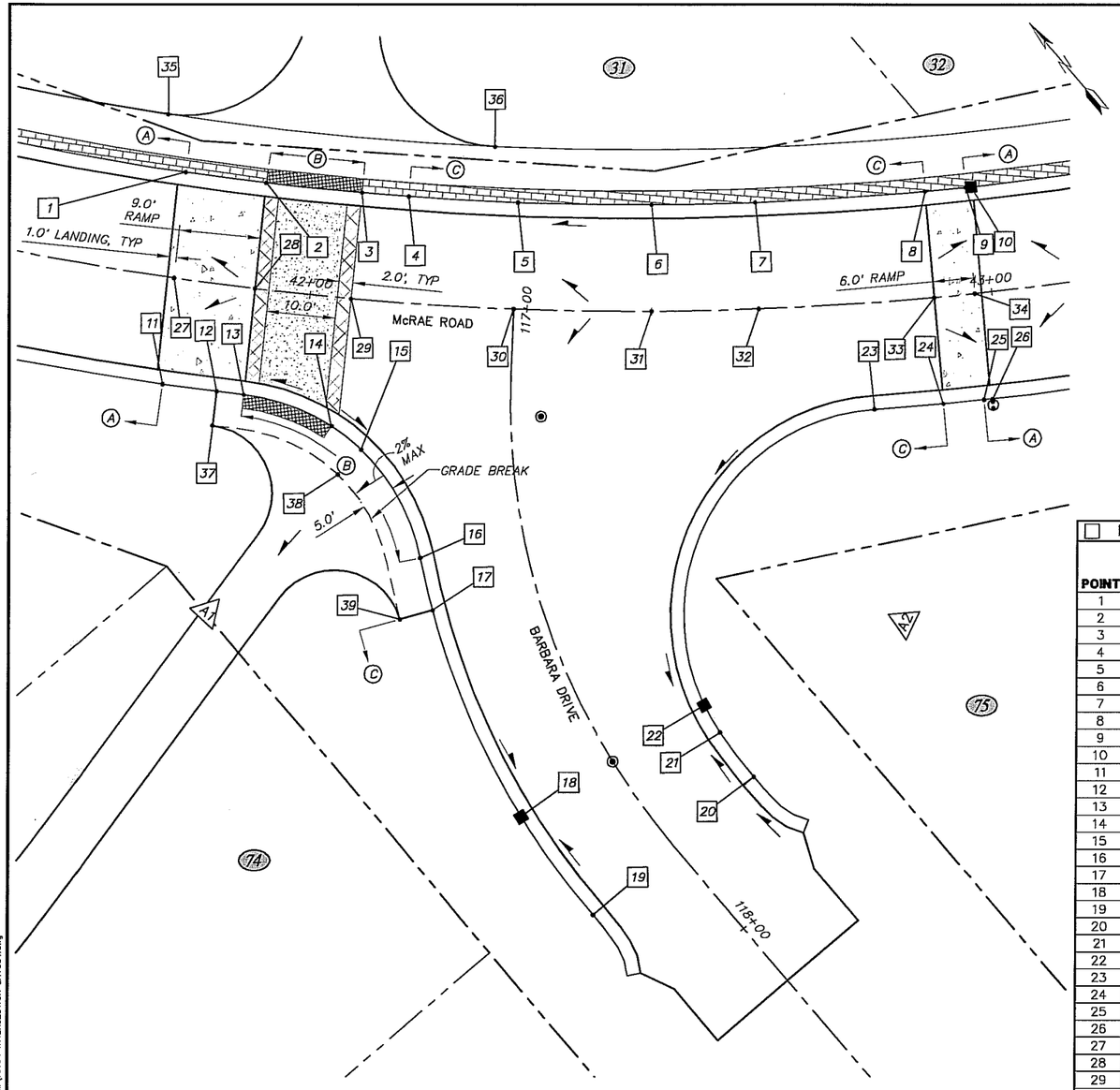
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

INTERSECTION LAYOUT PLAN

McRAE ROAD AT KONA LANE & ABBEY LANE

SCALE HOR. 1"=10' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET R14 of R23

File: J:\Jobsdata\10104 35th & McRae\DG CADD\Drawings\01 Working Set\01 Civil\10104 INTERSECTION LAYOUT.dwg



NOTES

1. SEE ROADWAY (R) SHEETS FOR ROADWAY & SIDEWALK LOCATIONS.
2. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS & ELEVATIONS OF SD PIPES & STRUCTURES.
3. SEE SIGNING & STRIPING (S) SHEETS FOR LOCATIONS & TYPES OF SIGNS & TRAFFIC MARKINGS.
4. THE MAXIMUM CROSS-SLOPE WITHIN THE CROSSWALK SHALL BE 2%. IF A 2% CROSS-SLOPE CANNOT BE MAINTAINED NOTIFY ENGINEER PRIOR TO INSTALLATION OF CONCRETE.
5. CONTRACTOR SHALL AS-BUILT SURVEY CURB RETURNS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO POURING THE CROSSWALK AND RAMPS. INTERSECTION LAYOUT ELEVATIONS MAY BE ADJUSTED BY ENGINEER BASED UPON AS-BUILT DATA.
6. CONCRETE CROSSWALK & RAMPS FOR RAISED INTERSECTIONS SHALL BE POURED AGAINST FORMS SET TO THE ELEVATION SHOWN IN POINT SUMMARY TABLE, AS REVISED BY ENGINEER (NOTE 5). CONTRACTOR SHALL NOT UTILIZE AC PAVEMENT (NEW OR EXISTING) AS A CONCRETE FORM.
7. PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
8. SEE DETAIL (D) SHEETS FOR RAISED INTERSECTION AND DETECTABLE WARNING DETAILS.
9. NOSE OF CURB IS FRONT OF CURB AND GUTTER AT EDGE OF ROADWAY.
10. DETECTABLE WARNING (DW) PANELS SHALL BE CONTINUOUS AND SEAMLESS, GAPS BETWEEN PANELS ARE UNACCEPTABLE.

LEGEND

- APPROXIMATE DIRECTION OF DRAINAGE FLOWS
- DETECTABLE WARNING PANEL, SEE NOTE 10
- DECORATIVE CONCRETE (4" THICK, RED, BRICK PATTERN)
- HIGH-PERFORMANCE CONCRETE (8" THICK, RED)
- HIGH-PERFORMANCE CONCRETE (8" THICK, WHITE)
- HIGH-PERFORMANCE CONCRETE (8" THICK, NATURAL)
- AC PAVEMENT

DESIGNATION	CURB TYPE
(A)	TYPE 1 CURB
(B)	TYPE 1A CURB
(C)	TYPE 2 CURB

PRELIMINARY

☐ POINT SUMMARY - McRAE ROAD AT BARBARA DRIVE

POINT	STATION	OFFSET (FT)	TOP OF CONCRETE ELEV (FT)	TOP AC ELEV (FT)	TBC ELEV (FT)	NOSE OF CURB ELEV (FT)	TO NEXT POINT ALONG NOSE OF CURB LENGTH (FT)	TO NEXT POINT ALONG NOSE OF CURB SLOPE (%)	DESCRIPTION
1	41+79.44	15.50 LT	–	–	59.12	58.72	12.00	6.08	BEGIN RAMP, END TYPE 1 C&G
2	41+91.79	15.50 LT	–	–	59.43	59.45	14.00	2.21	END RAMP, BEGIN DW, EDGE OF CROSSWALK
3	42+06.20	15.50 LT	–	–	59.74	59.76	7.00	2.57	END DW, EDGE OF CROSSWALK
4	42+13.41	15.50 LT	–	–	60.11	59.94	16.12	2.92	BEGIN TYPE 2 C&G
5	42+30.00	15.50 LT	–	–	60.58	60.41	19.43	3.40	
6	42+50.00	15.50 LT	–	–	61.24	61.07	15.42	3.89	
7	42+65.88	15.50 LT	–	–	61.84	61.67	24.87	4.26	
8	42+91.47	15.50 LT	–	–	62.90	62.73	6.00	−4.17	BEGIN RAMP
9	42+97.65	15.50 LT	–	–	62.88	62.48	0.83	6.02	END RAMP
10	42+98.50	15.50 LT	–	–	62.93	62.53	–	–	CURB INLET
11	41+80.53	15.50 RT	–	–	59.12	58.72	8.00	6.13	BEGIN RAMP, END TYPE 1 C&G
12	41+88.34	15.50 RT	–	–	59.21	59.21	4.00	6.00	TRANSITION C&G, EDGE OF PATHWAY
13	41+92.20	15.50 RT	–	–	59.43	59.45	14.55	1.65	END RAMP, BEGIN DW, EDGE OF CROSSWALK
14	42+04.87	18.72 RT	–	–	59.67	59.69	5.94	−0.84	EDGE OF CROSSWALK, END DW
15	42+09.34	21.76 RT	–	–	59.62	59.64	19.60	−0.77	MIDDLE OF CURB RETURN
16	42+18.65	36.91 RT	–	–	59.47	59.49	7.74	−1.42	END TYPE 1A C&G, PT CURB RETURN
17	42+20.76	44.44 RT	–	–	59.55	59.38	32.42	−1.23	BEGIN TYPE 2 C&G, EDGE OF PATHWAY
18	42+33.62	73.97 RT	–	–	59.15	58.98	17.45	0.74	CURB INLET
19	42+42.81	88.07 RT	–	–	59.28	59.11	–	–	BEGIN C&G TERMINATION TRANSITION
20	42+63.22	68.14 RT	–	–	59.28	59.11	8.37	−0.96	END C&G TERMINATION TRANSITION
21	42+58.97	61.55 RT	–	–	59.20	59.03	4.93	−1.01	PC CURB RETURN
22	42+56.95	57.53 RT	–	–	59.15	58.98	62.63	5.35	CURB INLET
23	42+81.75	15.50 RT	–	–	62.50	62.33	10.00	4.00	PT CURB RETURN
24	42+91.47	15.50 RT	–	–	62.90	62.73	6.00	−4.17	BEGIN RAMP, END TYPE 2 C&G
25	42+97.31	15.50 RT	–	–	62.88	62.48	1.25	4.00	END RAMP, BEGIN TYPE 1 C&G
26	42+98.52	15.56 RT	–	–	62.93	62.53	–	–	CURB INLET
27	41+80.00	CL	59.00	–	–	–	–	–	CL McRAE RD, BEGIN RAMP
28	41+92.00	CL	59.72	–	–	–	–	–	CL McRAE RD, END RAMP, EDGE OF CROSSWALK
29	42+06.00	CL	60.03	–	–	–	–	–	CL McRAE RD, EDGE OF CROSSWALK
30	42+30.00	CL	–	60.68	–	–	–	–	SI McRAE RD & BARBARA DRIVE
31	42+50.00	CL	–	61.34	–	–	–	–	
32	42+65.88	CL	–	61.94	–	–	–	–	
33	42+91.47	CL	63.00	–	–	–	–	–	BEGIN RAMP
34	42+97.47	CL	62.75	–	–	–	–	–	END RAMP
35	41+75.43	23.50 LT	–	59.20	–	–	–	–	PC PATHWAY CURVE
36	42+26.10	23.50 LT	–	60.62	–	–	–	–	PT PATHWAY CURVE
37	41+88.34	20.50 RT	–	59.23	–	–	–	–	PC PATHWAY CURVE
38	42+06.37	25.67 RT	–	59.52	–	–	–	–	
39	42+16.44	46.06 RT	–	59.45	–	–	–	–	PT PATHWAY CURVE

△ BARBARA DRIVE CURB RADIUS TABLE

TBC RADIUS POINT				
POINT	STATION	OFFSET (FT)	RADIUS (FT)	DESCRIPTION
A1	41+92.20	45.50 RT	30.0	BARBARA DRIVE
A2	42+81.75	45.50 RT	30.0	BARBARA DRIVE

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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: _____ TITLE: _____
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: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

GRAPHIC SCALE 20 10 0 10 20

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273
CONSULTANT

STATE OF ALASKA 49TH — Justin T. Keene CE-11775 — REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

RAISED INTERSECTION LAYOUT PLAN

McRAE ROAD AT BARBARA DRIVE

SCALE HOR. 1"=10' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET R15 of R23

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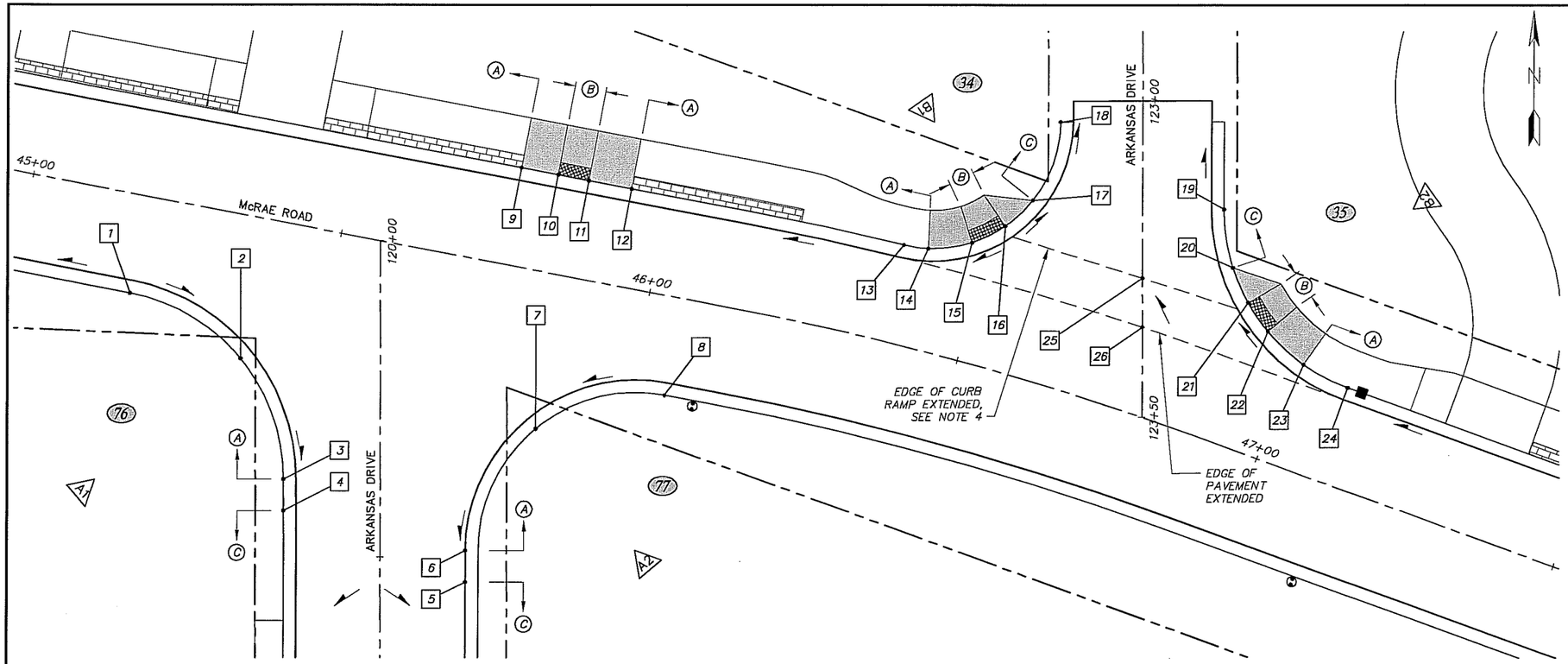

NOTES

1. SEE ROADWAY (R) SHEETS FOR ROADWAY & SIDEWALK LOCATIONS.
2. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS & ELEVATIONS OF SD PIPES & STRUCTURES.
3. SEE SIGNING & STRIPING (S) SHEETS FOR LOCATIONS & TYPES OF SIGNS & TRAFFIC MARKINGS.
4. THE MAXIMUM CROSS-SLOPE BETWEEN EDGE OF PAVEMENT EXTENDED AND EDGE OF CURB RAMP EXTENDED SHALL BE 2%. IF A 2% CROSS-SLOPE CANNOT BE MAINTAINED NOTIFY ENGINEER PRIOR TO INSTALLATION OF AC PAVEMENT.
5. PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
6. SEE DETAIL (D) SHEETS FOR CURB RAMP DETAILS.
7. NOSE OF CURB IS FRONT OF CURB AND GUTTER AT EDGE OF ROADWAY.

LEGEND

- APPROXIMATE DIRECTION OF DRAINAGE FLOWS
- DETECTABLE WARNING PANEL
- PCC CURB RAMP
- DECORATIVE CONCRETE (4" THICK, RED, BRICK PATTERN)

DESIGNATION	CURB TYPE
(A)	TYPE 1 CURB
(B)	TYPE 1A CURB
(C)	TYPE 2 CURB

□ POINT SUMMARY - McRAE ROAD AT ARKANSAS DRIVE

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	NOSE OF CURB ELEV (FT)	TO NEXT POINT ALONG NOSE OF CURB LENGTH (FT)	TO NEXT POINT ALONG NOSE OF CURB SLOPE (%)	DESCRIPTION
1	45+18.75	15.50 RT	69.29	68.89	22.10	−0.54	PC CURB RETURN
2	45+37.86	22.37 RT	69.17	68.77	22.10	−0.54	MIDDLE OF CURB RETURN
3	45+48.21	39.85 RT	69.05	68.65	5.00	−4.00	PT CURB RETURN, END TYPE 1 C&G
4	45+49.15	44.76 RT	68.62	68.45	–	–	BEGIN TYPE 2 C&G
5	45+79.78	50.50 RT	68.16	67.99	5.00	4.00	END TYPE 2 C&G
6	45+78.84	45.59 RT	68.59	68.19	23.76	3.70	PC CURB RETURN, BEGIN TYPE 1 C&G
7	45+86.08	24.58 RT	69.47	69.07	23.76	3.66	MIDDLE OF CURB RETURN
8	46+05.36	15.50 RT	70.34	69.94	–	–	PT CURB RETURN
9	45+76.04	15.50 LT	70.08	69.68	6.00	1.00	BEGIN RAMP
10	45+82.04	15.50 LT	69.72	69.74	5.00	0.80	END RAMP, BEGIN LANDING
11	45+87.04	15.50 LT	69.76	69.78	7.00	0.86	END LANDING, BEGIN RAMP
12	45+94.04	15.50 LT	70.24	69.84	44.12	0.88	END RAMP
13	46+37.35	15.50 LT	70.63	70.23	4.32	1.16	PC CURB RETURN
14	46+41.13	15.90 LT	70.68	70.28	7.76	1.16	BEGIN RAMP
15	46+47.40	18.55 LT	70.35	70.37	6.47	1.24	END RAMP, BEGIN LANDING
16	46+51.62	22.42 LT	70.43	70.45	6.60	−1.36	END LANDING, BEGIN FLARE
17	46+54.56	27.54 LT	70.53	70.36	14.70	−1.36	END FLARE
18	46+55.25	40.64 LT	70.33	70.16	–	–	PT CURB RETURN
19	46+82.08	35.27 LT	70.52	70.35	10.02	1.10	PC CURB RETURN
20	46+86.26	27.04 LT	70.63	70.46	6.40	1.09	BEGIN FLARE
21	46+90.23	22.70 LT	70.51	70.53	5.93	1.69	END FLARE, BEGIN LANDING
22	46+94.76	19.50 LT	70.61	70.63	8.30	1.45	END LANDING, BEGIN RAMP
23	47+01.93	16.53 LT	71.15	70.75	8.42	1.43	END RAMP
24	47+09.73	15.50 LT	71.27	70.87	–	–	PT CURB RETURN

△ ARKANSAS DRIVE CURB RADIUS TABLE

TBC RADIUS POINT				
POINT	STATION	OFFSET (FT)	RADIUS (FT)	DESCRIPTION
A1	45+18.75	45.50 RT	30.0	ARKANAS DRIVE SOUTH
A2	46+05.36	40.50 RT	25.0	ARKANAS DRIVE SOUTH
B1	46+37.35	35.50 LT	22.0	ARKANAS DRIVE NORTH
B2	47+09.73	45.50 LT	30.0	ARKANAS DRIVE NORTH

PRELIMINARY

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   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: _____ TITLE: _____
   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: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

GRAPHIC SCALE 20 10 0 10 20

CONSTRUCTION RECORD

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	CAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR			
INSPECTOR			

VERTICAL DATUM: BASIS OF THIS DATUM CAAB 1972 Adjust

REVISIONS

REV	DATE	DESCRIPTION	BY

CONSULTANT

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273

SEAL

STATE OF ALASKA 49TH — REGISTERED PROFESSIONAL ENGINEER

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

INTERSECTION LAYOUT PLAN

McRAE ROAD AT ARKANSAS DRIVE

SCALE HOR. 1"=10' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET R16 of R23

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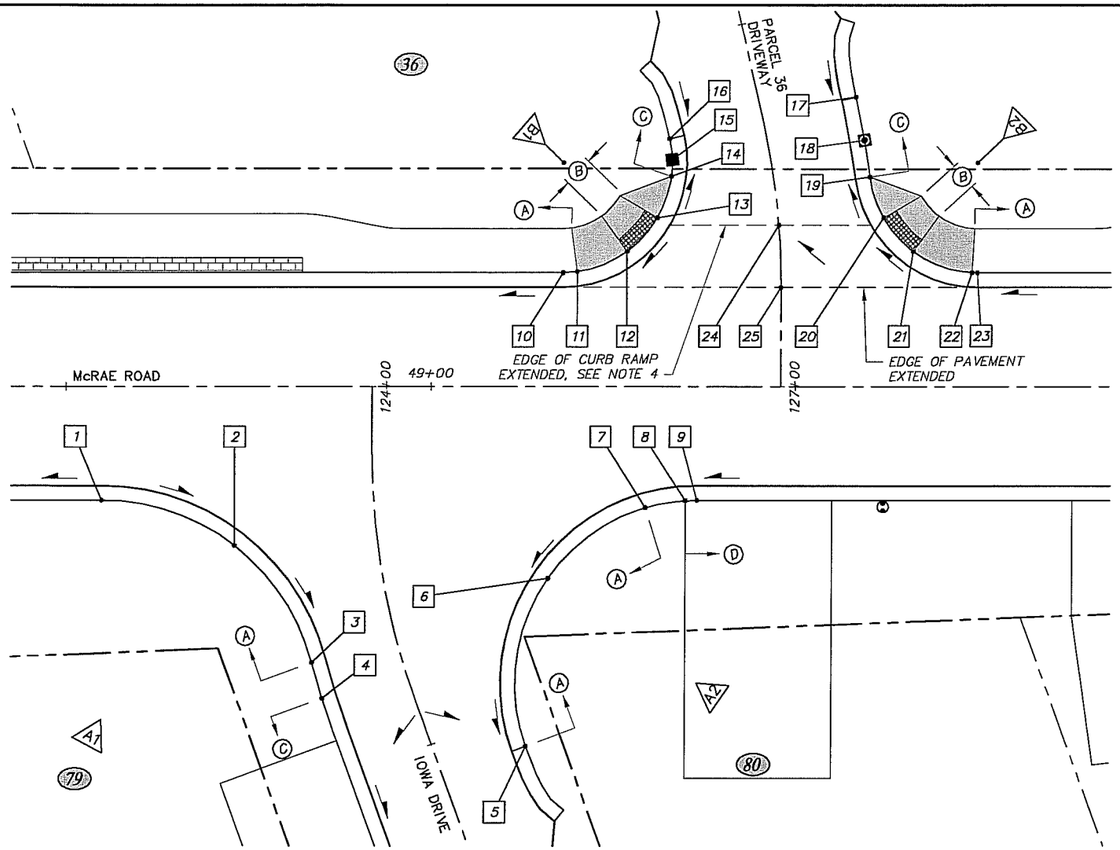

NOTES

1. SEE ROADWAY (R) SHEETS FOR ROADWAY & SIDEWALK LOCATIONS.
2. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS & ELEVATIONS OF SD PIPES & STRUCTURES.
3. SEE SIGNING & STRIPING (S) SHEETS FOR LOCATIONS & TYPES OF SIGNS & TRAFFIC MARKINGS.
4. THE MAXIMUM CROSS-SLOPE BETWEEN EDGE OF PAVEMENT EXTENDED AND EDGE OF CURB RAMP EXTENDED SHALL BE 2%. IF A 2% CROSS-SLOPE CANNOT BE MAINTAINED NOTIFY ENGINEER PRIOR TO INSTALLATION OF AC PAVEMENT.
5. PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
6. SEE DETAIL (D) SHEETS FOR CURB RAMP DETAILS.
7. NOSE OF CURB IS FRONT OF CURB AND GUTTER AT EDGE OF ROADWAY.

LEGEND

- APPROXIMATE DIRECTION OF DRAINAGE FLOWS
- DETECTABLE WARNING PANEL
- PCC CURB RAMP
- DECORATIVE CONCRETE (4" THICK, RED, BRICK PATTERN)

DESIGNATION	CURB TYPE
(A)	TYPE 1 CURB
(B)	TYPE 1A CURB
(C)	TYPE 2 CURB
(D)	TYPE 4 CURB

POINT SUMMARY - McRAE ROAD AT IOWA DRIVE AND PARCEL 36 DRIVEWAY

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	NOSE OF CURB ELEV (FT)	TO NEXT POINT ALONG NOSE OF CURB LENGTH (FT)	TO NEXT POINT ALONG NOSE OF CURB SLOPE (%)	DESCRIPTION
1	48+54.88	15.50 RT	72.55	72.15	20.93	−0.81	PC CURB RETURN
2	48+73.13	21.69 RT	72.38	71.98	20.93	−0.76	MIDDLE OF CURB RETURN
3	48+83.85	37.70 RT	72.22	71.82	5.00	−2.60	PT CURB RETURN, END TYPE 1 C&G
4	48+85.28	42.59 RT	71.86	71.69	–	–	BEGIN TYPE 2 C&G
5	49+13.15	49.14 RT	71.45	71.05	25.97	3.12	PC CURB RETURN, END C&G TERMINATION TRANSITION
6	49+16.11	26.20 RT	72.26	71.86	18.23	3.02	MIDDLE OF CURB RETURN
7	49+29.54	16.52 RT	72.81	72.41	6.00	3.17	END TYPE 1 C&G
8	49+35.00	15.55 RT	72.58	72.60	1.74	2.87	BEGIN TYPE 4 C&G, DRIVEWAY EDGE
9	49+36.61	15.50 RT	72.63	72.65	–	–	PC CURB RETURN
10	49+18.07	15.50 LT	72.95	72.55	2.22	0.90	PC CURB RETURN
11	49+20.02	15.63 LT	72.97	72.57	8.50	0.71	BEGIN RAMP
12	49+26.91	18.38 LT	72.61	72.63	7.08	0.71	END RAMP, BEGIN LANDING
13	49+31.06	23.00 LT	72.66	72.68	6.80	−1.03	END LANDING, BEGIN FLARE
14	49+32.95	28.65 LT	72.78	72.61	2.59	−1.16	END FLARE
15	49+33.06	30.93 LT	72.75	72.58	3.26	1.23	CURB INLET
16	49+32.70	33.79 LT	72.79	72.62	–	–	PT CURB RETURN, BEGIN C&G TERMINATION TRANSITION
17	49+58.07	39.48 LT	72.79	72.62	5.92	−0.68	END C&G TERMINATION TRANSITION
18	49+59.27	33.59 LT	72.75	72.58	5.00	1.00	CURB INLET
19	49+60.05	28.56 LT	72.80	72.63	6.69	0.90	PC CURB RETURN, BEGIN FLARE
20	49+61.93	23.00 LT	72.67	72.69	7.08	0.85	END FLARE, BEGIN LANDING
21	49+66.08	18.38 LT	72.73	72.75	9.92	0.91	END LANDING, BEGIN RAMP
22	49+74.21	15.52 LT	73.24	72.84	0.80	1.25	END RAMP
23	49+74.92	15.50 LT	73.25	72.85	–	–	PT CURB RETURN

△ IOWA DRIVE AND PARCEL 36 DRIVEWAY CURB RADIUS TABLE

TBC RADIUS POINT				
POINT	STATION	OFFSET (FT)	RADIUS (FT)	DESCRIPTION
A1	48+54.88	45.50 RT	30.0	IOWA DRIVE
A2	49+36.61	40.50 RT	25.0	IOWA DRIVE
B1	49+18.07	30.50 LT	15.0	PARCEL 36 DRIVEWAY
B2	49+74.92	30.50 LT	15.0	PARCEL 36 DRIVEWAY

PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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: _____ TITLE: _____
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: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

GRAPHIC SCALE 20 10 0 10 20

CONSTRUCTION RECORD

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
AS-BUILT			
CONTRACTOR			
INSPECTOR			

VERTICAL DATUM: BASIS OF THIS DATUM GAAB 1972 Adjust

REVISIONS

REV	DATE	DESCRIPTION	BY

CRW ENGINEERING GROUP LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273
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STATE OF ALASKA 49TH REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS WISCONSIN STREET TO SPENARD ROAD SCHED A

INTERSECTION LAYOUT PLAN

McRAE ROAD AT IOWA DRIVE & PARCEL 36 DRIVEWAY

SCALE HOR. 1"=10' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET R17 of R23

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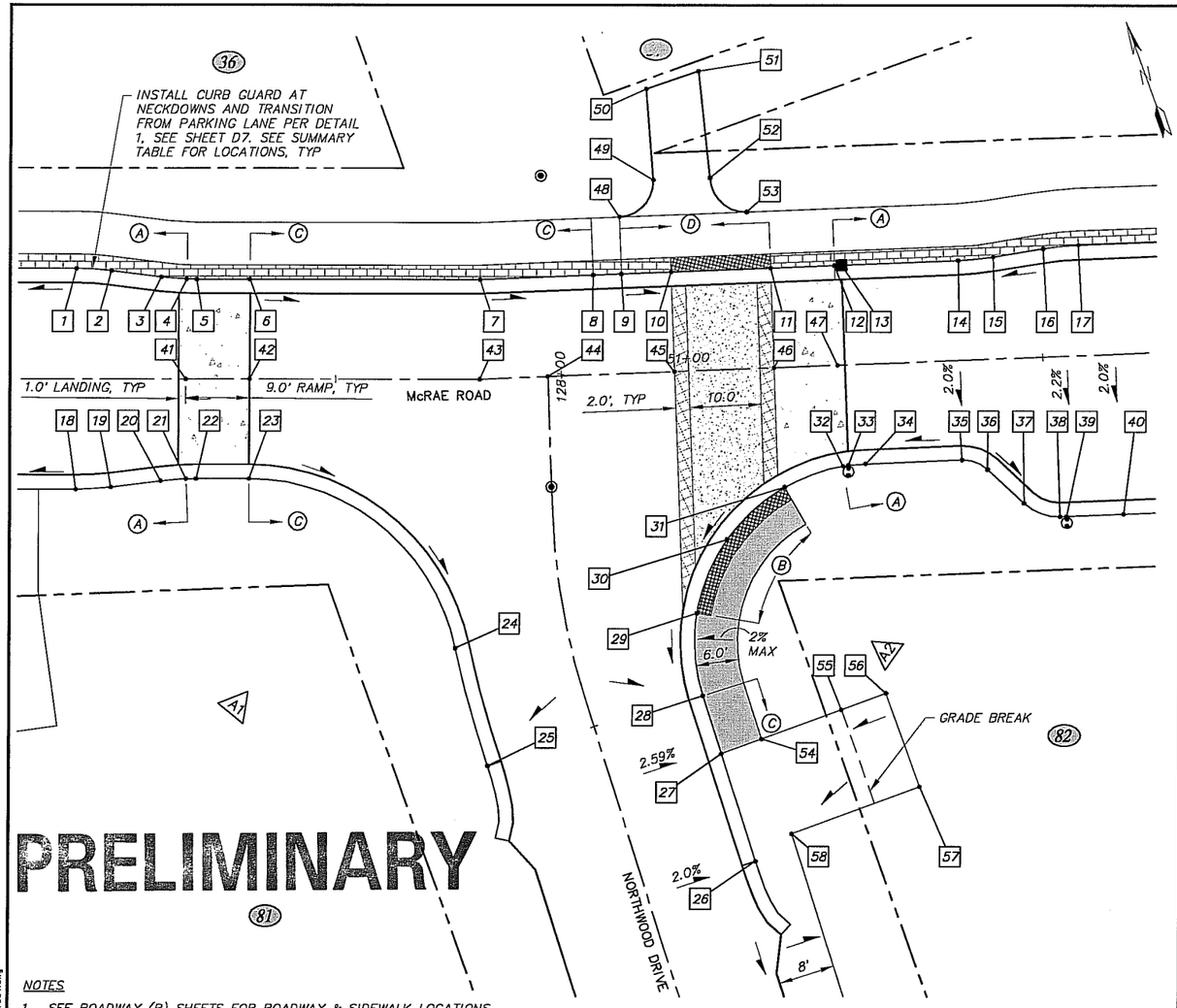

POINT SUMMARY - McRAE ROAD AT NORTHWOOD DRIVE

POINT	STATION	OFFSET (FT)	TOP OF CONCRETE ELEV (FT)	TOP AC ELEV (FT)	TBC ELEV (FT)	NOSE OF CURB ELEV (FT)	TO NEXT POINT ALONG NOSE OF CURB LENGTH (FT)	TO NEXT POINT ALONG NOSE OF CURB SLOPE (%)	DESCRIPTION
1	50+13.25	15.50 LT	–	–	73.45	73.05	4.73	0.63	PC, R=40'
2	50+18.21	15.19 LT	–	–	73.48	73.08	7.11	0.84	PT
3	50+25.27	14.31 LT	–	–	73.54	73.14	3.74	0.53	PC, R=40'
4	50+28.82	14.03 LT	–	–	73.56	73.16	1.49	5.37	BEGIN RAMP, END TYPE 1 C&G
5	50+30.23	14.00 LT	–	–	73.60	73.24	7.52	4.79	PT, TRANSITION CURB
6	50+37.75	14.00 LT	–	–	73.77	73.60	32.64	−0.64	END RAMP, BEGIN TYPE 2 C&G
7	50+70.94	13.99 LT	–	–	73.56	73.39	16.00	−0.69	ANGLE POINT
8	50+86.94	13.99 LT	–	–	73.45	73.28	4.00	−0.50	END TYPE 2 C&G
9	50+90.94	13.99 LT	–	–	73.29	73.26	7.06	−0.71	BEGIN TYPE 2A C&G
10	50+98.00	13.99 LT	–	–	73.24	73.21	13.74	−0.66	EDGE OF CROSSWALK, BEGIN DW
11	51+12.00	14.00 LT	–	–	73.15	73.12	9.26	−4.75	BEGIN RAMP, EDGE OF CROSSWALK, END DW
12	51+21.00	14.00 LT	–	–	73.08	72.68	1.00	0.00	END RAMP, BEGIN TYPE 1 C&G
13	51+22.00	14.00 LT	–	–	73.08	72.68	16.59	0.54	CURB INLET
14	51+38.59	14.00 LT	–	–	73.17	72.77	5.22	0.57	PC, R=40'
15	51+43.55	14.31 LT	–	–	73.20	72.80	7.12	0.56	PT
16	51+50.61	15.19 LT	–	–	73.24	72.84	4.72	0.64	PC, R=40'
17	51+55.57	15.50 LT	–	–	73.27	72.87	–	–	PT
18	50+13.25	15.50 RT	–	–	73.45	73.05	4.73	0.63	PC, R=40'
19	50+18.21	15.19 RT	–	–	73.48	73.08	7.11	0.84	PT
20	50+25.27	14.31 RT	–	–	73.54	73.14	3.74	0.53	PC, R=40'
21	50+28.81	14.03 RT	–	–	73.56	73.16	1.49	5.37	BEGIN RAMP, END TYPE 1 C&G
22	50+30.23	14.00 RT	–	–	73.60	73.24	7.51	4.79	PT, TRANSITION CURB
23	50+37.74	14.00 RT	–	–	73.77	73.60	43.67	−2.77	END RAMP, PC CURB RETURN
24	50+67.11	37.86 RT	–	–	72.56	72.39	16.99	−2.00	PT CURB RETURN
25	50+70.38	54.43 RT	–	–	72.22	72.05	–	–	BEGIN C&G TERMINATION TRANSITION
26	51+07.03	69.30 RT	–	–	71.24	71.07	15.90	3.46	END C&G TERMINATION TRANSITION, BEGIN CROSS–SLOPE CHANGE
27	51+02.73	53.99 RT	–	–	71.79	71.62	8.55	5.03	EDGE OF DRIVEWAY, CROSS–SLOPE CHANGE
28	51+00.41	45.76 RT	–	–	72.22	72.05	12.70	4.17	PC CURB RETURN
29	50+99.96	34.12 RT	–	–	72.56	72.58	12.20	1.97	EDGE OF CROSSWALK, BEGIN DW
30	51+04.55	23.90 RT	–	–	72.80	72.82	11.93	2.01	MIDDLE OF CURB RETURN
31	51+12.92	16.83 RT	–	–	73.04	73.06	9.48	−4.01	BEGIN RAMP, EDGE OF CROSSWALK, END DW
32	51+21.26	14.21 RT	–	–	73.08	72.68	0.84	0.00	END RAMP
33	51+22.03	14.12 RT	–	–	73.08	72.68	2.65	0.38	CURB INLET
34	51+24.48	14.00 RT	–	–	73.09	72.69	13.70	0.36	PT CURB RETURN
35	51+38.18	14.00 RT	–	–	73.14	72.74	5.50	−0.55	PC, R=5', BEGIN CROSS–SLOPE CHANGE
36	51+41.72	15.46 RT	–	–	73.11	72.71	7.05	−0.57	PT
37	51+46.70	20.45 RT	–	–	73.07	72.67	3.93	−0.51	PC, R=7'
38	51+51.65	22.50 RT	–	–	73.05	72.65	0.92	−1.09	PT
39	51+52.57	22.56 RT	–	–	73.04	72.64	8.00	1.62	CURB INLET, CROSS–SLOPE CHANGE
40	51+60.57	22.50 RT	–	–	73.17	72.77	–	–	END CROSS–SLOPE CHANGE
41	50+28.74	CL	73.40	–	–	–	–	–	CL McRAE RD, BEGIN RAMP
42	50+37.74	CL	73.84	–	–	–	–	–	CL McRAE RD, END RAMP
43	50+70.38	CL	–	73.63	–	–	–	–	CL McRAE RD, ANGLE POINT
44	50+80.00	CL	–	73.57	–	–	–	–	SI McRAE RD & NORTHWOOD DRIVE
45	50+98.00	CL	73.45	–	–	–	–	–	CL McRAE RD, EDGE OF CROSSWALK
46	51+12.00	CL	73.36	–	–	–	–	–	CL McRAE RD, BEGIN RAMP, EDGE OF CROSSWALK
47	51+21.00	CL	72.42	–	–	–	–	–	CL McRAE RD, END RAMP
48	50+90.94	22.00 LT	–	73.45	–	–	–	–	PC PATHWAY, R=5'
49	50+95.94	27.00 LT	–	73.32	–	–	–	–	PT
50	50+95.36	39.86 LT	–	73.1±	–	–	–	–	MATCH EXISTING PATHWAY
51	51+02.83	42.07 LT	–	73.2±	–	–	–	–	MATCH EXISTING PATHWAY
52	51+03.94	27.00 LT	–	73.50	–	–	–	–	PC PATHWAY, R=5'
53	51+08.94	22.00 LT	–	73.40	–	–	–	–	PT
54	51+08.44	52.15 RT	71.91	–	–	–	–	–	BACK OF SIDEWALK, END SIDEWALK
55	51+19.86	48.48 RT	–	70.50	–	–	–	–	GRADE BREAK
56	51+26.28	46.41 RT	–	70.7±	–	–	–	–	MATCH EXISTING
57	51+30.57	59.74 RT	–	71.8±	–	–	–	–	MATCH EXISTING
58	51+12.23	65.64 RT	–	70.9±	–	–	–	–	ANGLE POINT, MATCH EXISTING

NOTES

1. SEE ROADWAY (R) SHEETS FOR ROADWAY & SIDEWALK LOCATIONS.
2. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS & ELEVATIONS OF SD PIPES & STRUCTURES.
3. SEE SIGNING & STRIPING (S) SHEETS FOR LOCATIONS & TYPES OF SIGNS & TRAFFIC MARKINGS.
4. THE MAXIMUM CROSS–SLOPE WITHIN THE CROSSWALK SHALL BE 2%. IF A 2% CROSS–SLOPE CANNOT BE MAINTAINED NOTIFY ENGINEER PRIOR TO INSTALLATION OF CONCRETE.
5. CONTRACTOR SHALL AS–BUILT SURVEY CURB RETURNS FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO POURING THE CROSSWALK AND RAMPS. INTERSECTION LAYOUT ELEVATIONS MAY BE ADJUSTED BY ENGINEER BASED UPON AS–BUILT DATA.
6. CONCRETE CROSSWALK & RAMPS FOR RAISED INTERSECTIONS SHALL BE POURED AGAINST FORMS SET TO THE ELEVATION SHOWN IN POINT SUMMARY TABLE, AS REVISED BY ENGINEER (NOTE 5). CONTRACTOR SHALL NOT UTILIZE AC PAVEMENT (NEW OR EXISTING) AS A CONCRETE FORM.
7. PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
8. SEE DETAIL (D) SHEETS FOR RAISED INTERSECTION AND DETECTABLE WARNING DETAILS.
9. NOSE OF CURB IS FRONT OF CURB AND GUTTER AT EDGE OF ROADWAY.
10. DETECTABLE WARNING (DW) PANELS SHALL BE CONTINUOUS AND SEAMLESS, GAPS BETWEEN PANELS ARE UNACCEPTABLE.

LEGEND

- APPROXIMATE DIRECTION OF DRAINAGE FLOWS
- DETECTABLE WARNING PANEL, SEE NOTE 10
- PCC SIDEWALK (4" THICK, STANDARD FINISH)
- DECORATIVE CONCRETE (4" THICK, RED, BRICK PATTERN)
- HIGH–PERFORMANCE CONCRETE (8" THICK, RED)
- HIGH–PERFORMANCE CONCRETE (8" THICK, WHITE)
- HIGH–PERFORMANCE CONCRETE (8" THICK, NATURAL)
- AC PAVEMENT

DESIGNATION	CURB TYPE
(A)	TYPE 1 CURB
(B)	TYPE 1A CURB
(C)	TYPE 2 CURB
(D)	TYPE 2A CURB

△ NORTHWOOD DRIVE CURB RADIUS TABLE

TBC RADIUS POINT				
POINT	STATION	OFFSET (FT)	RADIUS (FT)	DESCRIPTION
A1	50+37.74	44.00 RT	30.0	NORTHWOOD DRIVE
A2	51+24.48	39.00 RT	25.0	NORTHWOOD DRIVE

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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: _____ TITLE: _____
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: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

GRAPHIC SCALE 20 10 0 10 20

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007–01	GAAB77	See MOA Benchmark Book Page D–20	89.89
STAKING			
AS–BUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562–3252
FAX: (907) 561–2273
CONSULTANT

STATE OF ALASKA 49TH
Justin T. Keene
CE–11775
REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03–09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

RAISED INTERSECTION LAYOUT PLAN

McRAE ROAD AT NORTHWOOD DRIVE

SCALE HOR. 1"=10' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET R18 of R23

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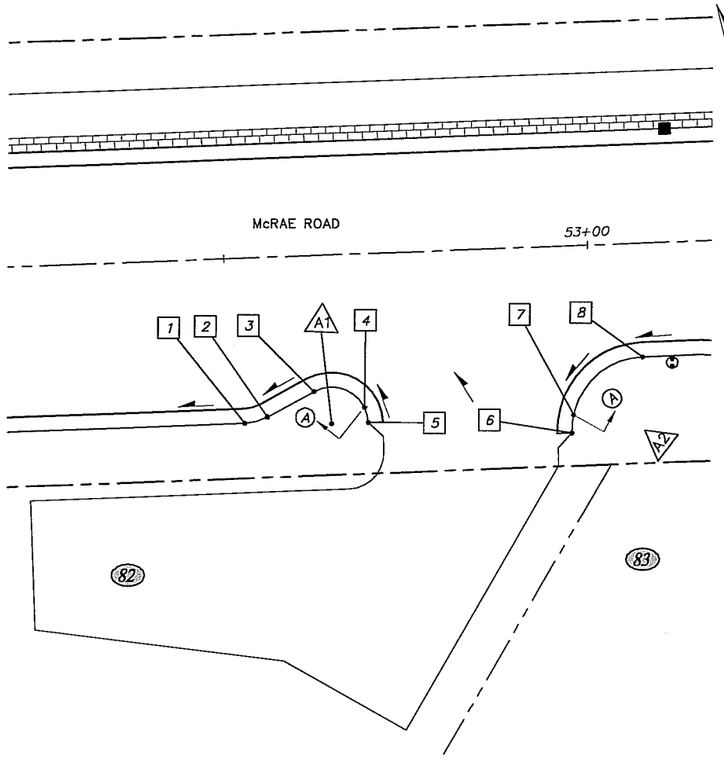


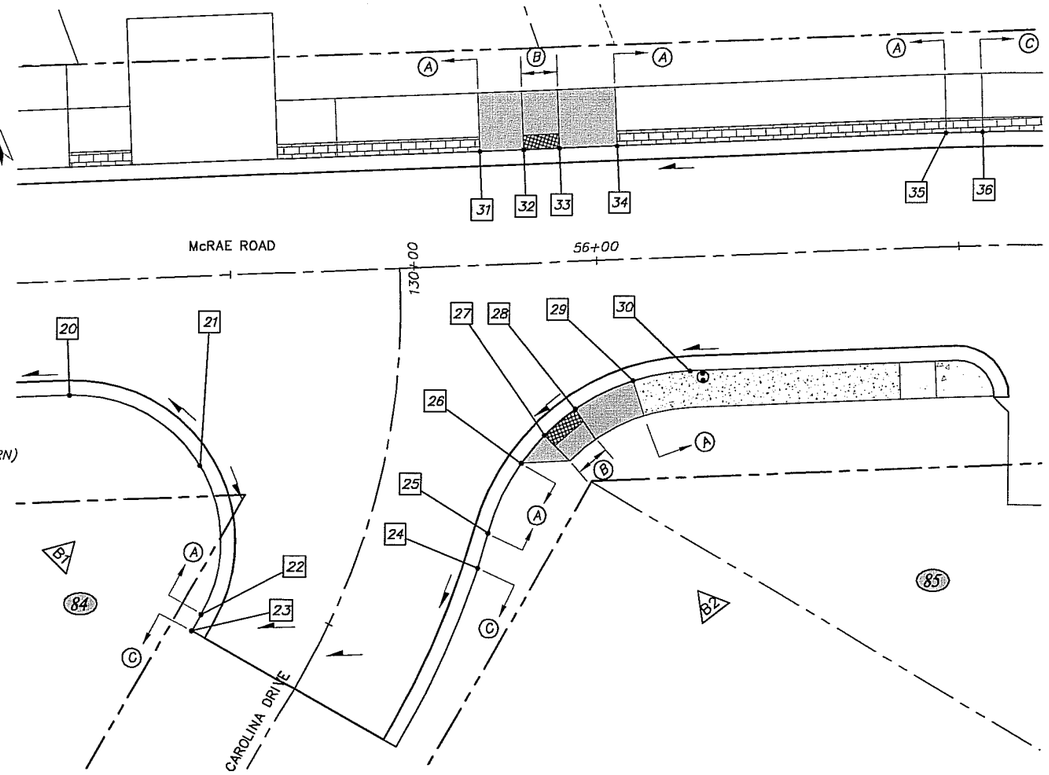
NOTES

1. SEE ROADWAY (R) SHEETS FOR ROADWAY & SIDEWALK LOCATIONS.
2. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS & ELEVATIONS OF SD PIPES & STRUCTURES.
3. SEE SIGNING & STRIPING (S) SHEETS FOR LOCATIONS & TYPES OF SIGNS & TRAFFIC MARKINGS.
4. PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
5. SEE DETAIL (D) SHEETS FOR CURB RAMP DETAILS.
6. NOSE OF CURB IS FRONT OF CURB AND GUTTER AT EDGE OF ROADWAY.

LEGEND

- APPROXIMATE DIRECTION OF DRAINAGE FLOWS
- DETECTABLE WARNING PANEL
- PCC CURB RAMP
- PCC SIDEWALK (4" THICK, STANDARD FINISH)
- PCC SIDEWALK (6" THICK, STANDARD FINISH)
- DECORATIVE CONCRETE (4" THICK, RED, BRICK PATTERN)

DESIGNATION	CURB TYPE
A	TYPE 1 CURB
B	TYPE 1A CURB
C	TYPE 2 CURB



☐ POINT SUMMARY - MCRAE ROAD CURB TRANSITION

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	NOSE OF CURB ELEV (FT)	TO NEXT POINT ALONG NOSE OF CURB LENGTH (FT)	TO NEXT POINT ALONG NOSE OF CURB SLOPE (%)	DESCRIPTION
1	52+52.17	22.50 RT	75.27	74.87	2.32	3.45	PC, R=7'
2	52+55.30	21.76 RT	75.35	74.95	7.23	3.73	PT
3	52+61.76	18.53 RT	75.62	75.22	11.24	6.58	PC CURB RETURN
4	52+68.55	20.92 RT	76.36	75.96	3.00	6.67	END TYPE 1 C&G, BEGIN TAPER
5	52+69.00	23.00 RT	76.16	76.16	–	–	END TAPER, END C&G
6	52+97.00	25.50 RT	76.28	76.28	3.00	8.00	BEGIN TAPER, BEGIN C&G
7	52+97.31	23.03 RT	76.92	76.52	15.85	1.58	BEGIN TYPE 1 C&G, END TAPER
8	53+07.00	15.50 RT	77.17	76.77	–	–	PT CURB RETURN

△ PARCEL 82 CURB RADIUS TABLE

TBC RADIUS POINT				
POINT	STATION	OFFSET (FT)	RADIUS (FT)	DESCRIPTION
A1	52+64.00	23.00 RT	5.00	PARCEL 82
A2	53+07.00	25.50 RT	10.00	PARCEL 82

PRELIMINARY

☐ POINT SUMMARY - MCRAE ROAD AT CAROLINA DRIVE

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	NOSE OF CURB ELEV (FT)	TO NEXT POINT ALONG NOSE OF CURB LENGTH (FT)	TO NEXT POINT ALONG NOSE OF CURB SLOPE (%)	DESCRIPTION
20	55+27.38	15.52 RT	84.08	83.68	23.42	0.98	PT CURB RETURN
21	55+44.88	25.80 RT	84.31	83.91	23.38	−0.56	MIDDLE OF CURB RETURN
22	55+44.31	46.16 RT	84.18	83.78	2.61	−0.77	PC CURB RETURN, END TYPE 1 C&G
23	55+42.96	48.33 RT	83.93	83.76	–	–	BEGIN TYPE 2 C&G, MATCH EXISTING
24	55+82.06	41.27 RT	84.20	84.03	5.00	0.60	END TYPE 2 C&G
25	55+83.66	36.53 RT	84.46	84.06	11.32	2.39	PC CURB RETURN, BEGIN TYPE 1 C&G
26	55+88.55	27.17 RT	84.73	84.33	5.33	2.44	BEGIN FLARE
27	55+91.92	23.49 RT	84.44	84.46	5.93	1.85	END FLARE, BEGIN LANDING
28	55+96.34	20.10 RT	84.55	84.57	9.65	1.87	END LANDING, BEGIN RAMP
29	56+04.45	16.54 RT	85.15	84.75	8.47	1.89	END RAMP
30	56+12.28	15.52 RT	85.31	84.91	–	–	PT CURB RETURN
31	55+84.43	15.50 LT	84.91	84.51	6.00	1.33	BEGIN RAMP
32	55+90.43	15.50 LT	84.57	84.59	5.00	1.40	END RAMP, BEGIN LANDING
33	55+95.43	15.50 LT	84.64	84.66	8.00	1.50	END LANDING, BEGIN RAMP
34	56+03.43	15.50 LT	85.18	84.78	45.32	1.43	END RAMP
35	56+48.66	15.44 LT	85.83	85.43	5.00	1.40	END TYPE 1 C&G
36	56+53.50	15.48 LT	85.67	85.50	–	–	BEGIN TYPE 2 C&G

△ CAROLINA DRIVE CURB RADIUS TABLE

TBC RADIUS POINT				
POINT	STATION	OFFSET (FT)	RADIUS (FT)	DESCRIPTION
B1	55+27.39	35.50 RT	20.00	CAROLINA DRIVE
B2	56+12.30	45.50 RT	30.00	CAROLINA DRIVE

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   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: _____ TITLE: _____
   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: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

GRAPHIC SCALE 20 10 0 10 20

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR			
INSPECTOR			

CONSTRUCTION RECORD

VERTICAL DATUM: BASIS OF THIS DATUM GAAB 1972 Adjust

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
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CONSULTANT

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Justin T. Keene
CE-11775
REGISTERED PROFESSIONAL ENGINEER

SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

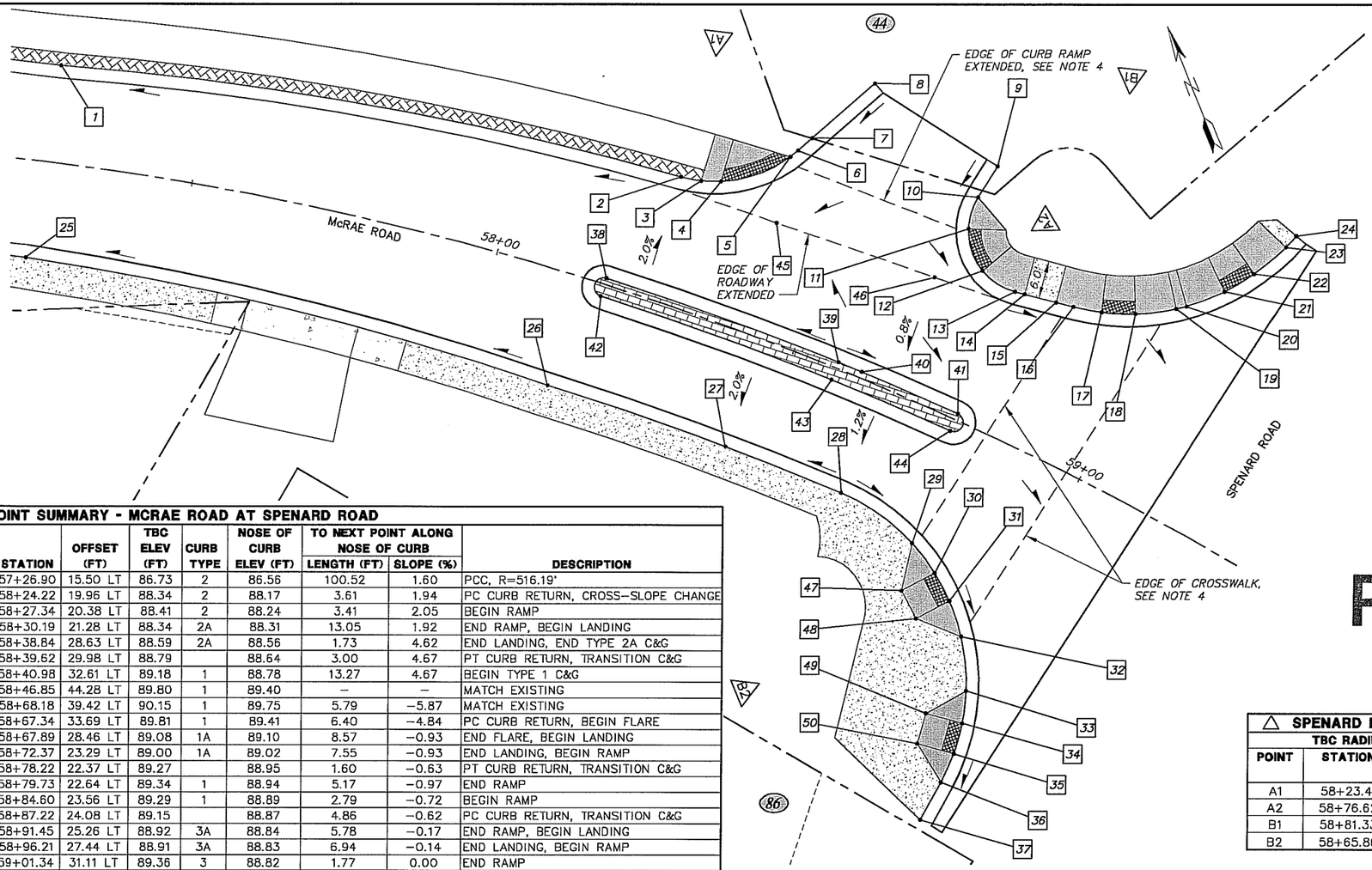
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

INTERSECTION & CURB TRANSITION LAYOUT PLAN

McRAE ROAD AT CAROLINA DRIVE

SCALE HOR. 1"=10' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET R19 of R23

File: J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 INTERSECTION LAYOUT_3.dwg



NOTES

1. SEE ROADWAY (R) SHEETS FOR ROADWAY & SIDEWALK LOCATIONS.
2. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS & ELEVATIONS OF SD PIPES & STRUCTURES.
3. SEE SIGNING & STRIPING (S) SHEETS FOR LOCATIONS & TYPES OF SIGNS & TRAFFIC MARKINGS.
4. THE MAXIMUM CROSS-SLOPE WITHIN CROSSWALK AND BETWEEN EDGE OF PAVEMENT EXTENDED AND CURB RAMP EXTENDED SHALL BE 2%. IF A 2% CROSS-SLOPE CANNOT BE MAINTAINED NOTIFY ENGINEER PRIOR TO INSTALLATION OF AC PAVEMENT.
5. PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
6. SEE DETAIL (D) SHEETS FOR CURB RAMP DETAILS.
7. NOSE OF CURB IS FRONT OF CURB AND GUTTER AT EDGE OF ROADWAY.
8. DETECTABLE WARNING (DW) PANELS SHALL BE CONTINUOUS AND SEAMLESS, GAPS BETWEEN PANELS ARE UNACCEPTABLE.

LEGEND

- APPROXIMATE DIRECTION OF DRAINAGE FLOWS
- DETECTABLE WARNING PANEL
- PCC CURB RAMP
- PCC SIDEWALK (4" THICK, STANDARD FINISH)
- PCC SIDEWALK (6" THICK, STANDARD FINISH)
- DECORATIVE CONCRETE (4" THICK, RED, BRICK PATTERN)
- DECORATIVE CONCRETE (6" THICK, RED, BRICK PATTERN)

PRELIMINARY

☐ **POINT SUMMARY - MCRAE ROAD AT SPENARD ROAD**

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	NOSE OF CURB ELEV (FT)	TO NEXT POINT ALONG NOSE OF CURB LENGTH (FT)	TO NEXT POINT ALONG NOSE OF CURB SLOPE (%)	DESCRIPTION
1	57+26.90	15.50 LT	86.73	2	86.56	100.52	1.60	PCC, R=516.19'
2	58+24.22	19.96 LT	88.34	2	88.17	3.61	1.94	PC CURB RETURN, CROSS-SLOPE CHANGE
3	58+27.34	20.38 LT	88.41	2	88.24	3.41	2.05	BEGIN RAMP
4	58+30.19	21.28 LT	88.34	2A	88.31	13.05	1.92	END RAMP, BEGIN LANDING
5	58+38.84	28.63 LT	88.59	2A	88.56	1.73	4.62	END LANDING, END TYPE 2A C&G
6	58+39.62	29.98 LT	88.79		88.64	3.00	4.67	PT CURB RETURN, TRANSITION C&G
7	58+40.98	32.61 LT	89.18	1	88.78	13.27	4.67	BEGIN TYPE 1 C&G
8	58+46.85	44.28 LT	89.80	1	89.40	–	–	MATCH EXISTING
9	58+68.18	39.42 LT	90.15	1	89.75	5.79	−5.87	MATCH EXISTING
10	58+67.34	33.69 LT	89.81	1	89.41	6.40	−4.84	PC CURB RETURN, BEGIN FLARE
11	58+67.89	28.46 LT	89.08	1A	89.10	8.57	−0.93	END FLARE, BEGIN LANDING
12	58+72.37	23.29 LT	89.00	1A	89.02	7.55	−0.93	END LANDING, BEGIN RAMP
13	58+78.22	22.37 LT	89.27		88.95	1.60	−0.63	PT CURB RETURN, TRANSITION C&G
14	58+79.73	22.64 LT	89.34	1	88.94	5.17	−0.97	END RAMP
15	58+84.60	23.56 LT	89.29	1	88.89	2.79	−0.72	BEGIN RAMP
16	58+87.22	24.08 LT	89.15		88.87	4.86	−0.62	PC CURB RETURN, TRANSITION C&G
17	58+91.45	25.26 LT	88.92	3A	88.84	5.78	−0.17	END RAMP, BEGIN LANDING
18	58+96.21	27.44 LT	88.91	3A	88.83	6.94	−0.14	END LANDING, BEGIN RAMP
19	59+01.34	31.11 LT	89.36	3	88.82	1.77	0.00	END RAMP
20	59+02.55	32.18 LT	89.36	3	88.82	6.94	−0.29	BEGIN RAMP
21	59+06.62	37.09 LT	88.88	3A	88.80	5.78	−0.17	END RAMP, BEGIN LANDING
22	59+09.27	41.74 LT	88.87	3A	88.79	6.94	−0.29	END LANDING, BEGIN RAMP
23	59+11.47	47.84 LT	89.31	3	88.77	2.54	−0.39	END RAMP
24	59+12.00	50.17 LT	89.30	3	88.76	–	–	MATCH EXISTING
25	57+25.00	15.50 RT	86.94	1	86.54	86.00	1.71	PCC, R=467.90'
26	58+14.00	18.00 RT	88.41	1	88.01	30.20	1.46	PCC, R=482'
27	58+45.19	18.00 RT	88.85	1	88.45	20.01	0.75	CROSS-SLOPE CHANGE
28	58+65.86	18.00 RT	89.00	1	88.60	14.88	−0.81	PC CURB RETURN, CROSS-SLOPE CHANGE
29	58+80.06	20.74 RT	88.88	1	88.48	6.36	−0.79	BEGIN FLARE
30	58+85.62	23.52 RT	88.41	1A	88.43	5.31	−0.75	END FLARE, BEGIN RAMP
31	58+89.84	26.53 RT	88.37	1A	88.39	6.36	−0.79	END RAMP, BEGIN FLARE
32	58+94.28	30.79 RT	88.74	1	88.34	9.23	−0.76	END FLARE
33	58+99.24	38.14 RT	88.67	1	88.27	5.49	−0.91	BEGIN FLARE
34	59+01.20	42.98 RT	88.20	1A	88.22	5.31	−0.75	END FLARE, BEGIN RAMP
35	59+02.33	47.88 RT	88.16	1A	88.18	5.31	−0.94	END RAMP, BEGIN FLARE
36	59+02.64	52.87 RT	88.53	1	88.13	6.77	−0.89	END FLARE
37	59+02.48	59.63 RT	88.47	1	88.07	–	–	MATCH EXISTING

△ **SPENARD ROAD AND PARCEL 44 CURB RADIUS TABLE**

TBC RADIUS POINT				
POINT	STATION	OFFSET (FT)	RADIUS (FT)	DESCRIPTION
A1	58+23.41	39.94 LT	20.00	PARCEL 44
A2	58+76.62	32.23 LT	10.00	PARCEL 44
B1	58+81.33	58.50 LT	33.00	SPENARD ROAD
B2	58+65.86	51.00 RT	35.00	SPENARD ROAD

☐ **POINT SUMMARY - MCRAE ROAD AT SPENARD ROAD**

POINT	STATION	OFFSET (FT)	TOP OF CONCRETE ELEV (FT)	TOP AC ELEV (FT)	TBC ELEV (FT)	CURB TYPE	NOSE OF CURB ELEV (FT)	TO NEXT POINT ALONG NOSE OF CURB LENGTH (FT)	TO NEXT POINT ALONG NOSE OF CURB SLOPE (%)	DESCRIPTION
38	58+18.00	1.00 LT	–	–	88.95	6	88.35	39.55	1.16	PC, R=1.5'
39	58+57.31	1.00 LT	–	–	89.41	6	88.81	4.00	0.25	END TYPE 6 C&G
40	58+61.30	1.00 LT	–	–	89.22	5	88.82	16.81	−0.54	BEGIN TYPE 5 C&G
41	58+78.00	1.00 LT	–	–	89.13	5	88.73	–	–	PC, R=1.5'
42	58+18.00	2.00 RT	–	–	88.93	6	88.33	39.00	1.03	PT
43	58+57.31	2.00 RT	–	–	89.33	6	88.73	20.52	−0.34	
44	58+78.00	2.00 RT	–	–	89.26	6	88.66	–	–	PT
45	58+40.34	18.05 LT	–	88.47	–	–	–	–	–	EDGE OF ROADWAY EXTENDED, CROSS-SLOPE CHANGE
46	58+66.08	19.29 LT	–	88.95	–	–	–	–	–	EDGE OF ROADWAY EXTENDED, CROSS-SLOPE CHANGE
47	58+81.79	28.33 RT	88.85	–	–	–	–	–	–	TOP OF RAMP
48	58+86.03	31.34 RT	88.10	–	–	–	–	–	–	TOP OF RAMP
49	58+94.74	44.17 RT	88.64	–	–	–	–	–	–	TOP OF RAMP
50	58+95.79	49.08 RT	88.60	–	–	–	–	–	–	TOP OF RAMP

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   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: _____ TITLE: _____
   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: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	CB	SMB
TOPOGRAPHY	CB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

CONSTRUCTION RECORD

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAR77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR			
INSPECTOR			

VERTICAL DATUM

BASIS OF THIS DATUM GAAR 1972 Adjust

GRAPHIC SCALE 20 10 0 10 20

REVISIONS

REV	DATE	DESCRIPTION	BY

CONSULTANT

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PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

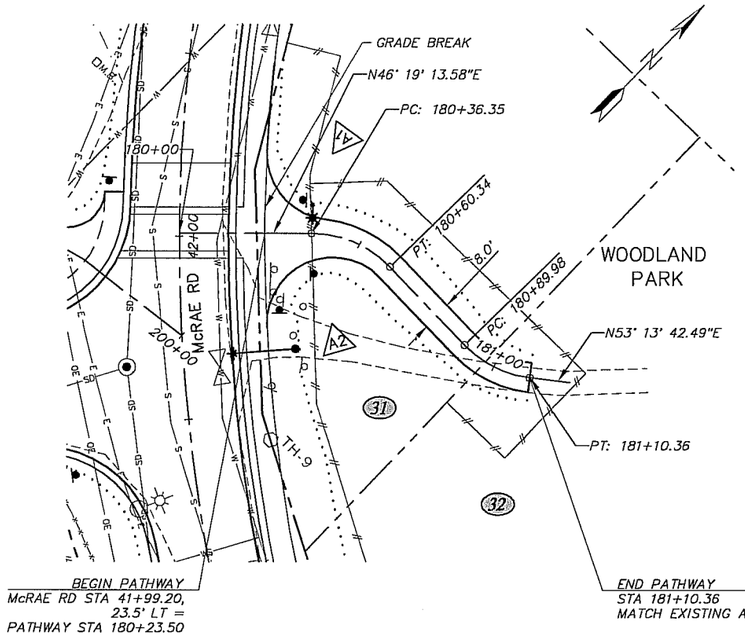
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS WISCONSIN STREET TO SPENARD ROAD SCHED A

INTERSECTION LAYOUT PLAN

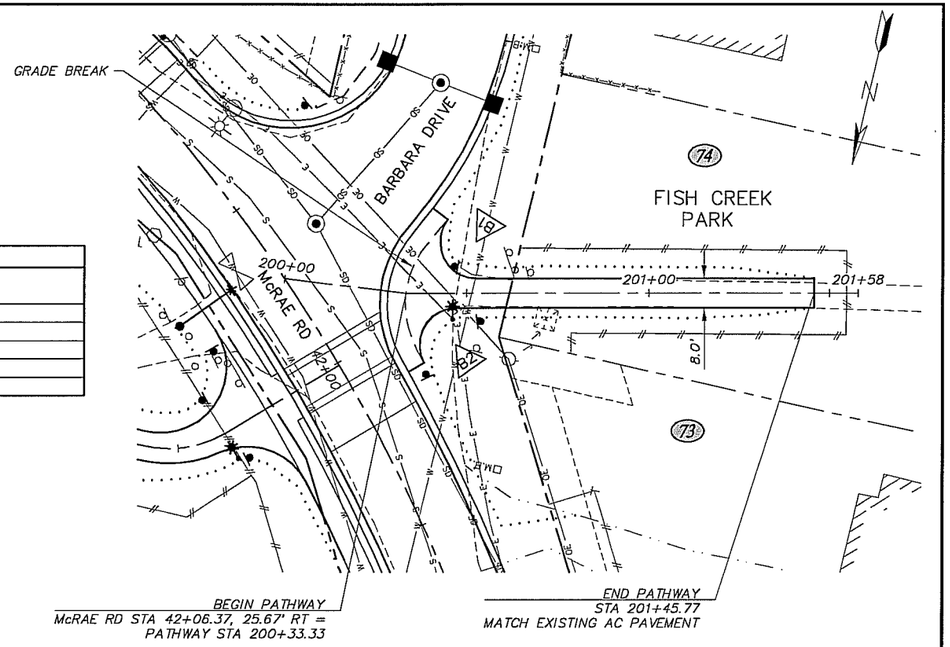
McRAE ROAD AT SPENARD ROAD

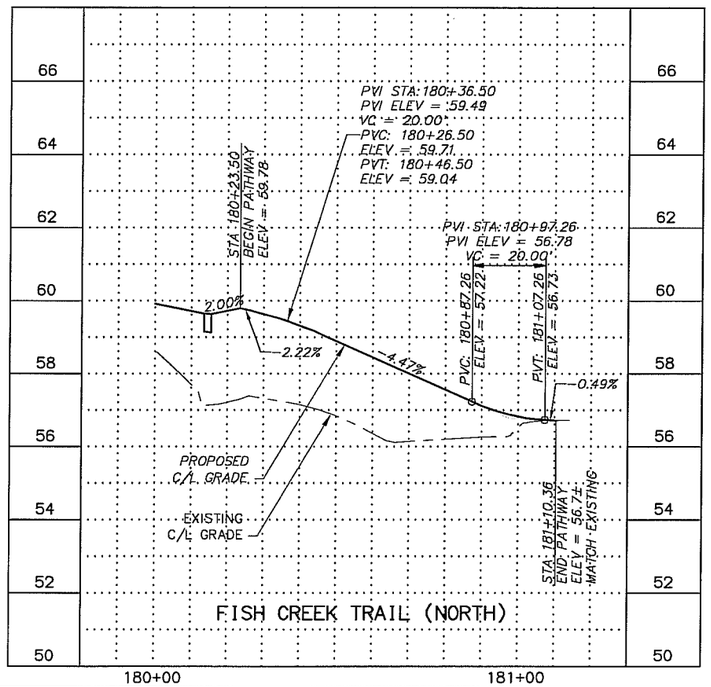
SCALE HOR. 1"=10' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET R20 of R23

File: K:\Jobsdata\10104 35th & McRae\00 CAD\Drawings\01 Working Set\01 Civil\10104 INTERSECTION LAYOUT_3.dwg

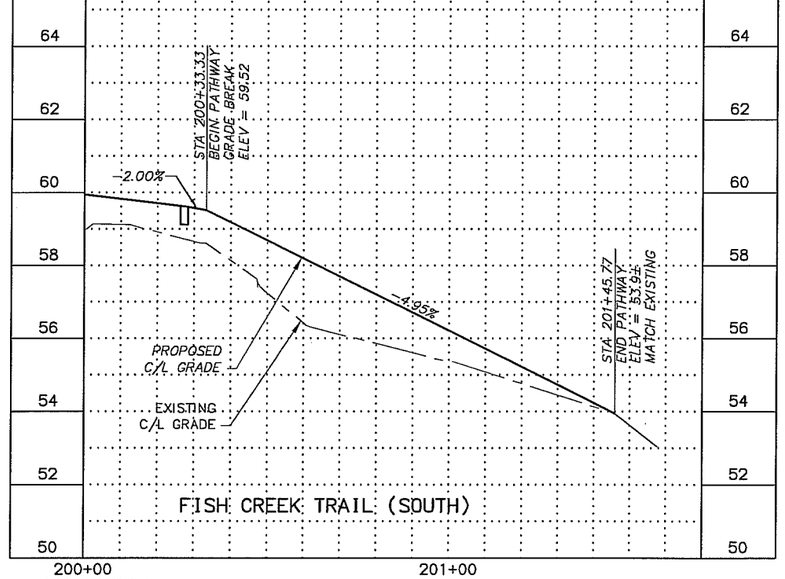


△ CURVE SUMMARY					
POINT	STATION	OFFSET (FT)	LENGTH (FT)	RADIUS (FT)	DESCRIPTION
A1	180+39.64	22.00 LT	27.20	18.00	NORTH TRAIL
A2	180+60.49	22.00 RT	43.69	18.00	NORTH TRAIL
B1	200+47.19	14.00 RT	22.18	10.00	SOUTH TRAIL
B2	200+52.79	14.00 LT	20.85	10.00	SOUTH TRAIL





PRELIMINARY



RECORD DRAWING

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   COMPANY: _____ DATE: _____
   BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

GRAPHIC SCALE 40 20 0 20 40

CONSTRUCTION RECORD

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
AS-BUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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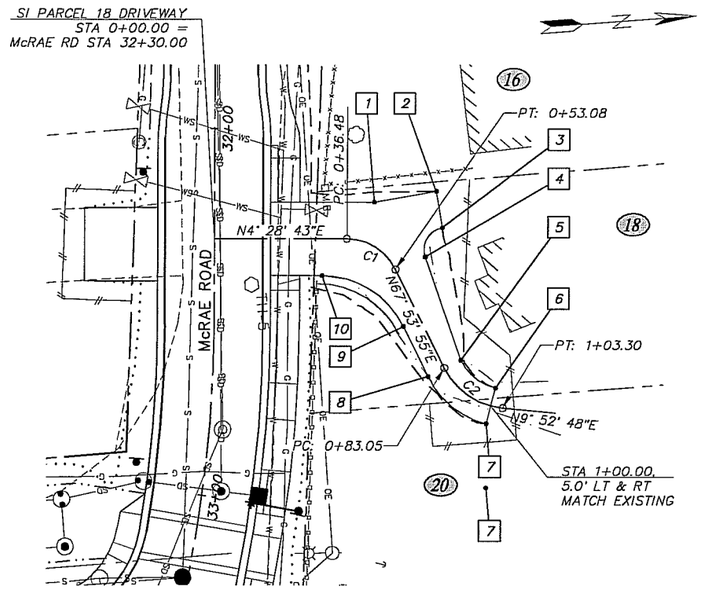
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

TRAIL IMPROVEMENTS

FISH CREEK TRAIL NORTH & SOUTH

SCALE HOR. 1"=20' VER. 1"=2' | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET R21 of R23

File: J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Pathways.dwg



POINT SUMMARY - PARCEL 18

POINT	STATION	OFFSET (FT)	ELEV (FT)	DESCRIPTION
1	0+40.88	11.11 LT	51.7	ANGLE POINT
2	0+47.28	22.13 LT	54.06	MATCH EXISTING
3	0+51.01	16.75 LT	54.18	MATCH EXISTING, PC, R=6'
4	0+53.69	8.76 LT	52.61	PT
5	0+83.26	5.00 LT	53.98	PC, R=14.7'
6	0+99.94	4.98 LT	54.38	MATCH EXISTING, PT
7	1+00.00	5.02 RT	54.37	MATCH EXISTING, PC, R=21.1'
8	0+83.18	5.00 RT	53.78	PT
9	0+67.94	5.00 RT	53.3	PC, R=27.7'
10	0+29.71	10.00 RT	50.3	PT

NOTE: UNLESS OTHERWISE NOTED, ALL POINTS ARE TO TOP OF AC PAVEMENT.

CURVE SUMMARY - PARCEL 18

CURVE NO	PI STATION	DELTA	LENGTH (FT)	RADIUS (FT)	REMARKS
C1	0+45.75	63° 25' 12"	16.60	15.00	
C2	0+94.14	58° 01' 07"	20.25	20.00	

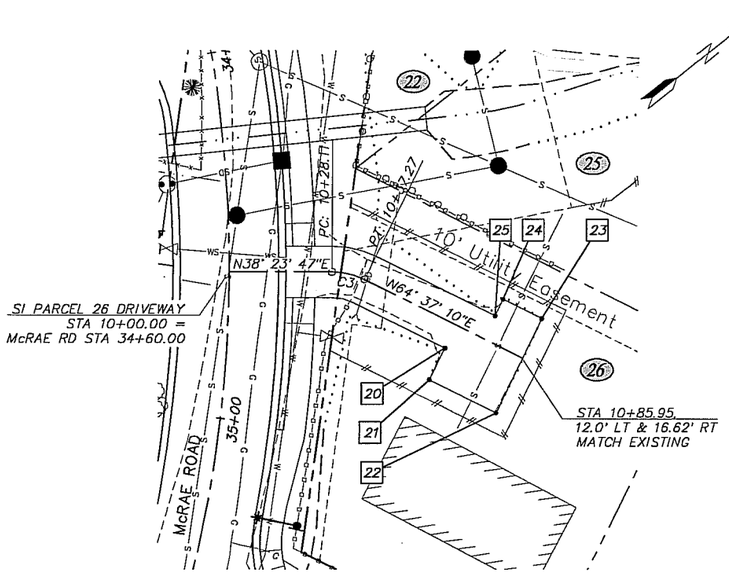
POINT SUMMARY - PARCEL 26

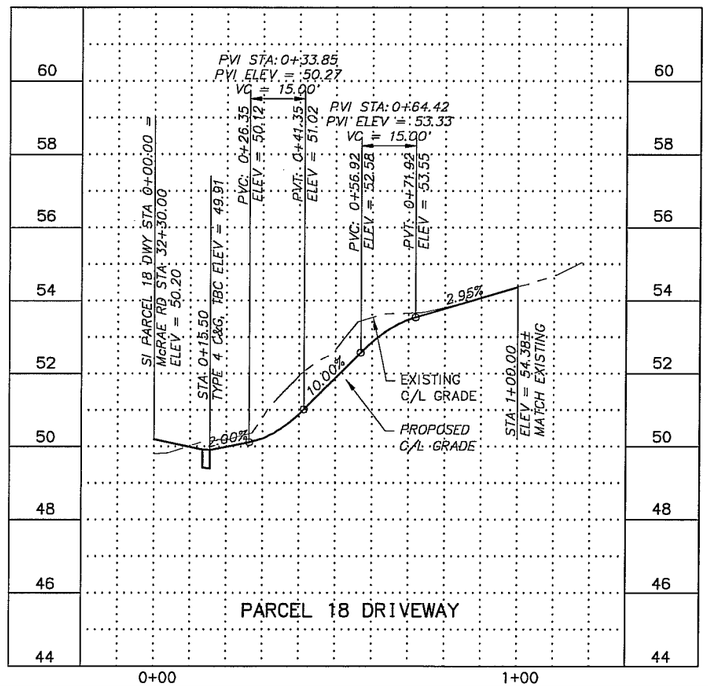
POINT	STATION	OFFSET (FT)	ELEV (FT)	DESCRIPTION
20	10+65.41	7.00 RT	42.81	ANGLE POINT
21	10+65.41	16.62 RT	43.03	ANGLE POINT, MATCH EXISTING
22	10+85.95	16.62 RT	42.66	ANGLE POINT, MATCH EXISTING
23	10+85.95	12.00 LT	42.21	ANGLE POINT, MATCH EXISTING
24	10+73.95	12.00 LT	42.13	ANGLE POINT, MATCH EXISTING
25	10+73.95	7.00 LT	42.21	ANGLE POINT

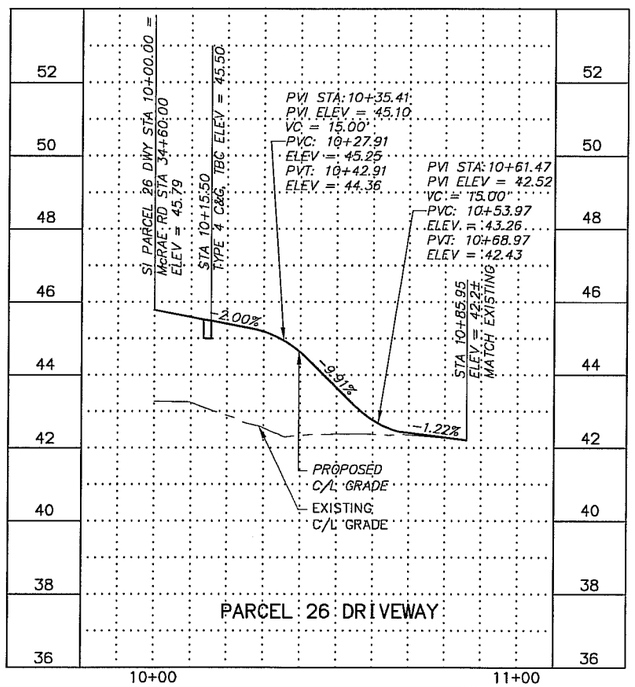
NOTE: UNLESS OTHERWISE NOTED, ALL POINTS ARE TO TOP OF AC PAVEMENT.

CURVE SUMMARY - PARCEL 26

CURVE NO	PI STATION	DELTA	LENGTH (FT)	RADIUS (FT)	REMARKS
C3	10+32.77	26° 13' 24"	9.15	20.00	







PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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PLAN CHECK

DATA	DRAWN BY	CHECKED BY
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TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

CONSTRUCTION RECORD

GRAPHIC SCALE 40 20 0 20 40

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

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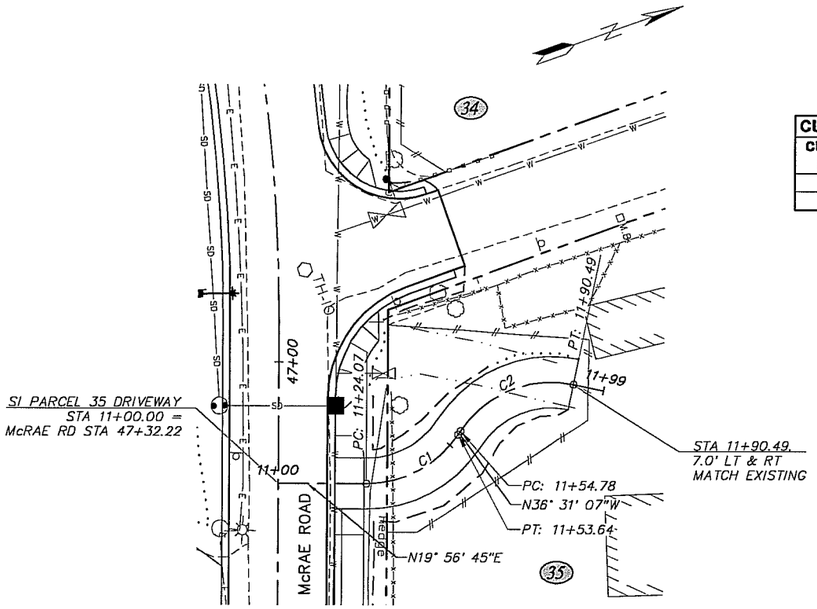
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

SPECIAL DRIVEWAY PLANS

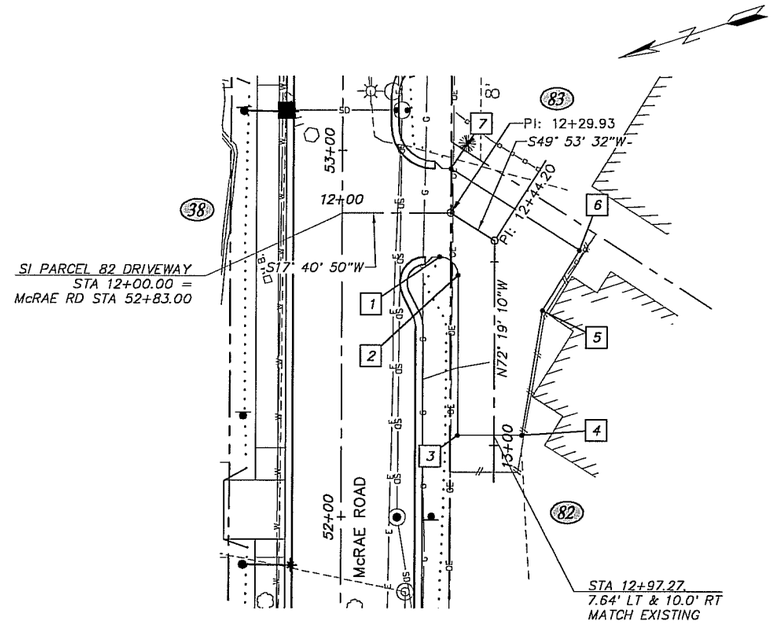
PARCEL 18 AND 26

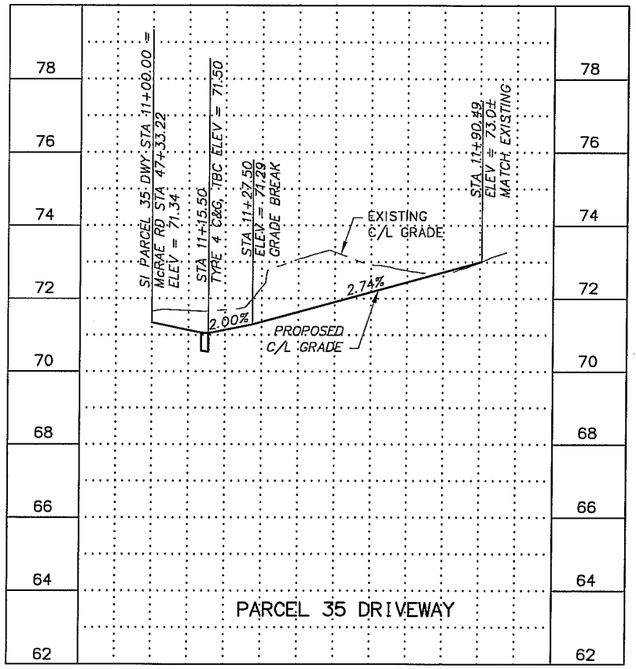
SCALE HOR. 1"=20' VER. 1"=2' | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET R22 of R23

File:J:\Jobs\ste\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Driveways.dwg



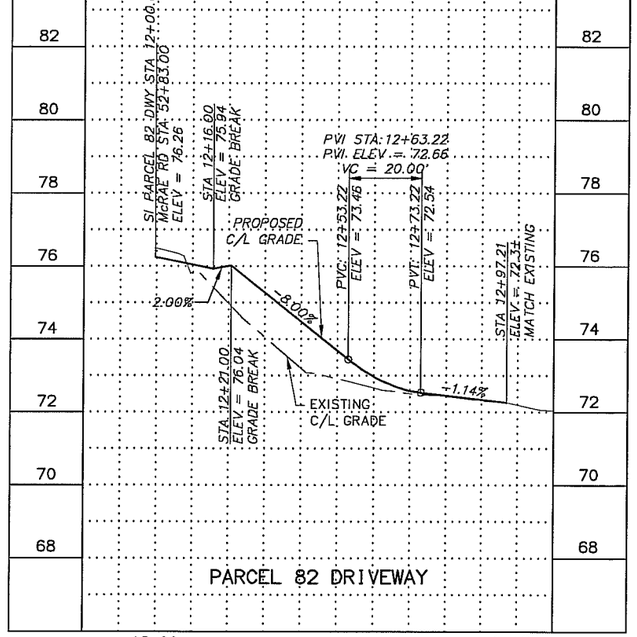
CURVE SUMMARY - PARCEL 35					
CURVE NO	PI STATION	DELTA	LENGTH (FT)	RADIUS (FT)	REMARKS
C1	11+40.18	56° 27' 52"	29.57	30.00	
C2	11+75.09	68° 12' 09"	35.71	30.00	





POINT SUMMARY - PARCEL 82				
POINT	STATION	OFFSET (FT)	ELEV (FT)	DESCRIPTION
1	12+33.85	11.72 RT	75.76	PC, R=5'
2	12+53.59	10.00 RT	74.97	PT
3	12+97.21	10.00 RT	72.38	MATCH EXISTING
4	12+97.21	7.64 LT	72.46	MATCH EXISTING
5	12+63.23	13.12 LT	72.68	ANGLE POINT, MATCH EXISTING
6	12+46.80	23.17 LT	73.63	ANGLE POINT, MATCH EXISTING

NOTE: UNLESS OTHERWISE NOTED, ALL POINTS ARE TO TOP OF AC PAVEMENT.



PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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: _____ TITLE: _____
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: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

GRAPHIC SCALE 40 20 0 20 40

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAA977	See MOA Benchmark Book Page D-20	69.89
WATER/SANITARY SEWER			
GAS		STAKING	
TELEPHONE			
ELECTRIC			
DESIGN		ASBUILT	
CONTRACTOR		BASIS OF THIS DATUM GAAB 1972 Adjust	
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

SPECIAL DRIVEWAY PLANS

PARCEL 35 AND 82

SCALE HOR. 1"=20' VER. 1"=2'
DATE FEB 2012 GRID1627/1727/1728
STATUS 95% DESIGN
SHEET R23 of R23

File:s:\Jobsdata\10104 35th & McRae\00 CAD\Drawings\01 Working Set\01 Civil\10104 Driveways.dwg

20.28

RECONSTRUCT DRIVEWAY

SHEET	PARCEL	CENTER REFERENCE LOCATION STATION	CENTER REFERENCE LOCATION OFFSET	DRIVEWAY WIDTH AT CURB OR EDGE OF PAVEMENT (FT)	DRIVEWAY WIDTH AT ROW (FT)	CURB CUT	CURB RETURN RADII (FT)	SKEW ANGLE (DEGREES)	LANDING LENGTH (FT)	LANDING GRADE	TOTAL DISTANCE (FT)	EXISTING GRADE	PROPOSED GRADE	L1 (FT)	L2 (FT)	CONSTRUCT PER	REMARKS
R1	1	21+04	LT	20.0	17.0		10	90	12.0	1.0%	15.5	1.0%	1.0%	7.0	6.0	DETAIL 1, SHEET D3	
R1	46W	21+08	RT	14.0	14.0	X		−90	12.0	2.0%	32.0	2.9%	7.1%	6.0	6.0	DETAIL 3, SHEET D4	
R1	46E	21+48	RT	14.0	14.0	X		−90	12.0	2.0%	32.0	5.8%	6.9%	6.0	6.0	DETAIL 3, SHEET D4	
R1	47W	21+83	RT	14.0	14.0	X		−90	12.0	2.0%	26.0	4.5%	8.6%	2.5	6.0	DETAIL 3, SHEET D4	
R1	47E	22+20	RT	14.0	14.0	X		−90	8.0	2.0%	26.0	4.6%	8.9%	6.0	6.0	DETAIL 3, SHEET D4	
R1	3W	22+46	LT	24.0	24.0		10	90	8.0	2.0%	39.0	7.0%	8.8%	7.0	6.0	DETAIL 1, SHEET D3	BEGIN MATCH TO EXISTING WIDTH AT ROW
R1	48	22+79	RT	28.0	32.5	X		−90	12.0	2.0%	41.0	2.7%	6.4%	6.0	6.0	DETAIL 3, SHEET D4	
R1	49	23+61	RT	24.0	24.0	X		−90	0.0	N/A	21.4	4.0%	9.1%	6.0	6.0	DETAIL 3, SHEET D4	INSTALL CONCRETE ON PROPERTY
R1	3E	23+65	LT	24.0	24.0		10	90	12.0	2.0%	33.0	4.2%	8.0%	6.0	7.0	DETAIL 1, SHEET D3	BEGIN MATCH TO EXISTING WIDTH AT ROW
R1	50	24+16	RT	28.0	39.0	X		−90	12.0	2.0%	36.0	2.0%	3.6%	6.0	6.0	DETAIL 3, SHEET D4	
R1	4	24+84	LT	28.0	49.5	X		90	12.0	2.0%	29.0	7.7%	10.0%	6.0	7.0	DETAIL 1, SHEET D4	
R1	5	25+72	LT	–	–			–	–	–	–	–	–	–	–	–	SEE SHEET R11
R1	6	26+49	LT	–	–			–	–	–	–	–	–	–	–	–	SEE SHEET R11
R1	7	27+44	LT	20.0	20.0	X		90	8.0	2.0%	38.4	8.6%	9.5%	7.0	5.0	DETAIL 1, SHEET D4	
R1	8	27+78	LT	16.0	16.0	X		90	8.0	2.0%	36.8	5.7%	9.9%	9.0	5.0	DETAIL 1, SHEET D4	
R2	9	28+29	LT	14.0	14.0	X		90	12.0	2.0%	38.3	1.5%	2.6%	9.0	5.0	DETAIL 1, SHEET D4	
R2	55W	28+36	RT	18.0	18.0	X		−90	0.0	N/A	10.0	−2.6%	−4.4%	6.0	6.0	DETAIL 3, SHEET D4	
R2	10	28+74	LT	14.0	14.0	X		90	12.0	2.0%	45.3	1.1%	1.3%	9.0	5.0	DETAIL 1, SHEET D4	
R2	55E	29+13	RT	15.0	15.0	X		−90	0.0	N/A	9.7	−1.1%	3.3%	6.0	0.0	DETAIL 3, SHEET D4	BEGIN MATCH TO EXISTING WIDTH AT ROW, TYPE 4 C&G BETWEEN PARCEL 55E AND PARCEL 56
R2	11	29+28	LT	14.0	14.0	X		90	12.0	2.0%	42.0	2.3%	2.8%	7.0	6.0	DETAIL 1, SHEET D4	
R2	56	29+30	RT	16.0	16.0	X		−90	0.0	N/A	10.0	3.0%	6.8%	0.0	6.0	DETAIL 3, SHEET D4	TYPE 4 C&G BETWEEN PARCEL 55E AND PARCEL 56
R2	12	29+73	LT	14.0	14.0	X		90	12.0	2.0%	41.5	2.1%	4.8%	7.0	5.0	DETAIL 1, SHEET D4	PROVIDE 10 WIDE X 26 LENGTH GRAVEL PAD ON PROPERTY PER THE DIRECTION OF THE ENGINEER
R2	13	30+24	LT	14.0	14.0	X		90	12.0	2.0%	47.1	9.0%	6.5%	9.0	4.0	DETAIL 1, SHEET D4	BEGIN MATCH TO EXISTING WIDTH AT PUE
R2	57	30+34	RT	18.0	18.0	X		−90	0.0	N/A	25.0	−4.0%	−5.4%	6.0	4.0	DETAIL 3, SHEET D4	
R2	58	30+64	RT	24.0	24.0	X		−90	12.0	−1.5%	12.0	−2.0%	N/A	4.0	6.0	DETAIL 3, SHEET D4	
R2	59	31+57	RT	20.0	20.0	X		−90	12.0	2.0%	12.0	−6.0%	2.0%	6.0	6.0	DETAIL 3, SHEET D4	
R2	18	32+30	LT	20.0	20.0	X		90	8.0	2.0%	–	11.2%	–	12.0	4.0	DETAIL 1, SHEET D4	SEE SHEET R22
R2	61	32+32	RT	20.0	20.0	X		−90	12.0	−2.0%	20.0	−2.1%	−4.1%	6.0	6.0	DETAIL 3, SHEET D4	
R2	20	32+84	LT	14.0	N/A	X		90	8.0	N/A	8.0	N/A	2.0%	10.0	0.0	DETAIL 1, SHEET D4	ONLY CURB CUT PROVIDED, TYPE 2 C&G, SEE SHEET R13
R2	22	33+46	LT	14.0	N/A	X		90	8.0	N/A	8.0	N/A	2.0%	0.0	5.0	DETAIL 1, SHEET D4	ONLY CURB CUT PROVIDED, TYPE 2 C&G, SEE SHEET R13
R2	26	34+60	LT	14.0	14.0	X		90	12.0	−2.0%	–	−3.0%	−10.0%	6.0	7.0	DETAIL 1, SHEET D4	SEE SHEET R22
R2	65	35+84	RT	24.0	24.0	X		−90	12.0	2.0%	27.2	−1.6%	4.5%	6.0	6.0	DETAIL 3, SHEET D4	
R3	67	37+12	RT	24.0	24.0	X		−90	12.0	2.0%	20.0	−1.5%	4.8%	6.0	6.0	DETAIL 3, SHEET D4	
R3	68	37+79	RT	31.0	N/A		5	−118	12.0	2.0%	16.0	−2.0%	3.0%	N/A	N/A	DETAIL 2, SHEET D3	
R3	29N	38+37	LT	24.0	24.0	X		90	8.0	2.0%	19.0	0.3%	−1.9%	5.0	8.0	DETAIL 1, SHEET D4	
R3	69	38+58	RT	18.0	18.0	X		−90	12.0	2.0%	25.0	4.8%	6.5%	6.0	6.0	DETAIL 3, SHEET D4	BEGIN MATCH TO EXISTING WIDTH AT ROW, INSTALL CONCRETE ON PROPERTY
R3	29S	38+98	LT	18.0	18.0	X		90	8.0	2.0%	19.0	−1.0%	−4.3%	5.0	8.0	DETAIL 1, SHEET D4	
R3	30	40+25	LT	14.0	14.0	X		90	12.0	2.0%	32.5	3.2%	9.9%	6.0	6.0	DETAIL 1, SHEET D4	BEGIN MATCH TO EXISTING WIDTH AT ROW
R3	72N	40+26	RT	14.0	14.0	X		−90	5.0	2.0%	14.5	1.3%	4.4%	6.0	6.0	DETAIL 3, SHEET D4	
R3	72S	40+85	RT	20.0	20.0	X		−90	12.0	−2.0%	14.6	−5.3%	−3.0%	6.0	6.0	DETAIL 3, SHEET D4	
R3	73	41+28	RT	17.0	17.0	X		−90	5.0	−2.0%	23.5	−6.9%	−5.5%	6.0	6.0	DETAIL 3, SHEET D4	
R3	75	43+49	RT	20.0	20.0	X		−90	12.0	2.0%	31.0	4.0%	8.6%	6.0	6.0	DETAIL 3, SHEET D4	
R4	ALLEY	43+99	RT	20.0	N/A		5	−90	0.0	N/A	16.0	−1.0%	5.3%	N/A	N/A	DETAIL 2, SHEET D3	
R4	33W	44+86	LT	14.0	14.0	X		90	8.0	2.0%	28.0	−4.8%	−8.6%	5.0	8.0	DETAIL 1, SHEET D4	
R4	33E	45+37	LT	14.0	14.0	X		90	8.0	2.0%	26.0	−8.0%	−7.0%	5.0	7.0	DETAIL 1, SHEET D4	
R4	35W	47+33	LT	14.0	14.0	X		90	12.0	2.0%	–	N/A	–	6.0	7.0	DETAIL 1, SHEET D4	SEE SHEET R23
R4	78	47+70	RT	28.0	63.0	X		−90	12.0	−2.0%	26.3	−3.9%	−3.9%	6.0	6.0	DETAIL 3, SHEET D4	
R4	35E	48+02	LT	20.0	20.0	X		90	8.0	2.0%	20.5	6.4%	9.8%	6.0	7.0	DETAIL 1, SHEET D4	
R4	80	49+45	RT	20.0	20.0	X		−90	12.0	2.0%	38.0	−2.9%	−1.9%	6.0	6.0	DETAIL 3, SHEET D4	
R4	81	49+98	RT	20.0	63.0	X		−90	12.0	2.0%	34.9	1.2%	1.2%	6.0	6.0	DETAIL 3, SHEET D4	INSTALL CONCRETE ON PROPERTY
R4	38W	52+02	LT	16.0	16.0	X		90	12.0	2.0%	16.5	−1.6%	5.1%	5.0	9.0	DETAIL 1, SHEET D4	

RECONSTRUCT DRIVEWAY NOTES:

1. *SEE DETAIL (D) SHEETS FOR RECONSTRUCT DRIVEWAY DETAILS.*
2. *"TOTAL DISTANCE" IS THE LIMIT OF RECONSTRUCTION BEGINNING AT THE BACK OF CURB & GUTTER OR BACK OF CURB & GUTTER EXTENDED.*
3. *"SKEW ANGLE" ("+" IS CLOCKWISE AND "−" IS COUNTER CLOCKWISE) IS MEASURED FROM PROJECT CENTERLINE WITH 0 DEGREES ALIGNED ALONG INCREASING STATIONS.*
4. *"PROPOSED GRADE" IS APPROXIMATE GRADE FROM THE END OF THE LANDING TO THE LIMIT OF RECONSTRUCTION. ACTUAL CONSTRUCTION GRADE MAY VARY (10% MAXIMUM).*

PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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: _____ TITLE: _____
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: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

ROADWAY SUMMARY TABLES

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET T1 of T4

File:J:\Jobdata\T0104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\T0104 ROADWAY SUMMARY TABLES.dwg

20.28

RECONSTRUCT DRIVEWAY

SHEET	PARCEL	CENTER REFERENCE LOCATION STATION	CENTER REFERENCE LOCATION OFFSET	DRIVEWAY WIDTH AT CURB OR EDGE OF PAVEMENT (FT)	DRIVEWAY WIDTH AT ROW (FT)	CURB CUT	CURB RETURN RADII (FT)	SKEW ANGLE (DEGREES)	LANDING LENGTH (FT)	LANDING GRADE	TOTAL DISTANCE (FT)	EXISTING GRADE	PROPOSED GRADE	L1 (FT)	L2 (FT)	CONSTRUCT PER	REMARKS
R5	82	52+83	RT	24.0	24.0		5 & 10	−90	–	–	–	–	–	N/A	N/A	DETAIL 2, SHEET D3	SEE SHEET R23
R5	38E	53+30	LT	16.0	16.0	X		90	12.0	2.0%	19.0	2.0%	5.7%	4.0	0.0	DETAIL 1, SHEET D4	NO CURB TRANSITION BETWEEN PARCELS 38E AND 39W
R5	83	53+44	RT	34.0	34.0		10	−90	5.0	2.0%	14.5	2.7%	5.8%	N/A	N/A	DETAIL 2, SHEET D3	
R5	39W	53+57	LT	16.0	16.0	X		90	8.0	2.0%	20.0	9.0%	10.0%	0.0	11.0	DETAIL 1, SHEET D4	NO CURB TRANSITION BETWEEN PARCELS 38E AND 39W
R5	39E	54+35	LT	16.0	16.0	X		90	12.0	2.0%	16.0	3.4%	5.6%	4.0	11.0	DETAIL 1, SHEET D4	
R5	84	54+62	RT	14.0	N/A	X		−90	12.0	1.4%	14.0	1.7%	1.4%	6.0	6.0	DETAIL 3, SHEET D4	
R5	40	55+19	LT	18.0	N/A	X		90	12.0	0.8%	14.0	1.8%	0.8%	5.0	0.0	DETAIL 1, SHEET D4	NO CURB TRANSITION BETWEEN PARCELS 40 AND 41
R5	41	55+47	LT	20.0	20.0	X		90	12.0	2.0%	20.0	9.4%	8.8%	0.0	8.0	DETAIL 1, SHEET D4	NO CURB TRANSITION BETWEEN PARCELS 40 AND 41
R5	85	56+69	RT	24.0	24.0		5	−90	12.0	2.0%	20.0	−2.0%	−2.3%	5.0	8.0	DETAIL 1, SHEET D3	
R5	ALLEY	57+71	RT	15.0	N/A	X		−90	12.0	1.5%	19.0	−5.0%	0.9%	5.0	8.0	DETAIL 2, SHEET D4	BEGIN MATCH TO EXISTING WIDTH AT BACK OF SIDEWALK
R6	53	100+60	RT	17.0	17.0			−90	12.0	2.0%	30.0	1.3%	3.3%	N/A	N/A	DETAIL 2, SHEET D4	VINTAGE CIRCLE
R6	54	100+60	LT	17.0	17.0			90	12.0	2.0%	30.0	3.9%	6.7%	N/A	N/A	DETAIL 2, SHEET D4	VINTAGE CIRCLE
R6	16	103+47	LT	34.0	30.0			90	5.0	2.0%	5.0	−0.3%	2.0%	N/A	N/A	DETAIL 3, SHEET D4	TURNAGAIN STREET
R6	14	103+75	RT	20.0	20.0			−90	12.0	2.0%	18.6	9.6%	2.4%	N/A	N/A	DETAIL 3, SHEET D4	TURNAGAIN STREET
R7	87	112+42	LT	18.9	18.9			90	0.0	N/A	15.5	5.0%	5.1%	N/A	N/A	DETAIL 3, SHEET D4	ABBEY LANE
R7	28	112+66	LT	27.0	27.0			90	0.0	N/A	17.5	4.3%	4.8%	N/A	N/A	DETAIL 3, SHEET D4	ABBEY LANE
R7	70	115+77	RT	18.5	18.5			−90	12.0	−1.8%	12.0	−1.2%	N/A	N/A	N/A	DETAIL 3, SHEET D4	FORREST ROAD
R8	76	120+66	RT	14.0	14.0			−90	4.5	0.7%	4.5	0.7%	N/A	N/A	N/A	DETAIL 3, SHEET D4	ARKANSAS DRIVE
R8	79	124+53	RT	16.0	16.0			−90	12.0	1.0%	19.0	4.7%	1.4%	N/A	N/A	DETAIL 3, SHEET D4	IOWA DRIVE
R9	82	128+66	LT	14.0	14.0			90	0.0	N/A	25.0	−0.8%	–	N/A	N/A	DETAIL 3, SHEET D4	NORTHWOOD DRIVE, SEE SHEET R18

RECONSTRUCT DRIVEWAY NOTES:

1. *SEE DETAIL (D) SHEETS FOR RECONSTRUCT DRIVEWAY DETAILS.*
2. *"TOTAL DISTANCE" IS THE LIMIT OF RECONSTRUCTION BEGINNING AT THE BACK OF CURB & GUTTER OR BACK OF CURB & GUTTER EXTENDED.*
3. *"SKEW ANGLE" ("+" IS CLOCKWISE AND "−" IS COUNTER CLOCKWISE) IS MEASURED FROM PROJECT CENTERLINE WITH 0 DEGREES ALIGNED ALONG INCREASING STATIONS.*
4. *"PROPOSED GRADE" IS APPROXIMATE GRADE FROM THE END OF THE LANDING TO THE LIMIT OF RECONSTRUCTION. ACTUAL CONSTRUCTION GRADE MAY VARY (10% MAXIMUM).*

PRELIMINARY

30.02

P.C.C. CURB & GUTTER (ALL TYPES)

SHEET	STATION TO STATION	OFFSET	LENGTH (FT)	REMARKS
R1	BOP TO 28+00	RT	862	INCLUDES SIDE STREETS
R1	BOP TO 28+00	LT	830	INCLUDES SIDE STREETS
R2	28+00 TO 36+00	RT	807	INCLUDES SIDE STREETS
R2	28+00 TO 36+00	LT	891	INCLUDES SIDE STREETS
R3	36+00 TO 43+50	RT	850	INCLUDES SIDE STREETS
R3	36+00 TO 43+50	LT	786	INCLUDES SIDE STREETS
R4	43+50 TO 52+50	RT	1071	INCLUDES SIDE STREETS
R4	43+50 TO 52+50	LT	934	INCLUDES SIDE STREETS
R5	52+50 TO EOP	RT	762	INCLUDES SIDE STREETS
R5	52+50 TO EOP	LT	690	INCLUDES SIDE STREETS

PCC CURB & GUTTER (ALL TYPES) NOTES:

1. *SEE INTERSECTION LAYOUT SHEETS R10–R20 FOR LOCATIONS AND TYPES OF CURB AND GUTTER.*
2. *SEE 20.28 RECONSTRUCT DRIVEWAY TABLE FOR LOCATIONS OF DRIVEWAY CURB CUTS AND CURB RETURNS.*

30.02

CURB NOSE

SHEET	STATION	OFFSET	RADIUS (FT)	REMARKS
R1	20+50.10	4.50 LT	1.00	
R1	20+84.10	4.50 LT	1.00	
R5	58+18.00	0.50 RT	1.50	
R5	58+78.00	0.50 RT	1.50	

CURB NOSE NOTES:

1. *SEE DETAIL 2, SHEET D5 FOR CURB NOSE DETAIL.*

30.02

P.C.C. CURB AND GUTTER (TYPE 1, STEEL CURB FACING)

SHEET	BEGIN STATION	OFFSET (FT)	END STATION	OFFSET (FT)	LENGTH (FT)	REMARKS
R1	21+61.12	15.50 RT	21+73.09	22.50 RT	14.4	PARKING LANE TRANSITION
R1	25+13.50	22.50 RT	25+35.34	15.50 RT	23.4	PARKING LANE TRANSITION
R1	25+80.51	15.50 RT	26+07.49	14.00 RT	27.1	NECKDOWN
R2	31+80.37	14.00 RT	32+07.49	15.50 RT	27.2	NECKDOWN
R2	31+80.39	14.00 LT	32+07.49	15.50 LT	27.2	NECKDOWN
R4	50+08.25	15.50 LT	50+28.82	14.03 LT	20.6	NECKDOWN
R4	50+13.25	15.50 RT	50+28.81	14.03 RT	15.6	NECKDOWN
R4	51+33.18	14.00 RT	51+51.65	22.50 RT	21.5	PARKING LANE TRANSITION
R4	51+33.59	14.00 LT	51+60.57	15.50 LT	27.1	NECKDOWN
R4	52+47.17	22.50 RT	52+50.00	22.50 RT	2.8	PARKING LANE TRANSITION
R5	52+50.00	22.50 RT	52+68.55	20.92 RT	20.7	PARKING LANE TRANSITION CONTINUED

PCC CURB & GUTTER (TYPE 1, STEEL CURB FACING) NOTES:

1. *SEE DETAIL 1, SHEET D7 FOR STEEL CURB FACING DETAIL.*

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
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   CONTRACTOR: _____
   BY: _____ TITLE: _____ DATE: _____
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PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

CONSTRUCTION RECORD

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books B5 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

VERTICAL DATUM

REVISIONS

REV	DATE	DESCRIPTION	BY

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3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
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Justin T. Keene
CE-11775
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SEAL

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PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

ROADWAY SUMMARY TABLES

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET T2 of T4

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30.02
P.C.C. SIDEWALK

SHEET	APPX STATION TO STATION	APPX OFFSET	4" THICK, AREA (SY)	6" THICK, AREA (SY)	REMARKS
R1	20+22 TO 20+22	47.4 RT TO 45.4 RT	1		WISCONSIN STREET
R1	20+22 TO 20+22	56.9 LT TO 51.9 LT	3		WISCONSIN STREET
R1	26+38 TO 26+58	14.0 RT TO 68.2 RT	34		VINTAGE CIRCLE
R1	26+88 TO 27+04	68.2 RT TO 14.4 RT	32		VINTAGE CIRCLE
R2	33+23 TO 33+47	16.9 RT TO 48.5 RT	25		TURNAGAIN BLVD EAST
R4	51+03 TO 51+13	54.0 RT TO 16.8 RT	26		NORTHWOOD DRIVE
R5	56+04 TO 56+41	16.5 RT TO 15.5 RT	20		
R5	56+41 TO 56+54	15.5 RT TO 20.5 RT		7	
R5	56+84 TO 57+00	20.5 RT TO 15.5 RT		8	
R5	57+00 TO 57+57	15.5 RT TO 16.3 RT	31		
R5	57+57 TO 57+89	16.3 RT TO 17.3 RT		17	
R5	57+89 TO 59+02	22.3 RT TO 59.6 RT	106		
R5	58+80 TO 58+85	22.6 LT TO 23.6 LT	3		

30.04
P.C.C. CURB RAMP & DETECTABLE WARNINGS

SHEET	APPX STATION	OFFSET	CURB RAMP AREA (SY)	DETECTABLE WARNING AREA (SF)	CURB RAMP TYPE	REMARKS
R1	20+31	RT	22	21	DUAL PARALLEL	WISCONSIN STREET
R1	20+31	LT	28	21	DUAL PARALLEL	WISCONSIN STREET
R1	26+50	RT	0	46	N/A	VINTAGE CIRCLE, RAISED INTERSECTION
R1	26+96	RT	0	38	N/A	VINTAGE CIRCLE, RAISED INTERSECTION
R1	26+97	LT	0	28	N/A	VINTAGE CIRCLE, RAISED INTERSECTION
R2	31+08	LT	14	11	PARALLEL	TURNAGAIN STREET
R2	31+58	LT	8	11	PARALLEL	TURNAGAIN STREET
R2	33+13	LT	16	20	PARALLEL	TURNAGAIN BLVD EAST
R2	33+13	RT	11	19	PARALLEL	TURNAGAIN BLVD EAST
R2	35+41	LT	9	11	PARALLEL	KONA LANE
R2	38+55	LT	13	11	PARALLEL	KONA LANE
R3	36+24	LT	8	11	PARALLEL	ABBEY LANE
R3	36+70	LT	11	11	PARALLEL	ABBEY LANE
R3	39+40	LT	16	10	PARALLEL	
R4	41+99	LT	0	28	N/A	BARBARA DRIVE, RAISED INTERSECTION
R4	41+99	RT	0	26	N/A	BARBARA DRIVE, RAISED INTERSECTION
R5	45+85	LT	16	10	PARALLEL	
R5	46+50	LT	9	11	PARALLEL	ARKANSAS DRIVE NORTH
R5	46+92	LT	10	11	PARALLEL	ARKANSAS DRIVE NORTH
R5	49+29	LT	9	12	PARALLEL	PARCEL 36 DRIVEWAY
R5	49+63	LT	10	12	PARALLEL	PARCEL 36 DRIVEWAY
R5	51+04	RT	0	43	N/A	NORTHWOOD DRIVE, RAISED INTERSECTION
R5	51+05	LT	0	28	N/A	NORTHWOOD DRIVE, RAISED INTERSECTION
R6	58+94	LT	17	10	PARALLEL	
R6	58+94	RT	9	11	PARALLEL	CAROLINA DRIVE
R6	58+34	LT	7	20	UNIDIRECTIONAL	PARCEL 44 DRIVEWAY
R6	58+70	LT	9	13	PARALLEL	PARCEL 44 DRIVEWAY
R6	58+88	RT	7	10	PERPENDICULAR	SPENARD ROAD
R6	59+02	LT	24	21	DUAL PARALLEL	SPENARD ROAD
R6	59+02	RT	7	10	PERPENDICULAR	SPENARD ROAD

PCC CURB RAMP & DETECTABLE WARNING NOTES:

1. *SEE INTERSECTION LAYOUT SHEETS R10–R20 FOR LOCATIONS OF CURB RAMPS AND DETECTABLE WARNINGS.*

PRELIMINARY

DECORATIVE CONCRETE NOTES:

1. *SEE SHEET T4 FOR DECORATIVE CONCRETE TABLE CONTINUED.*

30.08
P.C.C. CLUSTER MAILBOX BASE (8" THICK)

SHEET	STATION	OFFSET	AREA (SY)	REMARKS
R1	22+80	23.5 LT	3.7	
R2	29+55	22.0 LT	3.7	
R3	38+70.7	23.5 LT	3.7	
R5	54+74.5	23.5 LT	3.7	

PCC CLUSTER MAILBOX NOTES:

1. *SEE DETAIL 3, SHEET D8 FOR PCC CLUSTER MAILBOX DETAIL.*

30.10
DECORATIVE CONCRETE (RED, BRICK PATTERN)

SHEET	FROM STATION	OFFSET (FT)	TO STATION	OFFSET (FT)	4" THICK, AREA (SY)	6" THICK, AREA (SY)	REMARKS
R1	20+49.1	4.5 LT	20+85.1	4.5 LT	8		MEDIAN
R1	20+73.6	22.0 LT	20+91.0	22.0 LT	4		
R1	21+16.9	21.0 LT	22+27.7	17.3 LT	24		
R1	22+64.0	17.5 LT	23+47.3	17.5 LT	18		
R1	23+83.3	17.5 LT	24+70.0	17.5 LT	19		
R1	24+98.0	17.5 LT	25+26.5	17.5 LT	6		
R1	25+26.5	17.5 LT	26+89.9	16.0 LT		36	
R1	27+54.0	16.0 LT	27+70.0	16.0 LT	4		
R1	27+86.0	16.0 LT	28+00.0	16.0 LT	3		
R2	28+00.0	16.0 LT	28+15.3	16.0 LT	3		
R2	28+35.7	16.0 LT	28+67.0	16.0 LT	7		
R2	28+81.0	16.0 LT	29+21.4	16.0 LT	9		
R2	29+35.4	16.0 LT	29+66.0	16.0 LT	7		
R2	29+80.0	16.0 LT	30+17.0	16.0 LT	8		
R2	30+31.0	16.0 LT	30+65.6	16.0 LT	8		
R2	32+04.6	17.5 LT	32+20.0	17.5 LT	3		
R2	32+40.0	17.5 LT	32+77.8	17.5 LT	9		
R2	32+91.1	17.5 LT	33+02.7	17.5 LT	3		
R2	33+19.8	17.5 LT	33+39.2	17.5 LT	5		
R2	33+52.4	17.5 LT	34+53.3	17.5 LT	23		
R2	34+66.7	17.5 LT	35+01.2	17.5 LT	8		
R3	36+99.8	17.5 LT	38+25.0	17.5 LT	28		
R3	38+49.0	17.3 LT	38+89.0	17.5 LT	9		
R3	39+07.0	17.5 LT	39+33.0	17.5 LT	6		
R3	39+51.0	17.5 LT	40+18.0	17.5 LT	15		
R3	40+32.0	17.5 LT	41+91.8	17.5 LT	35		
R3	42+06.2	17.5 LT	43+50.0	17.5 LT	31		
R4	43+50.0	17.5 LT	44+78.9	17.5 LT	28		
R4	44+93.5	17.5 LT	45+30.0	17.5 LT	8		
R4	45+44.0	17.5 LT	45+76.0	17.5 LT	7		
R4	45+94.1	17.5 LT	46+21.1	17.5 LT	6		
R4	47+40.2	17.5 LT	47+92.0	17.5 LT	12		
R4	48+12.0	17.5 LT	48+82.3	17.5 LT	16		
R4	50+04.5	17.5 LT	50+98.0	17.5 LT	21		
R4	51+12.0	16.0 LT	51+94.0	17.5 LT	18		
R4	52+10.0	17.5 LT	52+50.0	17.5 LT	9		

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PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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STATE OF ALASKA — 49TH — Justin T. Keene CE-11775 — REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

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ROADWAY SUMMARY TABLES

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET T3 of T4

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30.10

DECORATIVE CONCRETE (RED, BRICK PATTERN) CONTINUED

SHEET	FROM STATION	OFFSET (FT)	TO STATION	OFFSET (FT)	4" THICK, AREA (SY)	6" THICK, AREA (SY)	REMARKS
R5	52+50.0	17.5 LT	53+21.8	17.5 LT	16		
R5	53+37.8	17.5 LT	53+49.0	17.5 LT	2		
R5	53+65.0	17.5 LT	54+27.0	17.5 LT	14		
R5	54+43.0	17.5 LT	55+10.5	17.5 LT	15		
R5	55+28.5	17.5 LT	55+37.0	17.5 LT	2		
R5	55+57.0	17.5 LT	55+84.4	17.5 LT	6		
R5	56+03.4	17.5 LT	56+48.7	17.5 LT	10		MEDIAN
R5	56+48.7	17.5 LT	58+27.3	22.1 LT		42	
R5	58+16.5	0.5 RT	58+79.5	0.5 RT	21		

50.18 & 50.19

ADJUST SANITARY SEWER MANHOLE CONE/RING

SHEET	STATION	OFFSET (FT)	CONE	RING	REMARKS
R2	31+46	3.4 RT	X		
R2	35+57	0.7 RT		X	
R3	37+59	3.1 RT	X		
R3	38+18	3.9 RT	X		
R5	57+84	21.9 RT		X	
R6	103+41	10.4 RT		X	TURNAGAIN STREET
R9	129+26	16.3 LT		X	NORTHWOOD DRIVE

60.04

FURNISH AND INSTALL FIRE HYDRANT ASSEMBLY (SINGLE PUMPER)

SHEET	STATION	OFFSET (FT)	REMARKS
R2	30+65.8	24.5 LT	CONNECT TO EXISTING HYDRANT LEG
R3	36+14.7	26.6 LT	SEE NOTE 2
R4	49+75.5	24.5 LT	SEE NOTE 2

FURNISH AND INSTALL FIRE HYDRANT NOTES:

1. *SEE SHEET W1 FOR GENERAL WATER NOTES AND TYPICAL SECTION. SEE DETAIL 1, SHEET W6 FOR FIRE HYDRANT DETAIL.*
2. *CONNECT TO EXISTING WATER MAIN WITH LIVE TAP BY AWWU. PROVIDE MINIMUM FORTY-EIGHT (48) HOURS ADVANCE NOTICE TO AWWU.*

SPECIAL FILL GRADING TABLE

SHEET	BEGIN STATION	END STATION	OFFSET	REMARKS
R1	20+46	20+99	RT	
R1	21+17	21+39	RT	
R1	24+34	24+58	LT	
R1	24+38	25+36	RT	
R1	25+09	25+31	LT	
R1	26+06	26+36	RT	
R1	27+06	28+00	RT	
R2	28+00	28+26	RT	

SPECIAL FILL GRADING NOTES:

1. *SPECIAL FILL GRADING SHALL BE PER DETAIL X, SHEET CX.*
2. *LOCATIONS ARE APPROXIMATE, CONTRACTOR SHALL MODIFY LOCATIONS IN THE FIELD PER THE DIRECTION OF THE ENGINEER OR AS NECESSARY TO PROVIDE POSITIVE DRAINAGE TOWARD ROADWAY. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.*

60.19 & 60.20

ADJUST KEY BOX/VALVE BOX TO FINISH GRADE

SHEET	STATION	OFFSET (FT)	KEY BOX	VALVE BOX	REMARKS
R1	20+28.7	9.6 LT		X	
R1	23+33.9	16.1 LT	X		
R1	24+57.8	15.1 LT		X	HYDRANT VALVE
R1	26+85.1	8.1 LT		X	
R1	26+93.4	33.7 RT		X	HYDRANT VALVE
R1	27+12.1	10.6 LT		X	
R1	27+31.3	31.0 LT	X		PARCEL 07
R1	27+80.0	29.9 LT	X		PARCEL 08
R2	29+45.8	16.5 RT	X		PARCEL 56
R2	30+36.4	16.3 RT	X		PARCEL 57
R2	31+05.6	12.9 RT	X		PARCEL 58
R2	31+50.4	13.8 LT		X	
R2	32+22.2	28.1 LT	X		PARCEL 18
R2	33+72.9	46.0 LT	X		PARCEL 22
R2	34+76.4	28.7 LT	X		PARCEL 26
R2	34+53.1	17.6 RT	X		PARCEL 63
R2	35+44.5	28.9 LT		X	KONA LANE
R3	36+18.3	16.5 LT		X	ABBEY LANE
R3	40+15.6	29.9 LT	X		PARCEL 30
R3	41+37.0	21.1 LT		X	
R3	42+36.5	10.0 LT		X	
R4	45+51.5	22.5 RT		X	ARKANSAS DRIVE
R4	45+77.7	18.2 RT	X		
R4	46+61.8	29.9 LT		X	ARKANSAS DRIVE
R4	47+86.7	39.6 RT	X		PARCEL 78
R4	48+70.5	14.5 LT		X	
R4	49+16.0	14.1 LT		X	
R4	49+44.3	17.0 LT	X		PARCEL 36
R5	53+37.0	27.5 RT	X		PARCEL 83
R5	55+50.6	29.6 LT	X		PARCEL 41
R5	55+71.4	13.4 LT		X	
R5	56+69.5	16.6 LT		X	HYDRANT VALVE
R6	103+31.1	11.4 RT		X	TURNAGAIN STREET
R6	104+27.7	22.3 RT	X		PARCEL 14

SIDEWALK CENTERLINE ALIGNMENT

STATION	OFFSET (FT)	DESCRIPTION
MCRAE ROAD		
56+12.30	18.0 RT	BEGIN SIDEWALK
56+45.54	18.0 RT	PC, R=482'
56+49.18	18.0 RT	PT, END SIDEWALK
56+88.82	18.0 RT	BEGIN SIDEWALK, PC, R=482'
58+65.86	20.5 RT	PT, END SIDEWALK
VINTAGE CIRCLE		
100+34.00	17.5 RT	BEGIN SIDEWALK
100+68.21	17.5 RT	END SIDEWALK
100+34.00	17.5 LT	BEGIN SIDEWALK
100+68.21	17.5 LT	END SIDEWALK
NORTHWOOD DRIVE		
128+50.61	19.0 LT	BEGIN SIDEWALK
128+58.93	19.0 LT	END SIDEWALK

SIDEWALK/PATHWAY CENTERLINE ALIGNMENT NOTES:

1. *SEE DETAIL 3 ON SHEET D7 FOR SIDEWALK/PATHWAY CENTERLINE ALIGNMENT REFERENCE DETAIL.*

PATHWAY CENTERLINE ALIGNMENT

STATION	OFFSET (FT)	DESCRIPTION
20+55.06	21.9 LT	BEGIN PATHWAY
20+70.79	25.0 LT	PI, R=29'
20+87.00	25.0 LT	END PATHWAY
21+21.00	23.9 LT	BEGIN PATHWAY
22+21.83	20.5 LT	END PATHWAY
22+70.00	20.5 LT	BEGIN PATHWAY
23+41.26	20.5 LT	END PATHWAY
23+89.26	20.5 LT	BEGIN PATHWAY
25+88.31	20.5 LT	PI, R=45'
26+00.31	19.0 LT	PI, R=35'
27+39.95	19.0 LT	HORIZONTAL DEFLECTION POINT
28+15.31	19.0 LT	HORIZONTAL DEFLECTION POINT
30+30.56	19.0 LT	PC, R=819'
30+65.73	19.0 LT	PT
30+85.24	17.0 LT	PI, R=17'
30+90.27	17.0 LT	PC, R=814'
31+76.37	17.0 LT	PT
31+92.28	17.0 LT	PI, R=23'
32+01.52	20.5 LT	PC, R=817'
32+52.81	20.5 LT	PT, END PATHWAY
35+01.22	20.5 LT	BEGIN PATHWAY
35+02.06	20.5 LT	PI, R=37'
35+02.90	20.4 LT	PI, R=17'
35+19.87	18.6 LT	PC, R=370.5
35+20.90	18.5 LT	PT
35+21.94	18.5 LT	PI, R=17'
35+25.76	18.5 LT	PC, R=367.7'
36+01.81	18.5 LT	PT
36+03.86	18.5 LT	PI, R=23'
36+83.68	18.5 LT	PC, R=368.5
36+88.15	18.5 LT	PT, END PATHWAY
36+98.15	20.5 LT	BEGIN PATHWAY
38+54.79	20.5 LT	END PATHWAY
40+83.01	20.5 LT	BEGIN PATHWAY
44+94.46	20.5 LT	PI, R=23'
46+12.51	20.5 LT	PI, R=17'
46+21.12	20.5 LT	HORIZONTAL DEFLECTION POINT
46+22.74	20.5 LT	PC, R=454.5'
46+24.35	20.2 LT	PT
46+30.17	19.0 LT	PC, R=495.5'
46+32.27	18.5 LT	PT
46+34.46	18.5 LT	PI, R=17'
46+37.35	18.5 LT	PC, R=251.1
47+09.73	18.5 LT	PT
47+15.03	18.5 LT	PI, R=23'
47+25.03	20.5 LT	PC, R=493.5'
48+84.03	20.5 LT	PT, END PATHWAY
48+94.03	18.5 LT	BEGIN PATHWAY
49+18.07	18.5 LT	PI, R=23'
49+74.92	18.5 LT	PI, R=17'
49+92.76	18.5 LT	PI, R=17'
50+02.76	20.5 LT	PI, R=23'
50+16.05	20.5 LT	END PATHWAY
50+28.05	19.0 LT	BEGIN PATHWAY
50+69.95	19.0 LT	PI, R=23'
51+40.77	19.0 LT	PI, R=17'
51+52.77	20.5 LT	PI, R=45'
56+45.54	20.5 LT	PI, R=35'
58+24.01	25.0 LT	HORIZONTAL DEFLECTION POINT
58+77.74	25.3 LT	PI, R=35'
58+86.68	27.0 LT	PI, R=45'
56+45.54	20.5 LT	PC, R=520.5'
57+26.79	20.5 LT	PT, PC, R=521.2
58+24.01	25.0 LT	PT, END PATHWAY
58+77.74	25.3 LT	BEGIN PATHWAY
58+86.68	27.0 LT	END PATHWAY

PRELIMINARY

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   COMPANY: _____ DATE: _____
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   DATA TRANSFER CHECKED BY: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books B5 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR			
INSPECTOR			
CONSTRUCTION RECORD			

VERTICAL DATUM: BASIS OF THIS DATUM GAAB 1972 Adjust

REV	DATE	DESCRIPTION	BY
REVISIONS			

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273
CONSULTANT

STATE OF ALASKA — 49TH — REGISTERED PROFESSIONAL ENGINEER — Justin T. Keene CE-11775
SEAL

MUNICIPALITY OF ANCHORAGE

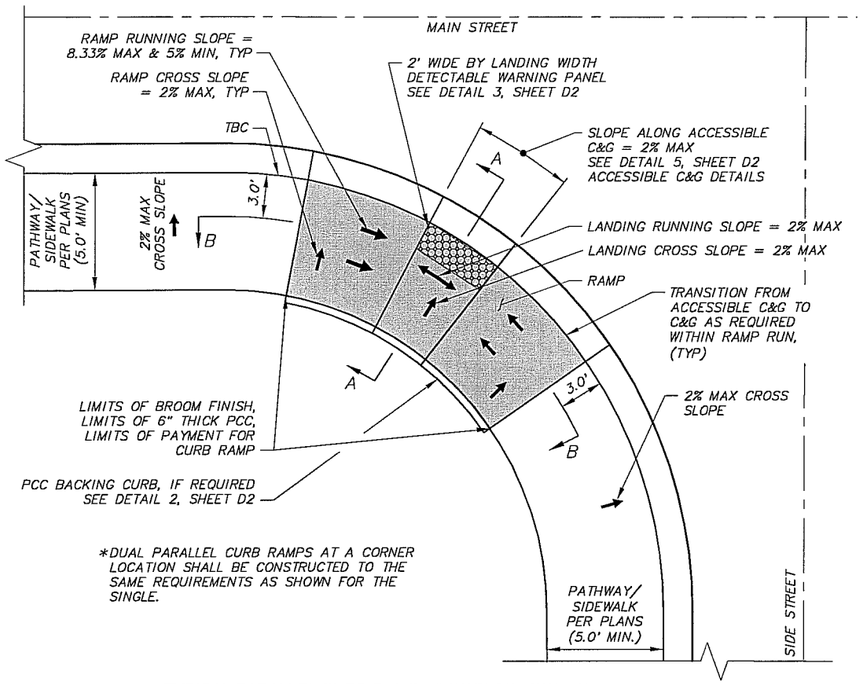
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS WISCONSIN STREET TO SPENARD ROAD SCHED A

ROADWAY SUMMARY TABLES

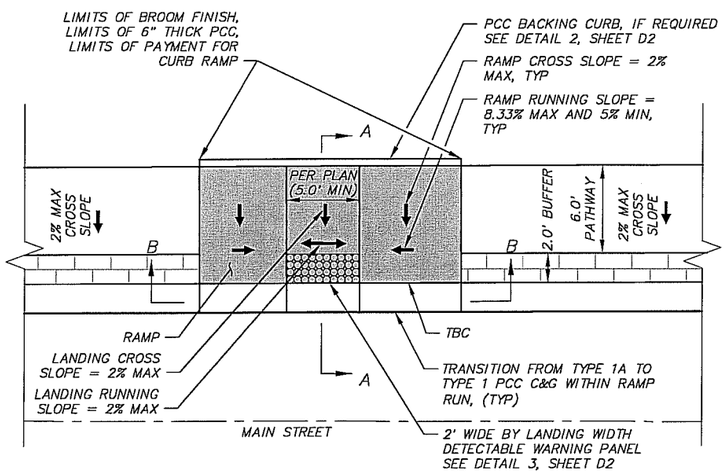
SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET T4 of T4

File: J:\obsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 ROADWAY SUMMARY TABLES.dwg



*DUAL PARALLEL CURB RAMPS AT A CORNER LOCATION SHALL BE CONSTRUCTED TO THE SAME REQUIREMENTS AS SHOWN FOR THE SINGLE.

1 TYPICAL PARALLEL CURB RAMP AT CORNER LOCATION WITH CONNECTING SIDE STREET SIDEWALK - PLAN VIEW *
SCALE: NTS

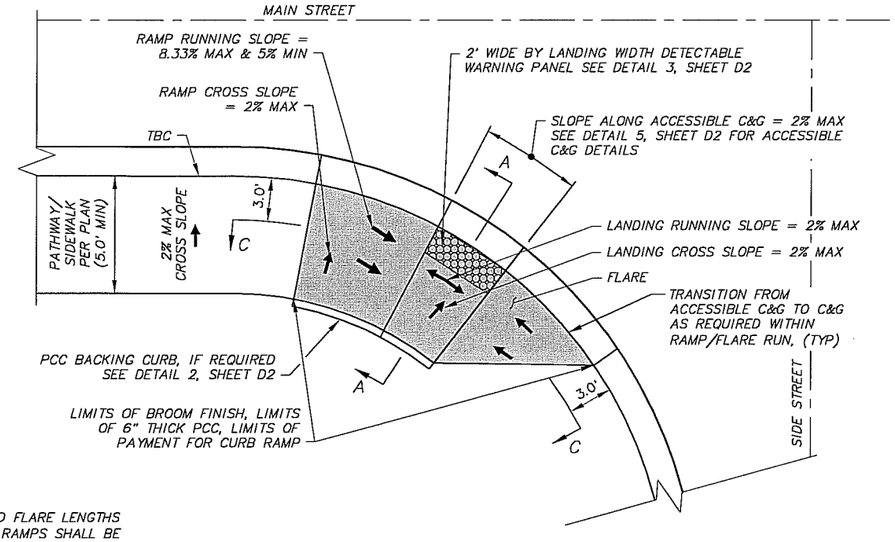


3 TYPICAL PARALLEL CURB RAMP AT NON-CORNER LOCATION - PLAN VIEW
SCALE: NTS

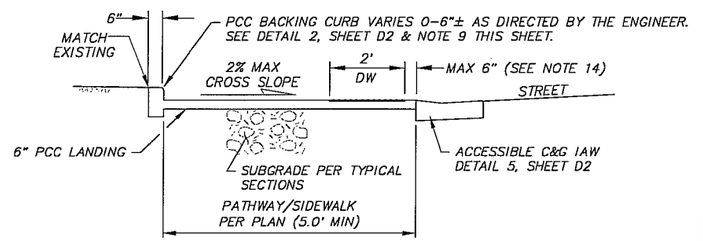
PRELIMINARY

SHEET NOTES

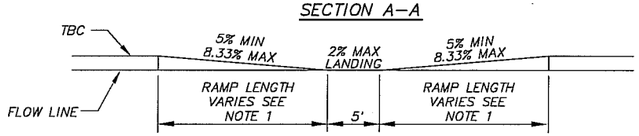
1. SEE SHEETS R10–R20 FOR CURB RAMP LOCATIONS, RAMP, LANDING AND FLARE LENGTHS AND ELEVATIONS. RAMP/FLARE/LANDING LENGTH FOR PARALLEL CURB RAMPS SHALL BE AS MEASURED 3' OFF BACK OF CURB.
2. NOTIFY ENGINEER PRIOR TO INSTALLATION OF CONCRETE IF MAXIMUM/MINIMUM SLOPES CANNOT BE MAINTAINED.
3. FOR PARALLEL CURB RAMPS, RAMPS SHALL BE 15 FEET MAXIMUM. RAMPS SHALL HAVE THE OUTSIDE EDGES AND JOINTS TRIMMED WITH A 1/4–INCH RADIUS EDGING TOOL.
4. ALL SLOPES ARE IN REFERENCE TO THE HORIZONTAL.
5. MINIMUM FLOWLINE SLOPE IN CURB RETURN IS 0.5%.
6. PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
7. CONSTRUCT SIDEWALK ADJACENT TO CURB RAMP PER THE TYPICAL SECTIONS SHOWN ON THE "C" SHEETS.
8. PAYMENT FOR ALL PCC CURB AND GUTTER, INCLUDING MODIFIED AND TRANSITIONAL CURB, SHALL BE PAID UNDER THE BID ITEM "P.C.C. CURB & GUTTER (ALL TYPES)" AND NO SEPARATE PAYMENT SHALL BE MADE.
9. FORM BACKING CURB AS DIRECTED BY THE ENGINEER TO MATCH EXISTING GROUND. PAYMENT FOR THIS CURB SHALL BE MADE UNDER THE BID ITEM "P.C.C. CURB RAMP" AND NO ADDITIONAL PAYMENT SHALL BE MADE. IF EXISTING GROUND BEHIND SIDEWALK IS GRAVEL OR GRASS, GRADE TO MATCH EXISTING GROUND. PAYMENT FOR GRADING SHALL BE MADE UNDER THE BID ITEM "P.C.C. CURB RAMP" AND NO ADDITIONAL PAYMENT SHALL BE MADE. 4" TOPSOIL AND SEEDING SHALL BE PLACED ON DISTURBED GRASS AREAS PER THE LANDSCAPING PLANS.
10. CONSTRUCT RAMPS AND LANDINGS WITH A BROOM FINISH RUNNING PERPENDICULAR TO THE DIRECTION OF TRAVEL.
11. INSTALL ADA APPROVED DETECTABLE WARNINGS (DW) PANELS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THESE DRAWINGS. SET DETECTABLE WARNINGS SO THAT THE FIELD AREA AT THE BASE OF THE DOMES IS FLUSH WITH THE SURROUNDING CONCRETE. THERE SHALL BE NO LIP AT THE EDGE OF THE DETECTABLE CURB WARNINGS. SEE DETAIL 3, SHEET D2.
12. DETECTABLE WARNINGS DOMES AT PARALLEL CURB RAMPS SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINATE DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
13. RAMP LOCATIONS MAY BE ADJUSTED TO ENSURE MINIMUM 48" CLEARANCE AROUND APPURTENANCES SUCH AS SIGNAL POLES, POWER POLES, LIGHT POLES, J–BOXES, SIGNS, CATCH BASINS AND MANHOLES. PRIOR TO PLACEMENT OF CONCRETE AND APPURTENANCES, THE RAMP LAYOUT AND LOCATION SHALL BE APPROVED BY THE ENGINEER.
14. GAP BETWEEN DETECTABLE WARNING PANELS AND BACK OF CURB ONLY ALLOWABLE AT CENTER OF CURB RAMPS. CORNERS OF DETECTABLE WARNINGS SHALL BE FLUSH WITH BACK OF CURB. IF REQUIRED BY THE ENGINEER CONTRACTOR SHALL CUT DETECTABLE WARNING PANELS PER THE MANUFACTURER'S RECOMMENDATIONS. CUTTING DW PANELS SHALL BE INCIDENTAL TO 30.04 DETECTABLE WARNINGS PAY ITEM AND NO SEPARATE PAYMENT SHALL BE MADE.



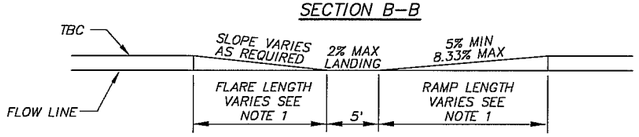
2 TYPICAL PARALLEL CURB RAMP AT CORNER LOCATION WITHOUT CONNECTING SIDE STREET SIDEWALK - PLAN VIEW
SCALE: NTS



SECTION A–A



SECTION B–B



SECTION C–C

4 TYPICAL CURB RAMP SECTIONS
SCALE: NTS

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.
CONTRACTOR: _____
BY: _____ TITLE: _____ DATE: _____
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TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
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GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

FIELD BOOKS	
DESIGN	CRW Books 85 & MOA 2007–01
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	

CONSTRUCTION RECORD

TBM NO.	LOCATION	ELEV.
GAA877	See MOA Benchmark Book Page D–20	89.89
BASIS OF THIS DATUM GAAB 1972 Adjust		

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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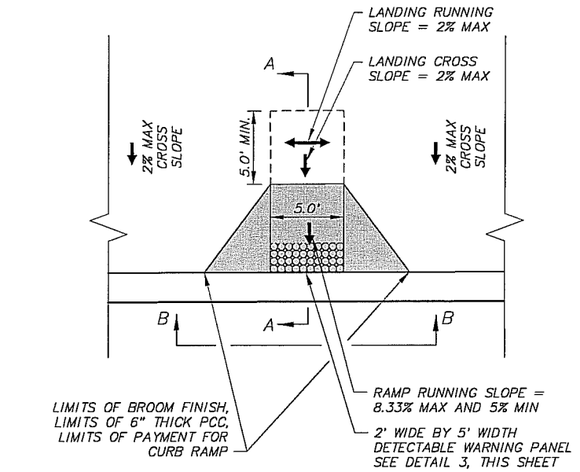
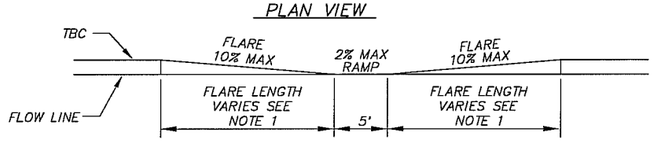
CURB RAMP DETAILS

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET D1 of D9

File: I:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Details.dwg



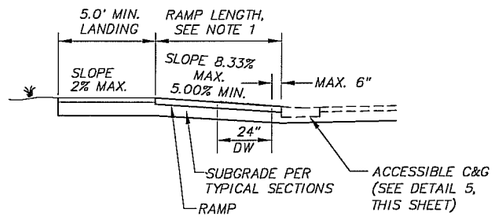
PLAN VIEW



SECTION B–B

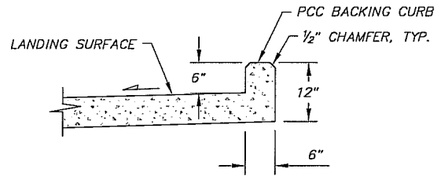
1 TYPICAL PERPENDICULAR CURB RAMP
SCALE: NTS

SHEET NOTES
1. SEE SHEET NOTES ON SHEET D1.



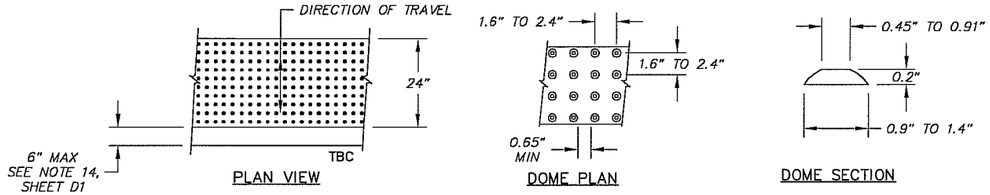
SECTION A–A

PRELIMINARY



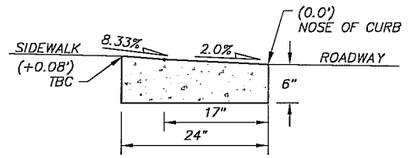
MONOLITHIC

2 BACKING CURB DETAIL
SCALE: NTS



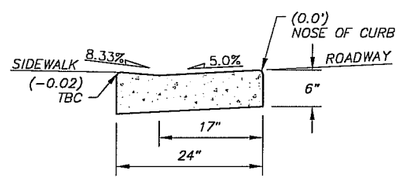
PLAN VIEW | DOME PLAN | DOME SECTION

3 DETECTABLE WARNING PANEL
SCALE: NTS



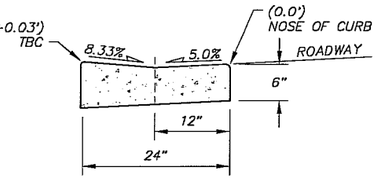
PCC CURB AND GUTTER TYPE 3A

FOR USE IN CURB RAMPS WITH TYPE 3A C&G.



PCC CURB AND GUTTER TYPE 1A

FOR USE IN CURB RAMPS WITH TYPE 1 C&G.



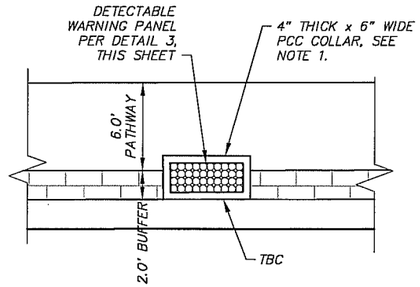
PCC CURB AND GUTTER TYPE 2A

FOR USE IN CURB RAMPS WITH TYPE 2 C&G OR AS INDICATED ON THE PLANS.

ACCESSIBLE CURB & GUTTER NOTES:

1. TRANSITION CURBS TO MAINTAIN CONSTANT FLOWLINE ACROSS CURB RAMP AND AROUND CURB RETURN IAW PLANS.
2. PAYMENT FOR ALL PCC CURB AND GUTTER, INCLUDING MODIFIED AND TRANSITIONAL CURB, SHALL BE PAID UNDER THE BID ITEM "PCC CURB & GUTTER (ALL TYPES)" AND NO SEPARATE PAYMENT SHALL BE MADE.

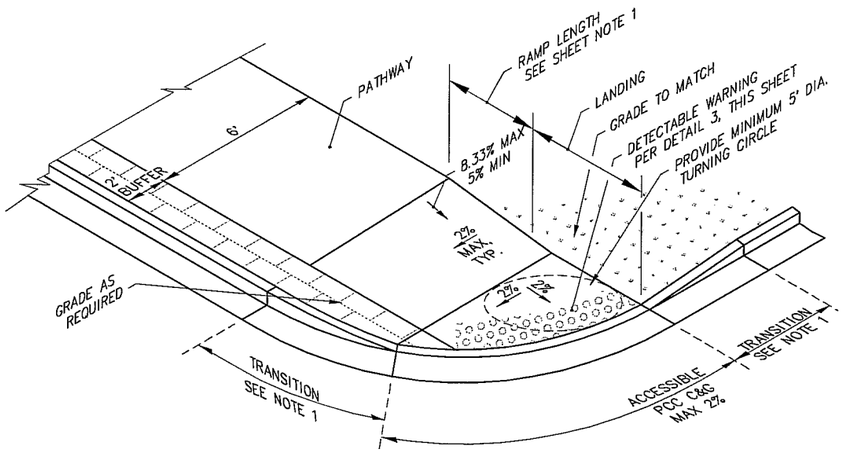
5 ACCESSIBLE CURB & GUTTER SECTIONS (TYPE 1A & TYPE 2A)
SCALE: NTS



DETECTABLE WARNING PANEL IN PATHWAY NOTES:

1. WORK & MATERIALS REQUIRED FOR INSTALLING DW PANEL SHALL BE INCIDENTAL TO ITEM 30.04 DETECTABLE WARNINGS PAY ITEM AND NO SEPERATE PAYMENT SHALL BE MADE.

6 TYPICAL DETECTABLE WARNING PANEL IN PATHWAY
SCALE: NTS



4 UNIDIRECTIONAL CURB RAMP
SCALE: NTS

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TOPOGRAPHY	GB	SMB
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STORM SEWER	JCH	SMB
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ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

FIELD BOOKS	
DESIGN	CRW Books 85 & MOA 2007-01
STAKING	
AS-BUILT	
CONTRACTOR	
INSPECTOR	
CONSTRUCTION RECORD	

TBM NO.	LOCATION	ELEV.
GAAB77	See MOA Benchmark Book Page D-20	89.89
BASIS OF THIS DATUM GAAB 1972 Adjust		
VERTICAL DATUM		

REV	DATE	DESCRIPTION	BY
REVISIONS			

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PHONE: (907) 562-3252
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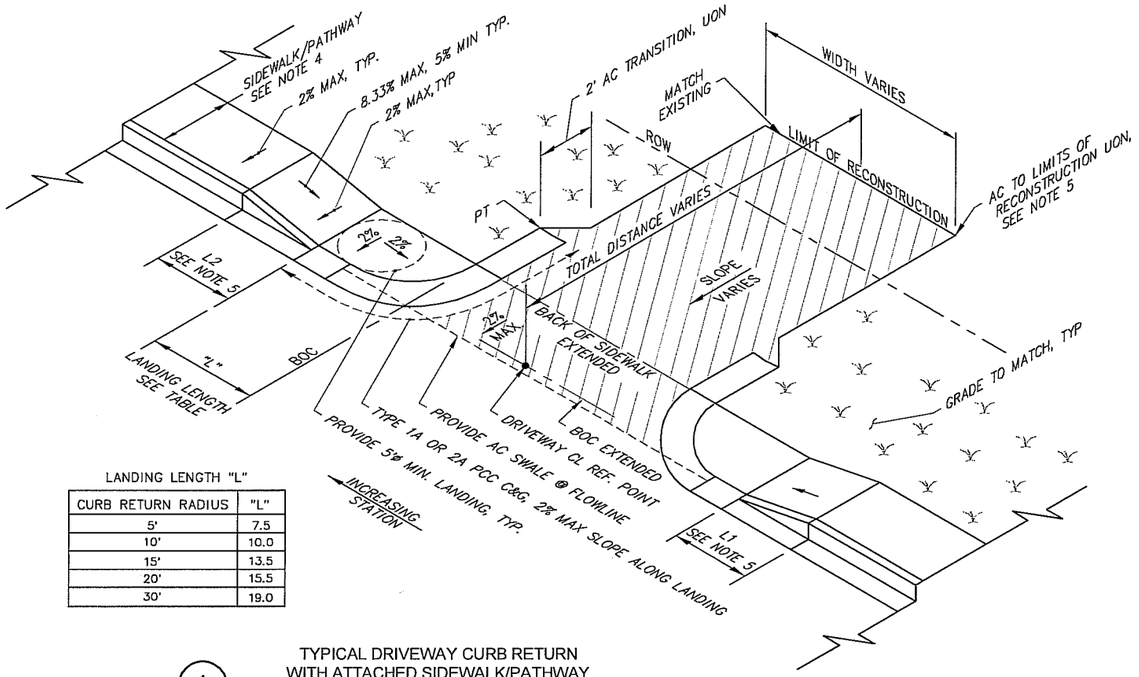
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS WISCONSIN STREET TO SPENARD ROAD SCHED A

CURB RAMP DETAILS

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET D2 of D9

File: J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Details.dwg



LANDING LENGTH "L"

CURB RETURN RADIUS	"L"
5'	7.5
10'	10.0
15'	13.5
20'	15.5
30'	19.0

1 TYPICAL DRIVEWAY CURB RETURN WITH ATTACHED SIDEWALK/PATHWAY
SCALE: NTS

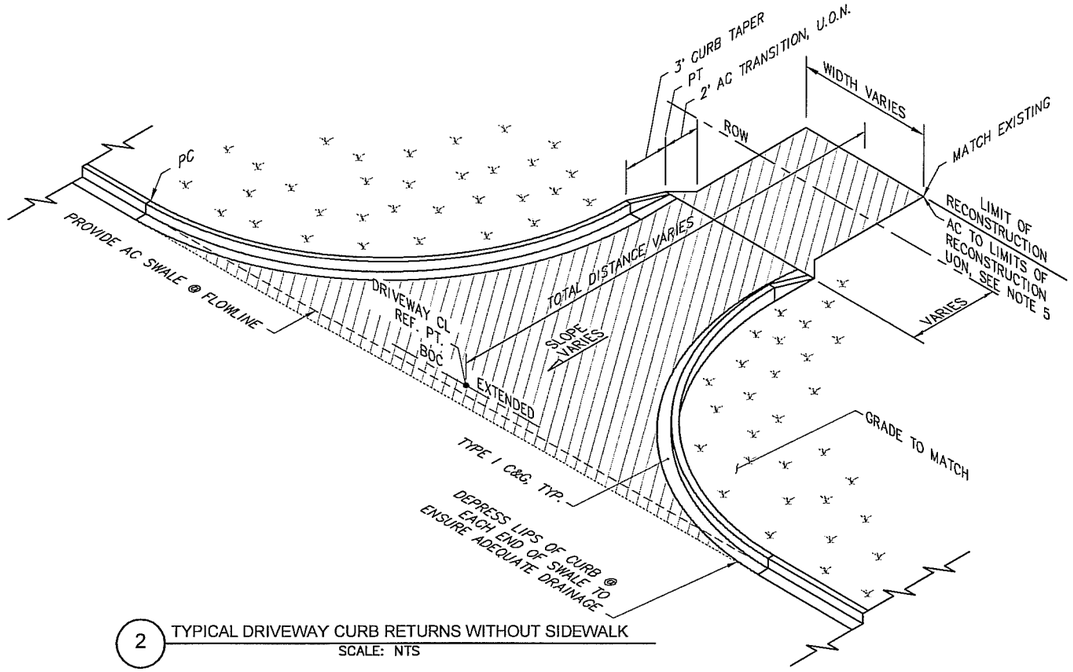
DRIVEWAY NOTES:

1. *ALL SLOPES ARE IN REFERENCE TO THE HORIZONTAL.*
2. *PAYMENT FOR PCC CURB & GUTTER (ALL TYPES) AND TRANSITION C&G SHALL BE PAID UNDER THE BID ITEM "PCC CURB & GUTTER, (ALL TYPES)" AND NO SEPARATE PAYMENT SHALL BE MADE.*
3. *CENTER THE PROPOSED DRIVEWAY ENTRANCES ON DRIVEWAY CENTERLINE REFERENCE POINT AS SHOWN IN THE 20.28 RECONSTRUCT DRIVEWAY SUMMARY TABLES.*
4. *INCREASE SIDEWALK THICKNESS TO 6" ACROSS LANDINGS AND RAMP TRANSITIONS. ADD WELDED WIRE FABRIC PER THE SPECIFICATIONS.*
5. *SEE 20.28 DRIVEWAY RECONSTRUCTION SUMMARY TABLES AND DRIVEWAY RECONSTRUCTION DETAILS, FOR INDIVIDUAL DRIVEWAY SPECIFICS.*
6. *INSTALL INSULATION UNDER DRIVEWAY PER MASS STANDARD DETAIL 20.7.*

LEGEND:

LIMITS OF 2" AC PAVING

PRELIMINARY



2 TYPICAL DRIVEWAY CURB RETURNS WITHOUT SIDEWALK
SCALE: NTS

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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BY: _____

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BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
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PHONE: (907) 562-3252
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STATE OF ALASKA 49TH
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PUBLIC WORKS DEPARTMENT
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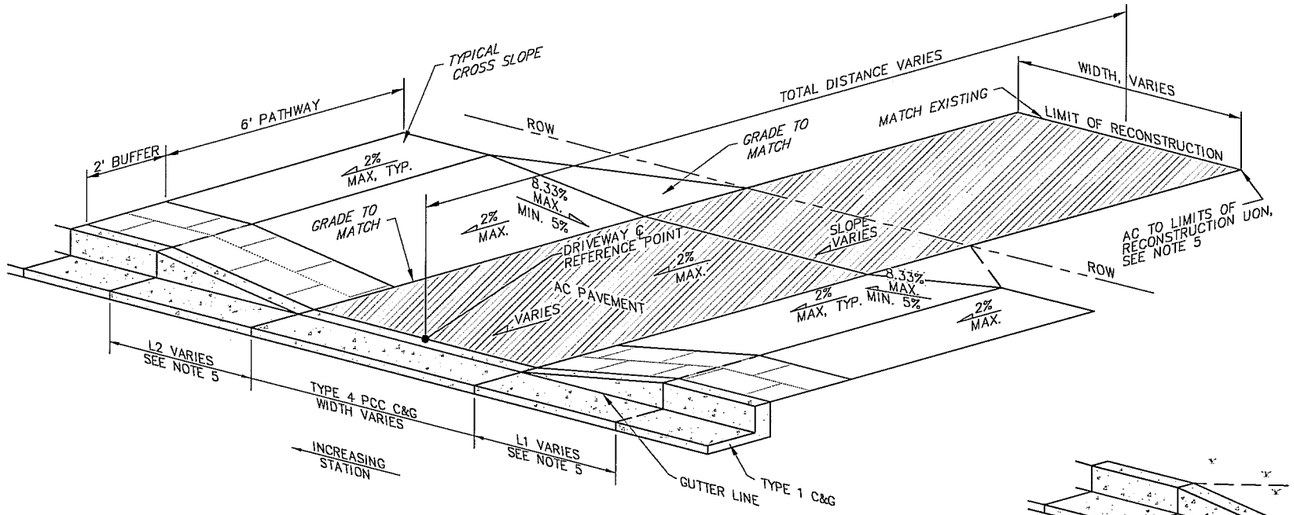
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

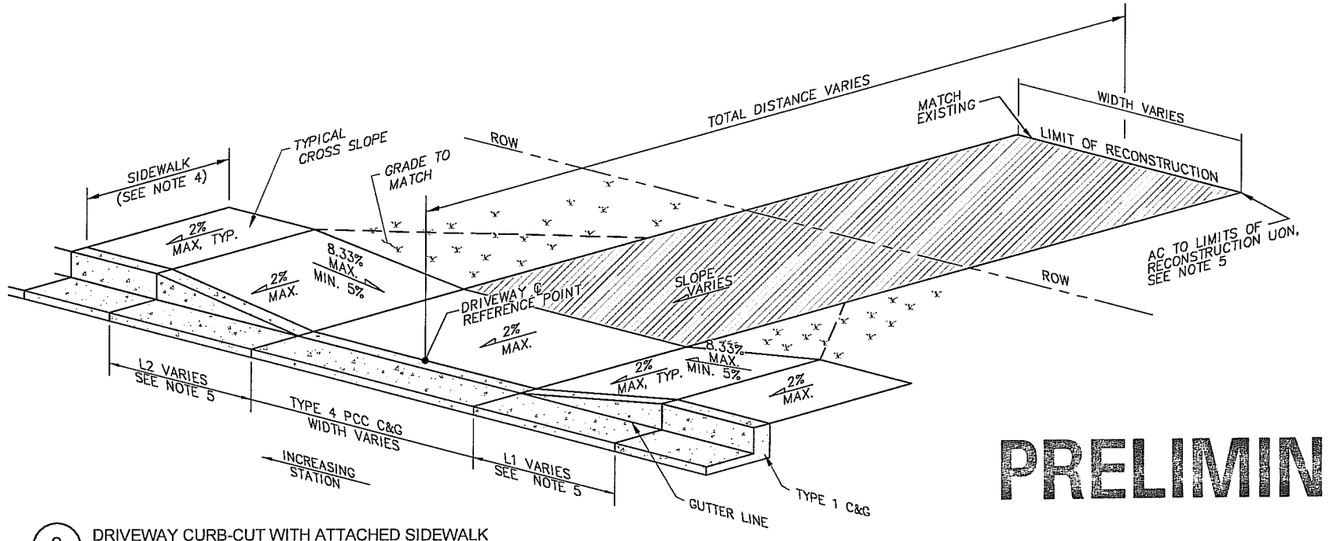
DRIVEWAY CURB RETURN DETAILS

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET D3 of D9

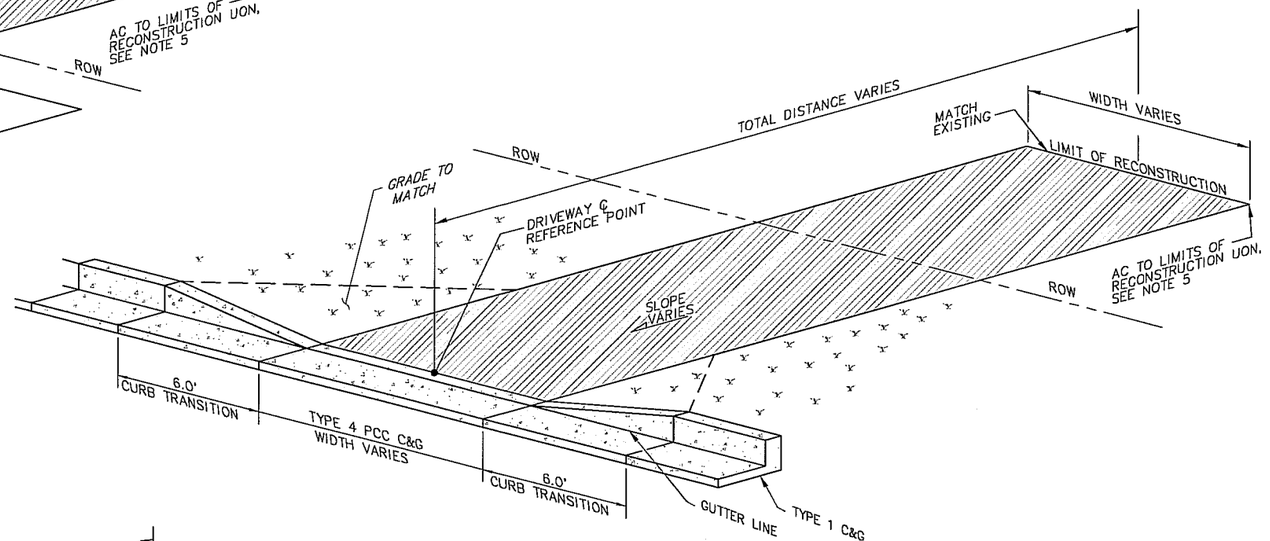
File:J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Details.dwg



1 DRIVEWAY CURB-CUT WITH PATHWAY
SCALE: NTS



2 DRIVEWAY CURB-CUT WITH ATTACHED SIDEWALK
SCALE: NTS



3 DRIVEWAY CURB-CUT WITHOUT SIDEWALK
SCALE: NTS

DRIVEWAY NOTES:

1. *ALL SLOPES ARE IN REFERENCE TO THE HORIZONTAL.*
2. *PAYMENT FOR PCC CURB & GUTTER (ALL TYPES) AND TRANSITION C&G SHALL BE PAID UNDER THE BID ITEM "PCC CURB & GUTTER, (ALL TYPES)" AND NO SEPARATE PAYMENT SHALL BE MADE.*
3. *CENTER THE PROPOSED DRIVEWAY ENTRANCES ON DRIVEWAY CENTERLINE REFERENCE POINT AS SHOWN IN THE 20.28 RECONSTRUCT DRIVEWAY SUMMARY TABLES.*
4. *INCREASE SIDEWALK THICKNESS TO 6" ACROSS DRIVEWAY AND RAMP TRANSITIONS. ADD WELDED WIRE FABRIC PER THE SPECIFICATIONS.*
5. *SEE 20.28 DRIVEWAY RECONSTRUCTION SUMMARY TABLES AND DRIVEWAY RECONSTRUCTION DETAILS FOR INDIVIDUAL DRIVEWAY SPECIFIECS.*
6. *INSTALL INSULATION UNDER DRIVEWAY PER MASS STANDARD DETAIL 20.7.*
7. *WHERE NO CURB AND GUTTER EXISTS, DRIVEWAY CENTERLINE REFERENCE POINT SHALL BE EDGE OF ROAD AC EXTENDED.*

PRELIMINARY

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QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
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CONSTRUCTION RECORD	VERTICAL DATUM		

REV	DATE	DESCRIPTION	BY
REVISIONS			

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD, SUITE 300
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PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

DRIVEWAY CURB CUT DETAILS

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET D4 of D9

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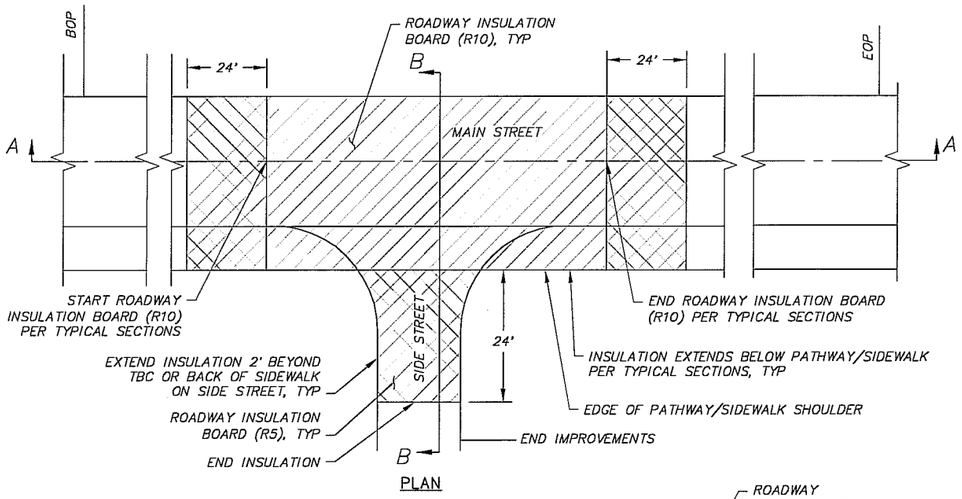
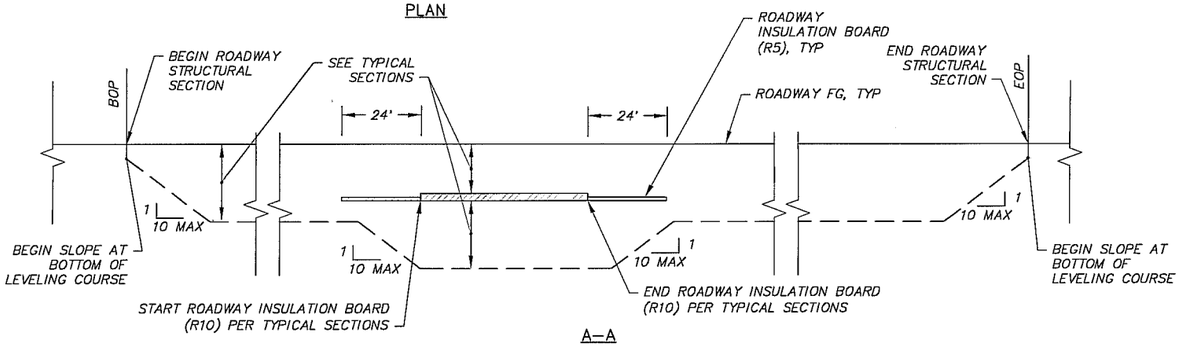
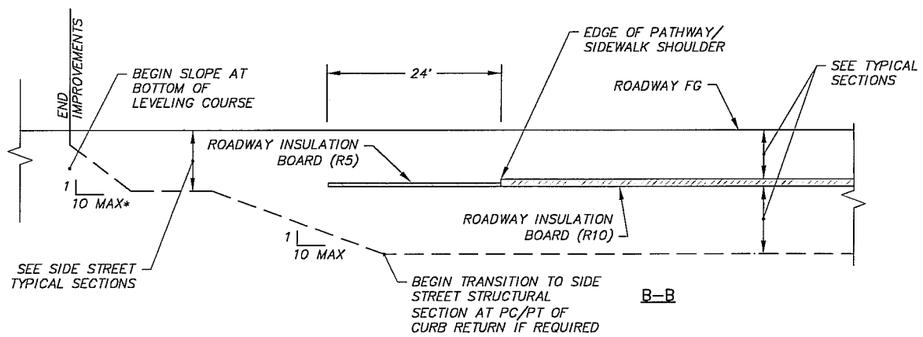


PLAN

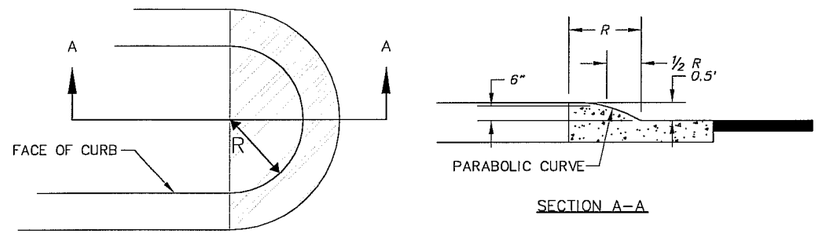


A–A



B–B

1 BOARD INSULATION AND EXCAVATION TRANSITION DETAIL
SCALE: NTS

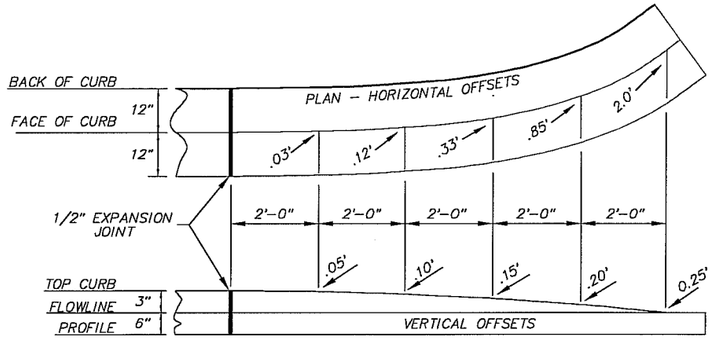


SECTION A–A

NOTES:

1. ISLAND NOSE SHALL BE PAINTED WITH YELLOW REFLECTIVE TRAFFIC PAINT.
2. PAINTING SHALL BE INCIDENTAL TO CURB NOSE INSTALLATION.

2 CURB NOSE MEDIAN DETAIL
SCALE: NTS



NOTES:

1. PAYMENT FOR TYPE 2 CURB AND GUTTER TERMINATION TRANSITION SHALL BE PAID UNDER THE BID ITEM "P.C.C. CURB AND GUTTER (ALL TYPES)" AND NO SEPARATE PAYMENT SHALL BE MADE.
2. TYPE 1 CURB AND GUTTER TERMINATION TRANSITION SHALL BE CONSTRUCTED PER MASS STANDARD DETAIL 30–2.

3 TYPE 2 CURB AND GUTTER TERMINATION TRANSITION
SCALE: NTS

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PLAN CHECK

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ASBUILT			
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MISCELLANEOUS DETAILS

BOARD INSULATION AND EXCAVATION TRANSITION, CURB NOSE MEDIAN, AND TYPE 2 C&G TERMINATION TRANSITION

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET D5 of D9

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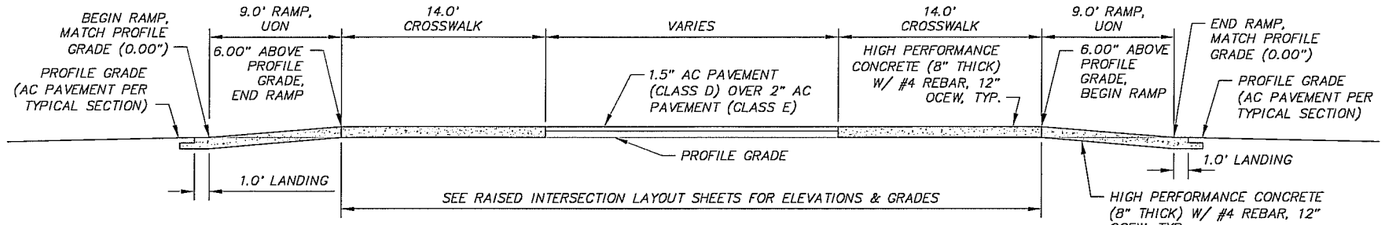
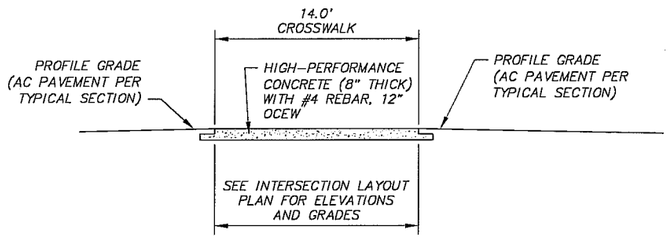
RAISED INTERSECTION & AT-GRADE CROSSWALK NOTES:

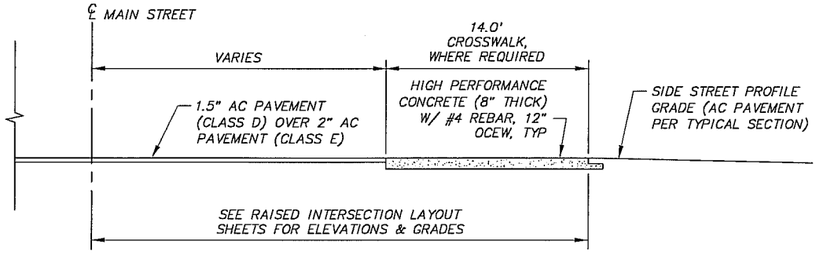
1. 8" CONCRETE SURFACES TO BE PAID UNDER ITEM HIGH PERFORMANCE CONCRETE.
2. CROSSWALK AREAS TO BE PROVIDED WITH COLORED CONCRETE, SEE RAISED INTERSECTION LAYOUT SHEETS FOR DETAILS.
3. PROVIDE CONTRACTION JOINTS 5' OCEW FOR ALL CONCRETE SURFACES.
4. EXPANSION JOINTS SHALL BE PROVIDED ON MAXIMUM 15' OCEW SEE EXPANSION & CONSTRUCTION JOINT DETAIL, THIS SHEET.



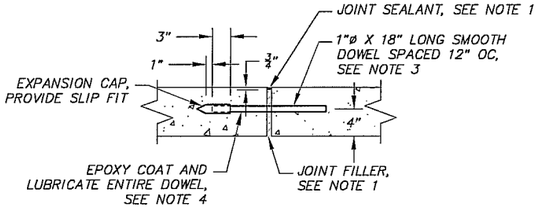
1 TYPCAL RAISED INTERSECTION CENTERLINE PROFILE - MAIN STREET
SCALE: NTS



2 TYPICAL AT-GRADE CROSSWALK CENTERLINE PROFILE
SCALE: NTS



3 TYPCAL RAISED INTERSECTION CENTERLINE PROFILE - SIDE STREETS
SCALE: NTS

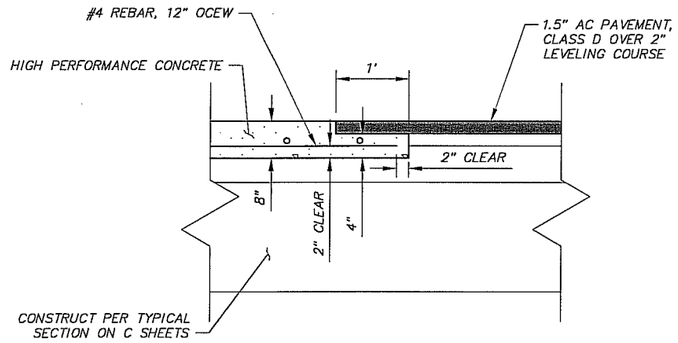


EXPANSION & CONSTRUCTION JOINT NOTES:

1. SEE MASS SECTION 30.01 FOR EXPANSION JOINT FILLER REQUIREMENTS AND MASS SECTION 30.11 FOR SEALANT REQUIREMENTS. CONSTRUCTION JOINTS SHALL BE CONSTRUCTED SIMILARLY.
2. DOWELS SHALL BE USED AT ALL EXPANSION AND CONSTRUCTION JOINTS EXCEPT JOINT AT FACE OF CURB PAN.
3. DOWELS SHALL BE EPOXY COATED STEEL IN ACCORDANCE WITH ASTM A 615M, GRADE 280 OR 420.
4. DOWEL BARS SHALL BE LUBRICATED WITH BOND BREAKER OVER THE ENTIRE BAR PRIOR TO PLACEMENT. LUBRICANT SHALL BE PETROLEUM PARAFFIN BASED.
5. ALL WORK RELATED TO FURNISHING AND INSTALLING DOWEL BARS SHALL BE CONSIDERED INCIDENTAL TO HIGH-PERFORMANCE CONCRETE PAY ITEM.

4 RAISED INTERSECTION & AT-GRADE CROSSWALK EXPANSION & CONSTRUCTION JOINT
SCALE: NTS

PRELIMINARY



5 TYPICAL AC PAVEMENT/CONCRETE JOINT DETAIL
SCALE: NTS

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PLAN CHECK

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
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STATE OF ALASKA 49TH — Justin T. Keene CE-11775 — REGISTERED PROFESSIONAL ENGINEER

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RAISED INTERSECTION & CROSSWALK DETAILS

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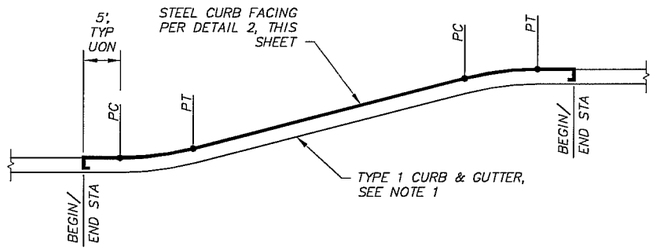
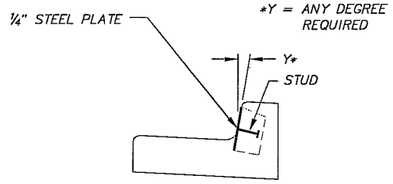


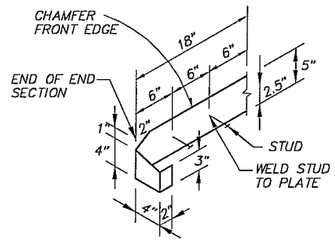
CURB AND GUTTER TRANSITION AT NECKDOWN NOTES:

1. STEEL CURB FACING REQUIRED ON TYPE 1 CURB AND GUTTER ONLY. SEE INTERSECTION LAYOUT SHEETS FOR CURB TYPE AT NECKDOWNS AND PARKING LANES.

1 CURB & GUTTER TRANSITION AT NECKDOWN/PARKING LANES
SCALE: NTS



SECTION
TYPE 1 CURB & GUTTER



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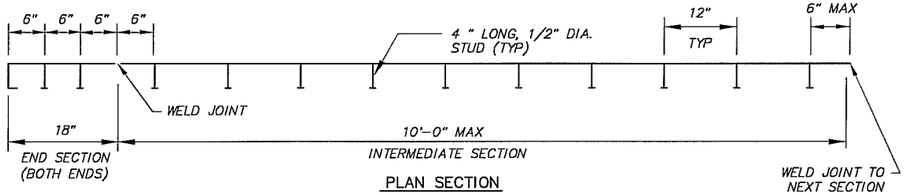


PLAN SECTION

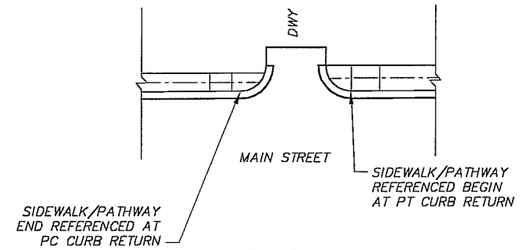
STEEL CURB FACING NOTES:

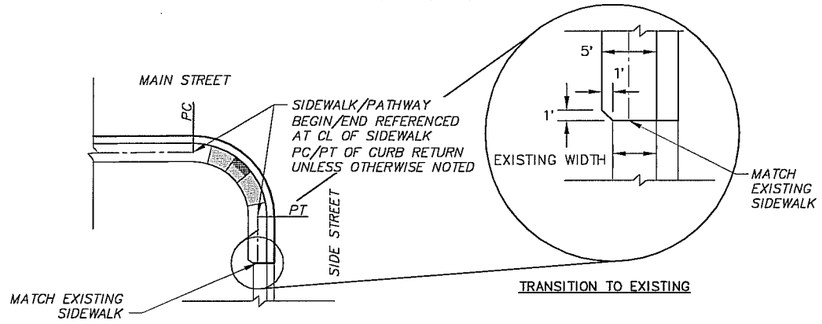
1. STEEL CURB FACING SHALL BE CONSTRUCTED OF CONTINUOUS 5" WIDE, 1/4" THICK A36 STEEL PLATE SECTIONS, AS SHOWN AND INSTALLED AS SHOWN.
2. STEEL TO BE GALVANIZED OR EQUAL.
3. TOP FRONT EDGE OF STEEL PLATE TO 1/8" CHAMFERED.
4. ALL JOINTS SHALL BE GROUND WITH A TAPER AND THEN WELDED. WELD SHALL BE A COMPLETE PENETRATION. ALL WELDS SHALL BE GROUND SMOOTH.
5. PROVIDE 4" LONG, 1/2" DIA. "NELSON STUDS" OR SIMILAR, 12" O.C., FOR ANCHORAGE.
6. LENGTH OF INTERMEDIATE SECTIONS MAY VARY PER TOTAL LENGTH INDICATED ON PLANS.
7. INSTALL SECTIONS PER BEND RADII SHOWN ON PLANS.
8. THE END OF THE 'END SECTION' SHALL TERMINATE AT AN EXPANSION JOINT.

2 STEEL CURB FACING DETAIL
SCALE: NTS

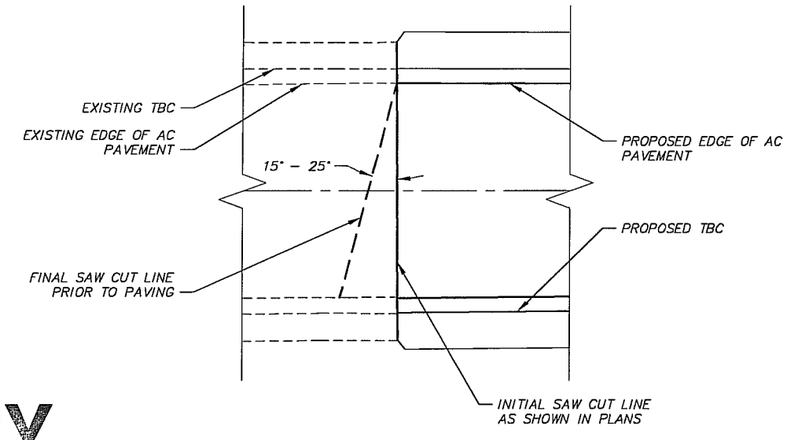
SIDEWALK/PATHWAY CENTERLINE ALIGNMENT REFERENCE NOTES:

1. AT SIDE STREETS MAINTAIN WIDTH OF SIDEWALK/PATHWAY FROM PC THROUGH PT UNLESS OTHERWISE NOTED.
2. AT DRIVEWAYS CONTINUE SIDEWALK/PATHWAY WIDTH FROM PC/PT TO EDGE OF CURB AND GUTTER.
3. SEE ROADWAY SUMMARY TABLES FOR PATHWAY/SIDEWALK ALIGNMENTS.
4. SEE SHEETS R10–R20 FOR CURB RAMP LAYOUT.





3 SIDEWALK/PATHWAY CENTERLINE ALIGNMENT REFERENCE DETAIL



4 TRANSVERSE SAW CUT JOINT DETAIL
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MISCELLANEOUS DETAILS

STEEL CURB FACING, SIDEWALK/PATHWAY ALIGNMENT, AND TRANSVERSE SAW CUT DETAIL

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET D7 of D9

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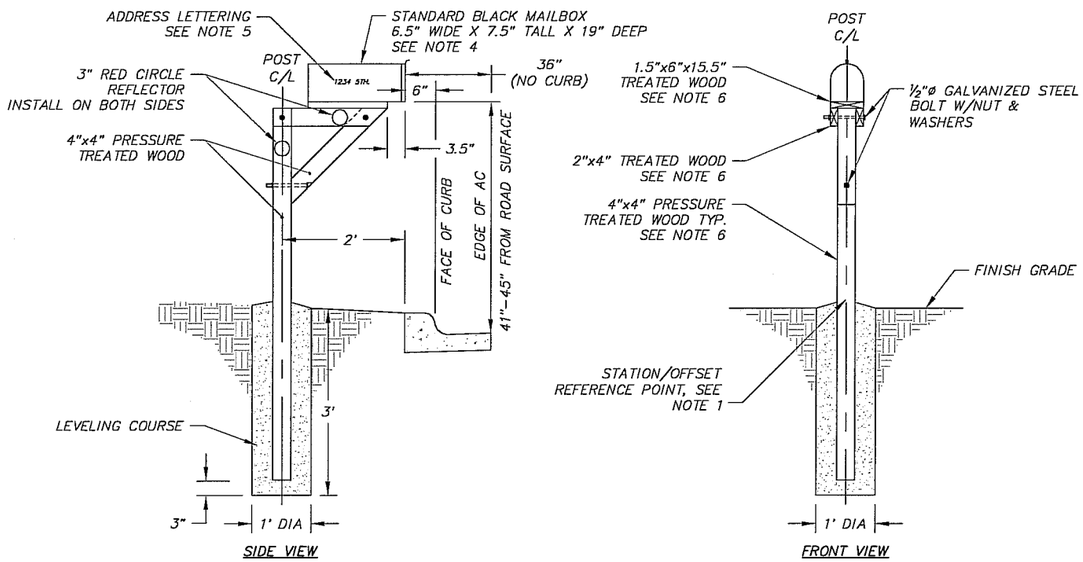
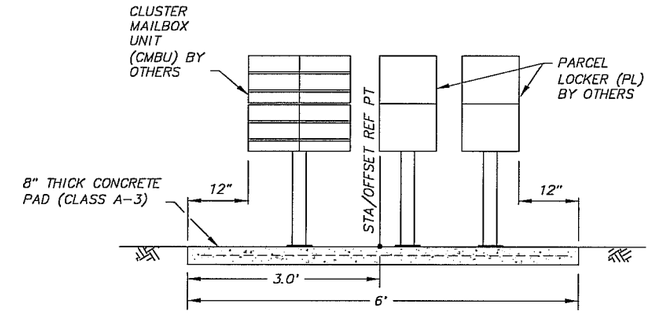


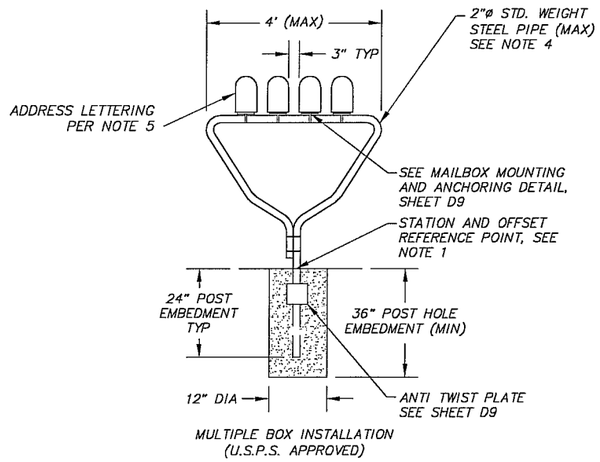
1 TYPICAL WOOD POST MAILBOX INSTALLATION
SCALE: NTS

GENERAL MAILBOX NOTES:

1. SEE "RELOCATE MAILBOX" TABLE, & DEMOLITION SHEETS, FOR LOCATING MAILBOXES ALONG ROADWAY. LOCATIONS ARE APPROXIMATE, VERIFY LOCATION WITH ENGINEER PRIOR TO INSTALLATION.
2. MAILBOXES AND SUPPORTS SHALL CONFORM WITH U.S. POSTAL SERVICE REGULATIONS.
3. NEWSPAPER RECEPTACLES SHALL CONFORM TO THE SAME SETBACK AND SUPPORT REGULATIONS AS MAILBOXES. WHERE NEWSPAPER RECEPTACLES AND MAILBOXES ARE TO BE MOUNTED TOGETHER, THE NEWSPAPER RECEPTACLE SHALL BE MOUNTED BELOW THE BOTTOM SURFACE OF THE MAILBOX.
4. CONTRACTOR SHALL COORDINATE WITH THE MOA AND ENGINEER IN THE FIELD REGARDING MAILBOX SUBSTITUTIONS OR MAILBOX SIZING, PRIOR TO ORDERING MATERIALS.
5. CONTRACTOR SHALL INSTALL MAILBOX ADDRESS LABELS PER PLAN. ADDRESS LABELS SHALL BE A MINIMUM OF 1" IN HEIGHT AND INSTALLED ON THE SIDE OF THE MAILBOX VISIBLE FROM ON COMING TRAFFIC. ADDRESS LABELS SHOULD BE CENTERED BOTH VERTICAL AND HORIZONTAL ON MAILBOX.
6. ALL WOOD SHALL BE ALL WEATHER WOOD SEALED WITH A SEMI-TRANSPARENT OIL BASED STAIN BROWN IN COLOR. SUBMIT COLOR SAMPLE FOR APPROVAL.
7. MAILBOXES MOUNTED ON METAL POSTS SHALL BE 12" FROM THE FACE OF CURB OR 36" FROM EDGE OF PAVEMENT WHERE CURB IS NOT INSTALLED.

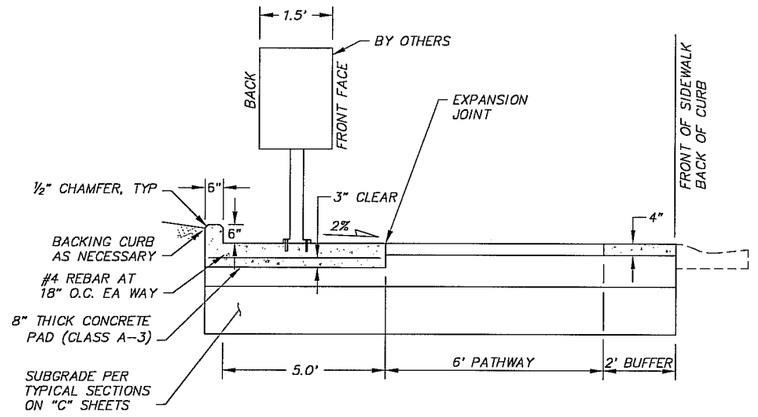


FRONT VIEW



FRONT VIEW

2 TYPICAL CLUSTER METAL POST MAILBOX INSTALLATION
SCALE: NTS



SIDE VIEW

PCC CLUSTER MAILBOX BASE NOTES:

1. LOCATIONS OF PCC CLUSTER MAILBOX BASES ARE APPROXIMATE, VERIFY LOCATION WITH ENGINEER PRIOR TO INSTALLATION.

3 PCC CLUSTER MAILBOX BASE DETAIL
SCALE: NTS

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TOPOGRAPHY	GB	SMB
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STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			
CONSTRUCTION RECORD	VERTICAL DATUM		

REV	DATE	DESCRIPTION	BY
REVISIONS			

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273
CONSULTANT

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Justin T. Keene
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MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

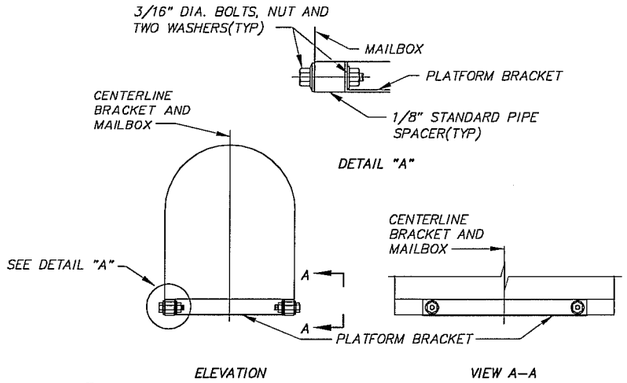
MAILBOX DETAILS

WOOD POST, CLUSTER METAL, AND
PCC CLUSTER BASE

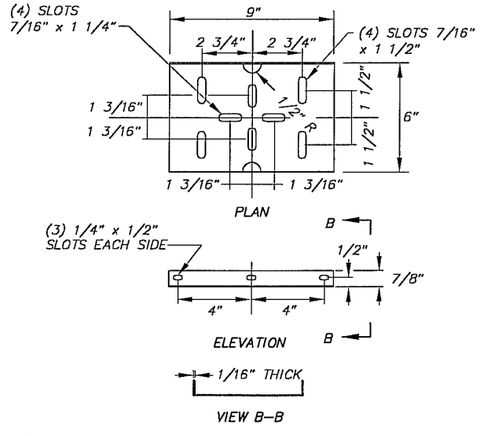
SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET D8 of D9

File: x:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Details.dwg

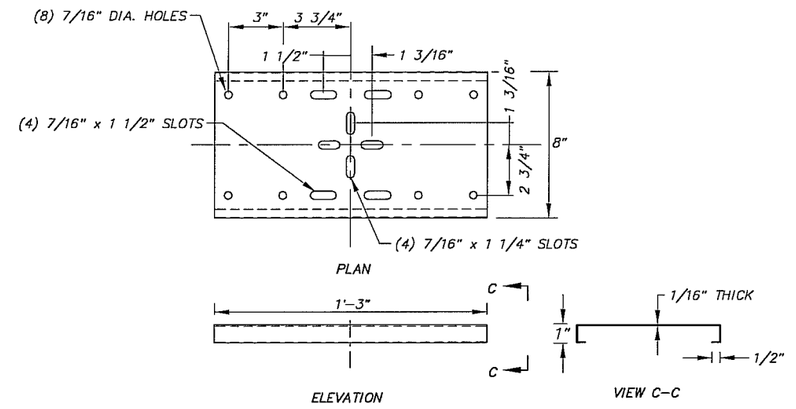
NOTE:
SECURE SUPPORT PLATFORM TO 4x4 WITH 5/16" GALVANIZED STEEL LAG BOLT, TYP OF 2.



1 MAILBOX SUPPORT PLATFORM ASSEMBLY
SCALE: NTS

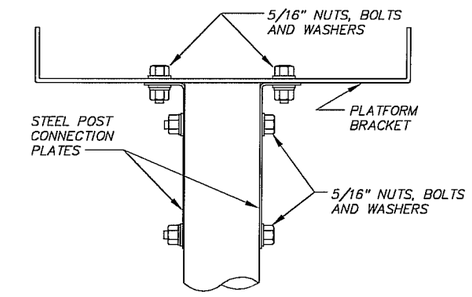


2 STEEL PLATFORM BRACKET
SCALE: NTS

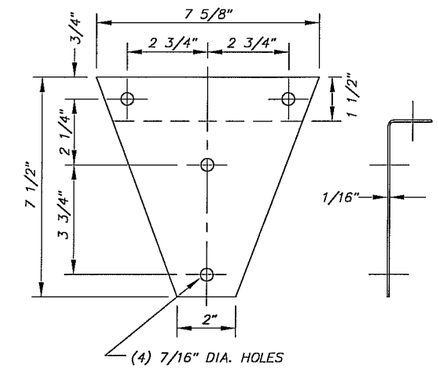


3 STEEL SHELF BRACKET
SCALE: NTS

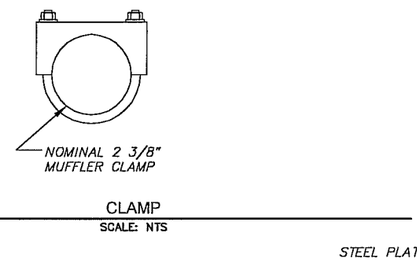
PRELIMINARY



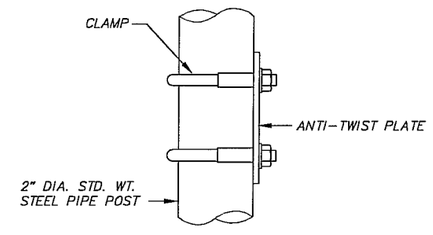
4 BRACKET ASSEMBLY DETAIL
SCALE: NTS



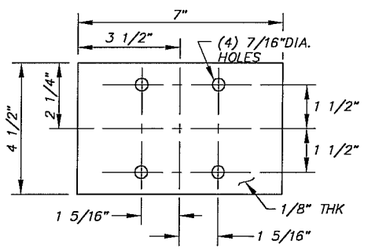
5 STEEL POST CONNECTION PLATES FOR STEEL PIPE POST
SCALE: NTS



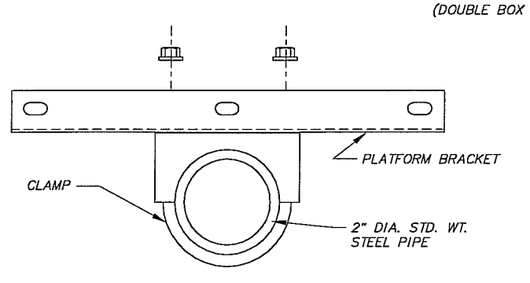
6 CLAMP
SCALE: NTS



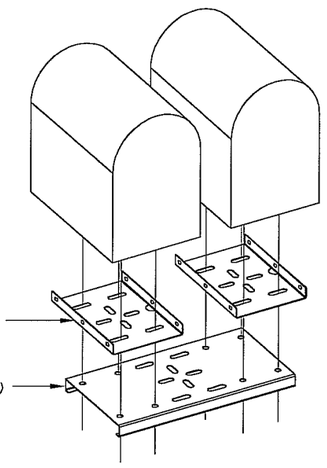
7 ANTI-TWIST PLATE ASSEMBLY DETAIL
SCALE: NTS



8 ANTI-TWIST PLATE FOR STEEL PIPE POST
SCALE: NTS



9 MULTIPLE BOX CLAMP ASSEMBLY DETAIL
SCALE: NTS



10 MAILBOX CONNECTION DETAIL
SCALE: NTS

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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: _____ TITLE: _____
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.
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COMPANY: _____ DATE: _____
BY: _____

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TOPOGRAPHY	GB	SMB
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STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

FIELD BOOKS	
DESIGN	CRW Books 85 & MOA 2007–01
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	
CONSTRUCTION RECORD	

TBM NO.	LOCATION	ELEV.
GAAB77	See MOA Benchmark Book Page D–20	89.89
BASIS OF THIS DATUM GAAB 1972 Adjust		
VERTICAL DATUM		

REV	DATE	DESCRIPTION	BY
REVISIONS			

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03–09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

MAILBOX DETAILS

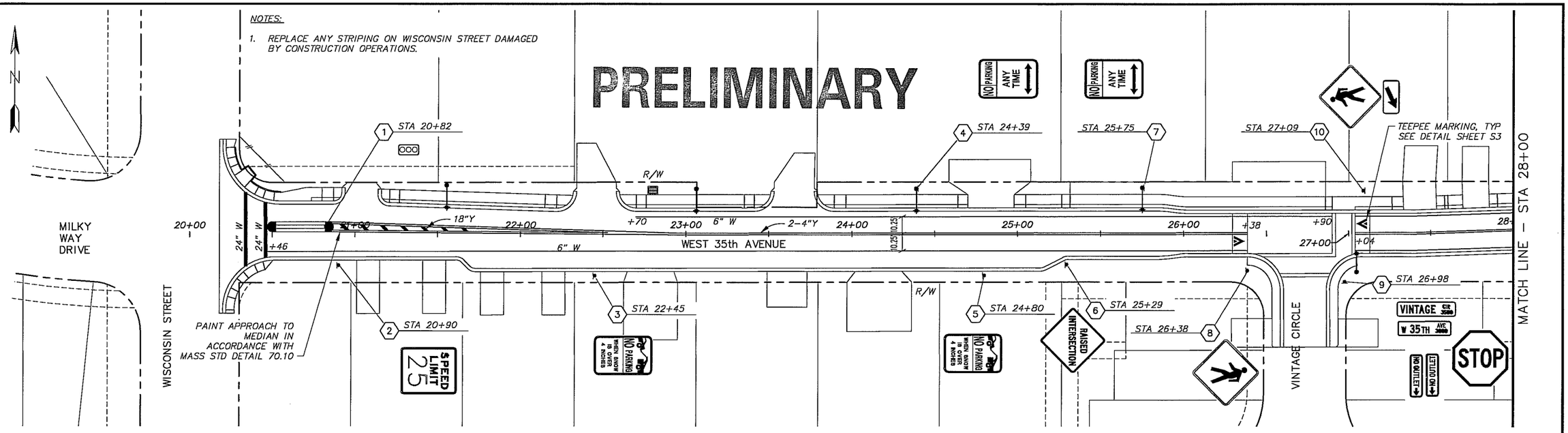
SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET D9 of D9

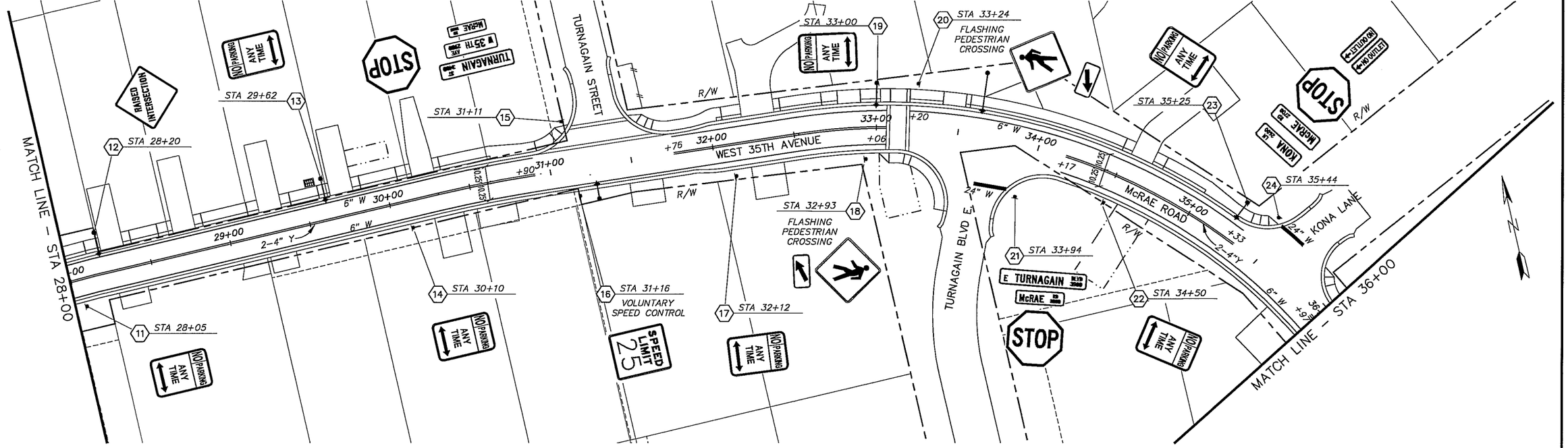
File: J:\Projects\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Details.dwg

NOTES:

1. REPLACE ANY STRIPING ON WISCONSIN STREET DAMAGED BY CONSTRUCTION OPERATIONS.

PRELIMINARY





RECORD DRAWING

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GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

CONSTRUCTION RECORD

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page 0-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

SIGNING & STRIPING

BOP TO STA 36+00

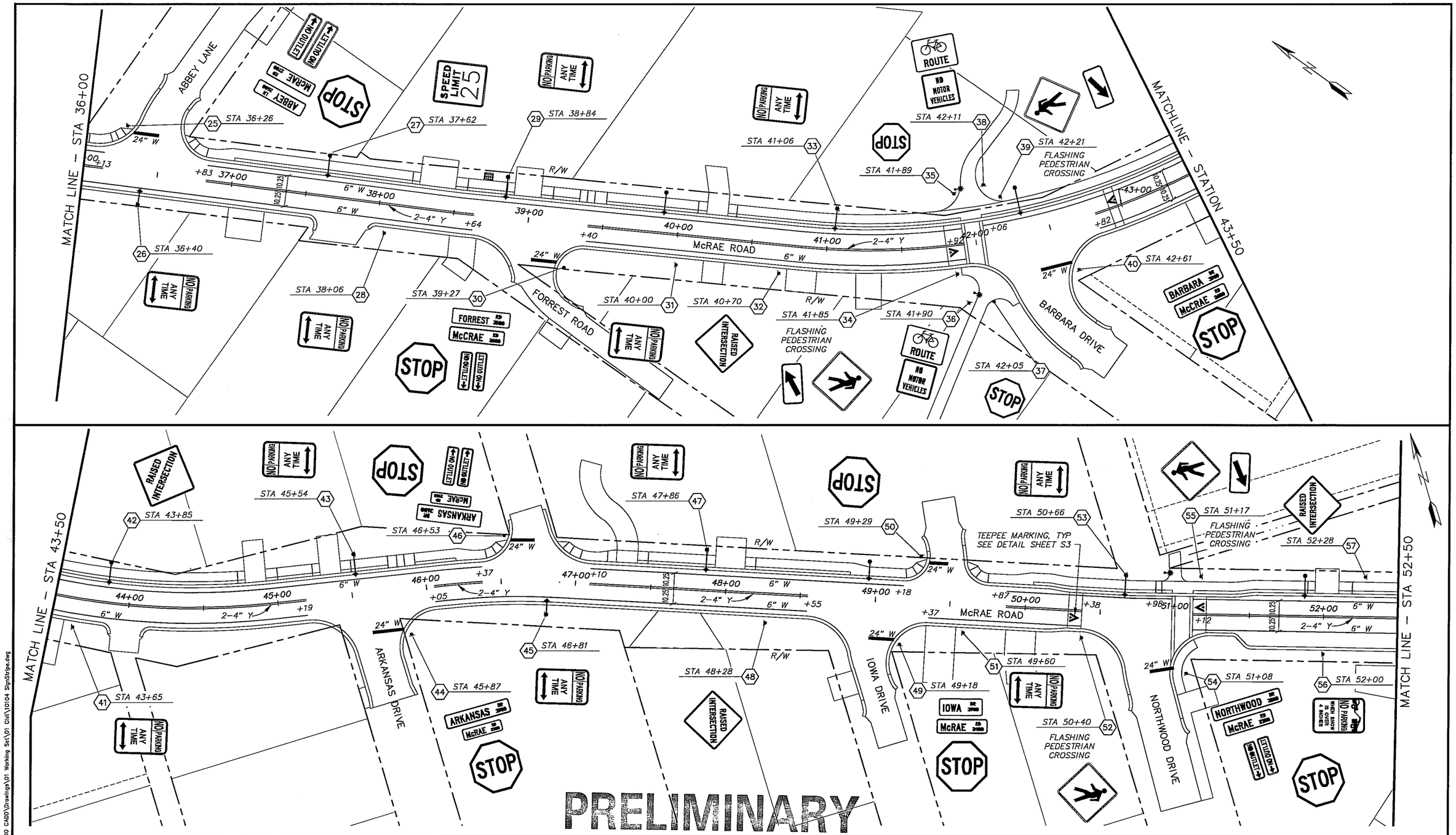
SCALE HOR. 1"=30'
VER. N/A

DATE FEB 2012 | GRID1627/1727/1728

STATUS 95% DESIGN

SHEET S1 of S5

File: J:\Jobsdata\01014 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\01014 SignStripe.dwg



PRELIMINARY

RECORD DRAWING

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GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
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PROJECT MANAGEMENT AND ENGINEERING DIVISION

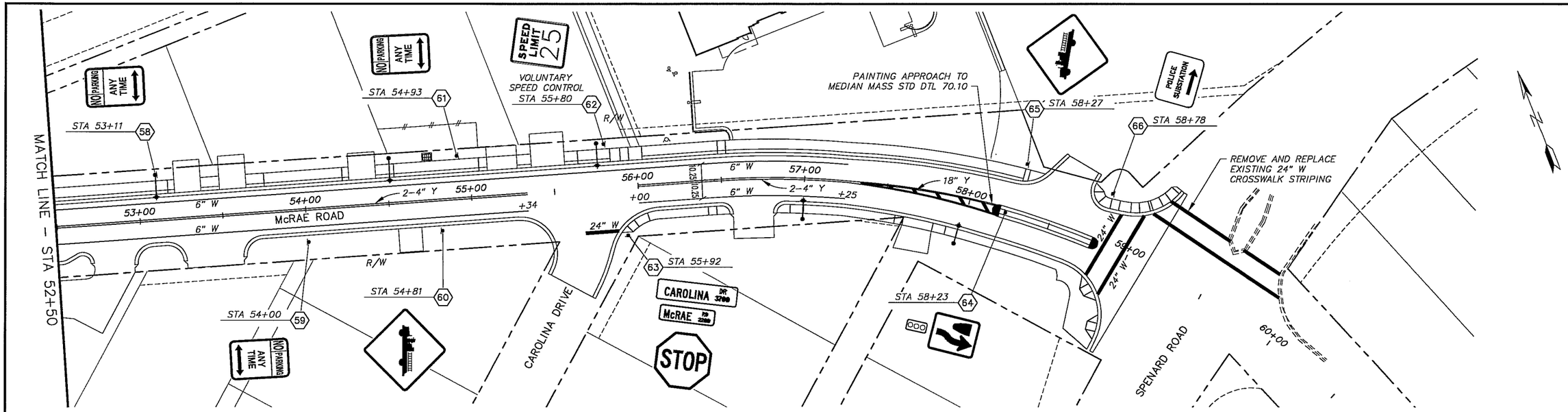
03–09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS WISCONSIN STREET TO SPENARD ROAD SCHED A

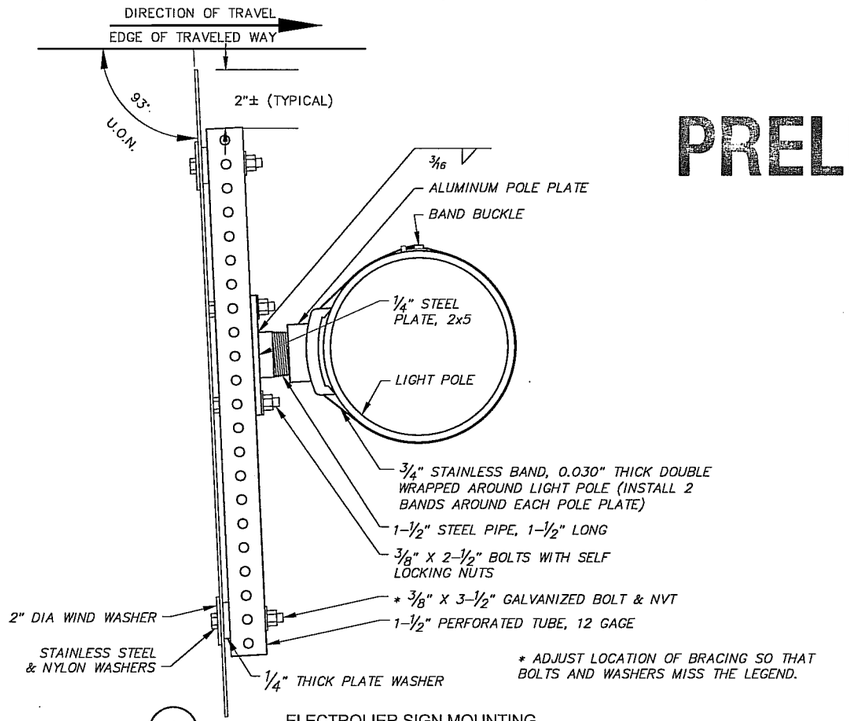
SIGNING & STRIPING

STA 36+00 TO STA 52+50

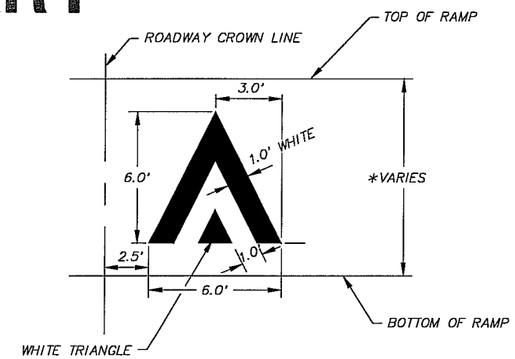
SCALE HOR. 1"=30' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET S2 of S5

Filter:L:\Jobs\dsn\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 SignStripe.dwg





1 ELECTROLIER SIGN MOUNTING
SCALE: NTS



PLAN VIEW

2 TEPEE MARKINGS FOR RAISED INTERSECTION
SCALE: NTS

NOTE:

1. REPLACE ANY STRIPING ON SPENARD DAMAGED BY CONSTRUCTION OPERATIONS.

PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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CONTRACTOR: _____
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TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page 0-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			
CONSTRUCTION RECORD	VERTICAL DATUM		

REV	DATE	DESCRIPTION	BY
REVISIONS			

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03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

SIGNING & STRIPING

STA 52+50 TO EOP

SCALE HOR. 1"=30' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET S3 of S5

File: K:\Projects\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 SignStripe.dwg

70.11 SIGN SUMMARY

	STA	REF CL	TYPE	LEGEND	SIZE (IN) W	SIZE (IN) H	AREA SQ FT	POST SIZE	SIGN FACES	REMARKS
1	20+82	LT	OM2-1V	OBJECT MARKER	6	12	0.50	2" PT	E	
2	20+90	RT	R2-1	SPEED LIMIT 25 MPH	24	30	5.00	2" PT	W	
3	22+45	RT	R7P-142	NO PARKING WHEN SNOW IS OVER 4"	12	18	1.50	2" PT	W	
4	24+39	LT	R8-3	NO PARKING ANYTIME	12	18	1.50		E	MOUNT ON ELECTROLIER
5	24+80	RT	R7P-142	NO PARKING WHEN SNOW IS OVER 4"	12	18	1.50	2" PT	W	
6	25+29	RT	SPECIAL	RAISED INTERSECTION	30	30	6.25	2" PT	W	
7	25+75	LT	R8-3	NO PARKING ANYTIME	12	18	1.50		E	MOUNT ON ELECTROLIER
8	26+38	RT	W11-2	PEDESTRIAN CROSSING	30	30	6.25	2" PT	W	
9	26+98	RT	D3-1D	VINTAGE CR 3500	30	8	1.67	2.5" PT	E/W	ONE DOUBLE SIDED PANEL
			D3-1D	W 35TH AVE 2900	30	8	1.67		N/S	ONE DOUBLE SIDED PANEL
			W14-2PL	NO OUTLET	36	12	3.00		E	
			W14-2PR	NO OUTLET	36	12	3.00		W	
			R1-1	STOP	30	30	6.25		S	
10	27+09	25.5 LT	W11-2	PEDESTRIAN CROSSING	30	30	6.25	2.5" PT	E	
			W16-7P	DOWNWARD ARROW	24	12	2.00		E	
11	28+05	RT	R8-3	NO PARKING ANYTIME	12	18	1.50		W	
12	28+20	LT	SPECIAL	RAISED INTERSECTION	36	36	9.00		E	MOUNT ON ELECTROLIER
13	29+62	LT	R8-3	NO PARKING ANYTIME	12	18	1.50		E	MOUNT ON ELECTROLIER
14	30+10	RT	R8-3	NO PARKING ANYTIME	12	18	1.50	2" PT	W	
15	31+11	LT	D3-1D	TURNAGAIN ST 3400	42	12	3.50	2.5" PT	E/W	ONE DOUBLE SIDED PANEL
			D3-1D	W 35TH AVE 2800	30	8	1.67		N/S	ONE DOUBLE SIDED PANEL
			R1-1	STOP	30	30	6.25		N	
16	31+16	RT	R2-1	VOLUNTARY SPEED LIMIT 25 MPH	24	30		6" PED	W	VOLUNTARY SPEED CONTROL SIGN
17	32+12	RT	R8-3	NO PARKING ANYTIME	12	18	1.50	2" PT	W	
18	32+93	RT	W11-2	PEDESTRIAN CROSSING	30	30		5" SQ	W	FLASHING LED SIGN
			W16-7P	DOWNWARD ARROW	24	12			W	
19	33+00	LT	R8-3	NO PARKING ANYTIME	12	18	1.50		E	MOUNT ON ELECTROLIER
20	33+24	LT	W11-2	PEDESTRIAN CROSSING	30	30		5" SQ	E	FLASHING LED SIGN
			W16-7P	DOWNWARD ARROW	24	12			E	
21	33+94	RT	D3-1D	E TURNAGAIN BLVD 3500	42	8	2.33	2.5" PT	NE/SW	ONE DOUBLE SIDED PANEL
			D3-1D	McRAE RD 2700	30	8	1.67		N/S	ONE DOUBLE SIDED PANEL
			R1-1	STOP	30	30	6.25		SW	
22	34+50	RT	R8-3	NO PARKING ANYTIME	12	18	1.50	2" PT	NW	
23	35+25	LT	R8-3	NO PARKING ANYTIME	12	18	1.50		SE	MOUNT ON ELECTROLIER
24	35+44	LT	D3-1D	KONA LANE 2600	24	8	1.33	2.5" PT	SE/NW	ONE DOUBLE SIDED PANEL
			D3-1D	McRAE RD 2700	30	8	1.67		NE/SW	ONE DOUBLE SIDED PANEL
			W14-2PL	NO OUTLET	36	12	3.00		NW	
			W14-2PR	NO OUTLET	36	12	3.00		SE	
			R1-1	STOP	30	30	6.25		NE/SW	
25	36+26	LT	D3-1D	ABBEY LANE 2700	30	8	1.67	2.5" PT	N/S	ONE DOUBLE SIDED PANEL
			D3-1D	McRAE ST 2700	30	8	1.67		NE/SW	ONE DOUBLE SIDED PANEL
			R1-1	STOP	30	30	6.25		NE	
26	36+40	RT	R8-3	NO PARKING ANYTIME	12	18	1.50		NW	MOUNT ON ELECTROLIER
27	37+62	LT	R2-1	SPEED LIMIT 25 MPH	24	30	5.00		SE	MOUNT ON ELECTROLIER
28	38+06	RT	R8-3	NO PARKING ANYTIME	12	18	1.50	2" PT	NW	
29	38+84	LT	R8-3	NO PARKING ANYTIME	12	18	1.50		SE	MOUNT ON ELECTROLIER
30	39+27	RT	D3-1D	FORREST RD 3600	30	8	1.67	2.5" PT	N/S	ONE DOUBLE SIDED PANEL
			D3-1D	McRAE ST 2600	30	8	1.67		E/W	ONE DOUBLE SIDED PANEL
			W14-2PL	NO OUTLET	36	12	3.00		N	
			W14-2PR	NO OUTLET	36	12	3.00		S	
			R1-1	STOP	30	30	6.25		W	
31	40+00	RT	R8-3	NO PARKING ANYTIME	12	18	1.50	2" PT	NW	
32	40+70	RT	SPECIAL	RAISED INTERSECTION	30	30	6.25	2" PT	NW	
33	41+06	LT	R8-3	NO PARKING ANYTIME	12	18	1.50		SE	MOUNT ON ELECTROLIER

SIGNING NOTES:

1. THE STATIONS INDICATED IN THE SIGN SUMMARY ARE APPROXIMATE. BEFORE INSTALLING ANY SIGN, STAKE THE LOCATION OF ALL SIGNS FOR THE ENGINEER'S REVIEW AND APPROVAL.
2. PROVIDE PERFORATED STEEL TUBE (PT) SIGN POSTS OF THE SIZE INDICATED IN THE SIGN SUMMARY.
3. FABRICATE THE D3-1D STREET NAME SIGNS LISTED IN THE SIGN SCHEDULE ACCORDING TO THE SIGN SHOP DRAWINGS LOCATED IN THE APPENDICES OF THE PROJECT MANUAL.
4. INSTALL THE POSTS FOR STOP SIGNS AT LOCATIONS THAT CONFORM TO MASS DETAILS 70-18 & 70-19.
5. PROVIDE CONCRETE FOUNDATION FOR SIGN POSTS IN ACCORDANCE WITH MASS DETAIL 70-31.
6. INSTALL THE TOP EDGE OF ALL SIGN PANELS ABOVE AND WITHIN 1" OF THE TOP(S) OF SIGN POST(S), EXCEPT WHEN D3-1D STREET NAME SIGNS ARE TO BE INSTALLED.
7. ALL STOP SIGNS AND STREET NAME SIGNS SHALL REMAIN FUNCTIONAL DURING CONSTRUCTION AND WINTER SHUTDOWN.
8. SEE ELECTRICAL DETAILS (J SHEETS) FOR DESIGN OF VOLUNTARY SPEED CONTROL - FLASHING LED PEDESTRIAN SIGNS.

STRIPING NOTES:

1. PROVIDE METHYL METHACRYLATE PAINT OF THE COLORS AND WIDTHS SPECIFIED FOR THE TRAFFIC MARKINGS INDICATED IN THE DRAWINGS. MARKINGS SHALL BE 60 MIL SURFACE APPLICATION EXCEPT FOR THE CROSSWALK ON SPENARD ROAD. THE CROSSWALK ON SPENARD ROAD SHALL BE GROOVED-IN METHYL METHACRYLATE WITH A 125 MILS APPLICATION.
2. INSTALL STRIPING FOR MEDIAN APPROACHES IN ACCORDANCE WITH MASS STANDARD DETAILS 70-10 & 70-13.
3. INSTALL THE 24-INCH WIDE STOP BARS ACCORDING TO MASS STANDARD DETAIL 70-18.
4. INSTALL ARROW SYMBOLS ACCORDING TO MASS STANDARD DETAIL 70-8.
5. ALL STRIPING SHALL CONFORM TO THESE CONTRACT DOCUMENTS AND THE STANDARD MASS DETAILS.
6. ALL DISTANCES ARE MEASURED FROM EITHER EDGE OF PAVEMENT OR CENTER OF STRIPE.
7. THE 24-INCH WIDE CROSSWALK MARKINGS AT VINTAGE CIRCLE, TURNAGAIN STREET, TURNAGAIN BOULEVARD EAST, BARBARA DRIVE, AND NORTHWOOD DRIVE ARE NOT PAINTED. THEY ARE FORMED BY THE WHITE CONCRETE BANDS CAST INTO THE CROSSWALK.

PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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: _____ TITLE: _____
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: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

FIELD BOOKS	
DESIGN	CRW Books 85 & MOA 2007-01
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	

CONSTRUCTION RECORD

TBM NO.	LOCATION	ELEV.
GAAB77	See MOA Benchmark Book Page D-20	89.89
BASIS OF THIS DATUM	GAAB 1972 Adjust	

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD .

SIGN SUMMARY

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1827/1727/1728 | STATUS 95% DESIGN | SHEET S4 of S5

File: I:\asbuilts\10104 35th & McRae\06 CADD\Drawings\01 Working Set\01 Civil\10104 SIGN SUM.dwg

70.11 SIGN SUMMARY

	STA	REF CL	TYPE	LEGEND	SIZE (IN) W	SIZE (IN) H	AREA SQ FT	POST SIZE	SIGN FACES	REMARKS
34	41+85	RT	W11-2	PEDESTRIAN CROSSING	30	30		5" SQ	NW	FLASHING LED SIGN
			W16-7P	DOWNWARD ARROW	24	12			NW	
35	41+89	LT	R1-1	STOP	18	18	2.25		NE	MOUNT ON ELECTROLIER
36	41+90	RT	D11-1	BIKE ROUTE	24	18	3.00	2" PT	E	
			R5-4	NO MOTOR VEHICLES	24	24	4.00		E	
37	42+05	RT	R1-1	STOP	18	18	2.25	2"PT	W	
38	42+11	LT	D11-1	BIKE ROUTE	24	18	3.00	2" PT	SW	
			R5-4	NO MOTOR VEHICLES	24	24	4.00		SW	
39	42+21	LT	W11-2	PEDESTRIAN CROSSING	30	30		5" SQ	SE	FLASHING LED SIGN
			W16-7P	DOWNWARD ARROW	24	12			SE	
40	42+61	RT	D3-1D	BARBARA DR 3700	36	8	2.00	2.5" PT	SE/NW	ONE DOUBLE SIDED PANEL
			D3-1D	McRAE ST 2600	30	8	1.67		SW/NE	ONE DOUBLE SIDED PANEL
			R1-1	STOP	30	30	6.25		SW	
41	43+65	RT	R8-3	NO PARKING ANYTIME	12	18	1.50	2" PT	NW	
42	43+85	LT	SPECIAL	RAISED INTERSECTION	36	36	9.00		SE	MOUNT ON ELECTROLIER
43	45+54	LT	R8-3	NO PARKING ANYTIME	12	18	1.50		E	MOUNT ON ELECTROLIER
44	45+87	RT	D3-1D	ARKANSAS DR 3700	36	8	2.00	2.5" PT	E/W	ONE DOUBLE SIDED PANEL
			D3-1D	McRAE ST 2500	30	8	1.67		N/S	ONE DOUBLE SIDED PANEL
			R1-1	STOP	30	30	6.25		SE	
45	46+81	RT	R8-3	NO PARKING ANYTIME	12	18	1.50	2" PT	W	MOUNT ON ELECTROLIER
46	46+53	LT	R1-1	STOP	30	30	6.25	2.5" PT	N	
			D3-1D	ARKANSAS DR 3600	36	8	2.00		E/W	
			D3-1D	McRAE ST 2500	30	8	1.67		N/S	
			W14-2PL	NO OUTLET	36	12	3.00		W	
			W14-2PR	NO OUTLET	36	12	3.00		E	
47	47+86	LT	R8-3	NO PARKING ANYTIME	12	18	1.50		SE	MOUNT ON ELECTROLIER
48	48+28	RT	SPECIAL	RAISED INTERSECTION	30	30	6.25	2" PT	NW	
49	49+18	RT	D3-1D	IOWA DR 3700	24	8	1.33	2.5" PT	N/S	ONE DOUBLE SIDED PANEL
			D3-1D	McRAE ST 2400	30	8	1.67		NE/SW	ONE DOUBLE SIDED PANEL
			R1-1	STOP	30	30	6.25		SW	
50	49+29	LT	R1-1	STOP	30	30	6.25	2" PT	NE	
51	49+60	RT	R8-3	NO PARKING ANYTIME	12	18	1.50	2" PT	NW	
52	50+40	RT	W11-2	PEDESTRIAN CROSSING	30	30		5" SQ	NW	FLASHING LED SIGN.
53	50+66	LT	R8-3	NO PARKING ANYTIME	12	18	1.50		SE	MOUNT ON ELECTROLIER
54	51+08	RT	D3-1D	NORTHWOOD DR 3700	42	8	2.33	2.5" PT	E/W	ONE DOUBLE SIDED PANEL
			D3-1D	McRAE ST 2300	30	8	1.67		N/S	ONE DOUBLE SIDED PANEL
			W14-2PL	NO OUTLET	36	12	3.00		E	
			W14-2PR	NO OUTLET	36	12	3.00		W	
			R1-1	STOP	30	30	6.25		S	
55	51+17	LT	W11-2	PEDESTRIAN CROSSING	30	30		5" SQ	SE	FLASHING LED SIGN
			W16-7P	DOWNWARD ARROW	24	12			SE	
56	52+00	RT	R7P-142	NO PARKING WHEN SNOW IS OVER 4"	12	18	1.50	2" PT	NW	
57	52+28	LT	SPECIAL	RAISED INTERSECTION	30	30	6.25	2" PT	SE	
58	53+11	LT	R8-3	NO PARKING ANYTIME	12	18	1.50		SE	MOUNT ON ELECTROLIER
59	54+00	RT	R8-3	NO PARKING ANYTIME	12	18	1.50	2" PT	NW	
60	54+81	RT	W11-8	FIRE STATION (SYMBOL)	30	30	6.25	2" PT	NW	
61	54+93	LT	R8-3	NO PARKING ANYTIME	12	18	1.50	2" PT	SE	
62	55+80	LT	R2-1	VOLUNTARY SPEED LIMIT 25 MPH	24	30		6" PED	SE	VOLUNTARY SPEED CONTROL SIGN
63	55+92	RT	D3-1D	CAROLINA DR 3700	36	8	2.00	2.5" PT	E/W	ONE DOUBLE SIDED PANEL
			D3-1D	McRAE ST 2200	30	8	1.67		N/S	ONE DOUBLE SIDED PANEL
			R1-1	STOP	30	30	6.25		S	
64	58+23	CL	R4-7	KEEP RIGHT (SYMBOL)	24	30	5.00	2" PT	NW	
			OM2-1V	OBJECT MARKER	6	12	0.50		NW	
65	58+27	LT	W11-8	FIRE STATION (SYMBOL)	30	30	6.25	2" PT	SE	
66	58+78	LT	D9-14a	POLICE SUBSTATION	24	24	4.00	2" PT	SE	
67	58+95	LT	D3-1	SPENARD RD	54	12	4.50		SE	MOUNT ON SIGNAL MAST ARM

PRELIMINARY

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   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: _____ TITLE: _____
   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: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

CONSTRUCTION RECORD

FIELD BOOKS	
DESIGN	CRW Books 85 & MOA 2007-01
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	

VERTICAL DATUM

TBM NO.	LOCATION	ELEV.
GAAB77	See MOA Benchmark Book Page D-20	89.89

BASIS OF THIS DATUM GAAB 1972 Adjust

REVISIONS

REV	DATE	DESCRIPTION	BY

CRW ENGINEERING GROUP, LLC
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MUNICIPALITY OF ANCHORAGE

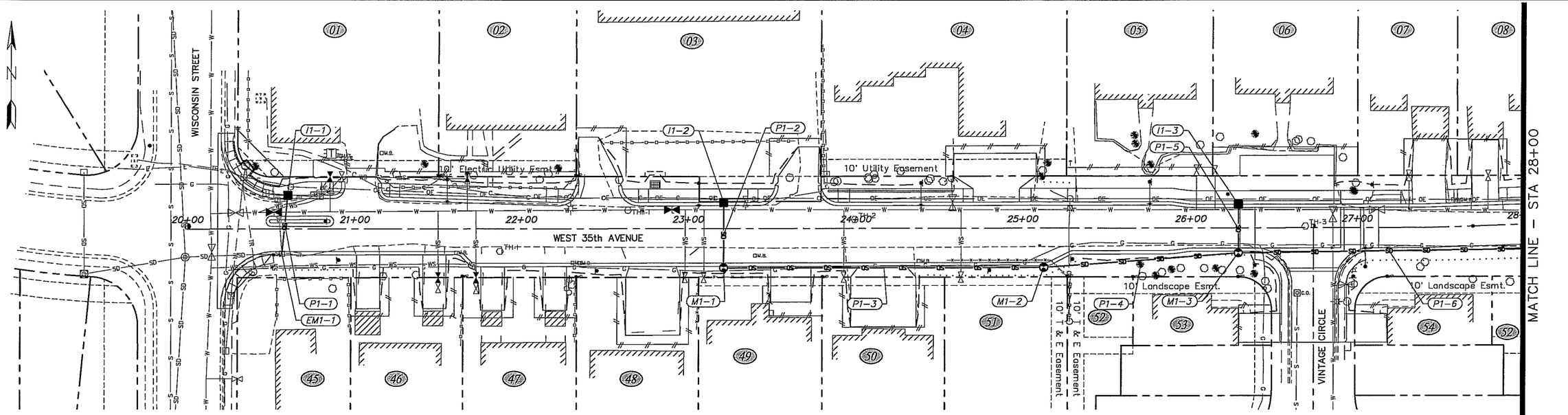
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED A
WISCONSIN STREET TO SPENARD ROAD

SIGN SUMMARY

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET S5 of S5

File: J:\Jobsdata\V0104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\V0104 SIGN SUM.dwg



NOTES:

1. AN ASTERISK (*) DENOTES PIPE OR STRUCTURE NOT SHOWN IN PROFILE FOR CLARITY.
2. CONNECTING P1–1 TO EM1–1 SHALL BE PAID FOR UNDER ITEM 55.04 CONNECT TO EXISTING MANHOLE.
3. USE THE FOLLOWING ABBREVIATIONS:

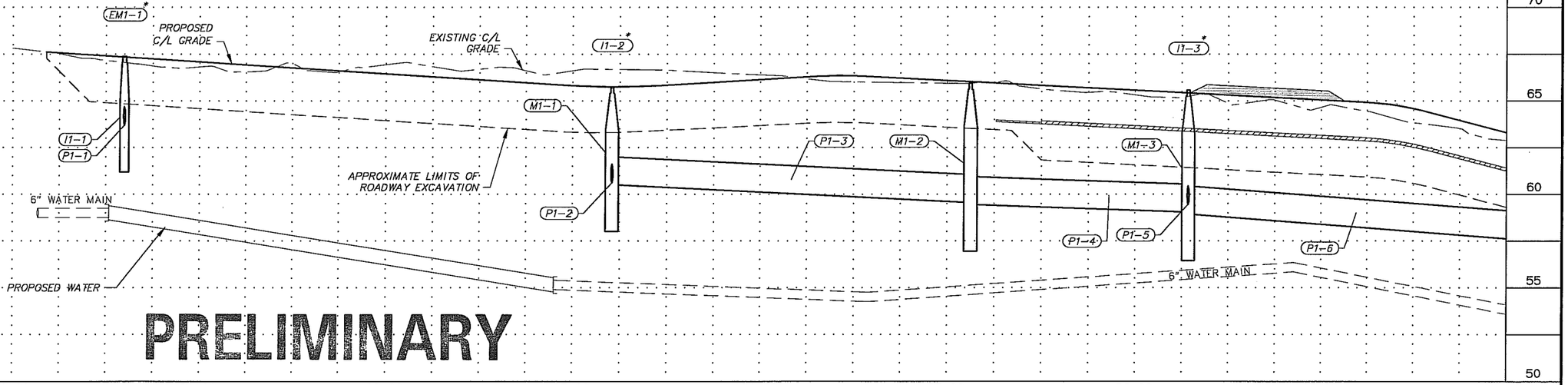
   CB = CATCH BASIN
   CB MH II = CATCH BASIN MANHOLE TYPE II
   EXIST. = EXISTING STRUCTURE TO REMAIN
   C.I. = CURB INLET

PIPE SUMMARY

PIPE NAME	SIZE (IN.)	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P1–1	12	34.82	I1–1	EM1–1	63.64	63.02	2.00%
P1–2	12	38.89	I1–2	M1–1	61.34	60.66	2.00%
P1–3	18	191.50	M1–1	M1–2	60.49	59.56	0.50%
P1–4	18	116.31	M1–2	M1–3	59.43	59.04	0.35%
P1–5	12	28.89	I1–3	M1–3	60.75	59.58	4.92%
P1–6	18	181.97	M1–3	M2–1	58.91	57.57	0.76%

STRUCTURE SUMMARY

STRUCTURE	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
I1–1	CB	C.I.	20+60.00	20.00' LT	67.38	1	
EM1–1	EXIST.	C.I.	26+34.00	14.65' RT	67.03	1	REPLACE CASTING
I1–2	CB	C.I.	23+21.00	15.50' LT	65.88	1	
M1–1	CB MH II	C.I.	23+21.00	23.39' RT	65.74	1	
M1–2	CB MH II	C.I.	25+12.50	23.39' RT	65.94	1	
I1–3	CB	C.I.	26+28.50	14.00' LT	65.35	2	
M1–3	CB MH II	C.I.	26+28.50	14.89' RT	65.58	1	



PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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CONTRACTOR: _____
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COMPANY: _____ DATE: _____
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DATA TRANSFER CHECKED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
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PHONE: (907) 562-2252
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STATE OF ALASKA 49TH — Shane M. Blanchard — CE 11519 — REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

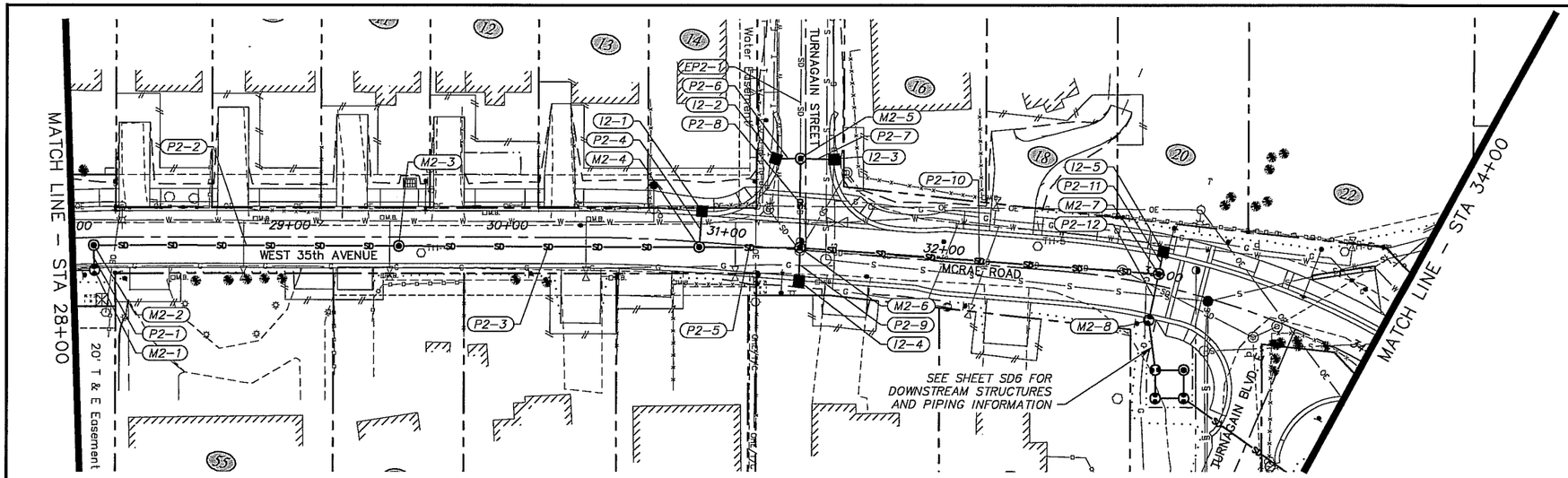
03–09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED B
WISCONSIN STREET TO SPENARD ROAD

STORM DRAIN IMPROVEMENTS

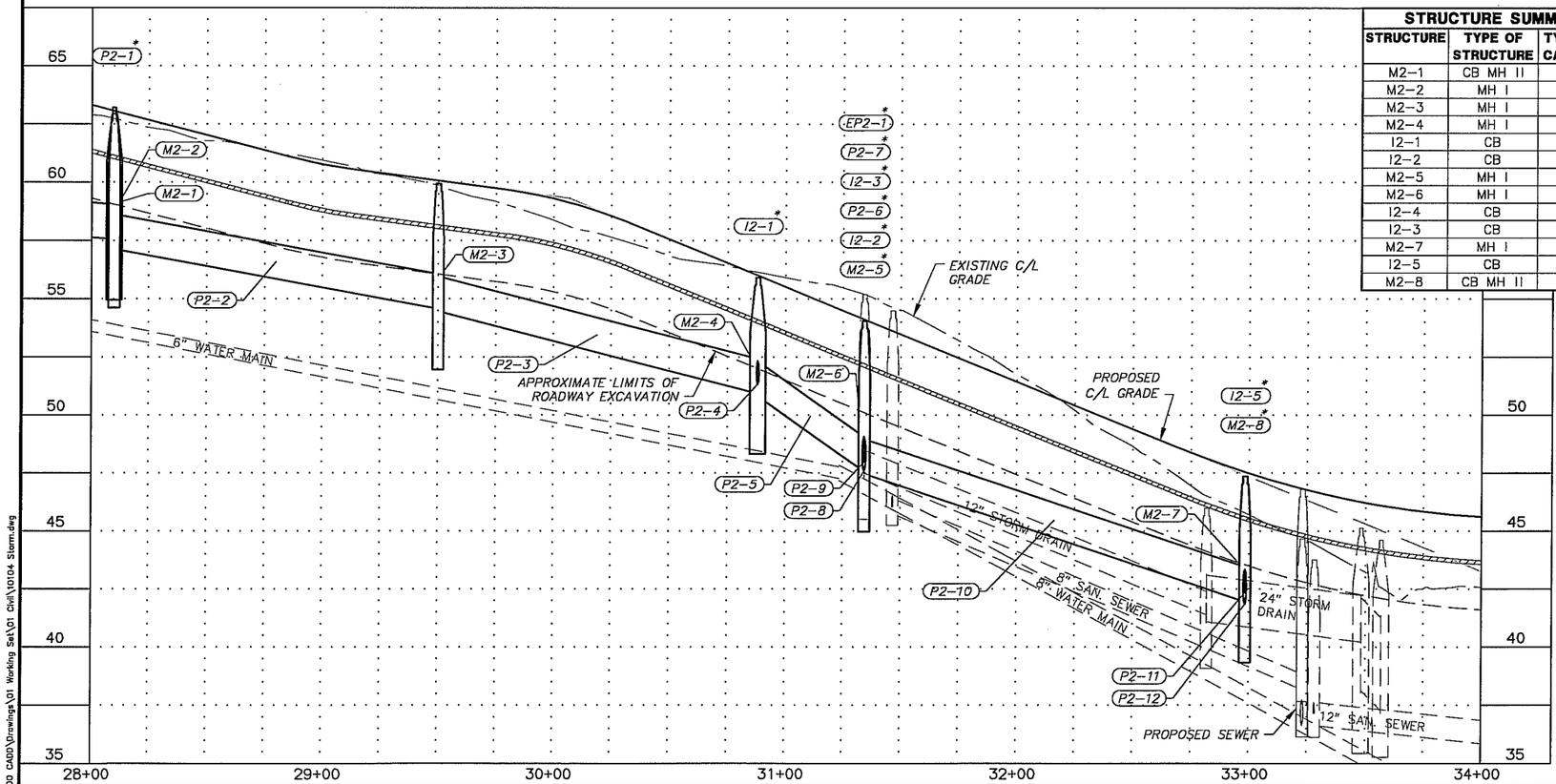
WEST 35TH AVENUE
BOP TO STA. 28+00

SCALE HOR. 1"=30' VER. 1"=3' | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET SD1 of SD9

File: J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Storm.dwg



PIPE SUMMARY							
PIPE NAME	SIZE (IN.)	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P2–1	18	11.39	M2–1	M2–2	57.39	57.26	2.00%
P2–2	18	139.88	M2–2	M2–3	57.08	54.60	1.83%
P2–3	18	137.77	M2–3	M2–4	54.41	50.97	2.64%
P2–4	12	16.50	I2–1	M2–4	51.61	51.36	2.00%
P2–5	18	46.33	M2–4	M2–6	50.68	47.71	7.01%
P2–6	12	11.21	I2–2	M2–5	49.84	48.89	13.12%
P2–7	12	15.40	I2–3	M2–5	50.00	48.84	10.26%
EP2–1	12	–	–	M2–5	–	48.16	–
P2–8	18	40.69	M2–5	M2–6	48.10	47.60	1.39%
P2–9	12	14.97	I2–4	M2–6	49.72	48.24	13.50%
P2–10	18	164.57	M2–6	M2–7	47.40	42.01	3.36%
P2–11	12	10.33	I2–5	M2–7	43.02	42.50	8.13%
P2–12	18	21.56	M2–7	M2–8	41.81	41.56	1.51%



STRUCTURE SUMMARY							
STRUCTURE	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
M2–1	CB MH II	C.I.	28+10.00	14.89' RT	63.21	1	
M2–2	MH I	MH	28+10.00	3.50' RT	62.94	N/A	
M2–3	MH I	MH	29+50.00	4.00' RT	59.94	N/A	
M2–4	MH I	MH	30+88.00	2.50' RT	55.90	N/A	
I2–1	CB	C.I.	30+88.00	14.00' LT	56.15	1	
I2–2	CB	C.I.	31+19.86	40.56' LT	54.60	1	
M2–5	MH I	MH	31+31.03	41.51' LT	54.42	N/A	CONNECT TO EP2–1
M2–6	MH I	MH	31+34.22	0.95' LT	54.05	N/A	
I2–4	CB	C.I.	31+35.00	14.00' LT	54.24	1	
I2–3	CB	C.I.	31+46.39	42.44' LT	54.71	1	
M2–7	MH I	MH	32+98.24	5.17' LT	47.36	N/A	
I2–5	CB	C.I.	32+98.24	15.50' LT	47.44	1	
M2–8	CB MH II	C.I.	32+98.24	10.39' RT	47.67	1	

PRELIMINARY

NOTES:

1. AN ASTERISK (*) DENOTES PIPE OR STRUCTURE NOT SHOWN IN PROFILE FOR CLARITY.
2. CONNECTING M2–5 TO EP2–1 SHALL BE PAID FOR UNDER 55.25 CONNECT TO EXISTING STORM DRAIN PIPE.
3. USE THE FOLLOWING ABBREVIATIONS:

   CB = CATCH BASIN
   CB MH II = CATCH BASIN MANHOLE, TYPE II
   MH I = STORM DRAIN MANHOLE, TYPE I
   C.I. = CURB INLET
   MH = MANHOLE FRAME AND LID

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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: _____ TITLE: _____
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COMPANY: _____ DATE: _____
BY: _____

PLAN CHECK		
DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

GRAPHIC 60 30 0 30 60 SCALE

CONSTRUCTION RECORD								
FIELD BOOKS	TBM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN CRW Books 85 & MOA 2007–01	GAAB77	See MOA Benchmark Book Page D–20	89.89				
STAKING							
ASBUILT							
CONTRACTOR							
INSPECTOR							

VERTICAL DATUM: BASIS OF THIS DATUM GAAB 1972 Adjust

REVISIONS

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ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273
CONSULTANT

STATE OF ALASKA 49TH
Shane M. Blanchard
CE 11519
REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

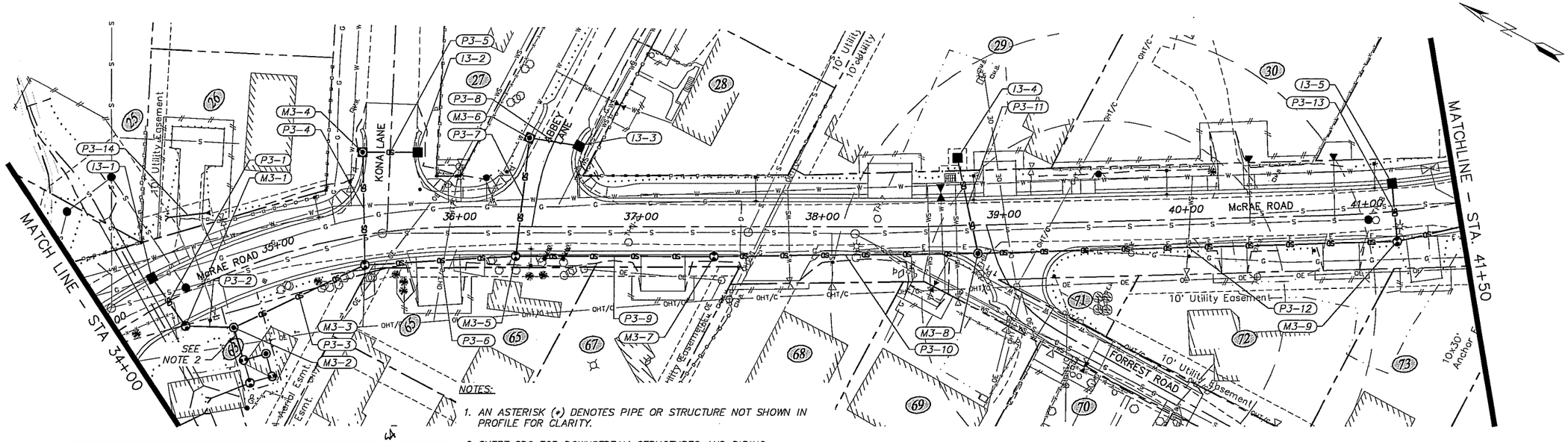
03–09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED B
WISCONSIN STREET TO SPENARD ROAD

STORM DRAIN IMPROVEMENTS

WEST 35TH AVENUE AND MCRAE ROAD
STA. 28+00 TO 34+00

SCALE HOR. 1"=30' VER. 1"=3' | DATE FEB 2012 | GRID 1627/1727/1728 | STATUS 95% DESIGN | SHEET SD2 of SD9

File: J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Storm.dwg



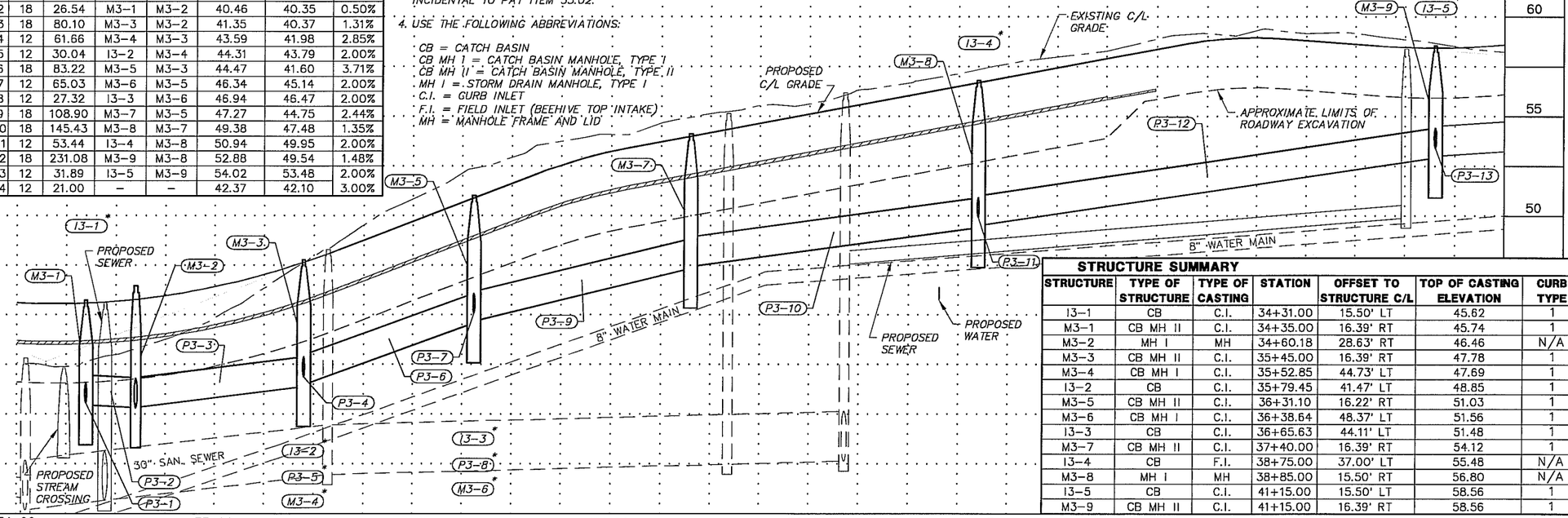
NOTES:

1. AN ASTERISK (*) DENOTES PIPE OR STRUCTURE NOT SHOWN IN PROFILE FOR CLARITY.
2. SHEET SD6 FOR DOWNSTREAM STRUCTURES AND PIPING INFORMATION.
3. FOR PIPE P3-14, INLET IS LOCATED AT 34+70.40, 35.0' LT, OUTLET 34+52.26, 41.0' LT. END SECTIONS FOR P3-14 SHALL BE INCIDENTAL TO PAY ITEM 55.02.
4. USE THE FOLLOWING ABBREVIATIONS:

CB = CATCH BASIN
CB MH I = CATCH BASIN MANHOLE, TYPE I
CB MH II = CATCH BASIN MANHOLE, TYPE II
MH I = STORM DRAIN MANHOLE, TYPE I
C.I. = CURB INLET
F.I. = FIELD INLET (BEEHIVE TOP INTAKE)
MH = MANHOLE FRAME AND LID

PIPE SUMMARY

PIPE NAME	SIZE (IN.)	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P3-1	12	32.14	I3-1	M3-1	41.09	40.62	1.72%
P3-2	18	26.54	M3-1	M3-2	40.46	40.35	0.50%
P3-3	18	80.10	M3-3	M3-2	41.35	40.37	1.31%
P3-4	12	61.66	M3-4	M3-3	43.59	41.98	2.85%
P3-5	12	30.04	I3-2	M3-4	44.31	43.79	2.00%
P3-6	18	83.22	M3-5	M3-3	44.47	41.60	3.71%
P3-7	12	65.03	M3-6	M3-5	46.34	45.14	2.00%
P3-8	12	27.32	I3-3	M3-6	46.94	46.47	2.00%
P3-9	18	108.90	M3-7	M3-5	47.27	44.75	2.44%
P3-10	18	145.43	M3-8	M3-7	49.38	47.48	1.35%
P3-11	12	53.44	I3-4	M3-8	50.94	49.95	2.00%
P3-12	18	231.08	M3-9	M3-8	52.88	49.54	1.48%
P3-13	12	31.89	I3-5	M3-9	54.02	53.48	2.00%
P3-14	12	21.00	–	–	42.37	42.10	3.00%



STRUCTURE SUMMARY

STRUCTURE	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
I3-1	CB	C.I.	34+31.00	15.50' LT	45.62	1	
M3-1	CB MH II	C.I.	34+35.00	16.39' RT	45.74	1	
M3-2	MH I	MH	34+60.18	28.63' RT	46.46	N/A	
M3-3	CB MH II	C.I.	35+45.00	16.39' RT	47.78	1	
M3-4	CB MH I	C.I.	35+52.85	44.73' LT	47.69	1	
I3-2	CB	C.I.	35+79.45	41.47' LT	48.85	1	
M3-5	CB MH II	C.I.	36+31.10	16.22' RT	51.03	1	
M3-6	CB MH I	C.I.	36+38.64	48.37' LT	51.56	1	
I3-3	CB	C.I.	36+65.63	44.11' LT	51.48	1	
M3-7	CB MH II	C.I.	37+40.00	16.39' RT	54.12	1	
I3-4	CB	F.I.	38+75.00	37.00' LT	55.48	N/A	BEEHIVE TOP INTAKE
M3-8	MH I	MH	38+85.00	15.50' RT	56.80	N/A	
I3-5	CB	C.I.	41+15.00	15.50' LT	58.56	1	
M3-9	CB MH II	C.I.	41+15.00	16.39' RT	58.56	1	

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   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: _____ TITLE: _____
   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: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273
CONSULTANT

STATE OF ALASKA 49TH — Shane M. Blanchard — CE 11519 — REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED B
WISCONSIN STREET TO SPENARD ROAD

STORM DRAIN IMPROVEMENTS

McRAE ROAD
STA. 34+00 TO 41+50

SCALE HOR. 1"=30' VER. 1"=3' | DATE FEB 2012 | GRID 1627/1727/1728 | STATUS 95% DESIGN | SHEET SD3 of SD9

PRELIMINARY

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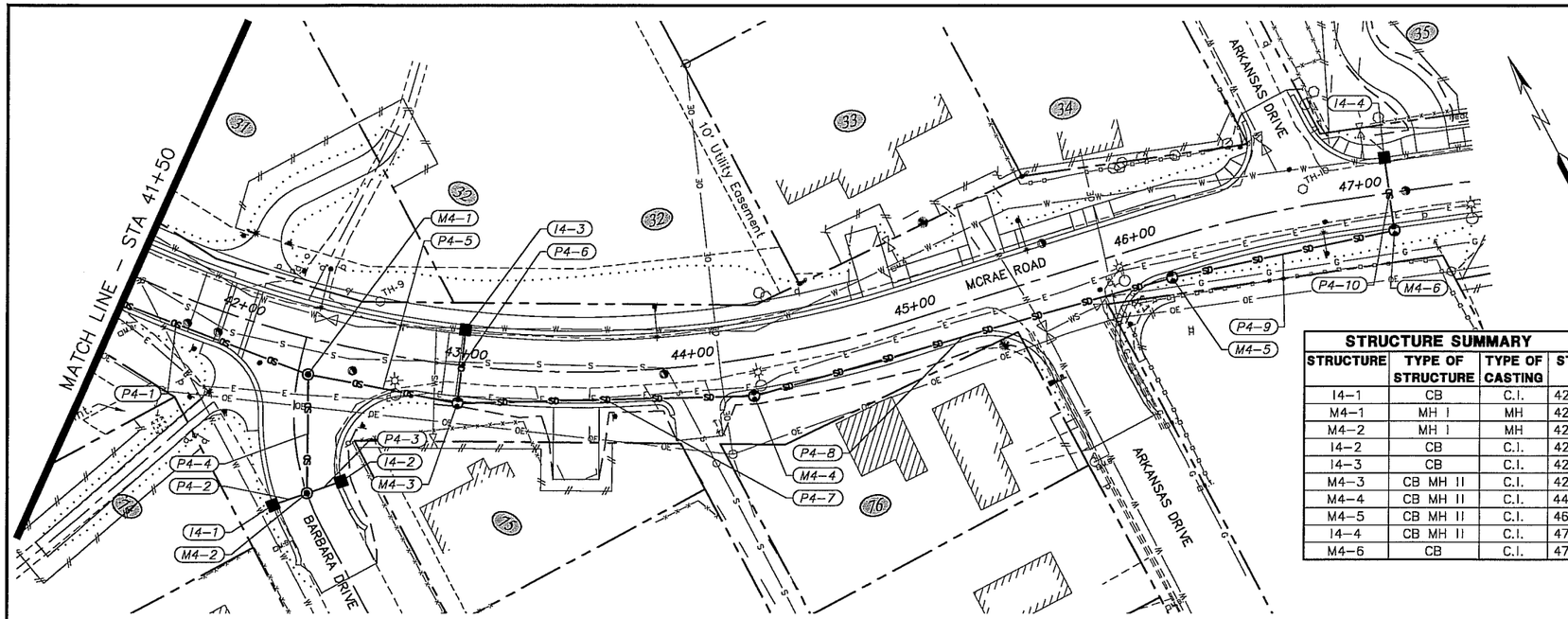
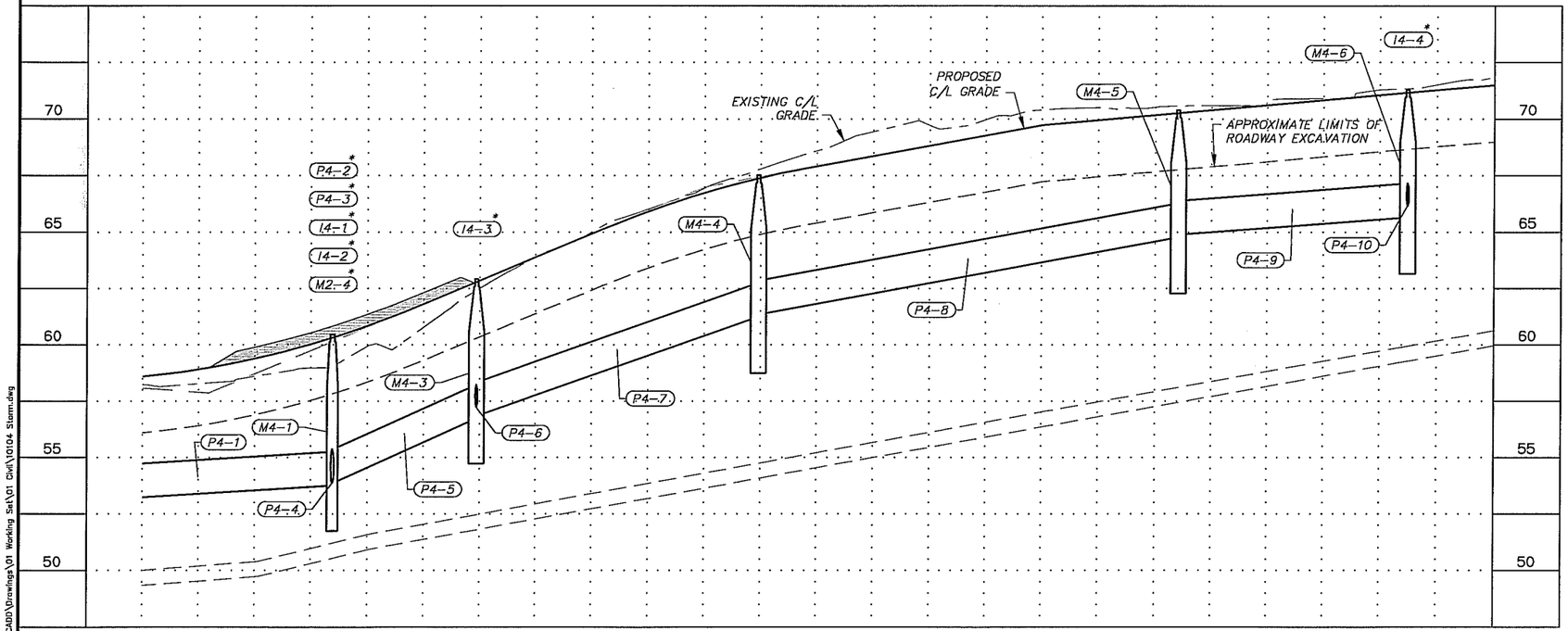


PRELIMINARY

STRUCTURE SUMMARY

STRUCTURE	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
I4–1	CB	C.I.	42+33.62	73.97' RT	59.15	2	
M4–1	MH I	MH	42+34.50	15.50' RT	60.47	N/A	
M4–2	MH I	MH	42+45.02	65.64' RT	59.25	N/A	
I4–2	CB	C.I.	42+56.95	57.53' RT	59.15	2	
I4–3	CB	C.I.	42+98.50	15.50' LT	62.92	1	
M4–3	CB MH II	C.I.	42+98.50	16.39' RT	62.92	1	
M4–4	CB MH II	C.I.	44+24.00	16.39' RT	67.50	1	
M4–5	CB MH II	C.I.	46+10.00	16.39' RT	70.39	1	
I4–4	CB MH II	C.I.	47+12.00	15.50' LT	71.29	1	
M4–6	CB	C.I.	47+12.00	16.39' RT	71.29	1	



PIPE SUMMARY

PIPE NAME	SIZE (IN.)	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P4–1	18	123.19	M4–1	M3–9	53.74	53.04	0.60%
P4–2	12	15.50	I4–1	M4–2	54.61	54.38	2.00%
P4–3	12	15.73	I4–2	M4–2	54.61	54.38	2.00%
P4–4	18	51.42	M4–2	M4–1	54.22	53.87	0.80%
P4–5	18	66.10	M4–3	M4–1	56.60	53.94	4.40%
P4–6	12	31.89	I4–3	M4–3	58.35	57.34	3.70%
P4–7	18	129.45	M4–4	M4–3	61.14	56.93	3.40%
P4–8	18	188.24	M4–5	M4–4	64.72	61.39	1.80%
P4–9	18	99.20	M4–6	M4–5	65.63	64.90	0.80%
P4–10	12	31.89	I4–4	M4–6	66.75	66.21	2.00%

NOTES:

1. *AN ASTERISK (*) DENOTES PIPE OR STRUCTURE NOT SHOWN IN PROFILE FOR CLARITY.*
2. *USE THE FOLLOWING ABBREVIATIONS:*

   CB = CATCH BASIN
   CB MH II = CATCH BASIN MANHOLE, TYPE II
   MH I = STORM DRAIN MANHOLE, TYPE I
   C.I. = CURB INLET
   MH = MANHOLE FRAME AND LID

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   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: _____ TITLE: _____
   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: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

CONSTRUCTION RECORD

GRAPHIC 60 30 0 30 60 SCALE

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books B5 & MOA 2007–01	GAA877	See MOA Benchmark Book Page D–20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562–3252
FAX: (907) 561–2273

CONSULTANT

STATE OF ALASKA 49TH — Shane M. Blanchard CE 11519 — REGISTERED PROFESSIONAL ENGINEER

SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

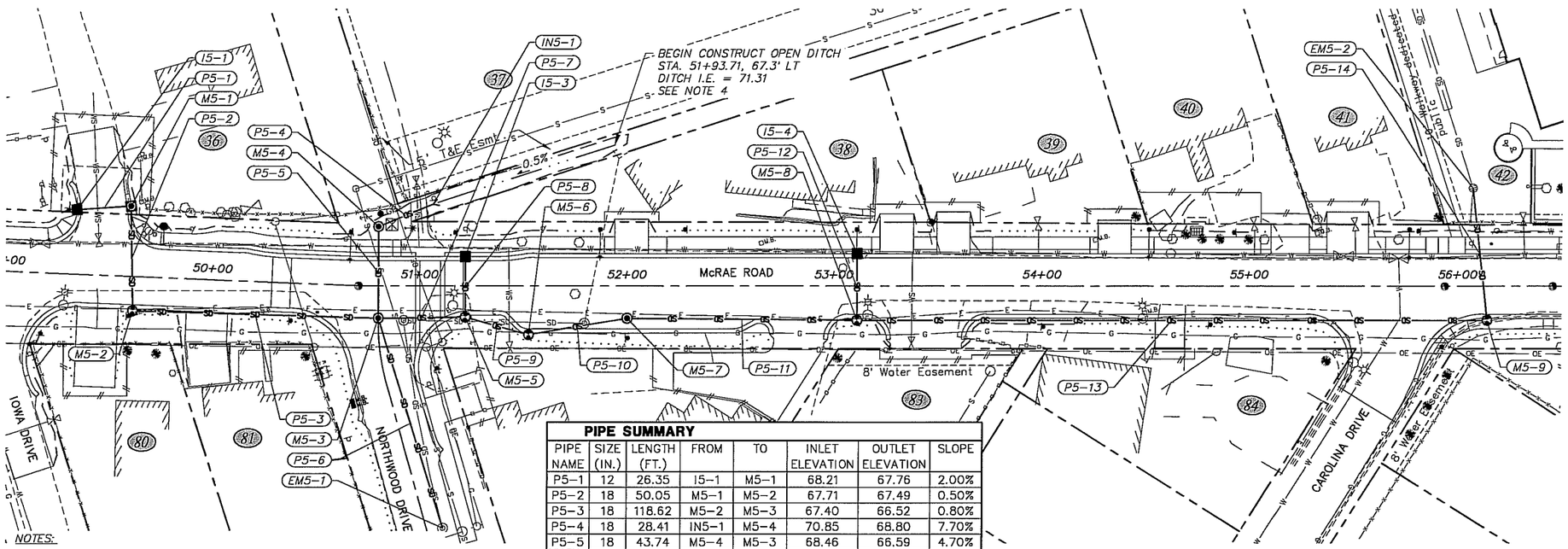
03–09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS WISCONSIN STREET TO SPENARD ROAD SCHED B

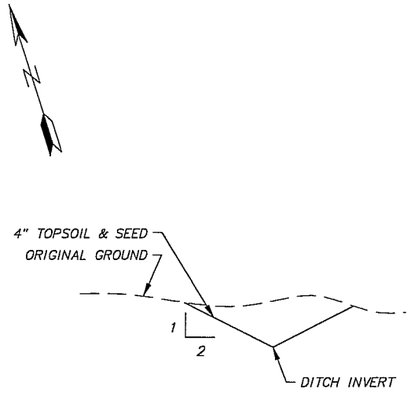
STORM DRAIN IMPROVEMENTS

MCRAE ROAD
STA. 34+00 TO 41+50

SCALE HOR. 1"=30' VER. 1"=3' | DATE FEB 2012 | GRID 1627/1727/1728 | STATUS 95% DESIGN | SHEET SD4 of SD9

File: I:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Storm.dwg





DITCH SECTION

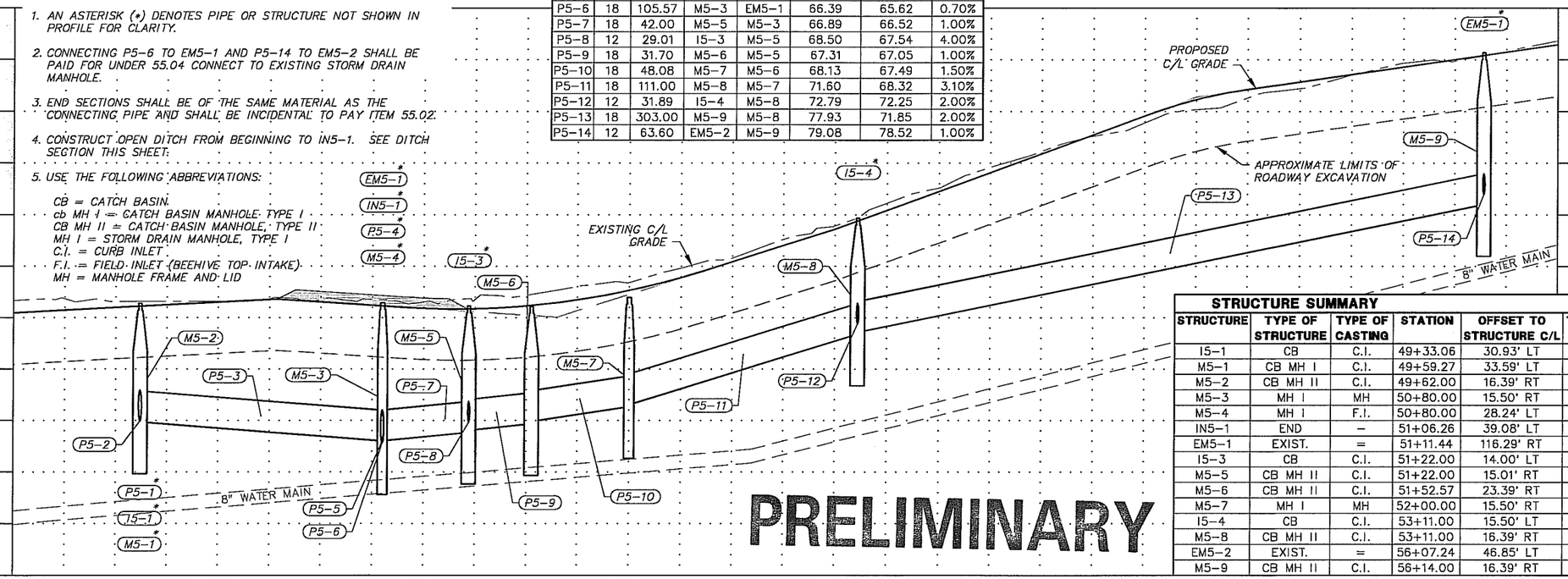
NOTES:

1. AN ASTERISK (*) DENOTES PIPE OR STRUCTURE NOT SHOWN IN PROFILE FOR CLARITY.
2. CONNECTING P5-6 TO EM5-1 AND P5-14 TO EM5-2 SHALL BE PAID FOR UNDER 55.04 CONNECT TO EXISTING STORM DRAIN MANHOLE.
3. END SECTIONS SHALL BE OF THE SAME MATERIAL AS THE CONNECTING PIPE AND SHALL BE INCIDENTAL TO PAY ITEM 55.02.
4. CONSTRUCT OPEN DITCH FROM BEGINNING TO IN5-1. SEE DITCH SECTION THIS SHEET.
5. USE THE FOLLOWING ABBREVIATIONS:

   CB = CATCH BASIN
   cb MH I = CATCH BASIN MANHOLE TYPE I
   CB MH II = CATCH BASIN MANHOLE, TYPE II
   MH I = STORM DRAIN MANHOLE, TYPE I
   C.I. = CURB INLET
   F.I. = FIELD INLET (BEEHIVE TOP INTAKE)
   MH = MANHOLE FRAME AND LID

PIPE SUMMARY

PIPE NAME	SIZE (IN.)	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P5-1	12	26.35	I5-1	M5-1	68.21	67.76	2.00%
P5-2	18	50.05	M5-1	M5-2	67.71	67.49	0.50%
P5-3	18	118.62	M5-2	M5-3	67.40	66.52	0.80%
P5-4	18	28.41	IN5-1	M5-4	70.85	68.80	7.70%
P5-5	18	43.74	M5-4	M5-3	68.46	66.59	4.70%
P5-6	18	105.57	M5-3	EM5-1	66.39	65.62	0.70%
P5-7	18	42.00	M5-5	M5-3	66.89	66.52	1.00%
P5-8	12	29.01	I5-3	M5-5	68.50	67.54	4.00%
P5-9	18	31.70	M5-6	M5-5	67.31	67.05	1.00%
P5-10	18	48.08	M5-7	M5-6	68.13	67.49	1.50%
P5-11	18	111.00	M5-8	M5-7	71.60	68.32	3.10%
P5-12	12	31.89	I5-4	M5-8	72.79	72.25	2.00%
P5-13	18	303.00	M5-9	M5-8	77.93	71.85	2.00%
P5-14	12	63.60	EM5-2	M5-9	79.08	78.52	1.00%



STRUCTURE SUMMARY

STRUCTURE	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
I5-1	CB	C.I.	49+33.06	30.93' LT	72.75	2	
M5-1	CB MH I	C.I.	49+59.27	33.59' LT	72.96	2	
M5-2	CB MH II	C.I.	49+62.00	16.39' RT	73.18	1	
M5-3	MH I	MH	50+80.00	15.50' RT	73.22	N/A	
M5-4	MH I	F.I.	50+80.00	28.24' LT	73.15	N/A	BEEHIVE TOP INTAKE
IN5-1	END	–	51+06.26	39.08' LT	–	–	INSTALL END SECTION
EM5-1	EXIST.	=	51+11.44	116.29' RT	–	–	CONNECT TO P5-6
I5-3	CB	C.I.	51+22.00	14.00' LT	73.08	1	
M5-5	CB MH II	C.I.	51+22.00	15.01' RT	73.05	1	
M5-6	CB MH II	C.I.	51+52.57	23.39' RT	73.04	1	
M5-7	MH I	MH	52+00.00	15.50' RT	73.47	N/A	
I5-4	CB	C.I.	53+11.00	15.50' LT	77.33	1	
M5-8	CB MH II	C.I.	53+11.00	16.39' RT	77.33	1	
EM5-2	EXIST.	=	56+07.24	46.85' LT	–	–	CONNECT TO P5-14
M5-9	CB MH II	C.I.	56+14.00	16.39' RT	85.33	1	

PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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: _____ TITLE: _____
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: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD, SUITE 300
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PHONE: (907) 562-3252
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CONSULTANT

STATE OF ALASKA 49TH
Shane M. Blanchard
CE 11519
REGISTERED PROFESSIONAL ENGINEER

SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

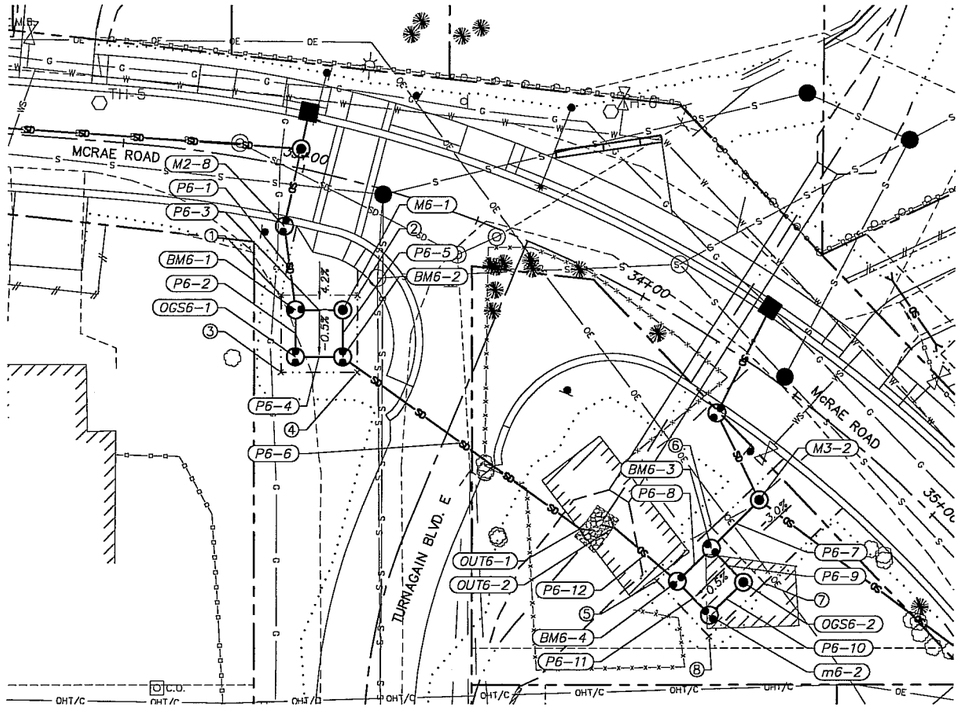
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED B
WISCONSIN STREET TO SPENARD ROAD

STORM DRAIN IMPROVEMENTS

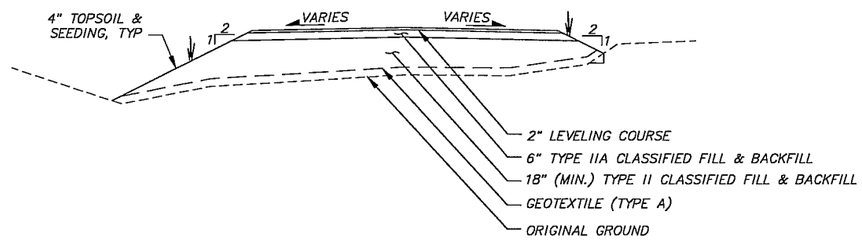
McRAE ROAD
STA. 49+00 TO 56+50

SCALE HOR. 1"=30' VER. 1"=3' | DATE FEB 2012 | GRID 1627/1727/1728 | STATUS 95% DESIGN | SHEET SD5 of SD9

File: J:\Vaboadata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Storm.dwg



1 SITE PLAN
SCALE: SEE GRAPHIC



2 OGS ACCESS AND PAD TYPICAL SECTION
SCALE: N.T.S.

STRUCTURE SUMMARY							
STRUCTURE	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
BM6–1	BM III	MH	33+06.96	37.89' RT	47.58	N/A	
OGS6–1	STC 2400	MH	33+10.42	50.37' RT	46.92	N/A	
M6–1	MH I	MH	33+20.97	34.65' RT	46.98	N/A	
BM6–2	BM II	MH	33+24.97	46.99' RT	47.52	N/A	
OUT6–1	END	N/A	34+19.04	63.37' RT	–	N/A	INSTALL END SECTION
OUT6–2	END	N/A	34+28.17	58.06' RT	–	N/A	INSTALL END SECTION
BM6–4	BM II	MH	34+55.60	59.96' RT	46.92	N/A	
BM6–3	BM III	MH	34+57.82	47.13' RT	46.98	N/A	
M6–2	MH I	MH	34+71.01	61.59' RT	46.92	N/A	
OGS6–2	STC 900	MH	34+72.59	48.68' RT	46.98	N/A	

NOTES:

1. SEE SHEET SD8 FOR BYPASS MANHOLE DETAILS.
2. SEE SHEET SD9 FOR OIL AND GRIT SEPARATOR AND END SECTION OUTFALL DETAILS.
3. END SECTIONS SHALL BE OF THE SAME MATERIAL AS THE CONNECTING PIPE AND SHALL BE INCIDENTAL TO PAY ITEM 55.02.
4. EXCAVATION, LEVELING COURSE, CLASSIFIED FILL AND BACKFILL, AND GEOTEXTILE USED TO CONSTRUCT THE ACCESS AND OGS PAD SHALL BE PAID FOR UNDER THE APPROPRIATE PAY ITEM UNDER SCHEDULE A.
5. USE THE FOLLOWING ABBREVIATIONS:

MH I = STORM DRAIN MANHOLE, TYPE I
BH II = BYPASS MANHOLE, TYPE II
BH III = BYPASS MANHOLE, TYPE III (96"ø)
STC 2400/900 = OIL & GRIT SEPARATOR MODEL NUMBER
END = PIPE END SECTION
MH = MANHOLE FRAME AND LID

PIPE SUMMARY							
PIPE NAME	SIZE (IN.)	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P6–1	18	22.96	M2–8	BM6–1	41.38	41.22	1.00%
P6–2	18	12.84	BM6–1	OGS6–1	41.06	40.99	1.00%
P6–3	18	12.97	BM6–1	M6–1	41.05	40.97	1.00%
P6–4	18	12.97	OGS6–1	BM6–2	40.83	40.76	1.00%
P6–5	18	12.84	M6–1	BM6–2	40.83	40.75	1.00%
P6–6	18	80.65	BM6–2	OUT6–1	40.57	38.91	2.10%
P6–7	18	18.05	M3–2	BM6–3	40.29	40.23	0.50%
P6–8	18	12.97	BM6–3	BM6–4	40.10	39.94	2.16%
P6–9	18	12.84	BM6–3	OGS6–2	40.15	40.11	0.50%
P6–10	18	12.97	OGS6–2	M6–2	40.04	40.00	0.50%
P6–11	18	12.84	M6–2	BM6–4	39.93	39.89	0.50%
P6–12	18	22.87	BM6–4	OUT6–2	39.71	38.90	4.10%

POINT SUMMARY - OGS PAD				
POINT	STATION	OFFSET (FT)	ELEV (FT)	DESCRIPTION
1	33+01.61	34.89' RT	47.60	
2	33+24.03	29.70' RT	47.60	
3	33+07.00	55.36' RT	47.50	
4	33+30.84	49.81' RT	47.50	
5	34+50.04	63.29' RT	46.90	
6	34+53.96	42.55' RT	47.00	
7	34+77.80	45.06' RT	47.00	
8	34+75.59	65.98' RT	46.90	

NOTE: UNLESS OTHERWISE NOTED, ALL POINTS ARE TO TOP OF PAD

PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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COMPANY: _____ DATE: _____
BY: _____

CONSTRUCTION RECORD

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

GRAPHIC SCALE 40 20 0 20 40

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273
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Shane M. Blanchard
CE 11519
REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

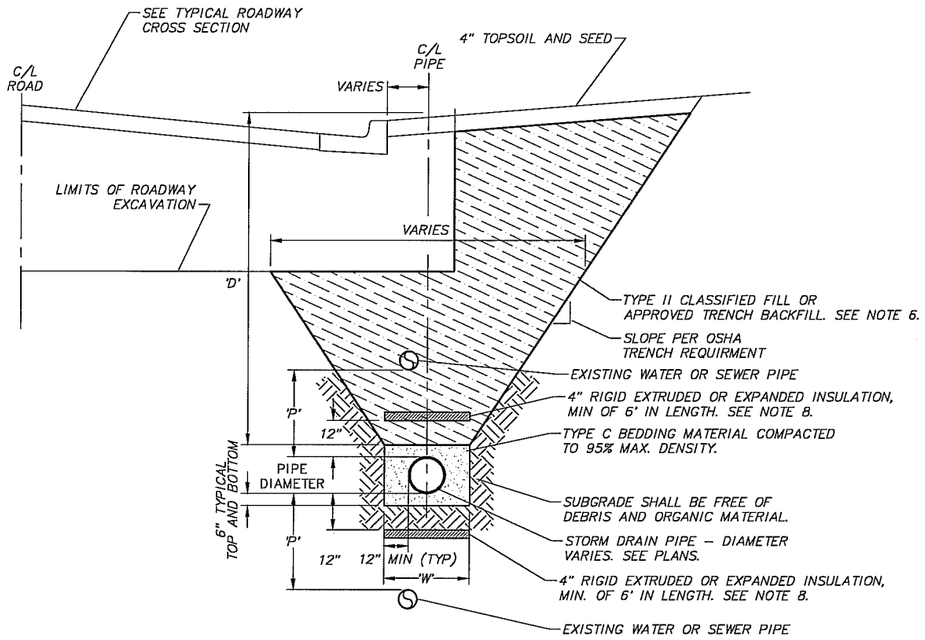
03–09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED B
WISCONSIN STREET TO SPENARD ROAD

STORM DRAIN IMPROVEMENTS

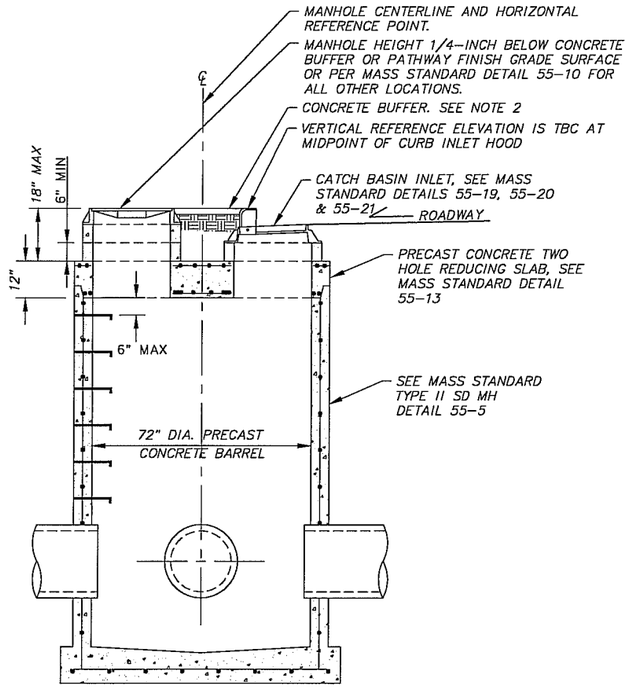
OGS SITE PLAN

SCALE HOR. 1"=20' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET SD6 of SD9

File: J:\Projects\10104 - 35th & McRae\00 CAD\Drawings\01 Working Set\01 Civil\10104 Storm OGS.dwg



1 TYPICAL STORM DRAIN TRENCH SECTION
SCALE: N.T.S.



2 TYPE II STORM DRAIN CATCH BASIN MANHOLE
SCALE: NTS

STORM DRAIN NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL ENCOUNTERED UTILITIES, AND TO RECORD ANY CHANGES ON THE CONTRACTOR'S RECORD DRAWINGS.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2009 MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS REVISION 1 (MASS) AS CURRENTLY AMENDED.
3. STORM DRAINAGE PIPE SHALL BE CPEP (TYPE S).
4. TRENCH WALL SLOPES SHALL VARY WITH SOIL STRENGTH CHARACTERISTICS AND SHALL CONFORM TO ALL APPLICABLE SAFETY STANDARDS.
5. NATIVE SOIL MEETING THE REQUIREMENTS OF TYPE II CLASSIFIED MATERIAL, AS SPECIFIED IN MASS, CAN BE USED FOR TRENCH BACKFILL.
6. INSTALL 4" OF INSULATION WITH R-VALUE OF 20, WHEN THE FOLLOWING CONDITIONS EXIST:
   - 'D' IS LESS THAN 4'. INSULATION PLACEMENT SHALL CONFORM TO MASS DETAIL 20-9.
   - 'P' IS LESS THAN 3'. AS MEASURED FROM OUTSIDE OF PIPES AND WITHIN 'W'.

TYPE II STORM DRAIN CATCH BASIN MANHOLE NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2009 MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS, REVISION 1 (MASS) AS CURRENTLY AMENDED AND AS MODIFIED ON THIS DETAIL.
2. SOME LOCATIONS PLACE THE MH COVER WITHIN BOTH PATHWAY AND CONCRETE BUFFER. MANHOLE LIDS AT THIS LOCATION SHALL BE INSTALLED 1/4-INCH BELOW PATHWAY OR CONCRETE BUFFER FINISH GRADE SURFACE.

PRELIMINARY

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PROFILE	JK	BCM
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WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

GRAPHIC SCALE

CONSTRUCTION RECORD

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

VERTICAL DATUM

REVISIONS

REV	DATE	DESCRIPTION	BY

CONSULTANT
CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
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PHONE: (907) 562-3252
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SEAL
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Shane M. Blanchard
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PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

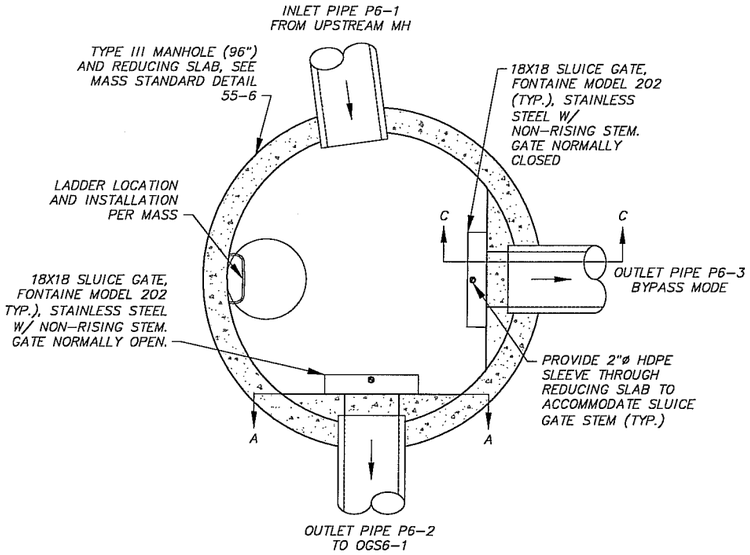
03-09 36th AVENUE AND McRAE ROAD IMPROVEMENTS SCHED B
WISCONSIN STREET TO SPENARD ROAD

STORM DRAIN IMPROVEMENTS

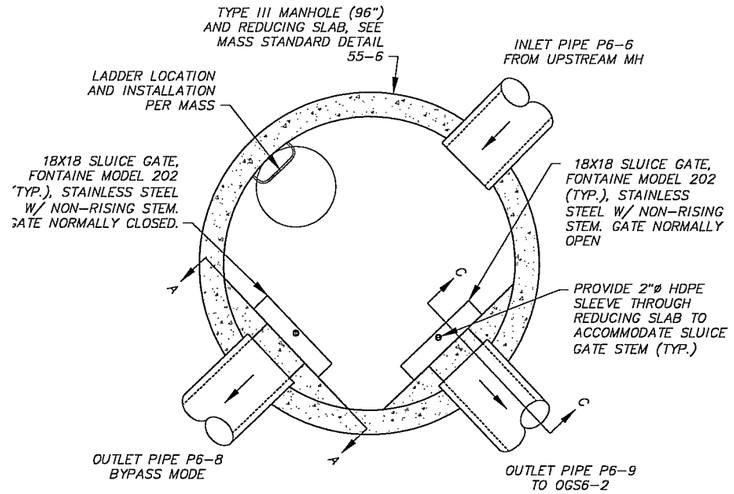
TYPICAL SECTION & MANHOLE DETAILS

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET SD7 of SD9

File: J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Storm Details.dwg



BYPASS MANHOLE BM6-1



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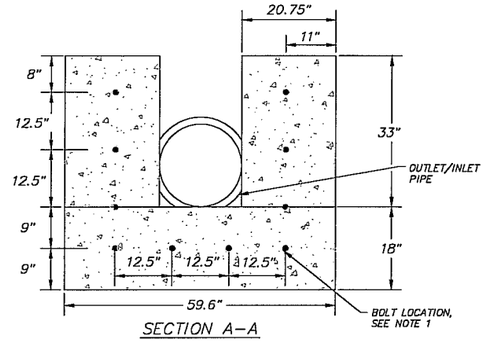
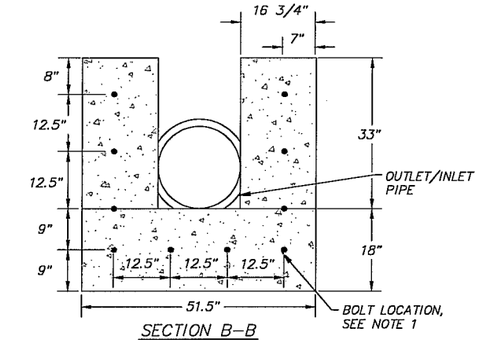
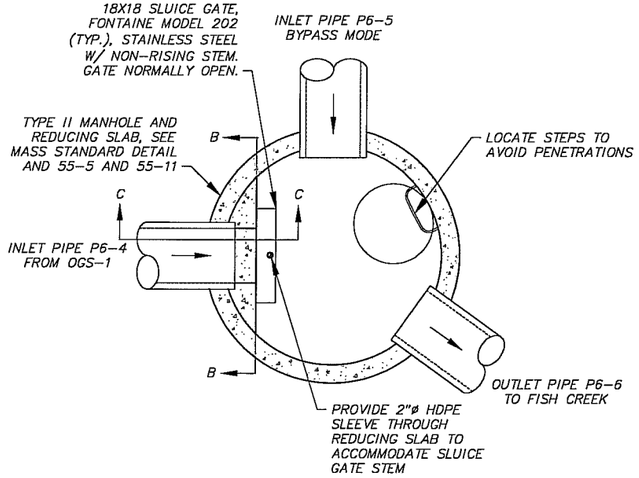


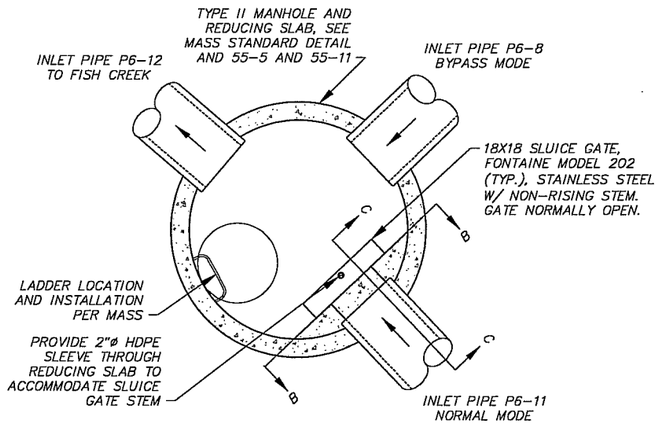
SECTION A-A



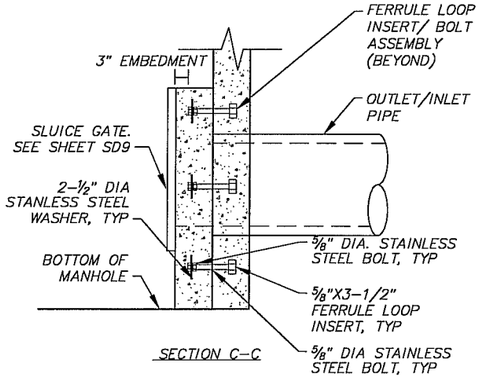
SECTION B-B



BYPASS MANHOLE BM6-2



BYPASS MANHOLE BM6-4



SECTION C-C

PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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CONTRACTOR: _____
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TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

GRAPHIC SCALE

FIELD BOOKS	
DESIGN	CRW Books 85 & MOA 2007-01
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	
CONSTRUCTION RECORD	

TBM NO.	LOCATION	ELEV.
GAAB77	See MOA Benchmark Book Page D-20	99.89

BASIS OF THIS DATUM GAAB 1972 Adjust
VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
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PHONE: (907) 562-3252
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Shane M. Blanchard
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MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

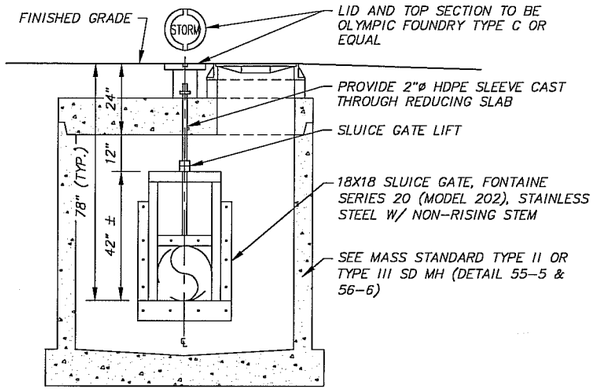
03-09 37th AVENUE AND McRAE ROAD IMPROVEMENTS SCHED B
WISCONSIN STREET TO SPENARD ROAD

STORM DRAIN IMPROVEMENTS

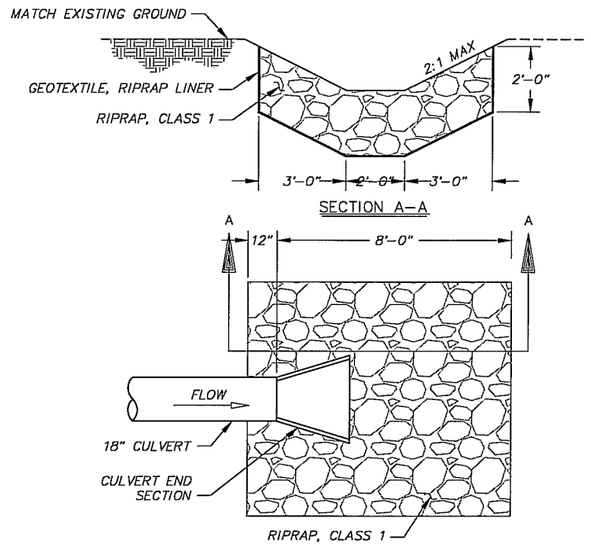
BYPASS MANHOLE DETAILS

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET SD8 of SD9

File: K:\Jobsdata\Y0104 35th & McRae\200 CADD\Drawings\01 Working Set\01 Civil\Y0104 Storm Details.dwg

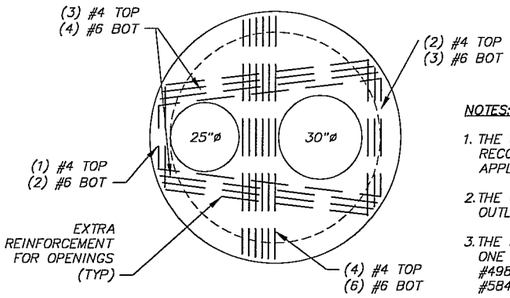


1 SLUICE GATE INSTALLATION DETAIL
SCALE: N.T.S.

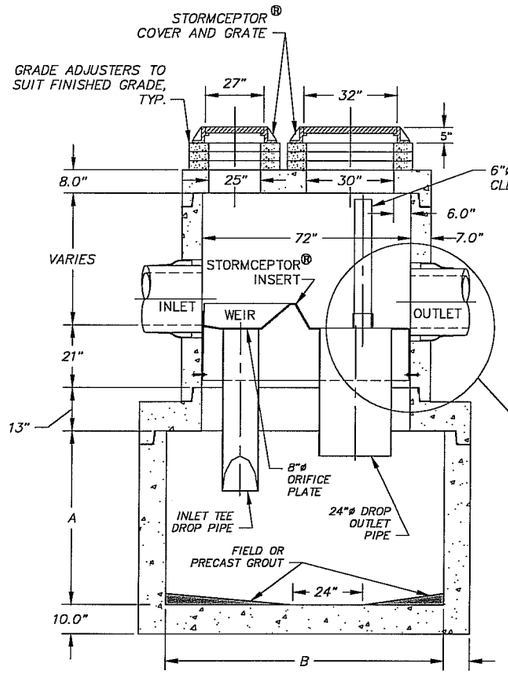


NOTES:
1. AT LEAST HALF OF THE MEDIAN ROCK SIZE SHALL BE 6" MINIMUM DIAMETER.
2. PAYMENT FOR RIPRAP LINER SHALL BE INCIDENTAL TO RIPRAP, CLASS 1.

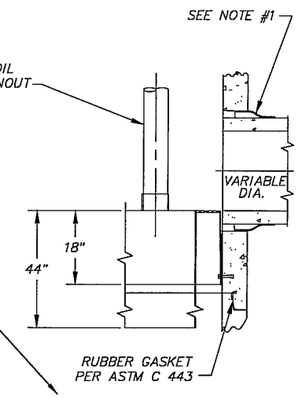
2 OUTLET EROSION PROTECTION (OGS OUTLET PIPES)
SCALE: N.T.S.



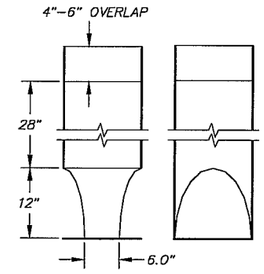
NOTES:
1. THE USE OF FLEXIBLE CONNECTIONS IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
2. THE COVER SHOULD BE POSITIONED OVER THE OUTLET DROP PIPE AND THE OIL CLEANOUT PIPE.
3. THE STORMCEPTOR® SYSTEM IS PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: #4985148, #5498331, #5725760, #5753115, #5849181.
4. THE MANHOLE STRUCTURE SHALL BE A TYPE II MANHOLE CONFORMING M.A.S.S. STD. DETAIL 55.04, AS MODIFIED HERE, WITH 72" TO 96" REDUCING SLAB SIMILAR TO M.A.S.S. STD. DETAIL 55-16.



SECTION THRU CHAMBER



OUTLET CONNECTION DETAIL



ENLARGED INLET TEE DROP PIPE

MODEL	STC 2400	STC 900
A (HT.)	60"	29"
B (DIA.)	96"	72"

2 OIL & GRIT SEPARATOR (OGS) MANHOLE
SCALE: N.T.S.

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TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

GRAPHIC SCALE

CONSTRUCTION RECORD

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
AS-BUILT			
CONTRACTOR			
INSPECTOR			

VERTICAL DATUM
BASIS OF THIS DATUM GAAB 1972 Adjust

REVISIONS

REV	DATE	DESCRIPTION	BY

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE (907) 562-3252
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PROJECT MANAGEMENT AND ENGINEERING DIVISION

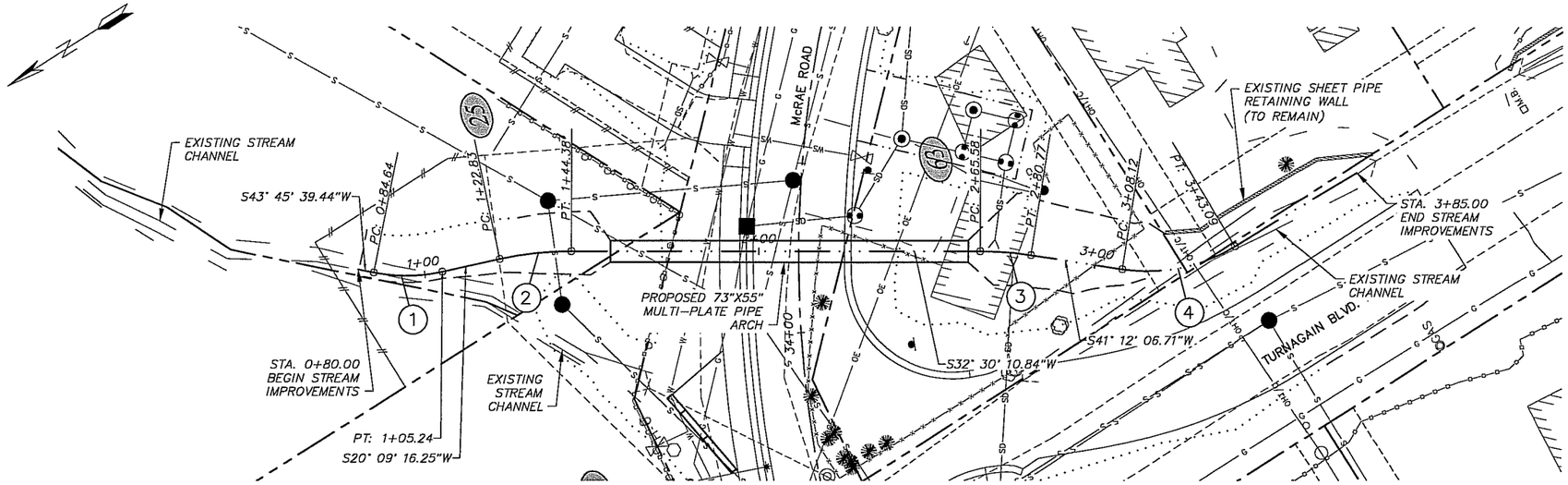
03-09 38th AVENUE AND McRAE ROAD IMPROVEMENTS SCHED B
WISCONSIN STREET TO SPENARD ROAD

STORM DRAIN IMPROVEMENTS

SLUICE GATE, OGS AND OUTFALL DETAILS

SCALE HOR. N/A VER. N/A
DATE FEB 2012
GRID1627/1727/1728
STATUS 95% DESIGN
SHEET SD9 of SD9

File: J:\Jobsdata\10104 38th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Storm Details.dwg



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E =	329950.4124
PI	0+95.09
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T =	10.448
L =	20.601
R =	50.00

②	
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E =	329913.9394
PI	1+33.64
Δ =	12°20'54.60" RT
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L =	21.552
R =	100.00

③	
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PI	2+73.19
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L =	15.182
R =	100.00

④	
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T =	18.236
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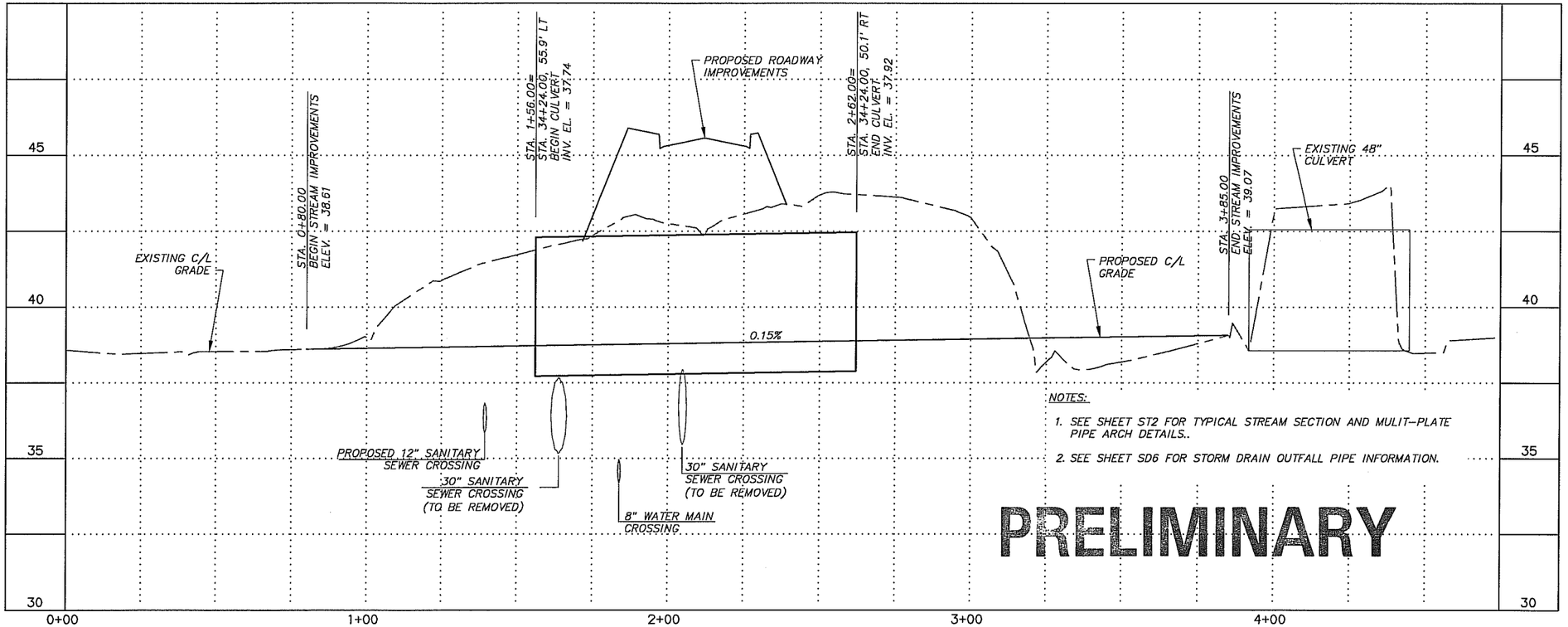
R =	50.00



NOTES:

1. SEE SHEET ST2 FOR TYPICAL STREAM SECTION AND MULIT-PLATE PIPE ARCH DETAILS..
2. SEE SHEET SD6 FOR STORM DRAIN OUTFALL PIPE INFORMATION.

PRELIMINARY

RECORD DRAWING

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PROFILE	JK	BCM
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GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

GRAPHIC SCALE 40 20 0 40 20

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
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FAX: (907) 561-2273

CONSULTANT

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MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

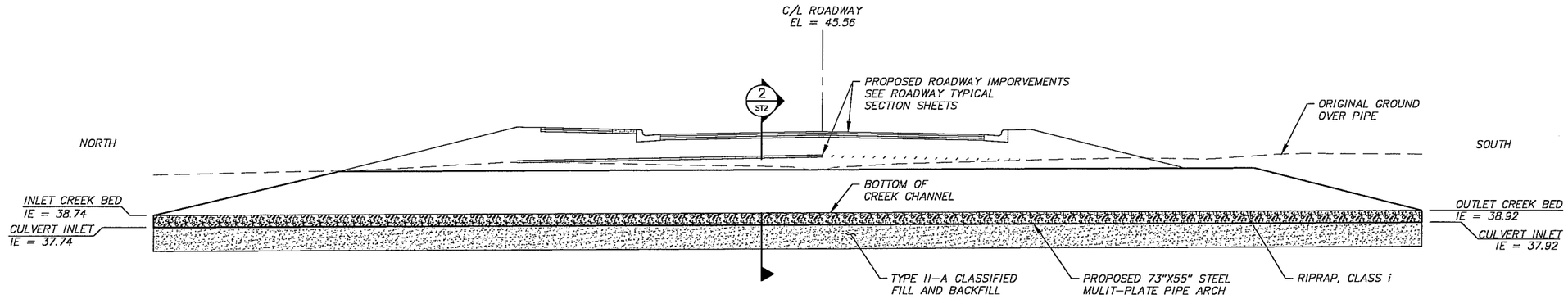
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED B
WISCONSIN STREET TO SPENARD ROAD

FISH CREEK STREAM IMPROVEMENTS

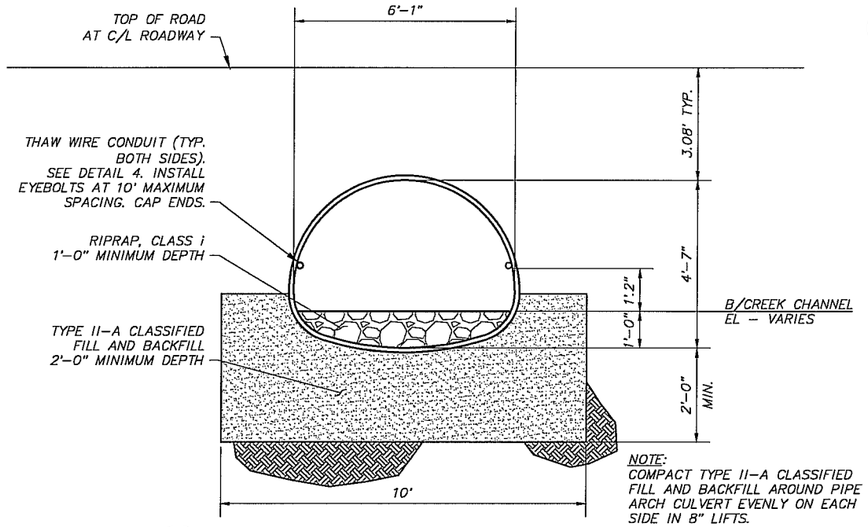
PLAN AND PROFILE

SCALE HOR. 1"=20'
VER. 1"=2'
DATE FEB 2012
GRID1627/1727/1728
STATUS 95% DESIGN
SHEET ST1 of ST2

File: J:\Jobsdata\10104 35th & McRae\DO CADD\Drawings\01 Working Set\01 Civil\10104 Stream.dwg

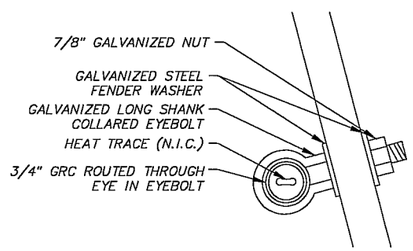


1 MULTI-PLATE PIPE ARCH 73"X55" PROFILE
SCALE: N.T.S.

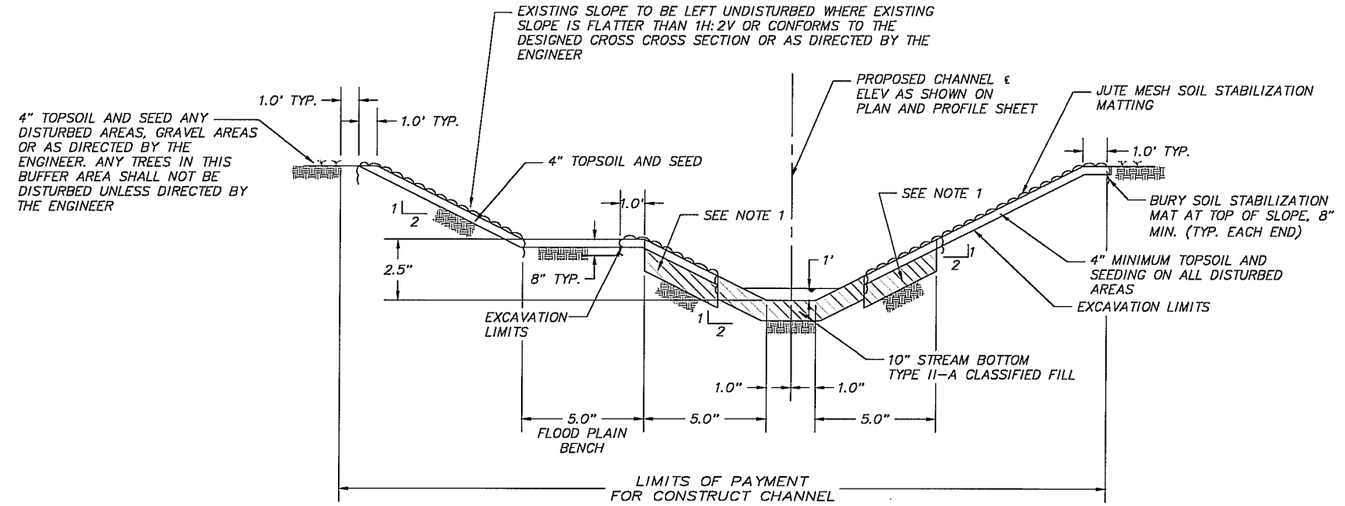


NOTE:
COMPACT TYPE II-A CLASSIFIED FILL AND BACKFILL AROUND PIPE ARCH CULVERT EVENLY ON EACH SIDE IN 8" LIFTS.

3 MULTI-PLATE PIPE ARCH SECTION
SCALE: N.T.S.



4 CONDUIT AND EYEBOLT DETAIL
SCALE: N.T.S.



PRELIMINARY

NOTES:

1. WHERE FILL IS REQUIRED TO ATTAIN PROPOSED CREEK CROSS SECTION, FILL MATERIAL SHALL BE USABLE EXCAVATION, TYPE III CLASSIFIED FILL OR OTHER SUITABLE ORGANIC FREE MATERIAL AS APPROVED BY THE ENGINEER. ALL VEGETATION AND ORGANIC MATERIAL TO BE REMOVED AND DISPOSED OFF-SITE PRIOR TO PLACEMENT OF FILL MATERIAL.

3 STREAM DETAIL
SCALE: N.T.S.

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.
CONTRACTOR: _____
BY: _____ TITLE: _____ DATE: _____
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TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

GRAPHIC SCALE

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	69.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			
CONSTRUCTION RECORD	VERTICAL DATUM		

REV	DATE	DESCRIPTION	BY

REVISIONS

HDR Alaska, Inc.
CONSULTANT

STATE OF ALASKA
49TH
DANIEL W. BILLMAN
CE 7729
REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED B
WISCONSIN STREET TO SPENARD ROAD

FISH CREEK STREAM IMPROVEMENTS

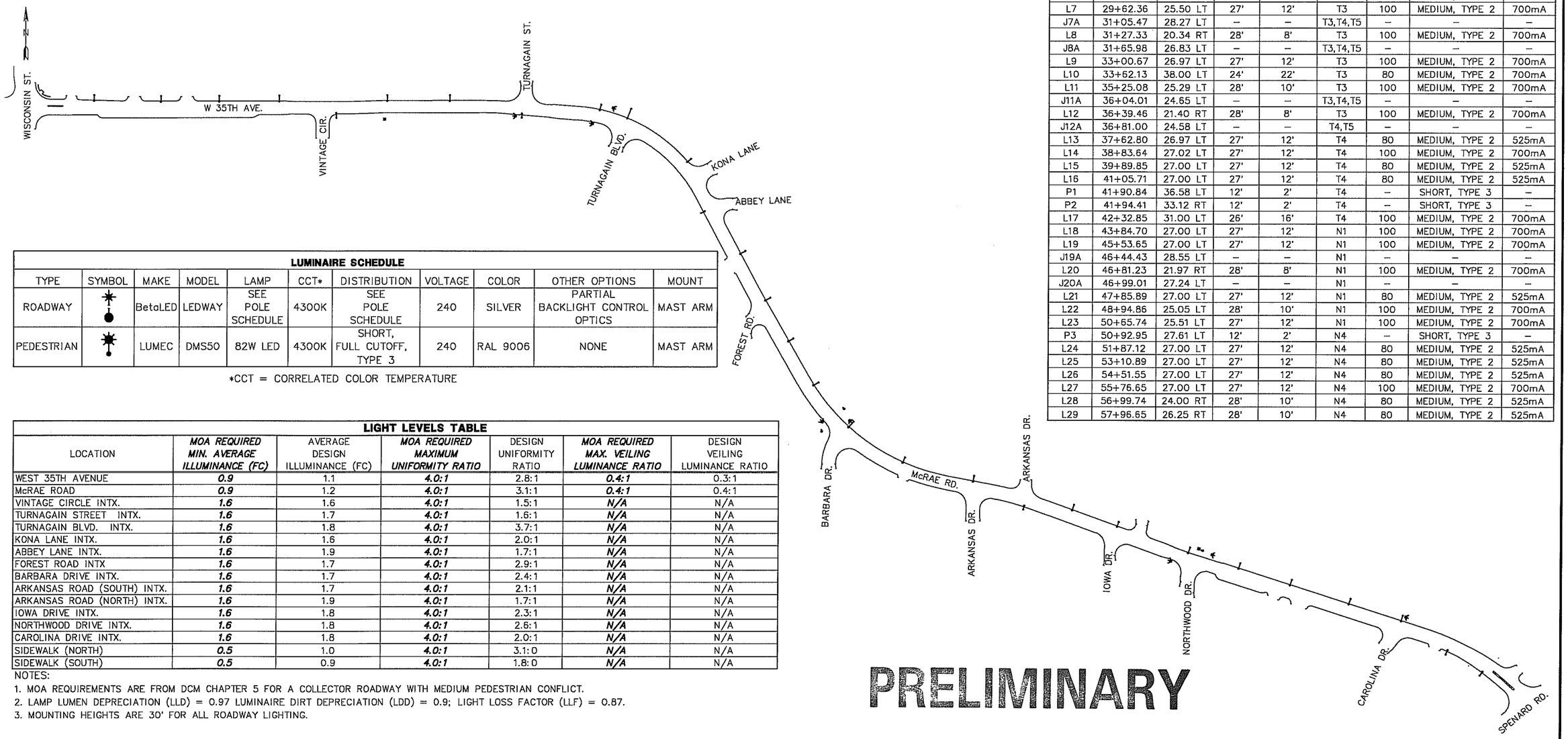
MULTI-PLATE PIPE ARCH AND
TYPICAL SECTIONS

SCALE HOR. N/A VER. N/A | GRID FEB 2012 1627/1727/1728 | DATE 95% DESIGN STATUS | SHEET ST2 of ST2

File: J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 Stream DetaSe.dwg

LIGHTING NOTES:

1. PROVIDE HOT DIP GALVANIZED STEEL POLES WITH MAST ARMS PER MOA STANDARDS DETAIL 80-19 AND 80-20, RESPECTIVELY. SEE POLE SCHEDULE FOR POLE SHAFT AND MAST ARM LENGTHS.
2. PROVIDE STEEL PIPE PILE FOUNDATIONS PER MOA DETAIL 80-13.
3. INSTALL THE POLES WITH SLIP BASES PER MOA DETAIL 80-21.
4. APPROVED EQUALS SHALL PROVIDE THE LIGHT LEVELS AND UNIFORMITIES INDICATED IN THE LIGHT LEVELS TABLE.
5. PROVIDE ALL LUMINAIRES WITH FULL CUTOFF LIGHT DISTRIBUTIONS.
6. PROVIDE ALL RIGID METAL CONDUIT (RMC) WITH A BARE 8 AWG GROUND FOR ALL RACEWAYS.
7. PROVIDE ONE SPARE RMC (SIZED PER CROSSING) WITH PULL ROPE BETWEEN THE JUNCTION BOXES ADJACENT TO EVERY ROAD CROSSING.
8. PROVIDE A 3 CONDUCTOR 8 AWG CABLE FOR EACH BRANCH CIRCUIT.
9. INSTALL A TYPE 1A LOAD CENTER AT THE LOCATION SHOWN IN EACH LOAD CENTER SUMMARY.
10. IN THE DRAWINGS, EACH JUNCTION BOX HAS THE SAME IDENTIFYING NUMBER AS THE LIGHT POLE OR SIGN NEXT TO IT. FOR JUNCTION BOXES LOCATED BETWEEN POLES, THE IDENTIFYING NUMBER INCLUDES THE SMALLER OF THE TWO POLE NUMBERS BETWEEN WHICH THE JUNCTION BOX IS LOCATED AND AN "A" SUFFIX. DO NOT INSTALL JUNCTION BOXES IN SIDEWALKS OR TRAILS.



LUMINAIRE SCHEDULE

TYPE	SYMBOL	MAKE	MODEL	LAMP	CCT*	DISTRIBUTION	VOLTAGE	COLOR	OTHER OPTIONS	MOUNT
ROADWAY		BetaLED	LEDWAY	SEE POLE SCHEDULE	4300K	SEE POLE SCHEDULE	240	SILVER	PARTIAL BACKLIGHT CONTROL OPTICS	MAST ARM
PEDESTRIAN		LUMEC	DMS50	82W LED	4300K	SHORT, FULL CUTOFF, TYPE 3	240	RAL 9006	NONE	MAST ARM

*CCT = CORRELATED COLOR TEMPERATURE

LIGHT LEVELS TABLE

LOCATION	*MOA REQUIRED MIN. AVERAGE ILLUMINANCE (FC)*	AVERAGE DESIGN ILLUMINANCE (FC)	*MOA REQUIRED MAXIMUM UNIFORMITY RATIO*	DESIGN UNIFORMITY RATIO	*MOA REQUIRED MAX. VEILING LUMINANCE RATIO*	DESIGN VEILING LUMINANCE RATIO
WEST 35TH AVENUE	*0.9*	1.1	*4.0:1*	2.8:1	*0.4:1*	0.3:1
McRAE ROAD	*0.9*	1.2	*4.0:1*	3.1:1	*0.4:1*	0.4:1
VINTAGE CIRCLE INTX.	*1.6*	1.6	*4.0:1*	1.5:1	*N/A*	N/A
TURNAGAIN STREET INTX.	*1.6*	1.7	*4.0:1*	1.6:1	*N/A*	N/A
TURNAGAIN BLVD. INTX.	*1.6*	1.8	*4.0:1*	3.7:1	*N/A*	N/A
KONA LANE INTX.	*1.6*	1.6	*4.0:1*	2.0:1	*N/A*	N/A
ABBEY LANE INTX.	*1.6*	1.9	*4.0:1*	1.7:1	*N/A*	N/A
FOREST ROAD INTX	*1.6*	1.7	*4.0:1*	2.9:1	*N/A*	N/A
BARBARA DRIVE INTX.	*1.6*	1.7	*4.0:1*	2.4:1	*N/A*	N/A
ARKANSAS ROAD (SOUTH) INTX.	*1.6*	1.7	*4.0:1*	2.1:1	*N/A*	N/A
ARKANSAS ROAD (NORTH) INTX.	*1.6*	1.9	*4.0:1*	1.7:1	*N/A*	N/A
IOWA DRIVE INTX.	*1.6*	1.8	*4.0:1*	2.3:1	*N/A*	N/A
NORTHWOOD DRIVE INTX.	*1.6*	1.8	*4.0:1*	2.6:1	*N/A*	N/A
CAROLINA DRIVE INTX.	*1.6*	1.8	*4.0:1*	2.0:1	*N/A*	N/A
SIDEWALK (NORTH)	*0.5*	1.0	*4.0:1*	3.1:0	*N/A*	N/A
SIDEWALK (SOUTH)	*0.5*	0.9	*4.0:1*	1.8:0	*N/A*	N/A

NOTES:
1. MOA REQUIREMENTS ARE FROM DCM CHAPTER 5 FOR A COLLECTOR ROADWAY WITH MEDIUM PEDESTRIAN CONFLICT.
2. LAMP LUMEN DEPRECIATION (LLD) = 0.97 LUMINAIRE DIRT DEPRECIATION (LDD) = 0.9; LIGHT LOSS FACTOR (LLF) = 0.87.
3. MOUNTING HEIGHTS ARE 30' FOR ALL ROADWAY LIGHTING.

POLE/JBOX SCHEDULE LIGHTING

POLE/ JBOX	STATION	OFFSET	SHAFT LENGTH	MAST ARM LENGTH	CIRCUIT	# OF LED	DISTRIBUTION	DRIVE CURRENT
L1	21+55.62	29.23 LT	27'	12'	T1	100	MEDIUM, TYPE 2	350mA
L2	23+06.25	26.99 LT	27'	12'	T1	100	MEDIUM, TYPE 2	350mA
L3	24+38.90	26.97 LT	27'	12'	T1	100	MEDIUM, TYPE 2	350mA
L4	25+75.29	27.44 LT	27'	12'	T1	80	MEDIUM, TYPE 2	525mA
L5	27+04.79	23.21 RT	28'	10'	T6	100	MEDIUM, TYPE 2	700mA
J5A	27+13.78	28.81 LT	–	–	T1	–	–	–
L6	28+20.14	25.50 LT	27'	12'	T1	80	MEDIUM, TYPE 2	700mA
L7	29+62.36	25.50 LT	27'	12'	T3	100	MEDIUM, TYPE 2	700mA
J7A	31+05.47	28.27 LT	–	–	T3,T4,T5	–	–	–
L8	31+27.33	20.34 RT	28'	8'	T3	100	MEDIUM, TYPE 2	700mA
J8A	31+65.98	26.83 LT	–	–	T3,T4,T5	–	–	–
L9	33+00.67	26.97 LT	27'	12'	T3	100	MEDIUM, TYPE 2	700mA
L10	33+62.13	38.00 LT	24'	22'	T3	80	MEDIUM, TYPE 2	700mA
L11	35+25.08	25.29 LT	28'	10'	T3	100	MEDIUM, TYPE 2	700mA
J11A	36+04.01	24.65 LT	–	–	T3,T4,T5	–	–	–
L12	36+39.46	21.40 RT	28'	8'	T3	100	MEDIUM, TYPE 2	700mA
J12A	36+81.00	24.58 LT	–	–	T4,T5	–	–	–
L13	37+62.80	26.97 LT	27'	12'	T4	80	MEDIUM, TYPE 2	525mA
L14	38+83.64	27.02 LT	27'	12'	T4	100	MEDIUM, TYPE 2	700mA
L15	39+89.85	27.00 LT	27'	12'	T4	80	MEDIUM, TYPE 2	525mA
L16	41+05.71	27.00 LT	27'	12'	T4	80	MEDIUM, TYPE 2	525mA
P1	41+90.84	36.58 LT	12'	2'	T4	–	SHORT, TYPE 3	–
P2	41+94.41	33.12 RT	12'	2'	T4	–	SHORT, TYPE 3	–
L17	42+32.85	31.00 LT	26'	16'	T4	100	MEDIUM, TYPE 2	700mA
L18	43+84.70	27.00 LT	27'	12'	N1	100	MEDIUM, TYPE 2	700mA
L19	45+53.65	27.00 LT	27'	12'	N1	100	MEDIUM, TYPE 2	700mA
J19A	46+44.43	28.55 LT	–	–	N1	–	–	–
L20	46+81.23	21.97 RT	28'	8'	N1	100	MEDIUM, TYPE 2	700mA
J20A	46+99.01	27.24 LT	–	–	N1	–	–	–
L21	47+85.89	27.00 LT	27'	12'	N1	80	MEDIUM, TYPE 2	525mA
L22	48+94.86	25.05 LT	28'	10'	N1	100	MEDIUM, TYPE 2	700mA
L23	50+65.74	25.51 LT	27'	12'	N1	100	MEDIUM, TYPE 2	700mA
P3	50+92.95	27.61 LT	12'	2'	N4	–	SHORT, TYPE 3	–
L24	51+87.12	27.00 LT	27'	12'	N4	80	MEDIUM, TYPE 2	525mA
L25	53+10.89	27.00 LT	27'	12'	N4	80	MEDIUM, TYPE 2	525mA
L26	54+51.55	27.00 LT	27'	12'	N4	80	MEDIUM, TYPE 2	525mA
L27	55+76.65	27.00 LT	27'	12'	N4	100	MEDIUM, TYPE 2	700mA
L28	56+99.74	24.00 RT	28'	10'	N4	80	MEDIUM, TYPE 2	525mA
L29	57+96.65	26.25 RT	28'	10'	N4	80	MEDIUM, TYPE 2	525mA

PRELIMINARY

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TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
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CONSULTANT

STATE OF ALASKA 49TH — WILLIAM M. MCDONALD — EE-7879 — REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

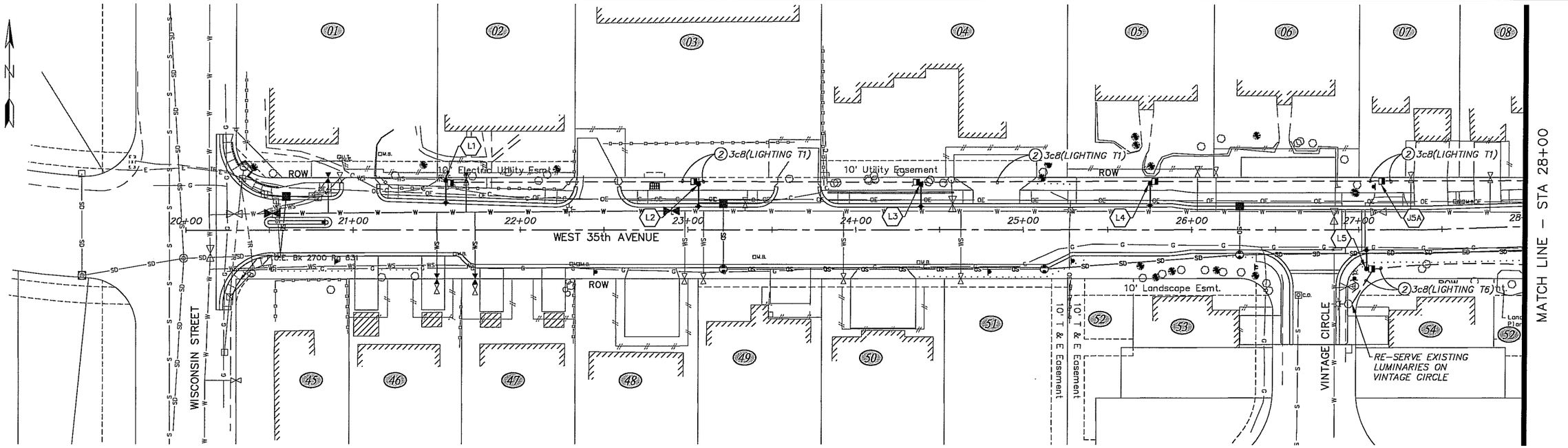
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED C
WISCONSIN STREET TO SPENARD ROAD

ILLUMINATION SITE PLAN, NOTES & LUMINAIRE SCHEDULE

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID 1627/1727/1728 | STATUS 95% DESIGN | SHEET 11 of 111

File: J:\Jobsdata\01014 35th & McRae\00 CADD\Drawings\01 Working Set\03 Electrical\01014 Illumination E1-E6.dwg



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PLAN CHECK

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PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
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DESIGN	JK	BCM
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MUNICIPAL/STATE	JK	BCM

GRAPHIC SCALE 30 0 30 60 90

CONSTRUCTION RECORD

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
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STAKING			
AS-BUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

VERTICAL DATUM

REVISIONS

REV	DATE	DESCRIPTION	BY

CONSULTANT

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273

SEAL

STATE OF ALASKA 49TH
WILLIAM M. MCDONALD
EE-7879
REGISTERED PROFESSIONAL ENGINEER

MUNICIPALITY OF ANCHORAGE

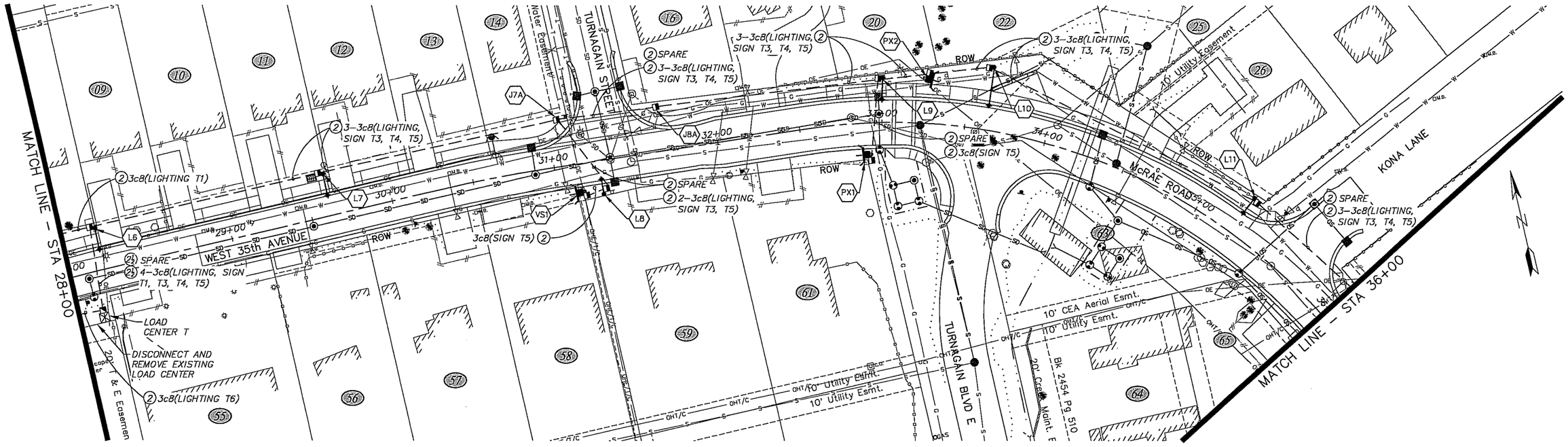
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED C
WISCONSIN STREET TO SPENARD ROAD

ILLUMINATION PLAN:
BOP TO STA. 28+00

SCALE HOR. 1"=30' VER. N/A | DATE FEB 2012 | GRID 1627/1727/1728 | STATUS 95% DESIGN | SHEET 12 of 111

File: J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\03 Electrical\10104 Illumination E1-E6.dwg



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GRAPHIC SCALE 30 0 30 60 90

CONSTRUCTION RECORD

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

VERTICAL DATUM

REVISIONS

REV	DATE	DESCRIPTION	BY

CONSULTANT

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
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PHONE: (907) 562-3252
FAX: (907) 561-2273

SEAL

STATE OF ALASKA 49TH
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EE-7879
REGISTERED PROFESSIONAL ENGINEER

MUNICIPALITY OF ANCHORAGE

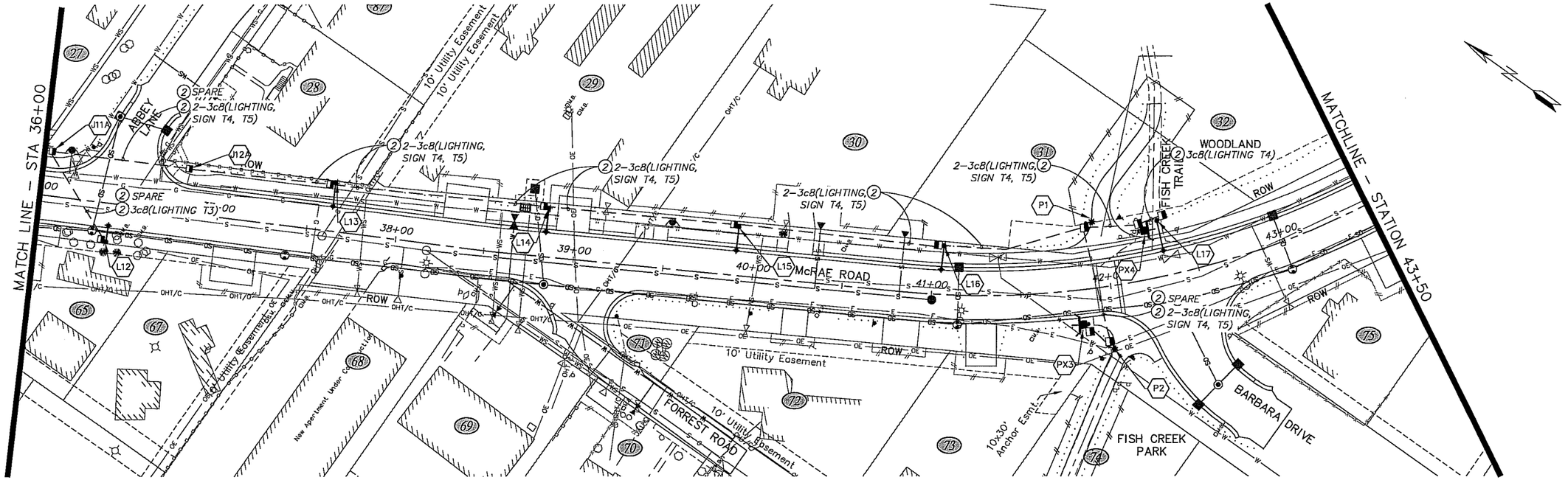
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED C
WISCONSIN STREET TO SPENARD ROAD

ILLUMINATION PLAN:
STA. 28+00 TO STA. 36+00

SCALE HOR. 1"=30' VER. N/A | DATE FEB 2012 | STATUS 95% DESIGN | GRID 1627/1727/1728 | SHEET 13 of 111

File: J:\Jobdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\03 Electrical\10104 Illumination E1-E6.dwg



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PLAN CHECK

GRAPHIC SCALE 30 0 30 60 90

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007–01	GAAB77	See MOA Benchmark Book Page D–20	89.89
STAKING			
ASBUILT			
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INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

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REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
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PHONE: (907) 562–3252
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CONSULTANT

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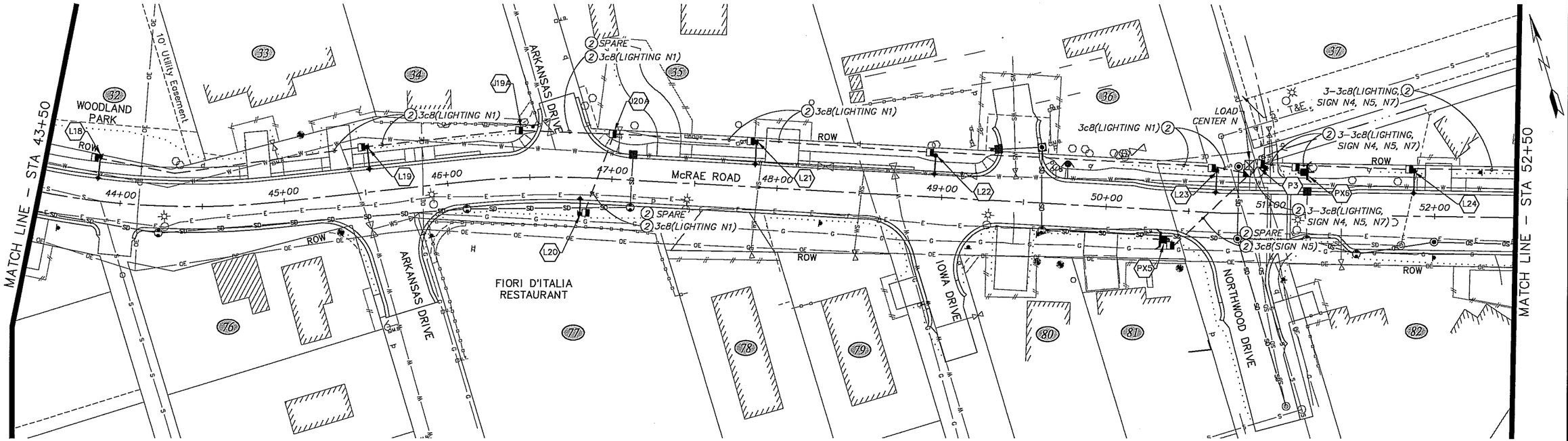
03–09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED C
WISCONSIN STREET TO SPENARD ROAD

ILLUMINATION PLAN:
STA. 36+00 TO STA. 43+50

SCALE HOR. 1"=30' VER. N/A | DATE FEB 2012 | GRID 1627/1727/1728 | STATUS 95% DESIGN | SHEET 14 of 111

File: J:\Jobdata\10104 35th & McRae\09 CADD\Drawings\01 Working Set\03 Electrical\10104 Illumination E1–E6.dwg



PRELIMINARY

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   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: _____ TITLE: _____
   COMPANY: _____ DATE: _____
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   DATA TRANSFER CHECKED BY: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

CONSTRUCTION RECORD

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books B5 & MDA 2007-01	GAAB77	See MDA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR			
INSPECTOR			

GRAPHIC SCALE 30 0 30 60 90

VERTICAL DATUM: BASIS OF THIS DATUM GAAB 1972 Adjust

REVISIONS

REV	DATE	DESCRIPTION	BY

CONSULTANT
CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273

SEAL
STATE OF ALASKA 49TH
WILLIAM M. MCDONALD
EE-7879
REGISTERED PROFESSIONAL ENGINEER

MUNICIPALITY OF ANCHORAGE

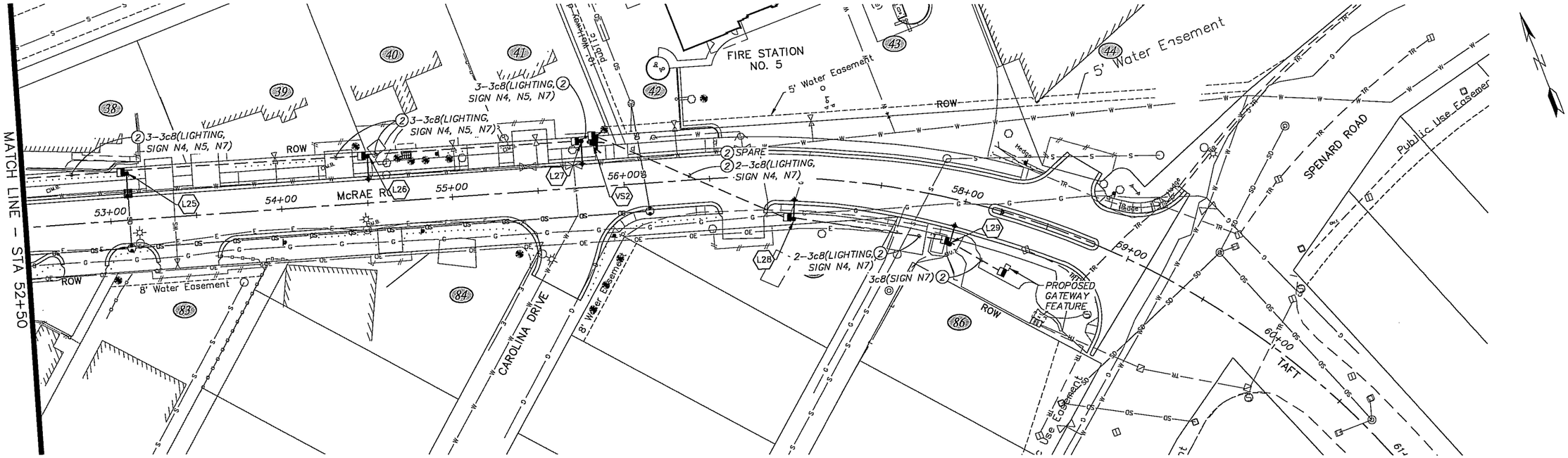
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED C
WISCONSIN STREET TO SPENARD ROAD

ILLUMINATION PLAN: STA. 43+50 TO STA. 52+50

SCALE HOR. 1"=30' VER. N/A | DATE FEB 2012 | GRID 1627/1727/1728 | STATUS 95% DESIGN | SHEET 15 of 111

File:J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\03 Electrical\10104 Illumination E1-E5.dwg



PRELIMINARY

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   COMPANY: _____ DATE: _____
   BY: _____

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TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

GRAPHIC SCALE 30 0 30 60 90

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books BS & MOA 2007–01	GAAB77	See MOA Benchmark Book Page D–20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562–3252
FAX: (907) 561–2273

CONSULTANT

STATE OF ALASKA 49TH
WILLIAM M. MCDONALD
EE–7879
REGISTERED PROFESSIONAL ENGINEER

SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03–09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED C
WISCONSIN STREET TO SPENARD ROAD

ILLUMINATION PLAN: STA. 52+50 TO EOP

SCALE HOR. 1"=30' VER. N/A | DATE FEB 2012 | GRID 1627/1727/1728 | STATUS 95% DESIGN | SHEET 16 of 111

File:J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\03 Electrical\10104 Illumination E1-E6.dwg

SUMMARY OF LOAD CENTER: "T"			
LOAD CENTER LOCATION:		POWER SOURCE LOCATION:	
STATION:	28+10.7	STATION:	
OFFSET:	29.0 RT	OFFSET:	
SERVICE INFORMATION:			
SERVING UTILITY:	CHUGACH ELECTRIC ASSOCIATION		
SERVICE CONDUIT:	2 INCH RIGID METAL CONDUIT		
END SERVICE CONDUIT:	3 FEET FROM THE SERVING CEA TRANSFORMER		
TYPE OF SERVICE:	SINGLE PHASE, 3 WIRE, 120/240 VOLTS AC WITH GROUNDED NEUTRAL		
EQUIPMENT SUMMARY:			
LOAD CENTER TYPE:	M.O.A. TYPE 1A		
METER SOCKET:	MANUAL BYPASS WITH SAFETY SOCKET		
MAIN BREAKER A:	100 AMPERE, 2 POLE, 240 VOLTS AC, 10,000 AIC		
CONTACTOR:	30 AMPERE, 10 POLE, 600 VOLTS AC		
PHOTOELECTRIC CONTROL:	INSTALL ON LOAD CENTER CABINET		
TEMPERATURE BYPASS:	N/A		

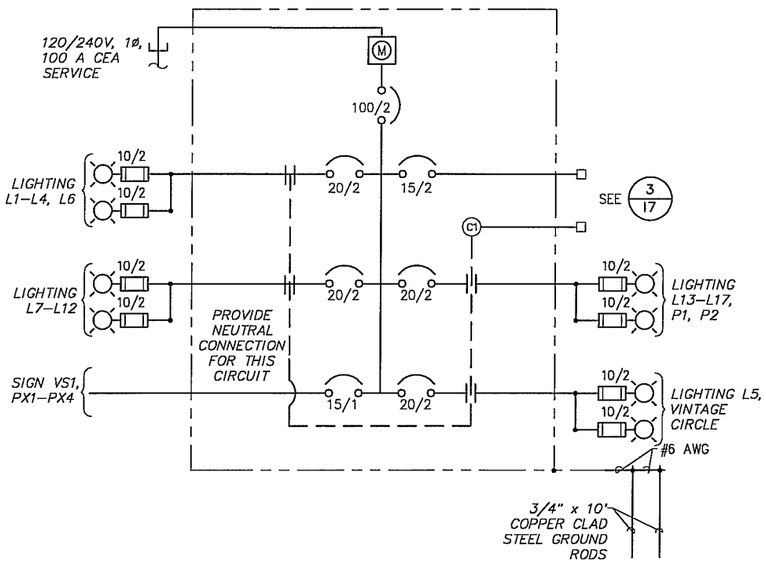
PANEL A

CIRCUIT	CIRCUIT DESCRIPTION	KVA	AMP	SPACE		AMP	KVA	CIRCUIT DESCRIPTION	CIRCUIT
T1	LIGHTING L1–L4, L6	0.8	20/2	1	2	15/2	0.1	PHOTOELECTRIC CONTROL	T2
				3	4				
T3	LIGHTING L7–L12	1.4	20/2	5	6	20/2	1.1	LIGHTING L13–L17, P1, P2	T4
				7	8				
T5	SIGN VS1, PX1–PX4	0.2	15/1	9	10	20/2	0.5	LIGHTING L5,	T6
				11	12			VINTAGE CIRCLE (EXISTING)	
TOTAL KVA LOAD: 4.1									

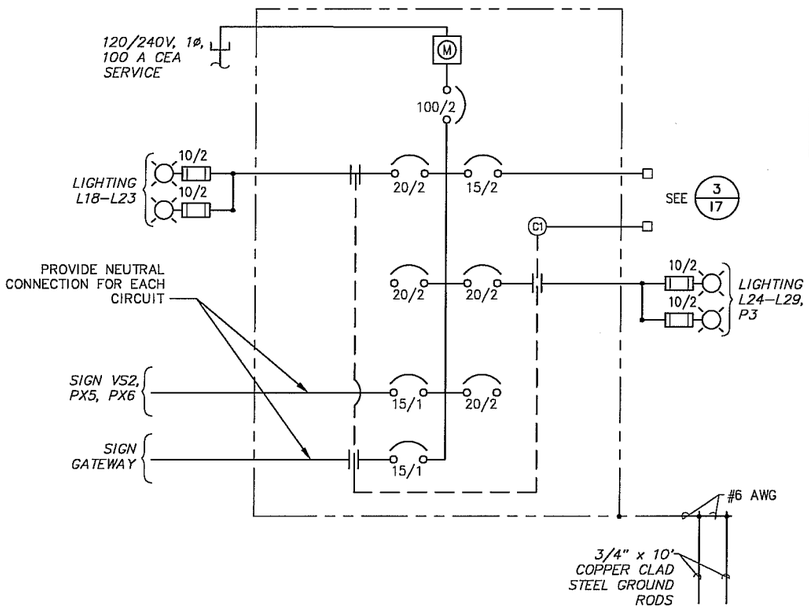
SUMMARY OF LOAD CENTER: "N"			
LOAD CENTER LOCATION:		POWER SOURCE LOCATION:	
STATION:	50+86.5	STATION:	
OFFSET:	29.3 LT	OFFSET:	
SERVICE INFORMATION:			
SERVING UTILITY:	CHUGACH ELECTRIC ASSOCIATION		
SERVICE CONDUIT:	2 INCH RIGID METAL CONDUIT		
END SERVICE CONDUIT:	3 FEET FROM THE SERVING CEA TRANSFORMER		
TYPE OF SERVICE:	SINGLE PHASE, 3 WIRE, 120/240 VOLTS AC WITH GROUNDED NEUTRAL		
EQUIPMENT SUMMARY:			
LOAD CENTER TYPE:	M.O.A. TYPE 1A		
METER SOCKET:	MANUAL BYPASS WITH SAFETY SOCKET		
MAIN BREAKER A:	100 AMPERE, 2 POLE, 240 VOLTS AC, 10,000 AIC		
CONTACTOR:	30 AMPERE, 10 POLE, 600 VOLTS AC		
PHOTOELECTRIC CONTROL:	INSTALL ON LOAD CENTER CABINET		
TEMPERATURE BYPASS:	N/A		

PANEL A

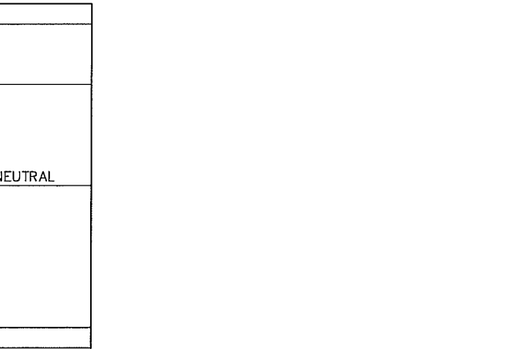
CIRCUIT	CIRCUIT DESCRIPTION	KVA	AMP	SPACE		AMP	KVA	CIRCUIT DESCRIPTION	CIRCUIT
N1	LIGHTING L18–L23	1.4	20/2	1	2	20/2	0.1	PHOTOELECTRIC CONTROL	N2
				3	4				
N3	SPARE 2 POLE BREAKER	0.0	20/2	5	6	15/2	1.1	LIGHTING L24–L29, P3	N4
				7	8				
N5	SIGN VS2, PX5, PX6	0.2	15/1	9	10	20/2	0.0	SPARE 2 POLE BREAKER	N6
N7	SIGN GATEWAY	0.2	15/1	11	12				
TOTAL KVA LOAD: 3									



1 LOAD CENTER "T" POWER ONE-LINE
NTS



2 LOAD CENTER "N" POWER ONE-LINE
NTS



3 LOAD CENTER LIGHTING CONTROL SCHEMATIC
NTS

PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

CONSTRUCTION RECORD

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273
CONSULTANT

STATE OF ALASKA 49TH
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SEAL

MUNICIPALITY OF ANCHORAGE

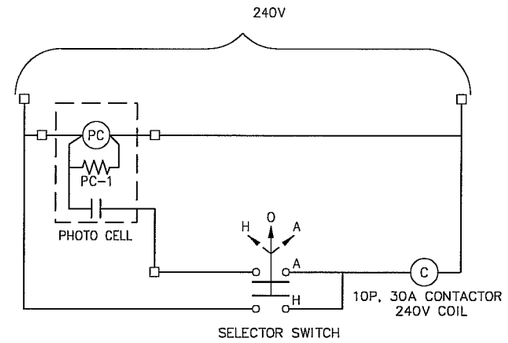
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED C
WISCONSIN STREET TO SPENARD ROAD

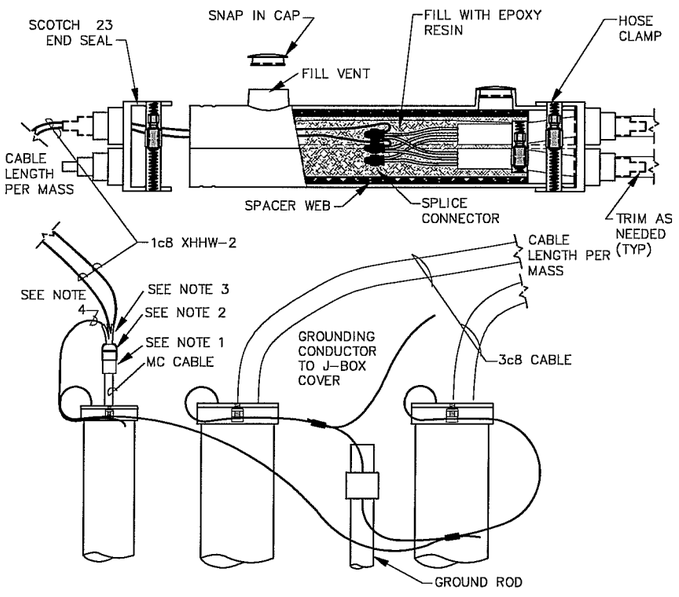
LOAD CENTER SCHEDULES
& POWER ONE-LINES

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | STATUS 95% DESIGN | GRID 1627/1727/1728 | SHEET 17 of 111

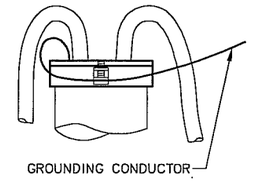
File:J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\03 Electrical\10104 Details E7-E13.dwg



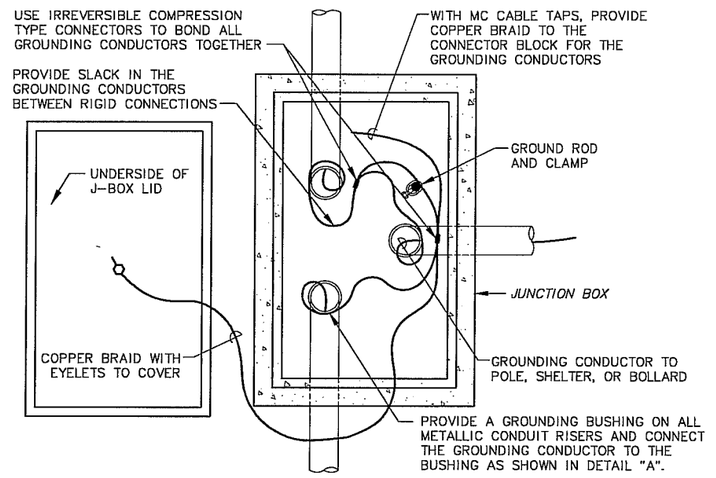
1 LOAD CENTER LIGHTING CONTROL SCHEMATIC
NTS



2 TYPICAL TAP/SPLICE DETAIL
FOR MC AND LIGHTING CABLES
NTS



DETAIL A



3 JUNCTION BOX GROUNDING DETAIL
NTS

ONLY GROUNDING CONDUCTORS ARE SHOWN FOR CLARITY

PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
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WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
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CONSULTANT

STATE OF ALASKA 49TH — WILLIAM M. MCDONALD — EE-7879 — REGISTERED PROFESSIONAL ENGINEER

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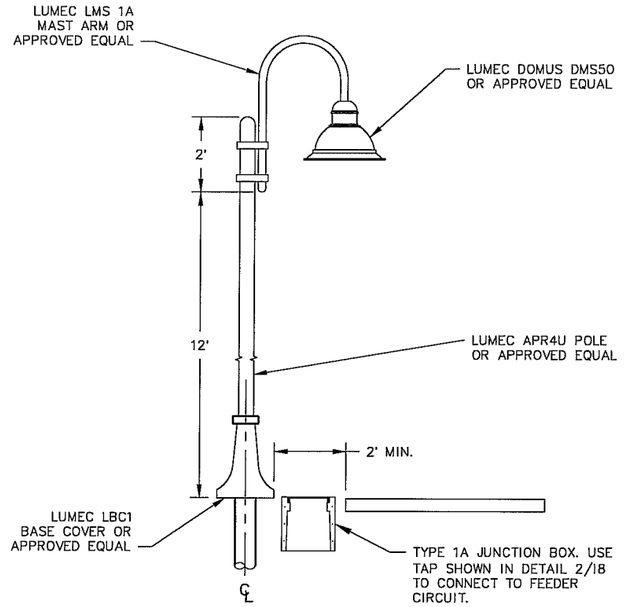
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS WISCONSIN STREET TO SPENARD ROAD SCHED C

LIGHTING CONTROL SCHEMATIC & WIRING DETAILS

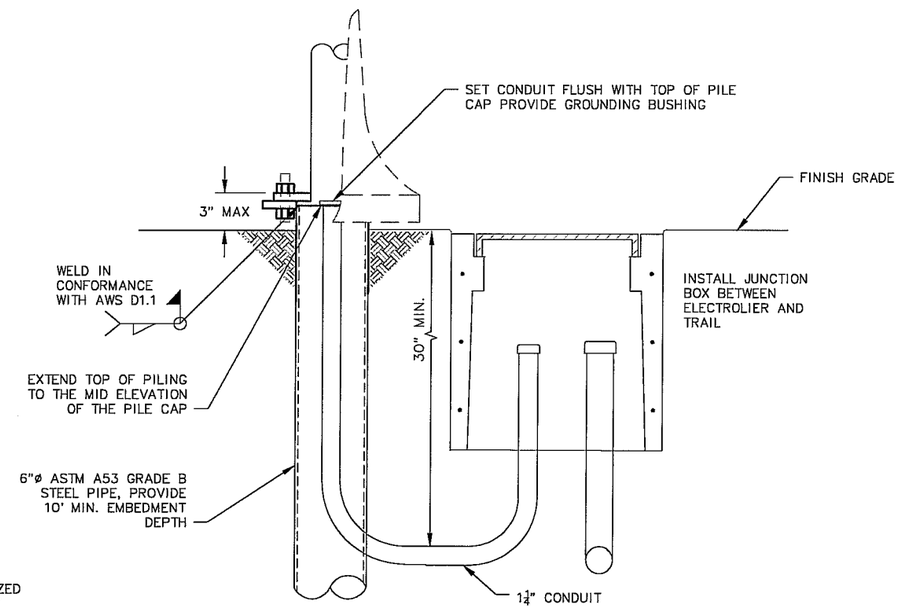
SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID 1627/1727/1728 | STATUS 95% DESIGN | SHEET 18 of 111

File: J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\03 Electrical\10104 Details E7-E13.dwg

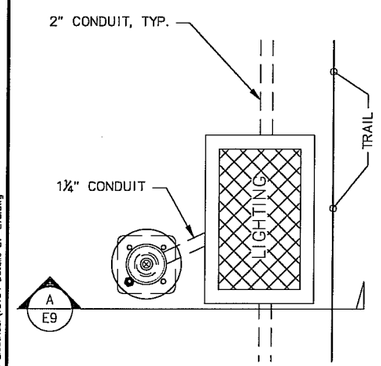


1 PEDESTRIAN LIGHT ELEVATION & SPACING
NTS

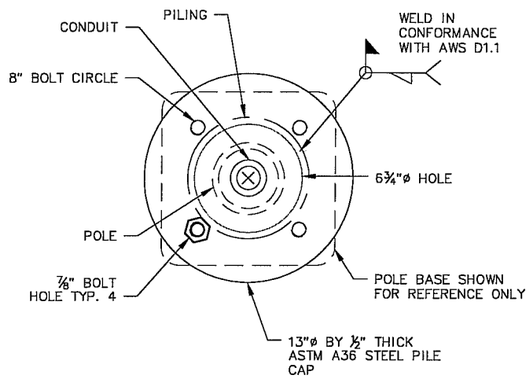
PRELIMINARY



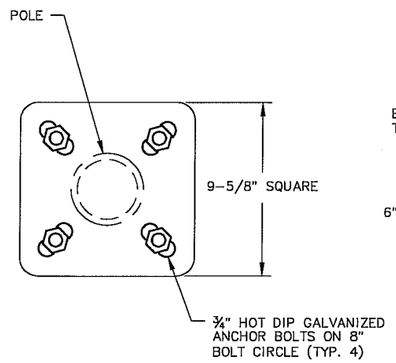
A/E9 **PEDESTRIAN LIGHT FOUNDATION ELEVATION** N.T.S.



2 PEDESTRIAN LIGHT TYPICAL PLAN
NTS



3 PEDESTRIAN LIGHT 6" PILE CAP DETAIL
NTS



4 PEDESTRIAN LIGHT POLE BASE PLAN
NTS

RECORD DRAWING
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COMPANY: _____ DATE: _____
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GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM
PLAN CHECK		

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			
CONSTRUCTION RECORD	VERTICAL DATUM		

REV	DATE	DESCRIPTION	BY
REVISIONS			

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
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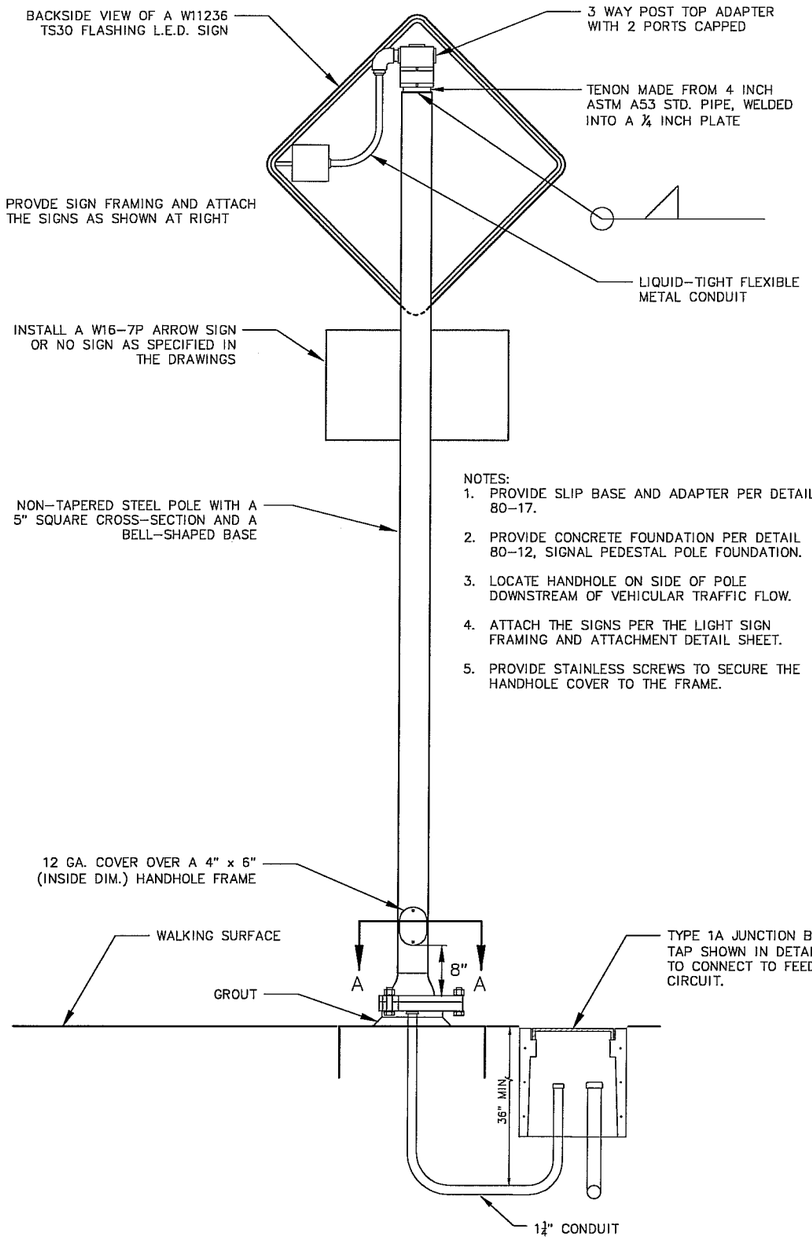
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED C
WISCONSIN STREET TO SPENARD ROAD

PEDESTRIAN ELECTROLIER DETAILS

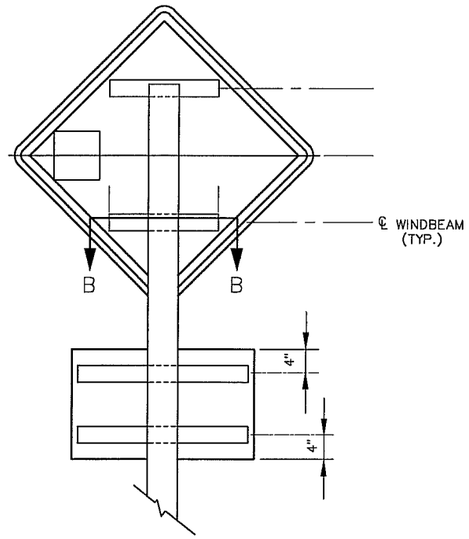
SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID 1627/1727/1728 | STATUS 95% DESIGN | SHEET 19 of 111

File:J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\03 Electrical\10104 Details E7-E13.dwg



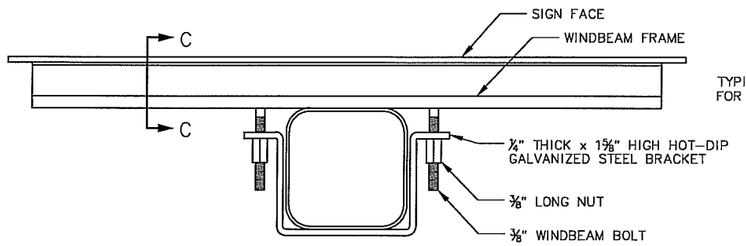
NOTES:

1. PROVIDE SLIP BASE AND ADAPTER PER DETAIL 80–17.
2. PROVIDE CONCRETE FOUNDATION PER DETAIL 80–12, SIGNAL PEDESTAL POLE FOUNDATION.
3. LOCATE HANDHOLE ON SIDE OF POLE DOWNSTREAM OF VEHICULAR TRAFFIC FLOW.
4. ATTACH THE SIGNS PER THE LIGHT SIGN FRAMING AND ATTACHMENT DETAIL SHEET.
5. PROVIDE STAINLESS SCREWS TO SECURE THE HANDHOLE COVER TO THE FRAME.



WINDBEAM LOCATIONS FOR EACH SIGN SHAPE

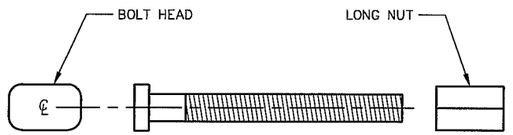
ELEVATION VIEW

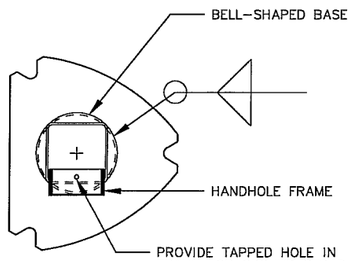


TYPICAL OFFSET FOR ALL SIGNS

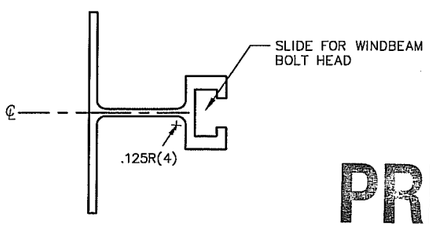
SECTION B – B

TYPICAL SIGN ATTACHMENT DETAILS AT EACH WINDBEAM





SECTION A–A



SECTION C – C WINDBEAM CROSS SECTION

NOTES:

1. PROVIDE THE LIGHT EMITTING DIODE (L.E.D.) SIGNS WITH WIND BEAM SIGN BRACING. THE FABRICATOR OF THE OTHER SIGNS ON THE PROJECT SHALL ATTACH THE WIND BEAM WHEN THESE SIGNS ARE RECEIVED FROM THE L.E.D. SIGN MANUFACTURER. THEY SHALL ATTACH THE WIND BEAM WITH 3M BRAND VHB TAPE EXCLUSIVELY AFTER CLEANING THE WIND BEAM AND SIGN SURFACES IN CONTACT WITH VHB TAPE.
2. PROVIDE THE FOLLOWING SIGNS WITH WIND BEAM SIGN BRACING ATTACHED DURING EACH SIGN'S FABRICATION: THE NON–L.E.D. W11–2 SIGNS, AND THE W16–7P SIGNS.
3. PROVIDE WIND BEAM MADE FROM ALUMINUM ALLOY 6061–T6 AND ATTACH IT TO THE SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET.
4. EACH LENGTH OF WIND BEAM SIGN BRACE SPECIFIED SHALL BE ONE CONTINUOUS PIECE.
5. ATTACH WIND BEAM SIGN BRACING TO THE SIGN PANELS WITH RIVETS OR 3M VHB TAPE.
6. FOR WIND BEAMS ATTACHED TO THE NON–L.E.D. SIGNS WITH THE VHB TAPE, INSTALL TWO RIVETS IN BOTH ENDS OF EACH FRAMING MEMBER. ATTACH THE FRAMING MEMBERS TO THE SIGN PANELS ACCORDING TO THE TAPE MANUFACTURER'S WRITTEN INSTRUCTIONS, INCLUDING:
   A. THE CLEANING AND HANDLING OF THE SIGN PANELS AND FRAMING MEMBERS.
   B. THE APPLICATION OF THE ADHESIVE TAPE.
9. WHEN RIVETS ARE USED TO ATTACH FRAMING MEMBERS, INSTALL 2 RIVETS IN EACH END AND THE BALANCE ON 8" MAXIMUM CENTERS.
10. USE 3/16" DIAMETER RIVETS MADE FROM ALUMINUM ALLOY 6061–T6 FOR COLD DRIVEN RIVETS, OR ALUMINUM ALLOY 6061–T43 FOR HOT DRIVEN RIVETS.
11. PROVIDE BRACKETS FABRICATED TO THE DIMENSIONS SHOWN ON THIS DETAIL SHEET.

PRELIMINARY

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   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: _____ TITLE: _____
   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: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007–01	GAAB77	See MOA Benchmark Book Page D–20	89.89
STAKING			
ASBUILT			
CONTRACTOR			
INSPECTOR			

CONSTRUCTION RECORD

VERTICAL DATUM: BASIS OF THIS DATUM GAAB 1972 Adjust

REV	DATE	DESCRIPTION	BY

REVISIONS

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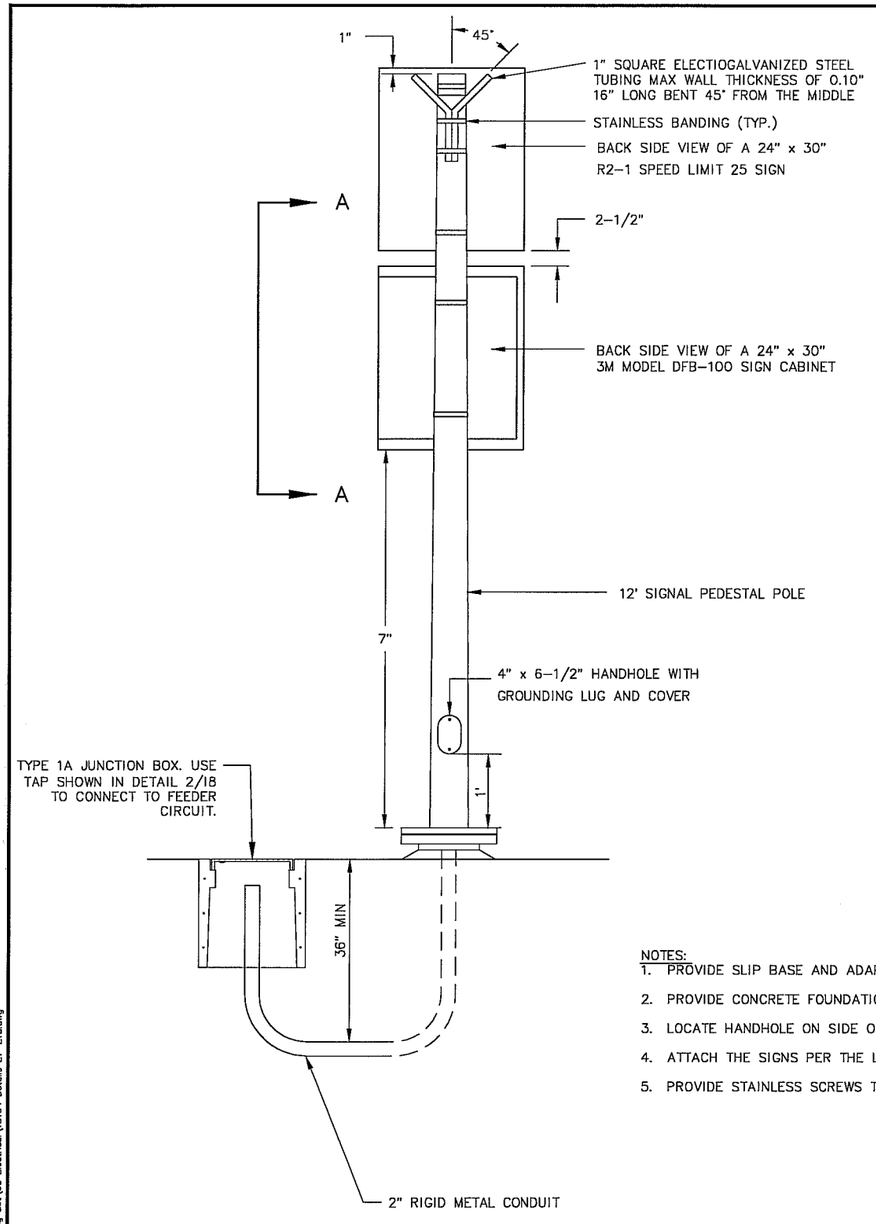
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03–09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS WISCONSIN STREET TO SPENARD ROAD SCHED C

FLASHING PEDISTRIAN SIGN DETAILS

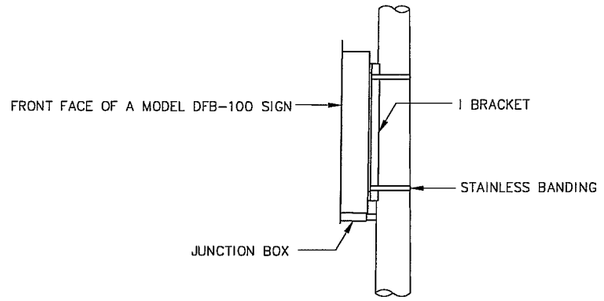
SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID 1627/1727/1728 | STATUS 95% DESIGN | SHEET 110 of 111

File: I:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\03 Electrical\10104 Details E7–E13.dwg



TYPICAL VSC SIGN INSTALLATION

(LOOKING AT APPROACHING TRAFFIC)



VIEW A - A

(LOOKING TOWARD CENTERLINE)

NOTES:
1. PROVIDE SLIP BASE AND ADAPTER PER DETAIL 80-17.
2. PROVIDE CONCRETE FOUNDATION PER DETAIL 80-12, SIGNAL PEDESTAL POLE FOUNDATION.
3. LOCATE HANDHOLE ON SIDE OF POLE DOWNSTREAM OF VEHICULAR TRAFFIC FLOW.
4. ATTACH THE SIGNS PER THE LIGHT SIGN FRAMING AND ATTACHMENT DETAIL SHEET.
5. PROVIDE STAINLESS SCREWS TO SECURE THE HANDHOLE COVER TO THE FRAME.

VOLUNTARY SPEED COMPLIANCE SIGN NOTES:

1. INSTALL SIGNAL PEDESTAL POLES THAT CONFORM TO MOA STANDARD DETAIL 80-16.
2. INSTALL PORTLAND CEMENT CONCRETE FOUNDATIONS THAT CONFORM TO MOA STANDARD DETAIL 80-12 FOR SIGNAL PEDESTAL POLES.
3. FURNISH EACH MODEL DFB-100 SIGN WITH THE OPTIONAL I-SHAPED MOUNTING BRACKET.
4. INSTALL THE DRIVER FEEDBACK SIGNS ACCORDING TO 3M's WRITTEN INSTALLATION INSTRUCTIONS.
5. AIM EACH DFB SIGN TO THE SATISFACTION OF THE ENGINEER, BEFORE ATTACHING IT TO THE SIGNAL PEDESTAL POLE.
6. ATTACH THE DFB SIGNS TO THE POLES WITH DOUBLE WRAPS OF 3/4" WIDE BY 0.020" THICK STAINLESS BANDING MATERIAL. TIGHTEN EACH BAND AROUND THE MOUNTING BRACKETS UNTIL THE BAND STOPS MOVING THROUGH THE BUCKLE.
7. INSTALL THE TYPE 1A JUNCTION BOX ON THE DOWNSTREAM SIDE OF THE POLE AT THE LOCATION SHOWN.
8. SET THE END OF THE 2" RIGID METAL CONDUIT 2" ABOVE THE TOP OF THE FOUNDATION.
9. PAYMENT FOR EACH VSC SIGN INCLUDES FULL COMPENSATION FOR:
   A. THE R2-1 SPEED LIMIT 25 SIGN.
   B. A FULLY FUNCTIONAL VSC SIGN INSTALLATION.

PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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   CONTRACTOR: _____
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   BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE		
TOPOGRAPHY		
PROFILE		
STORM SEWER		
WATER/SANITARY SEWER		
GAS		
TELEPHONE		
ELECTRIC		
DESIGN		
QUANTITIES		
PRELIMINARY/FINAL		
MUNICIPAL/STATE		

CONSTRUCTION RECORD

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN			
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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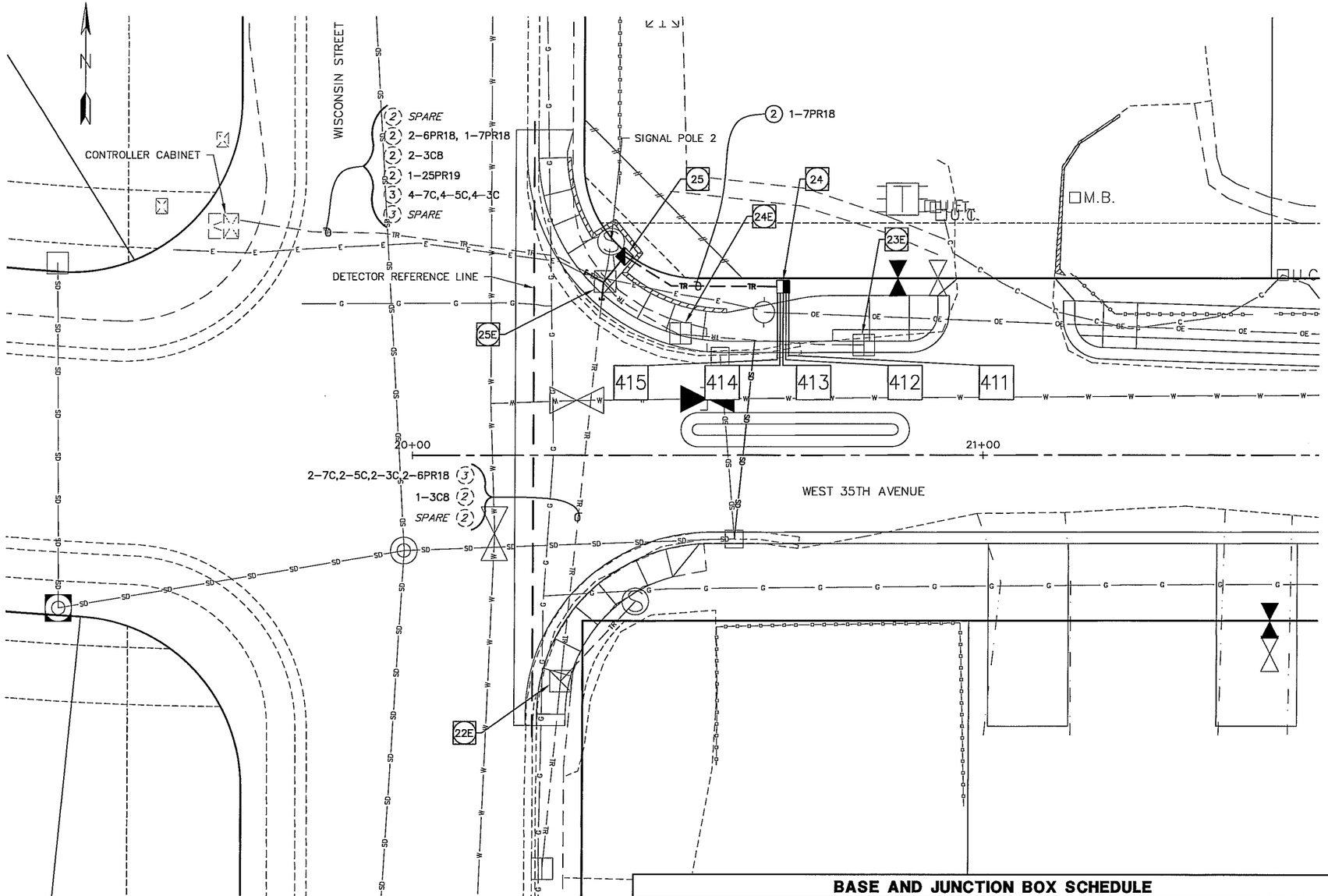
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED C
WISCONSIN STREET TO SPENARD ROAD

VOLUNTARY SPEED COMPLIANCE SIGN DETAILS

SCALE HOR. N/A VER. N/A | DATE FEB 2012 | GRID 1627/1727/1728 | STATUS 95% DESIGN | SHEET 111 of 111

File:K:\Jobdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\03 Electrical\10104 Details E7-E13.dwg



PRELIMINARY

35TH AND WISCONSIN TRAFFIC SIGNAL NOTES:

1. REMOVE EXISTING TYPE 1A JUNCTIONS 23E AND 24E, AND TYPE II JUNCTION 25E.
2. ABANDON THE EXISTING CONDUITS THAT RUN BETWEEN JUNCTION BOXES 23E AND 24E AND BETWEEN JUNCTION BOXES 24E AND 25E.
3. REMOVE THE EXISTING 6 PAIR 18 AWG LOOP LEAD–IN CABLE THAT RUNS BETWEEN JUNCTION BOX 23E AND THE CONTROLLER CABINET AND THROUGH JUNCTION BOXES 24E AND 25E AND THE CONTROLLER VAULT TYPE FOUNDATION.
4. PROVIDE LOOP DETECTORS 411 THROUGH 415, TYPE 1A JUNCTION BOX 24.
5. PROVIDE CONDUIT FROM JUNCTION BOX 24 TO 25 AND SPLICE NEW CONDUIT FROM JUNCTION BOX 25E TO 25 AS NECESSARY.
6. PROVIDE A NEW 7 PAIR 18 AWG LEAD–IN CABLE WITHOUT SPLICES BETWEEN JUNCTION BOX 24 AND THE CONTROLLER CABINET, THROUGH JUNCTION BOX 25.
7. COMPLETE ALL SPLICES IN JUNCTION BOXES 24 AND 25 AND PREPARE THE CONDUCTOR ENDS OF THE NEW 7 PAIR LOOP LEAD–IN CABLE IN THE CONTROLLER CABINET FOR TERMINATION BY OTHERS.
8. REPLACE EXISTING WIRE BETWEEN JUNCTION BOXES 22E AND 25 AND BETWEEN THE CONTROLLER CABINET AND JUNCTION BOX 25 AS NECESSARY SUCH THAT EACH IS A CONTINUOUS RUN WITH NO SPLICES EXCEPT FOR THOSE IN THE JUNCTION BOXES AND CONTROLLER CABINET.
9. THE NEW FINISHED SIDEWALK ELEVATION WILL BE SLIGHTLY LOWER THAN THE EXISTING GRADE. PROTECT SIGNAL POLE 2 AND ENSURE PEDESTRIAN PUSH BUTTON HEIGHT IS MAINTAINED. SEE DETAIL 80–28.

LEGEND

- EXISTING CONDUIT RUN
- NEW GALVANIZED RIGID METAL CONDUIT
- CONNECT NEW CONDUIT TO EXISTING

PROPOSED	EXISTING	
◧	◫	TYPE IA JUNCTION BOX
◪	◫	TYPE II JUNCTION BOX

WIRING LEGEND

NEW	EXISTING	
(2)	(2)	NOMINAL CONDUIT SIZE IN INCHES
1–3c8	*1–3c8*	CABLES

- PRESERVE EXISTING CABLE
- No. OF CABLES REQUIRED
- No. OF CONDUCTORS (c) OR PAIRS (pr) IN EACH CABLE
- CONDUCTOR SIZE IN AWG
- LOAD CENTER ID & CIRCUIT No.

*1–3c8(LTG LC–X)

CIRCUIT TYPE:
- HWY LTG = HIGHWAY LIGHTING
- LTG = LIGHTING ON SIGNAL POLES
- I/C = INTERCONNECT
- TC = TRAFFIC CONTROLLER POWER
- FB = FLASHING BEACON
- GND = BARE COPPER GROUND WIRE
- PE = PHOTOELECTRIC CONTROL
- A–L = LOOP DETECTOR CABLE GROUP
- OPC = OPTICOM DETECTOR
- CL = CONFIRMATION LIGHT

BASE AND JUNCTION BOX SCHEDULE

NUMBER POLE	NUMBER J.B.	TYPE	LOCATION OTHER	LOCATION STATION	LOCATION OFFSET (FT)	REMARKS
			CONTROLLER CABINET			NW CORNER OF INTERSECTION
	22E	1A		20+26	40' RT	LOCATE & PROTECT
	23E	1A		20+79	19' LT	REMOVE EXISTING JB 23E
	24E	1A		20+47	21' LT	REMOVE EXISTING JB 24E
	24	1A		20+65	30' LT	INSTALL NEW TYPE 1A JB
	25E	II		20+34	30' LT	REMOVE EXISTING JB 25E
	25	II		20+37	35' LT	INSTALL NEW TYPE II JB

RECORD DRAWING
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PLAN CHECK

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TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

GRAPHIC SCALE 10 0 10 20 30

CONSTRUCTION RECORD

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007–01	GAAB77	See MOA Benchmark Book Page D–20	89.89
STAKING			
ASBUILT			
CONTRACTOR			
INSPECTOR			

VERTICAL DATUM: BASIS OF THIS DATUM GAAB 1972 Adjust

REV	DATE	DESCRIPTION	BY

REVISIONS

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STATE OF ALASKA 49TH
REBECCA CAMPBELL
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SEAL

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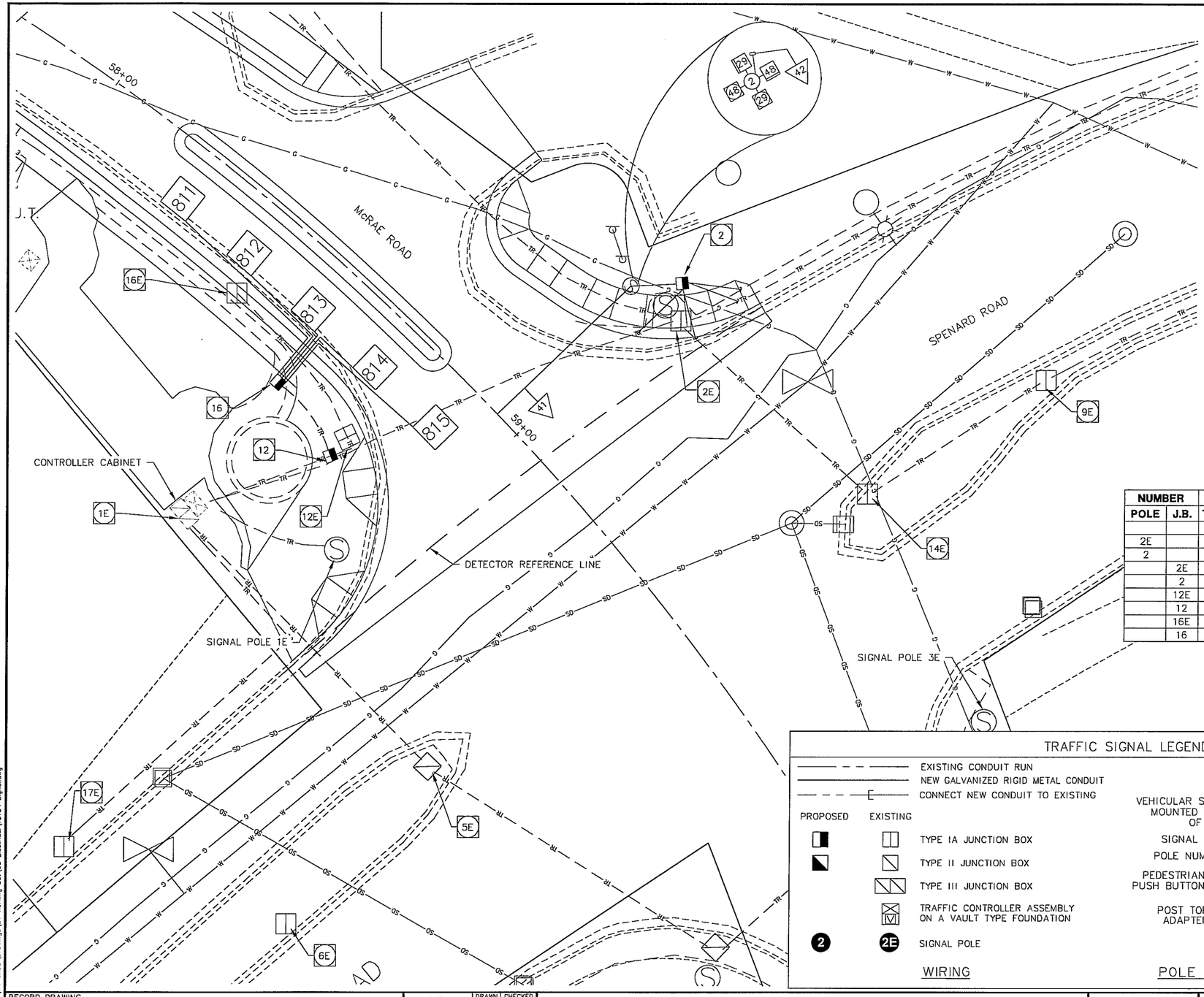
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03–09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS WISCONSIN STREET TO SPENARD ROAD SCHED C

W. 35TH AVE AND WISCONSIN ST SIGNALIZATION PLAN

SCALE HOR. 1"=10' VER. N/A | DATE FEB 2012 | STATUS 95% DESIGN | GRID1627/1727/1728 | SHEET J1 of J5

File: J:\Jobdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\03 Electrical\10104 Signal.dwg



McRAE AND SPENARD TRAFFIC SIGNAL NOTES:

1. FOLLOWING INSTALLATION OF THE TEMPORARY SIGNAL SYSTEM, REMOVE EXISTING SIGNAL POLE 2E AND ITS FOUNDATION.
2. REMOVE EXISTING TYPE 1A JUNCTIONS 12E AND 16E AND THE CONDUIT BETWEEN THEM. REMOVE EXISTING TYPE II JUNCTION BOX 2E AND THE CONDUIT THAT RUNS BETWEEN SIGNAL POLE 2E AND THE JUNCTION BOX.
3. PRESERVE THE EXISTING CONDUIT THAT RUNS BETWEEN JUNCTION BOXES 12E AND 1E, EXCEPT REMOVE THE EXISTING 6 PAIR 18 AWG LOOP LEAD-IN CABLE FROM THE CONDUIT.
4. PROVIDE TWO NEW JUNCTION BOXES 12 AND 16, A NEW TWO INCH RIGID METAL CONDUIT BETWEEN THEM, AND LOOP DETECTORS 811 THROUGH 815, INSTALLED PER MASS DETAILS 80-52, 53, AND 54.
5. PRESERVE THE EXISTING CONDUITS THAT RUN FROM JUNCTION BOX 2E TO JUNCTION BOX 1E, 14E, 18.
6. PROVIDE A NEW 7 PAIR 18 AWG LEAD-IN CABLE WITHOUT SPLICES BETWEEN JUNCTION BOX 16 AND THE CONTROLLER CABINET.
7. COMPLETE ALL SPLICES IN JUNCTION BOXES 12 AND 16 AND PREPARE THE CONDUCTOR ENDS OF THE NEW 7 PAIR LOOP LEAD-IN CABLE IN THE CONTROLLER CABINET FOR TERMINATION BY OTHERS.
8. IN THE VICINITY OF SIGNAL POLE 1E, THE NEW FINISHED SIDEWALK ELEVATION WILL BE SLIGHTLY LOWER THAN THE EXISTING. PROTECT SIGNAL POLE 1E DURING CONSTRUCTION. ENSURE PEDESTRIAN PUSH BUTTON HEIGHT IS MAINTAINED. SEE DETAIL 80-28.
9. ABANDON THE EXISTING PREEMEMPTION WIRE TO THE FIRE STATION.

POLE AND JUNCTION BOX SCHEDULE

NUMBER			LOCATION			
POLE	J.B.	TYPE	OTHER	STATION	OFFSET (FT)	REMARKS
			CONTROLLER CABINET			NW CORNER OF INTERSECTION
2E				59+01	37' LT	REMOVE EXISTING SIGNAL POLE 2E
2				58+95	35' LT	INSTALL NEW MAST ARM SIGNAL POLE
	2E	II		59+05	37' LT	REMOVE EXISTING JB 2E
	2	II		59+00	42' LT	INSTALL NEW TYPE II JB
	12E	1A		58+78	23' RT	REMOVE EXISTING JB 12E
	12	1A		58+78	28' RT	INSTALL NEW TYPE 1A JUNCTION BOX
	16E	1A		58+43	17' RT	REMOVE EXISTING JB 16E
	16	1A		58+60	25' RT	INSTALL NEW TYPE 1A JB

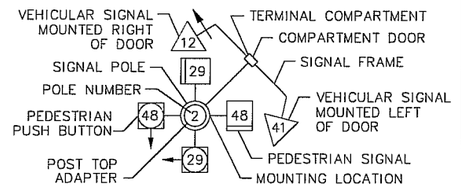
PRELIMINARY

TRAFFIC SIGNAL LEGEND

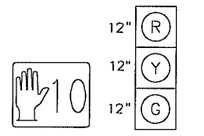
EXISTING CONDUIT RUN
NEW GALVANIZED RIGID METAL CONDUIT
CONNECT NEW CONDUIT TO EXISTING

PROPOSED	EXISTING	
		TYPE 1A JUNCTION BOX
		TYPE II JUNCTION BOX
		TYPE III JUNCTION BOX
		TRAFFIC CONTROLLER ASSEMBLY ON A VAULT TYPE FOUNDATION
2	2E	SIGNAL POLE

WIRING



POLE MOUNTED SIGNAL HARDWARE



NEW SIGNAL FACES

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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DATA	DRAWN BY	CHECKED BY
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TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

PLAN CHECK

GRAPHIC SCALE 10 0 10 20 30

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAA877	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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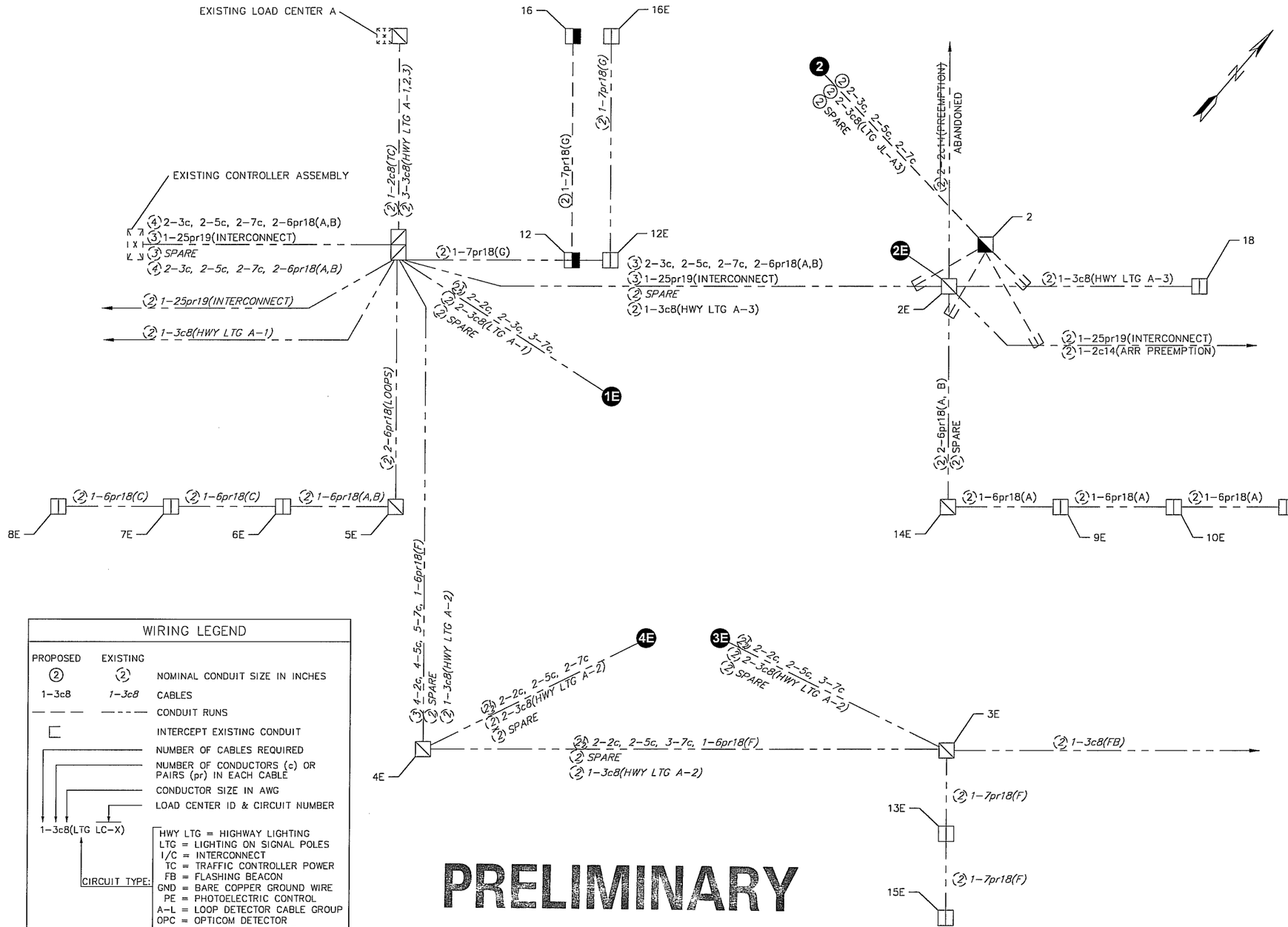
PROJECT MANAGEMENT AND ENGINEERING DIVISION

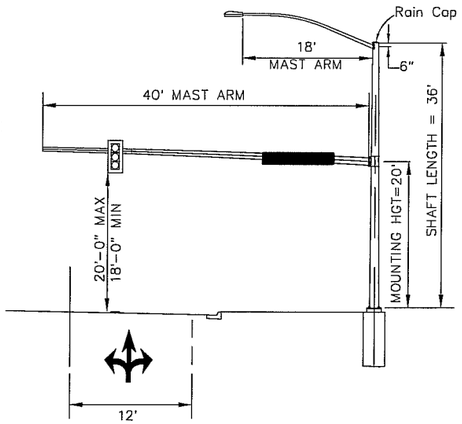
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS SCHED C
WISCONSIN STREET TO SPENARD ROAD

McRAE RD AND SPENARD ROAD
SIGNALIZATION IMPROVEMENTS

SCALE HOR. 1"=10' VER. N/A | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET J2 of J5

File: x:\absdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\03 Electrical\10104 Signal.dwg





WIRING LEGEND

PROPOSED	EXISTING	
(2)	(2)	NOMINAL CONDUIT SIZE IN INCHES
1-3c8	*1-3c8*	CABLES
———	- - - -	CONDUIT RUNS
⊏		INTERCEPT EXISTING CONDUIT

NUMBER OF CABLES REQUIRED

NUMBER OF CONDUCTORS (c) OR PAIRS (pr) IN EACH CABLE

CONDUCTOR SIZE IN AWG

LOAD CENTER ID & CIRCUIT NUMBER

1-3c8(LTG LC-X)

CIRCUIT TYPE:

- HWY LTG = HIGHWAY LIGHTING
- LTG = LIGHTING ON SIGNAL POLES
- I/C = INTERCONNECT
- TC = TRAFFIC CONTROLLER POWER
- FB = FLASHING BEACON
- GND = BARE COPPER GROUND WIRE
- PE = PHOTOELECTRIC CONTROL
- A-L = LOOP DETECTOR CABLE GROUP
- OPC = OPTICOM DETECTOR
- CL = CONFIRMATION LIGHT
- * = PRESERVE EXISTING CABLE

PRELIMINARY

WIRING NOTES:

1. LOOP DETECTORS, LUMINAIRES, MASTARMS, SIGNAL EQUIPMENT, AND GROUND WIRES ARE NOT SHOWN FOR CLARITY.
2. INSTALL THE CABLES SHOWN NEXT TO EACH CONDUIT IN THAT CONDUIT.
3. ALL INDIVIDUAL CONDUCTORS ARE 14 AWG, UNLESS NOTED OTHERWISE.
4. SERVE EACH PEDESTRIAN PUSH BUTTON WITH 1-3c14 CABLE.
5. SERVE EACH PEDESTRIAN SIGNAL FACE WITH 1-5c14 CABLE.
6. SERVE EACH VEHICULAR SIGNAL FACE WITH 1-7c14 CABLE.
7. INSTALL A 1c8 AWG GROUND WIRE IN ALL CONDUITS, UNLESS ANOTHER SIZE IS SPECIFICALLY CALLED OUT.
8. INTERCEPT THE ROADWAY LIGHTING, INTERCONNECT, AND ARR PREEMPTION CONDUITS AT THE LOCATIONS SHOWN AND EXTEND THE NEW CONDUITS TO JUNCTION BOX 2.
9. ASSIGN LOOP DETECTORS TO THE 7pr18 CABLES AS SHOWN.

CABLE	LOOP GROUPING
A	211, 221, 212, 222, 511, 512
B	213, 214, 223, 224, 513, 514
C	611, 621, 612, 622
D	111 112, 113, 114, 115
E	613, 614, 615, 623, 624, 625
F	411, 412, 413, 414
G	811, 812, 813, 814

COMPONENT	SIGN	SIGNAL		
AREA	5.0	9.6		
+DISTANCE	8.25	27.0		

* DISTANCES ARE MEASURED FROM THE CENTER OF THE MAST ARM POLE TO THE CENTER OF THE COMPONENT.

ILLUMINATION NOTES:

1. FOR INTERSECTION ILLUMINATION, INSTALL LUMINAIRES WITH A MEDIUM, CUTOFF, TYPE III IES DISTRIBUTION, 240 VOLT MAGNETIC REGULATOR BALLASTS, AND 400 WATT HPS LAMPS.

SIGNAL POLE 2

RECORD DRAWING
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PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	GB	SMB
TOPOGRAPHY	GB	SMB
PROFILE	JK	BCM
STORM SEWER	JCH	SMB
WATER/SANITARY SEWER	JCH	SMB
GAS	JCH	SMB
TELEPHONE	JCH	SMB
ELECTRIC	JCH	SMB
DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

CONSTRUCTION RECORD

GRAPHIC SCALE

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 Adjust		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273
CONSULTANT

STATE OF ALASKA 49TH
REBECCA CAMPBELL
CE 10464
REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

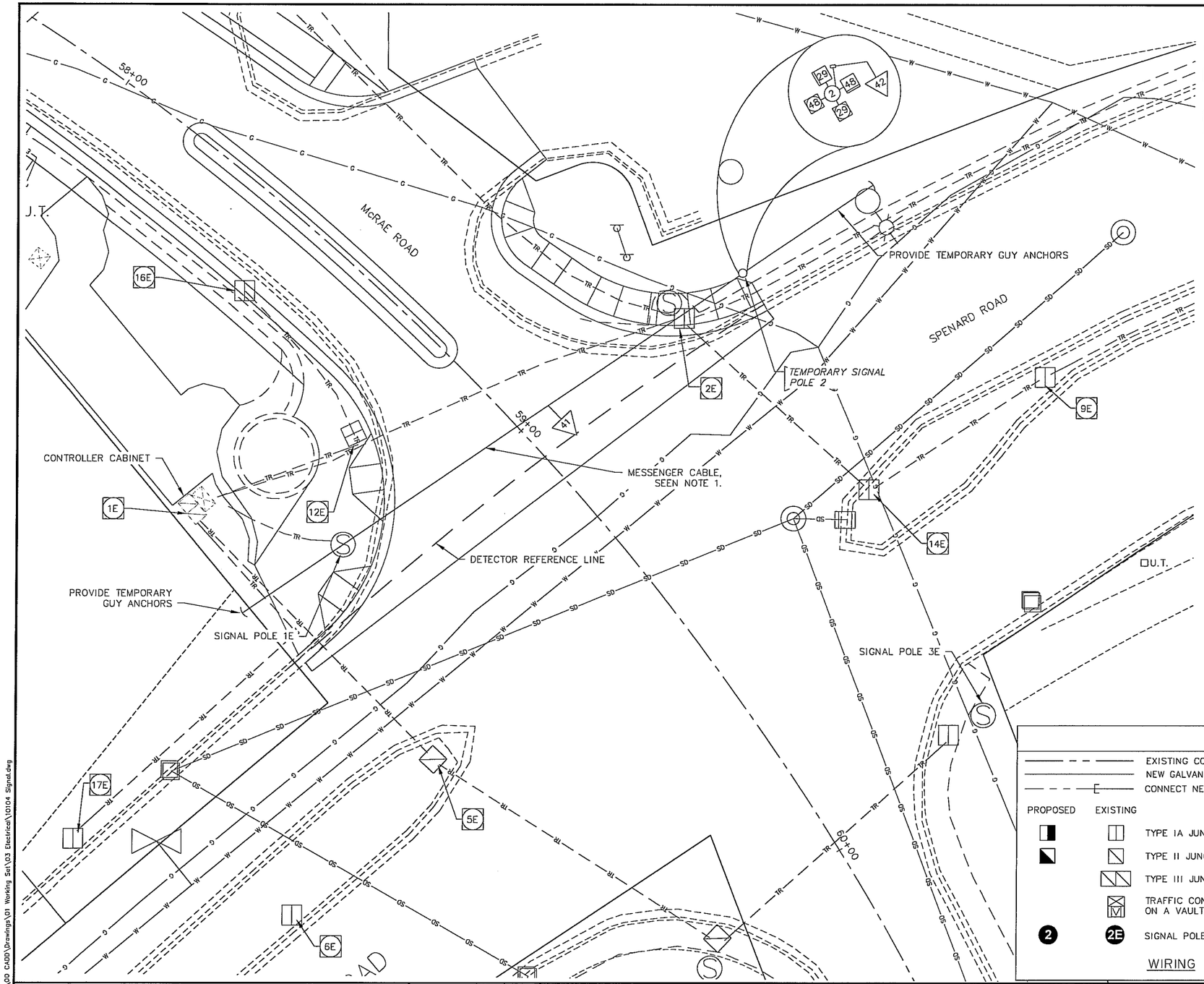
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS WISCONSIN STREET TO SPENARD ROAD SCHED C

McRAE RD AND SPENARD ROAD WIRING DIAGRAM

SCALE HOR. NTS VER. NTS | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET J3 of J5

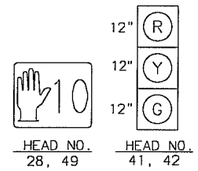
File: E:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\03 Electrical\10104 Signal.dwg



McRAE AND SPENARD TEMPORARY SIGNALIZATION NOTES:

1. PROVIDE WOOD SIGNAL POLE 2, MESSENGER CABLE BETWEEN SIGNAL POLES 1E AND 2, AND ANCHORS FOR GUYS ON SIGNAL POLES 1E AND 2.
2. PROVIDE SIGNAL VEHICULAR TRAFFIC SIGNAL 42 AND D3-1 STREET NAME SIGN. ALL OF THESE SHALL BE MOUNTED ON THE MESSENGER CABLES. TRAFFIC SIGNALS SHALL BECOME THE PROPERTY OF THE MUNICIPALITY.
3. FURNISH AND INSTALL COUNTDOWN PEDESTRIAN SIGNALS, PUSHBUTTONS AND VEHICULAR TRAFFIC SIGNAL 43 ON WOOD SIGNAL POLE 2.
4. FURNISH BEIGE COLORED CANVAS SHIRTS PER MASS SECTION 80.19, ARTICLE 19.2 PARAGRAPH A, AND COVER SIGNAL HEADS NOT IN USE.
5. SEE SHEET J5 FOR WIRING THE TEMPORARY SIGNAL.
6. AFTER MAKING THE TEMPORARY TRAFFIC SIGNAL OPERATIONS,
   6.1. REMOVE SIGNAL POLE 2 E
   6.2. REMOVE ALL CABLES AND CONDUIT BETWEEN SIGNAL POLE 2 E AND JUNCTION BOX 2E.
7. SHORE THE EXISTING CONDUIT CROSSING BETWEEN JUNCTION BOX 2E AND 1E ENCOUNTERED DURING ROAD AND WATER MAIN CONSTRUCTION.
8. REMOVE AND DISPOSE OF ALL VESTIGES OF THE TEMPORARY SIGNAL SYSTEM AFTER THE PERMANENT TRAFFIC CONTROL SIGNAL IS INSTALLED AND OPERATIONAL.
9. MAINTAIN PEDESTRIAN AND ADA ACCESS TO TEMPORARY SIGNAL POLE 2.

PRELIMINARY



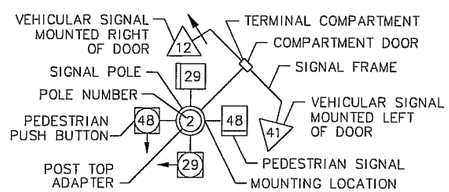
NEW SIGNAL FACES

TRAFFIC SIGNAL LEGEND

- EXISTING CONDUIT RUN
- NEW GALVANIZED RIGID METAL CONDUIT
- CONNECT NEW CONDUIT TO EXISTING

PROPOSED	EXISTING	
◨	◫	TYPE IA JUNCTION BOX
◪	▨	TYPE II JUNCTION BOX
	▨	TYPE III JUNCTION BOX
	⊠ M	TRAFFIC CONTROLLER ASSEMBLY ON A VAULT TYPE FOUNDATION
● 2	● 2E	SIGNAL POLE

WIRING



POLE MOUNTED SIGNAL HARDWARE

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DESIGN	JK	BCM
QUANTITIES	JK	BCM
PRELIMINARY/FINAL	JK	BCM
MUNICIPAL/STATE	JK	BCM

CONSTRUCTION RECORD

GRAPHIC 10 0 10 20 30 SCALE

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 65 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
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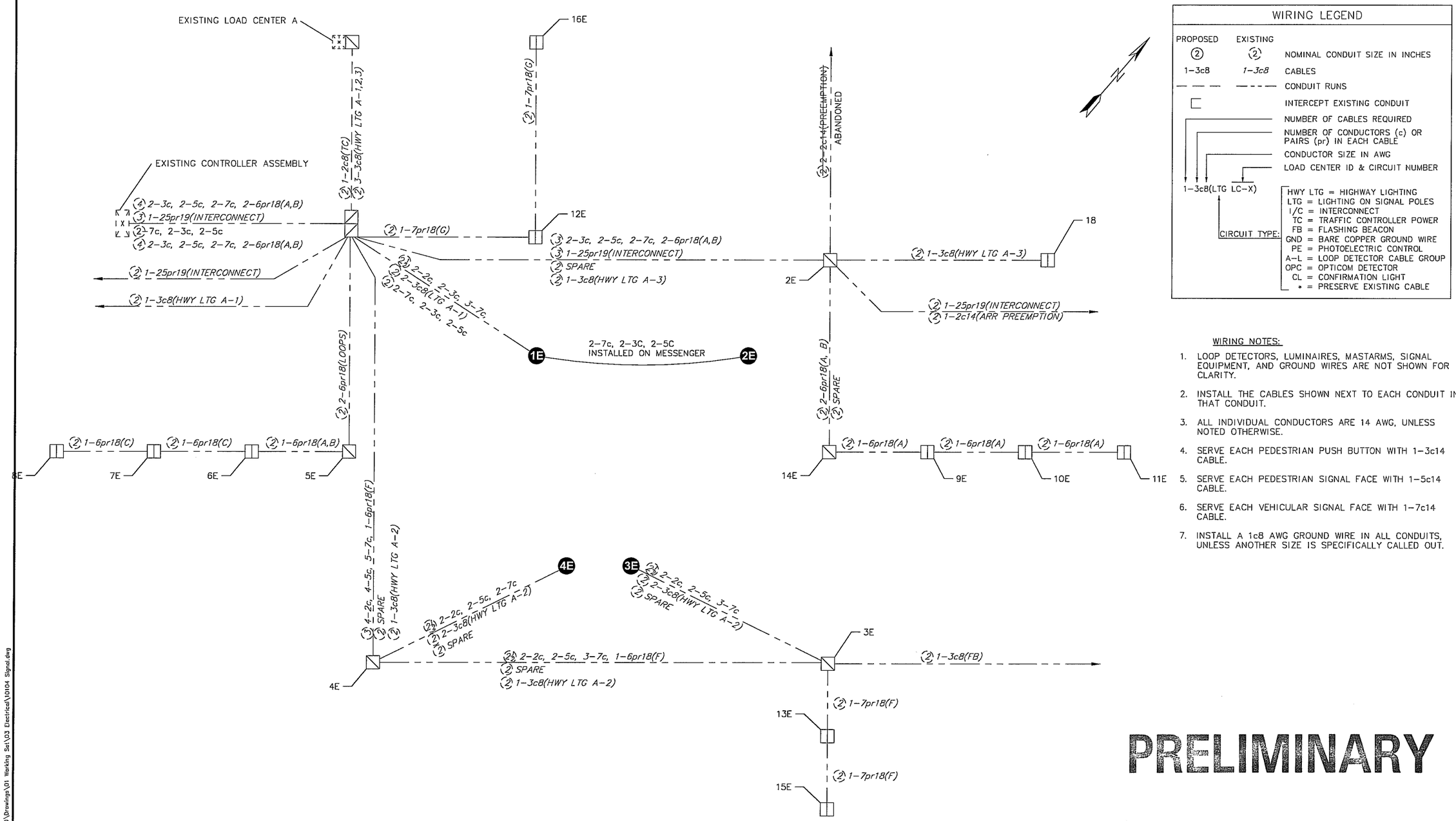
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS WISCONSIN STREET TO SPENARD ROAD SCHED C

McRAE RD AND SPENARD ROAD
TEMPORARY SIGNALIZATION IMPROVEMENTS

SCALE HOR. 1"=10'
VER. N/A
DATE FEB 2012
STATUS 95% DESIGN
GRID1627/1727/1728
SHEET J4 of J5

File:K:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\03 Electrical\10104 Signal.dwg



WIRING LEGEND

PROPOSED	EXISTING	
(2)	(2)	NOMINAL CONDUIT SIZE IN INCHES
1-3c8	1-3c8	CABLES
— — —	— — —	CONDUIT RUNS
⊏		INTERCEPT EXISTING CONDUIT

NUMBER OF CABLES REQUIRED
NUMBER OF CONDUCTORS (c) OR PAIRS (pr) IN EACH CABLE
CONDUCTOR SIZE IN AWG
LOAD CENTER ID & CIRCUIT NUMBER

1-3c8(LTG LC-X)

CIRCUIT TYPE:

- HWY LTG = HIGHWAY LIGHTING
- LTG = LIGHTING ON SIGNAL POLES
- I/C = INTERCONNECT
- TC = TRAFFIC CONTROLLER POWER
- FB = FLASHING BEACON
- GND = BARE COPPER GROUND WIRE
- PE = PHOTOELECTRIC CONTROL
- A-L = LOOP DETECTOR CABLE GROUP
- OPC = OPTICOM DETECTOR
- CL = CONFIRMATION LIGHT
- * = PRESERVE EXISTING CABLE

WIRING NOTES:

1. LOOP DETECTORS, LUMINAIRES, MASTARMS, SIGNAL EQUIPMENT, AND GROUND WIRES ARE NOT SHOWN FOR CLARITY.
2. INSTALL THE CABLES SHOWN NEXT TO EACH CONDUIT IN THAT CONDUIT.
3. ALL INDIVIDUAL CONDUCTORS ARE 14 AWG, UNLESS NOTED OTHERWISE.
4. SERVE EACH PEDESTRIAN PUSH BUTTON WITH 1-3c14 CABLE.
5. SERVE EACH PEDESTRIAN SIGNAL FACE WITH 1-5c14 CABLE.
6. SERVE EACH VEHICULAR SIGNAL FACE WITH 1-7c14 CABLE.
7. INSTALL A 1c8 AWG GROUND WIRE IN ALL CONDUITS, UNLESS ANOTHER SIZE IS SPECIFICALLY CALLED OUT.

PRELIMINARY

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CONSTRUCTION RECORD

GRAPHIC SCALE

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN CRW Books 85 & MOA 2007-01	GAAB77	See MOA Benchmark Book Page D-20	89.89
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REVISIONS

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PROJECT MANAGEMENT AND ENGINEERING DIVISION

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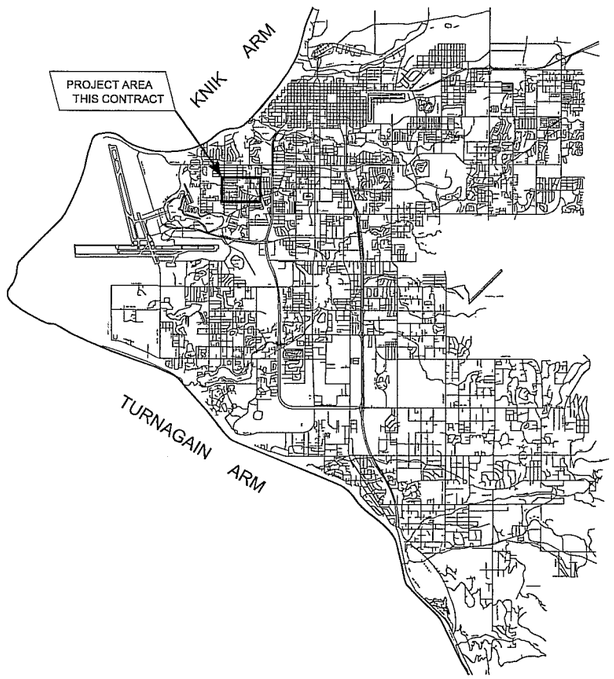
WISCONSIN STREET TO SPENARD ROAD

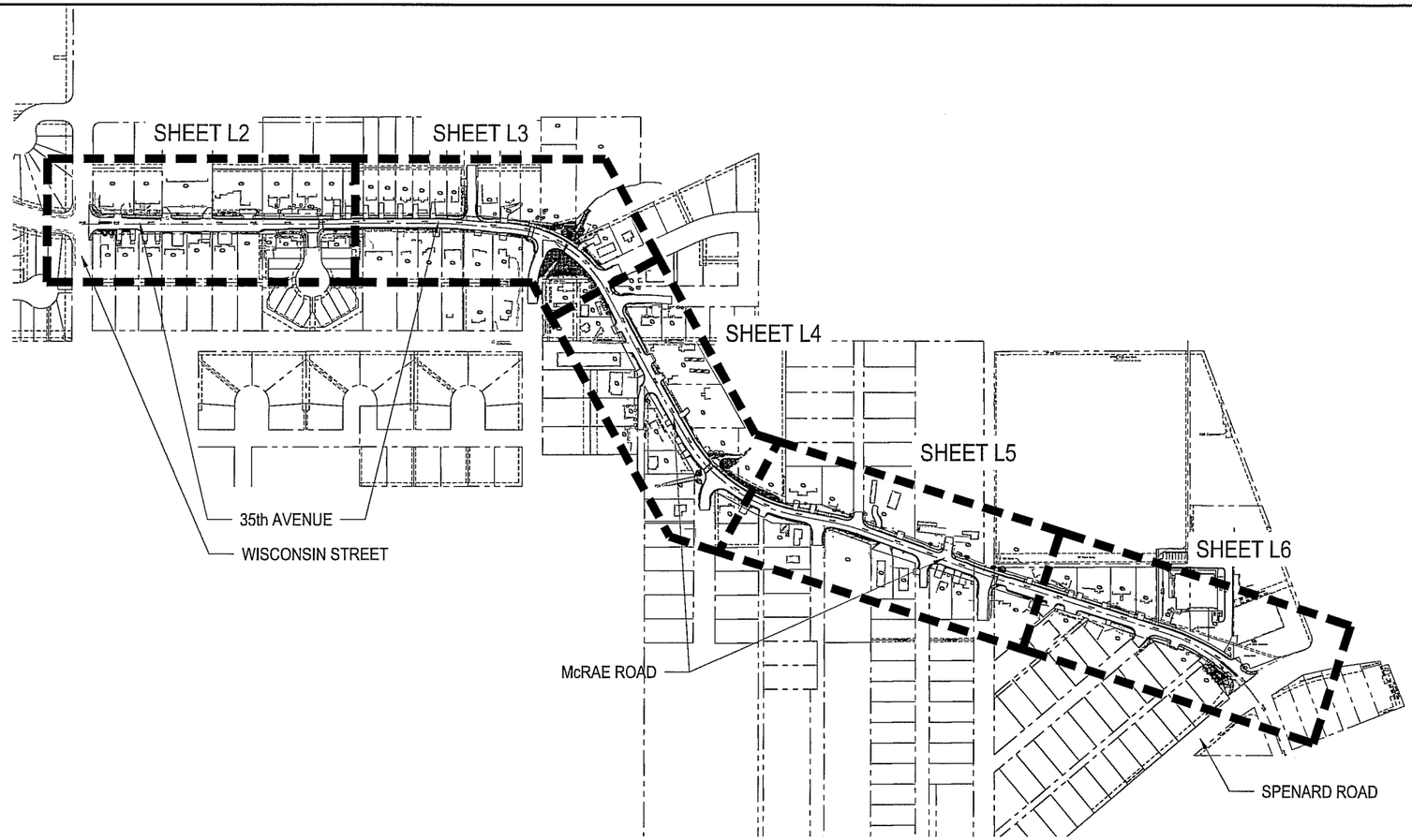
McRAE RD AND SPENARD ROAD
TEMPORARY SIGNAL WIRING DIAGRAM

SCALE HOR. NTS VER. NTS | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET J5 of J5

File: J:\Jobsdata\V0104 35th & McRae\00 CADD\Drawings\01 Working Set\03 Electrical\V0104 Signal.dwg



VICINITY MAP



PRELIMINARY

PLANT SCHEDULE

EVERGREEN TREES

QTY.	SYMBOL	ABBR.	LATIN NAME	COMMON NAME	SIZE	FURNISHING	NOTES
8		PP	PICEA PUNGENS	COLORADO GREEN SPRUCE	6' HT.	B&B	5:3 HEIGHT TO SPREAD RATIO

DECIDUOUS TREES

QTY.	SYMBOL	ABBR.	LATIN NAME	COMMON NAME	SIZE	FURNISHING	NOTES
29		BP	BETULA PAPYRIFERA	PAPER BIRCH	2" CALIPER	B&B	SINGLE STEM

SHRUBS

QTY.	SYMBOL	ABBR.	LATIN NAME	COMMON NAME	SIZE	FURNISHING	NOTES
156		RS	ROSA ACICULARIS	PRICKLY ROSE	24" HEIGHT	POTTED	N/A
51		VE	VIBURNUM EDULE	HIGH BUSH CRANBERRY	24" HEIGHT	POTTED	N/A

MISCELLANEOUS

SCHEDULE A SEED MIX	12	BOULDER TYPE A	EXISTING TREE
SCHEDULE C WETLAND SEED MIX	19	BOULDER TYPE B	
	4	BOULDER TYPE C	
		LANDSCAPE EDGING	

GENERAL NOTES:

1. ALL PLANTS ARE NURSERY GROWN UNLESS SPECIFIED OTHERWISE.
2. ALL PLANTING BEDS SHALL RECEIVE 18" TOPSOIL AND 3" DEPTH BARK MULCH.
3. REFER TO SHEET L7 FOR PLANTING DETAILS.
4. 4" TOPSOIL AND SEED ALL DISTURBED AREAS WITH SCHEDULE NOTED ON PLANS.
5. MOOSE PROTECTION FENCE, INSTALLED PER DETAIL 6, SHEET L7, IS REQUIRED FOR ALL NEW INDIVIDUAL AND GROUPS OF DECIDUOUS TREE PLANTINGS.

N

RECORD DRAWING

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PROFILE		
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GAS		
TELEPHONE		
ELECTRIC		
DESIGN		
QUANTITIES		
PRELIMINARY/FINAL		
MUNICIPAL/STATE		

PLAN CHECK

GRAPHIC SCALE 200 0 200 400 600

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN			
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

BETTISWORTH NORTH ARCHITECTS AND PLANNERS — CONSULTANT

STATE OF ALASKA 49TH — MARK M KIMERER No.11157 — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — SEAL

MUNICIPALITY OF ANCHORAGE

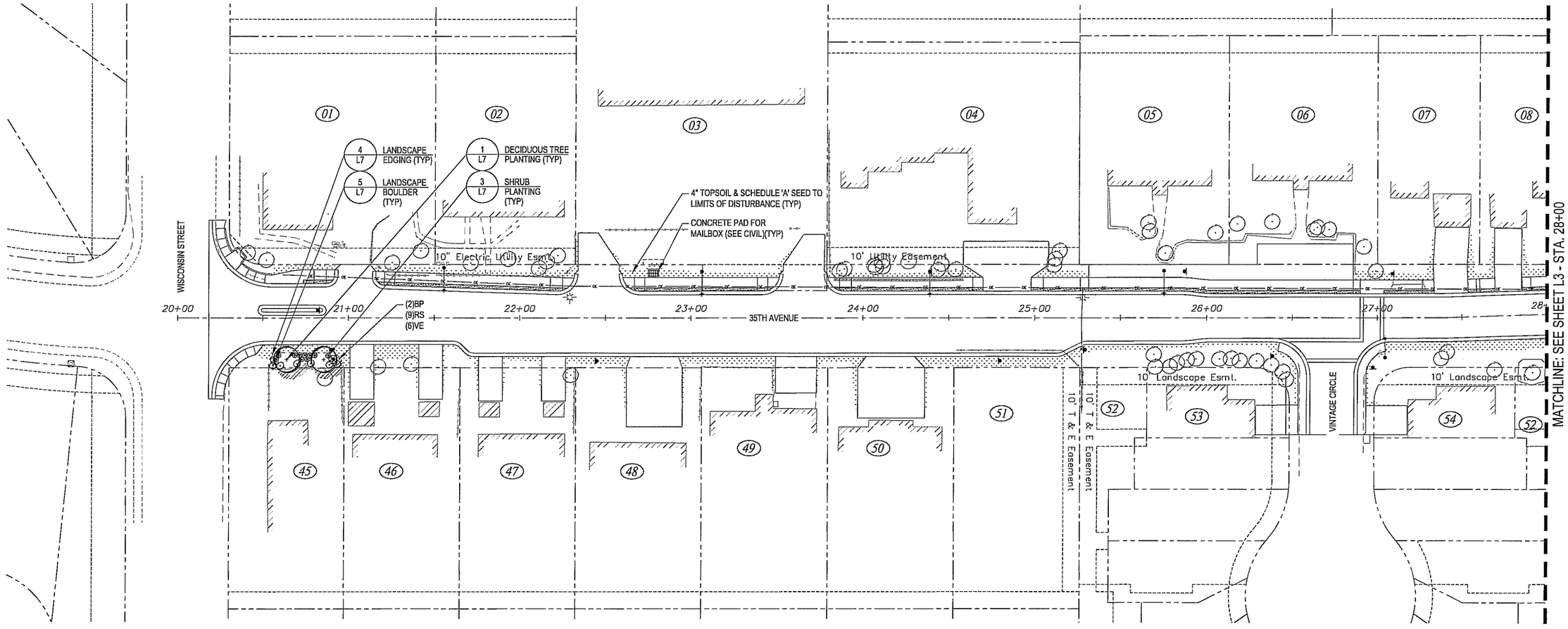
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS
WISCONSIN STREET TO SPENARD ROAD

OVERALL LANDSCAPE PLAN AND PLANTING SCHEDULE

SCALE HOR. 1 VER. 1 | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET L1 of L11

File: P:\11-125 35th & McRae\2-CAD\Drawings\LA\LP_PLANS.dwg



PLANT LEGEND

EVERGREEN TREES

SYMBOL	ABBR.	LATIN NAME	COMMON NAME
	PP	PICEA PUNGENS	COLORADO GREEN SPRUCE

DECIDUOUS TREES

SYMBOL	ABBR.	LATIN NAME	COMMON NAME
	BP	BETULA PAPYRIFERA	PAPER BIRCH

SHRUBS

SYMBOL	ABBR.	LATIN NAME	COMMON NAME
	RS	ROSA ACICULARIS	PRICKLY ROSE
	VE	VIBURNUM EDULE	HIGH BUSH CRANBERRY

MISCELLANEOUS

- SCHEDULE A SEED MIX
- SCHEDULE C WETLAND SEED MIX
- EXISTING TREE
- BOULDER TYPE A
- BOULDER TYPE B
- BOULDER TYPE C
- LANDSCAPE EDGING

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GRAPHIC SCALE 30 0 30 60 90

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CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

BETTISWORTH NORTH ARCHITECTS AND PLANNERS 3604 DENALI STREET SUITE 201 ANCHORAGE, ALASKA 99503 (907) 561-4011

CONSULTANT

STATE OF ALASKA 49TH MARK M KIMERER No.11157 REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

SEAL

MUNICIPALITY OF ANCHORAGE

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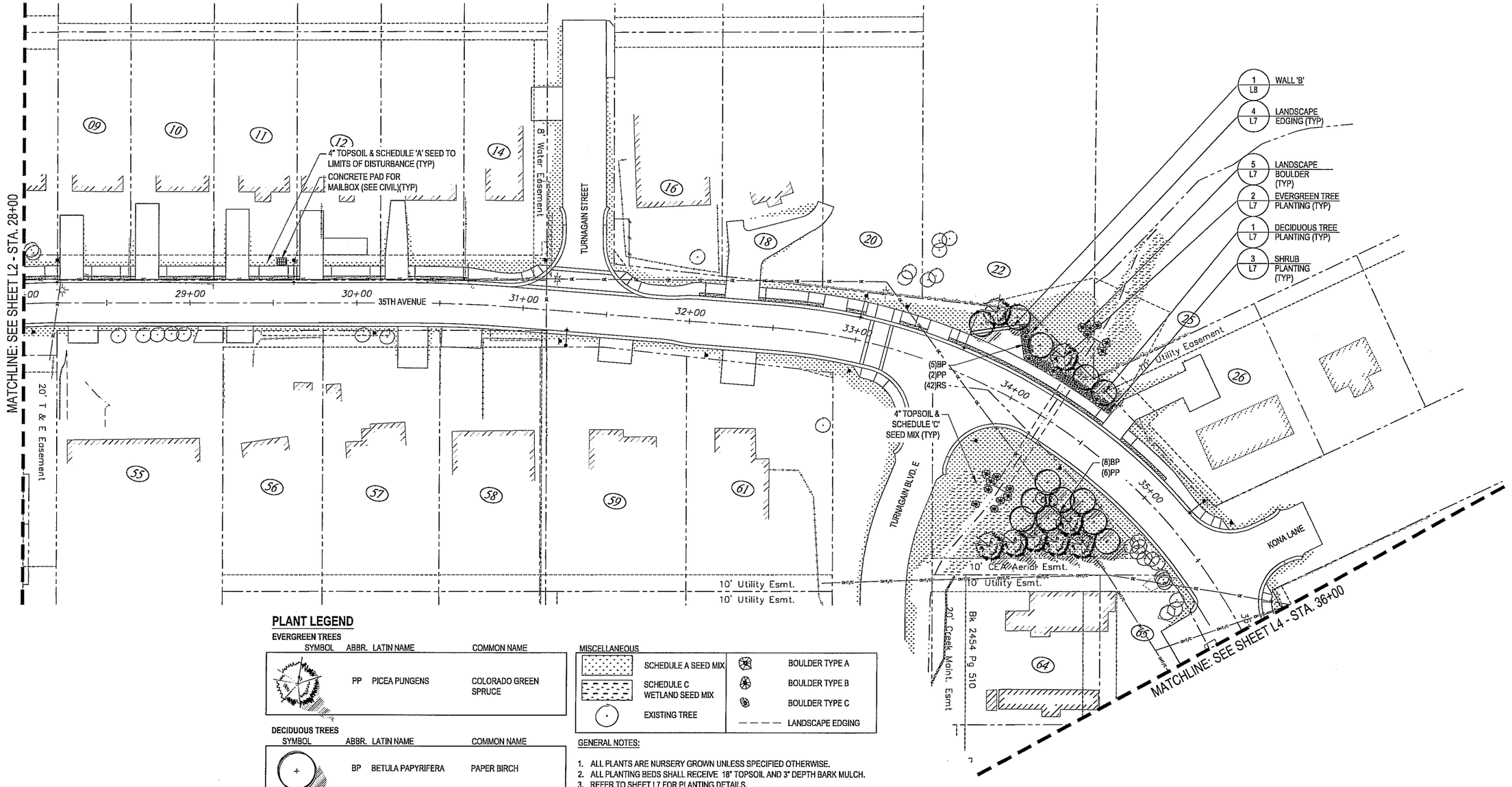
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS
WISCONSIN STREET TO SPENARD ROAD

LANDSCAPE PLAN

STA. 20+00 to 28+00

SCALE HOR. 1 VER. 1 | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET L2 of L11

File: P:\11-125 35th & McRae\2-CAD\Drawings\LA\LP_PLANS.dwg



PLANT LEGEND

EVERGREEN TREES

SYMBOL	ABBR.	LATIN NAME	COMMON NAME
	PP	PICEA PUNGENS	COLORADO GREEN SPRUCE

DECIDUOUS TREES

SYMBOL	ABBR.	LATIN NAME	COMMON NAME
	BP	BETULA PAPYRIFERA	PAPER BIRCH

SHRUBS

SYMBOL	ABBR.	LATIN NAME	COMMON NAME
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	VE	VIBURNUM EDULE	HIGH BUSH CRANBERRY

MISCELLANEOUS

- SCHEDULE A SEED MIX
- SCHEDULE C WETLAND SEED MIX
- EXISTING TREE
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GRAPHIC SCALE 30 0 30 60 90

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WISCONSIN STREET TO SPENARD ROAD

LANDSCAPE PLAN

STA. 28+00 to 36+00

SCALE HOR. 1 VER. 1 | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET L3 of L11

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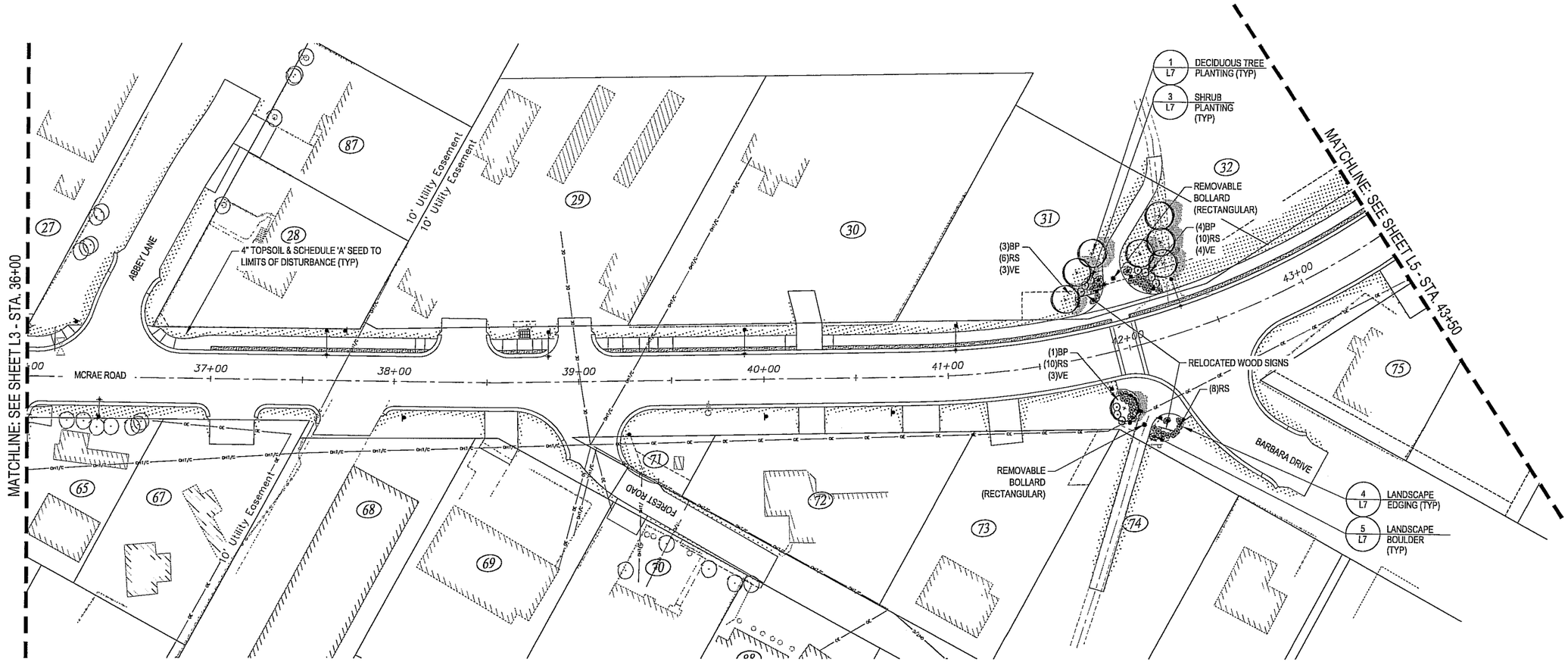

PRELIMINARY

PLANT LEGEND

EVERGREEN TREES

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	PP	PICEA PUNGENS	COLORADO GREEN SPRUCE

DECIDUOUS TREES

SYMBOL	ABBR.	LATIN NAME	COMMON NAME
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SHRUBS

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MISCELLANEOUS

SCHEDULE A SEED MIX	BOULDER TYPE A
SCHEDULE C WETLAND SEED MIX	BOULDER TYPE B
EXISTING TREE	BOULDER TYPE C
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2. ALL PLANTING BEDS SHALL RECEIVE 18" TOPSOIL AND 3" DEPTH BARK MULCH.
3. REFER TO SHEET L7 FOR PLANTING DETAILS.
4. 4" TOPSOIL AND SEED ALL DISTURBED AREAS WITH SCHEDULE NOTED ON PLANS.
5. MOOSE PROTECTION FENCE, INSTALLED PER DETAIL 6, SHEET L7, IS REQUIRED FOR ALL NEW INDIVIDUAL AND GROUPS OF DECIDUOUS TREE PLANTINGS.

N

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.
   CONTRACTOR: _____
   BY: _____ TITLE: _____ DATE: _____
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DATA	DRAWN BY	CHECKED BY
BASE		
TOPOGRAPHY		
PROFILE		
STORM SEWER		
WATER/SANITARY SEWER		
GAS		
TELEPHONE		
ELECTRIC		
DESIGN		
QUANTITIES		
PRELIMINARY/FINAL		
MUNICIPAL/STATE		

PLAN CHECK

GRAPHIC SCALE 30 0 30 60 90

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN			
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

BETTISWORTH NORTH ARCHITECTS AND PLANNERS — CONSULTANT

STATE OF ALASKA 49TH — MARK M KIMERER No.11157 — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

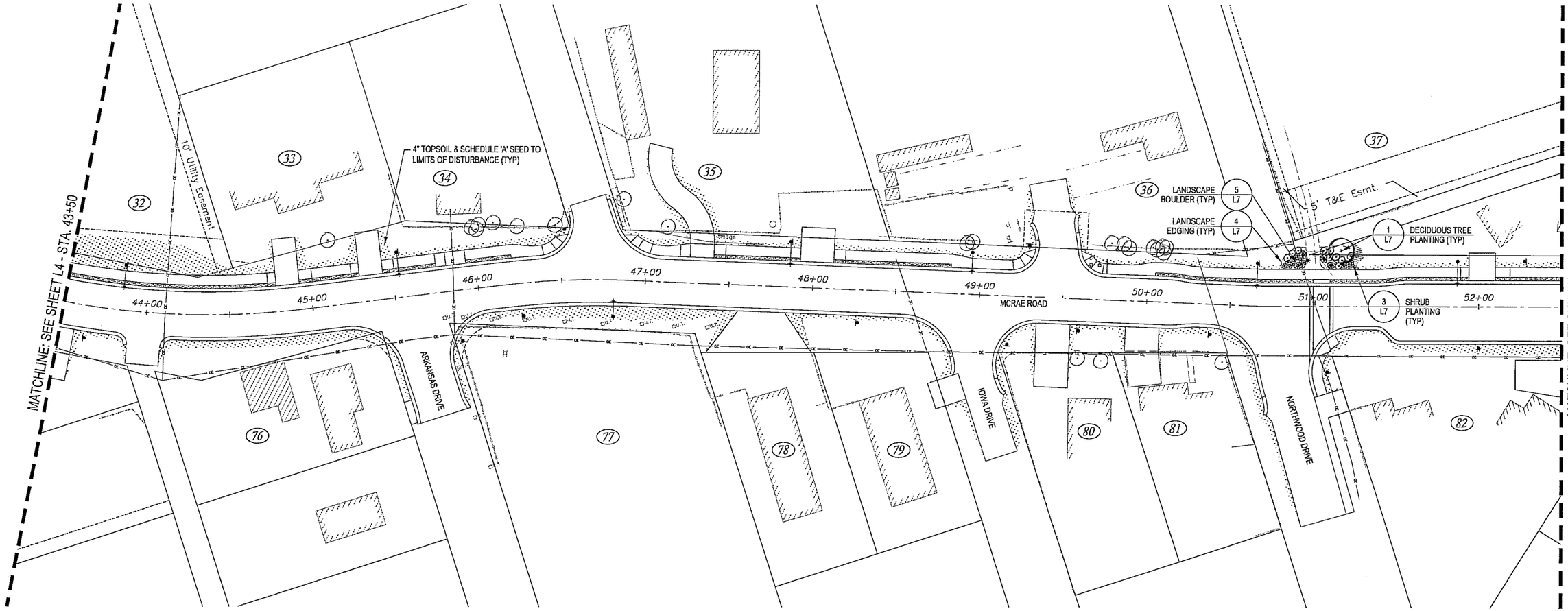
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS
WISCONSIN STREET TO SPENARD ROAD

LANDSCAPE PLAN

STA. 36+00 to 43+50

SCALE HOR. 1 VER. 1 | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET L4 of L11

File: P:\11-125 35th & McRae\2-CAD\Drawings\LA\LP_PLANS.dwg



PRELIMINARY

PLANT LEGEND

EVERGREEN TREES

SYMBOL	ABBR.	LATIN NAME	COMMON NAME
	PP	PICEA PUNGENS	COLORADO GREEN SPRUCE

DECIDUOUS TREES

SYMBOL	ABBR.	LATIN NAME	COMMON NAME
	BP	BETULA PAPYRIFERA	PAPER BIRCH

SHRUBS

SYMBOL	ABBR.	LATIN NAME	COMMON NAME
	RS	ROSA ACICULARIS	PRICKLY ROSE
	VE	VIBURNUM EDULE	HIGH BUSH CRANBERRY

MISCELLANEOUS

- SCHEDULE A SEED MIX
- SCHEDULE C WETLAND SEED MIX
- EXISTING TREE
- BOULDER TYPE A
- BOULDER TYPE B
- BOULDER TYPE C
- LANDSCAPE EDGING

GENERAL NOTES:

1. ALL PLANTS ARE NURSERY GROWN UNLESS SPECIFIED OTHERWISE.
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3. REFER TO SHEET L7 FOR PLANTING DETAILS.
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TOPOGRAPHY		
PROFILE		
STORM SEWER		
WATER/SANITARY SEWER		
GAS		
TELEPHONE		
ELECTRIC		
DESIGN		
QUANTITIES		
PRELIMINARY/FINAL		
MUNICIPAL/STATE		

PLAN CHECK

GRAPHIC SCALE 30 0 30 60 90

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN			
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

BETTISWORTH NORTH ARCHITECTS AND PLANNERS
3604 DENALI STREET SUITE 310 ANCHORAGE, ALASKA 99503 (907) 349-3601

CONSULTANT

STATE OF ALASKA 49TH
MARK M KIMERER No.11157
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

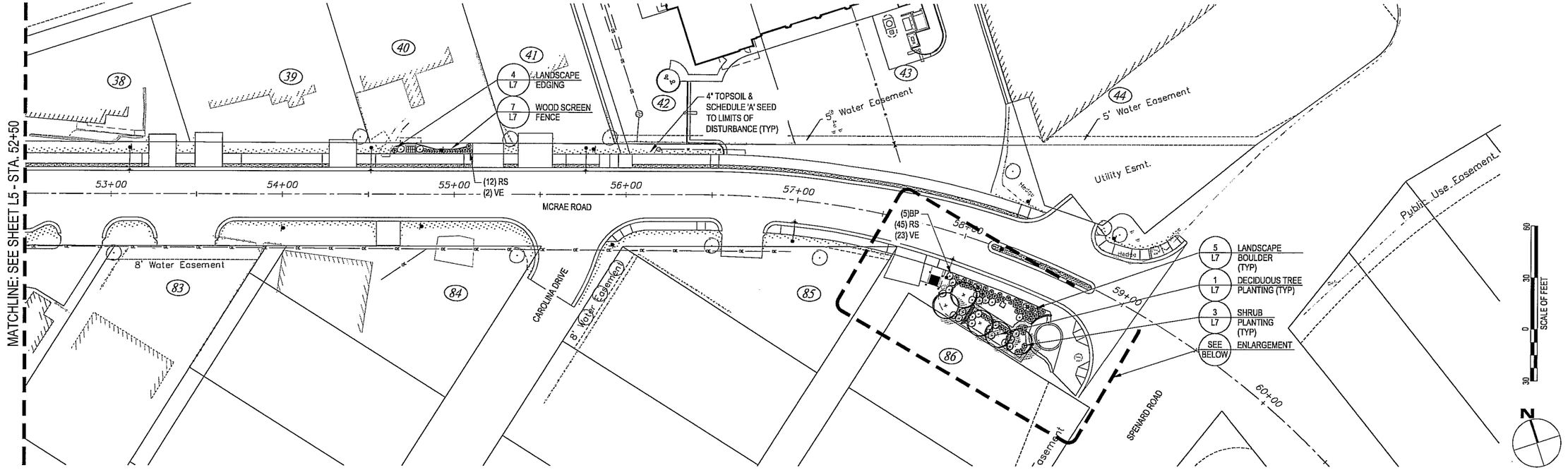
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS
WISCONSIN STREET TO SPENARD ROAD

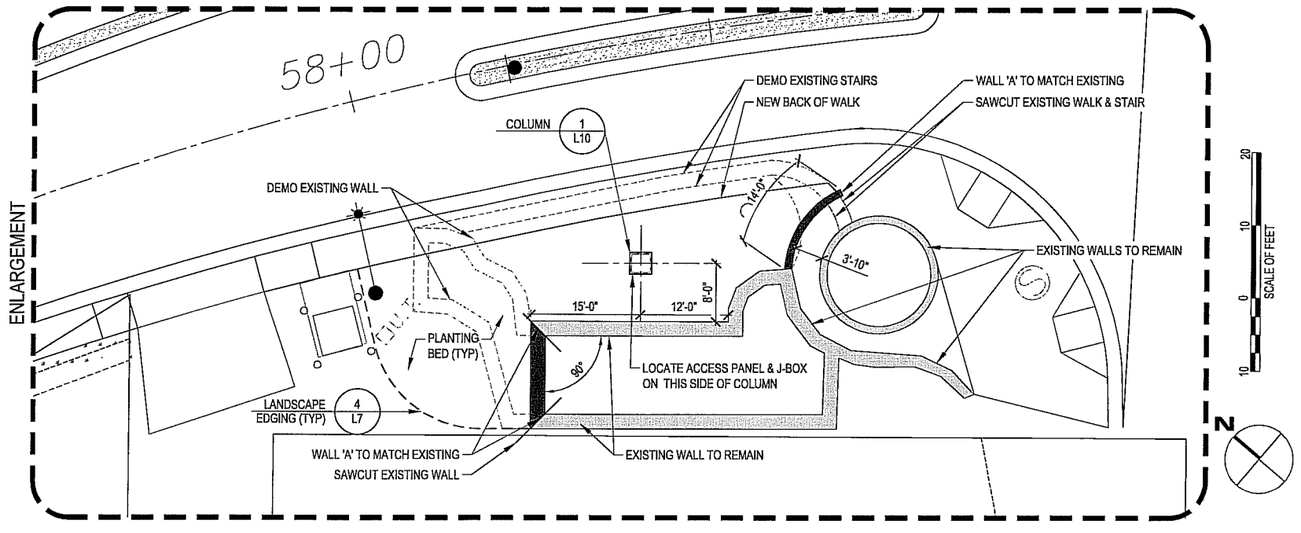
LANDSCAPE PLAN

STA. 43+50 to 52+50

SCALE HOR. 1 VER. 1 | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET L5 of L11

File: P:\11-123 35th & McRae\2-CAD\Drawings\LA\LP_PLANS.dwg





PRELIMINARY

PLANT LEGEND

EVERGREEN TREES

SYMBOL	ABBR.	LATIN NAME	COMMON NAME
	PP	PICEA PUNGENS	COLORADO GREEN SPRUCE

DECIDUOUS TREES

SYMBOL	ABBR.	LATIN NAME	COMMON NAME
	BP	BETULA PAPYRIFERA	PAPER BIRCH

SHRUBS

SYMBOL	ABBR.	LATIN NAME	COMMON NAME
	RS	ROSA ACICULARIS	PRICKLY ROSE
	VE	VIBURNUM EDULE	HIGH BUSH CRANBERRY

MISCELLANEOUS

- SCHEDULE A SEED MIX
- SCHEDULE C WETLAND SEED MIX
- EXISTING TREE
- BOULDER TYPE A
- BOULDER TYPE B
- BOULDER TYPE C
- LANDSCAPE EDGING

GENERAL NOTES:

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TOPOGRAPHY		
PROFILE		
STORM SEWER		
WATER/SANITARY SEWER		
GAS		
TELEPHONE		
ELECTRIC		
DESIGN		
QUANTITIES		
PRELIMINARY/FINAL		
MUNICIPAL/STATE		

PLAN CHECK

GRAPHIC SCALE 30 0 30 60 90

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN			
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

BETTISWORTH NORTH ARCHITECTS AND PLANNERS — CONSULTANT

STATE OF ALASKA 49TH — MARK M KIMERER No.11157 — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS
WISCONSIN STREET TO SPENARD ROAD

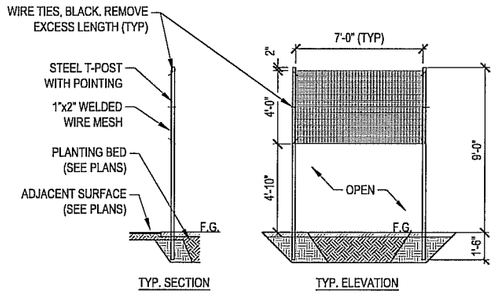
LANDSCAPE PLAN

STA. 52+50 to End of Project

SCALE HOR. 1 VER. 1 | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET L6 of L11

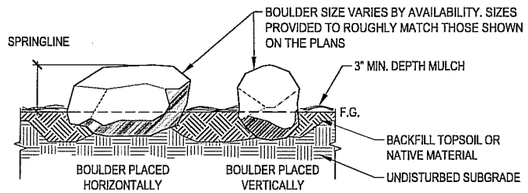
File: P:\11-125 35th & McRae\2-CAD\Drawings\LA\LP_PLANS.dwg

PRELIMINARY



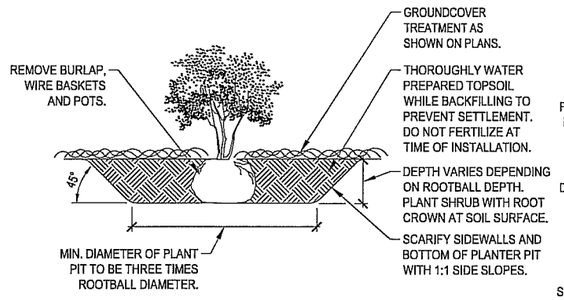
NOTES:
1. MOOSE PROTECTION FENCING REQUIRED AROUND ALL NEW DECIDUOUS TREES.
2. FOR INDIVIDUAL TREES, 3 POSTS REQUIRED PER TREE.
3. FOR TREE GROUPINGS, PLACE T-POSTS SO THAT MESH DOES NOT TOUCH BRANCHES.

6/L7 MOOSE PROTECTION FENCE
1/4" = 1'-0"

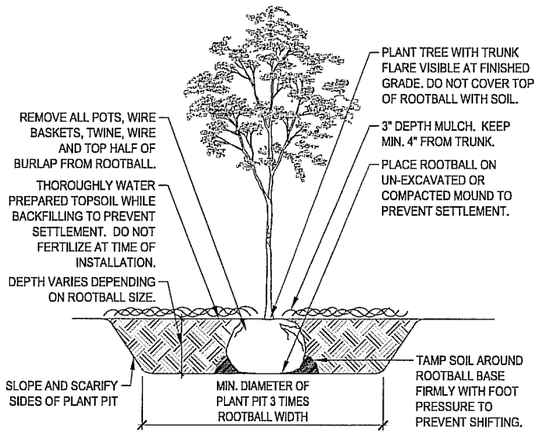


NOTES:
1) MAX. 1/2 BOULDER HEIGHT ABOVE GROUND, MIN. 1/3 HEIGHT.
2) FILL TO ENSURE NO GAPS BELOW SPRINGLINE.

5/L7 LANDSCAPE BOULDERS
1" = 1'-0"

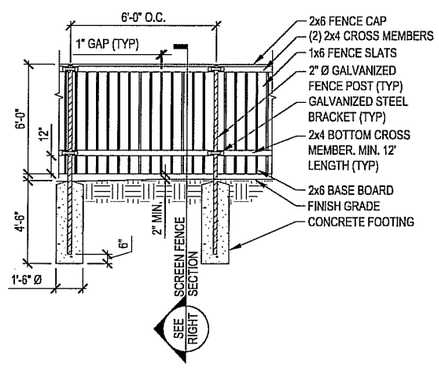


3/L7 SHRUB PLANTING
NTS



1/L7 DECIDUOUS TREE
3/4" = 1'-0"

ELEVATION: BACK



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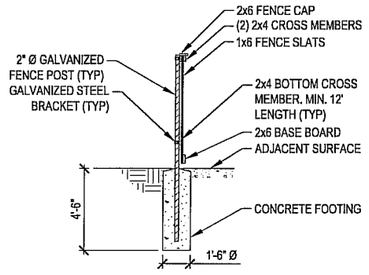
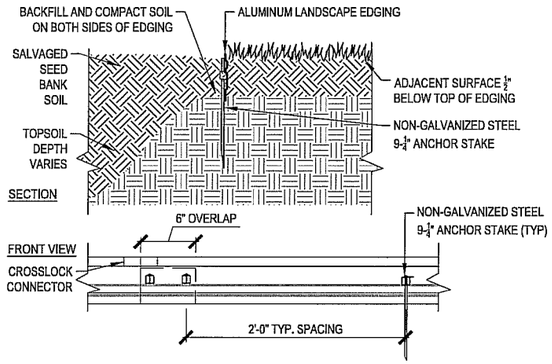


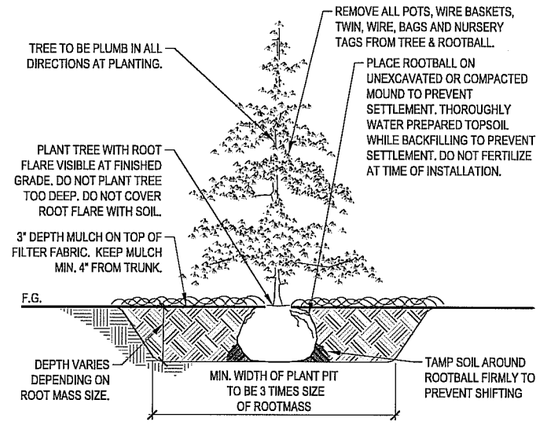
NOTES:
1) ALL FASTENERS & HARDWARE TO BE HOT-DIPPED GALV. STEEL
2) MAINTAIN TOP OF FENCE AT UNIFORM ELEVATION.
3) ALL WOOD SHALL BE SELECT #1 OR BETTER.

7/L7 WOOD SCREEN FENCE
1/4" = 1'-0"



NOTES:
1) INSTALL EDGING PER MANUFACTURERS SPECIFICATIONS.

4/L10 LANDSCAPE EDGING
NTS



2/L7 EVERGREEN TREE
NTS

File: P:\11-125 35th & McRae\2-CAD\Drawings\LA\LP_DETAILS.dwg

RECORD DRAWING
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DATA	DRAWN BY	CHECKED BY
BASE		
TOPOGRAPHY		
PROFILE		
STORM SEWER		
WATER/SANITARY SEWER		
GAS		
TELEPHONE		
ELECTRIC		
DESIGN		
QUANTITIES		
PRELIMINARY/FINAL		
MUNICIPAL/STATE		
PLAN CHECK		

GRAPHIC 0 SCALE

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN			
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM		
INSPECTOR			
CONSTRUCTION RECORD	VERTICAL DATUM		

REV	DATE	DESCRIPTION	BY
REVISIONS			

BETTISWORTH NORTH ARCHITECTS AND PLANNERS
CONSULTANT

STATE OF ALASKA 49TH
MARK M KIMERER No.11157
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

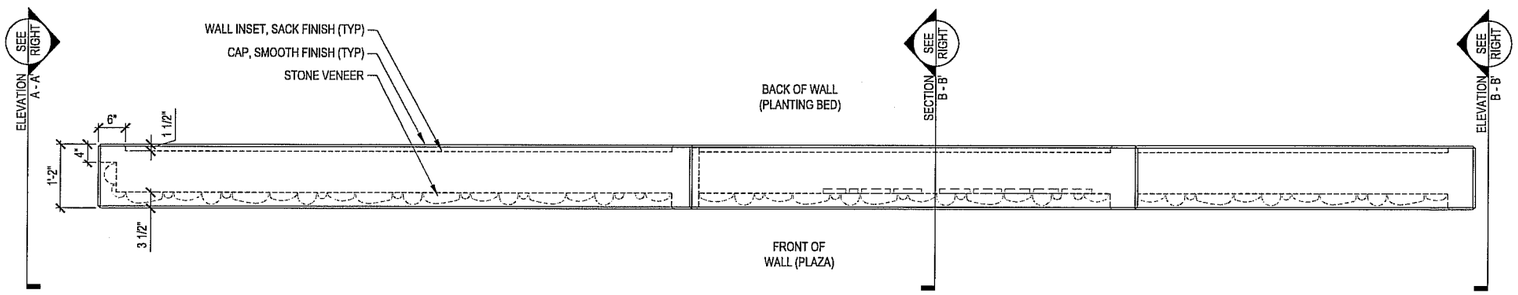
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS
WISCONSIN STREET TO SPENARD ROAD

LANDSCAPE DETAILS

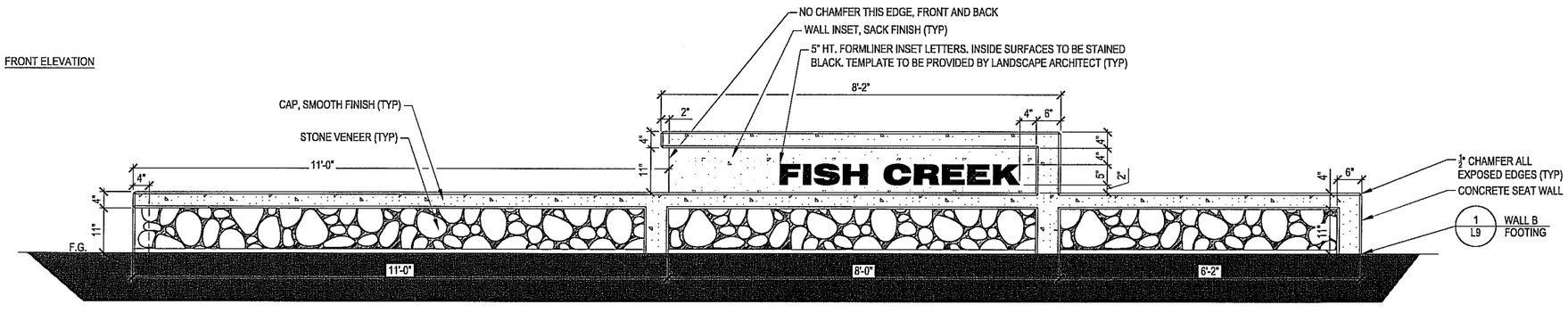
SCALE HOR.
VER.
DATE FEB 2012
GRID1627/1727/1728
STATUS 95% DESIGN
SHEET L7 of L11

PRELIMINARY

PLAN VIEW

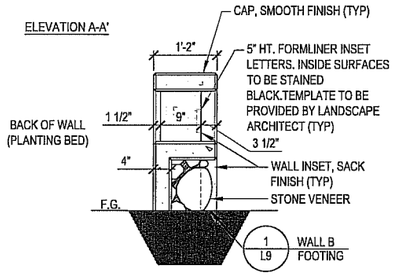


FRONT ELEVATION

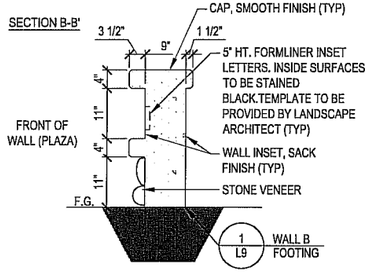


1 / L8 WALL B
3/4" = 1'-0"

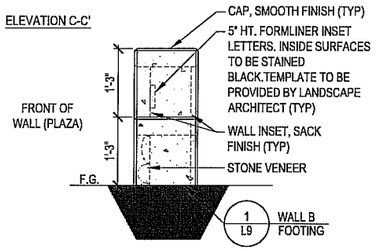
ELEVATION A-A'



SECTION B-B'



ELEVATION C-C'



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STORM SEWER		
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GAS		
TELEPHONE		
ELECTRIC		
DESIGN		
QUANTITIES		
PRELIMINARY/FINAL		
MUNICIPAL/STATE		
PLAN CHECK		

GRAPHIC 0 SCALE

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN			
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

BETTISWORTH NORTH ARCHITECTS AND PLANNERS
3000 DENALI STREET SUITE 700 ANCHORAGE, ALASKA 99503 (907) 561-1480
CONSULTANT

STATE OF ALASKA 49TH
MARK M KIMERER No.11157
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

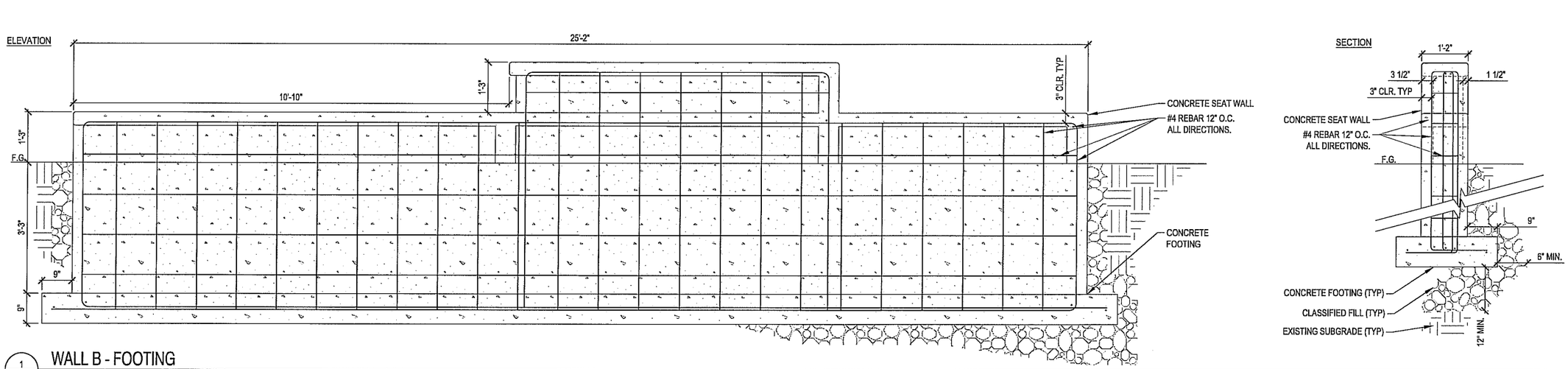
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS
WISCONSIN STREET TO SPENARD ROAD

LANDSCAPE DETAILS

SCALE HOR.
VER.
DATE FEB 2012
GRID1627/1727/1728
STATUS 95% DESIGN
SHEET L8 of L11

File: P:\11-125 35th & McRae\2-CAD\Drawings\LA\LP_DETAILS.dwg

PRELIMINARY



1/L9 WALL B - FOOTING

3/4" = 1'-0"

RECORD DRAWING

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CONSTRUCTION RECORD — VERTICAL DATUM

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REVISIONS

BETTISWORTH NORTH ARCHITECTS AND PLANNERS — CONSULTANT

STATE OF ALASKA 49TH — MARK M KIMERER No.11157 — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — SEAL

MUNICIPALITY OF ANCHORAGE

PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

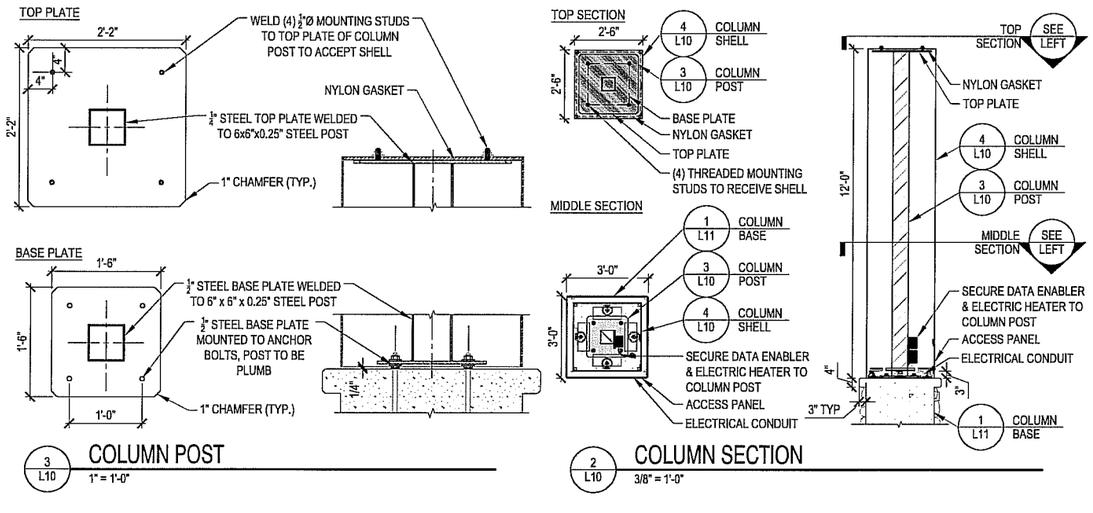
03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS
WISCONSIN STREET TO SPENARD ROAD

LANDSCAPE DETAILS

SCALE HOR. VER. | DATE FEB 2012 | GRID1627/1727/1728 | STATUS 95% DESIGN | SHEET L9 of L11

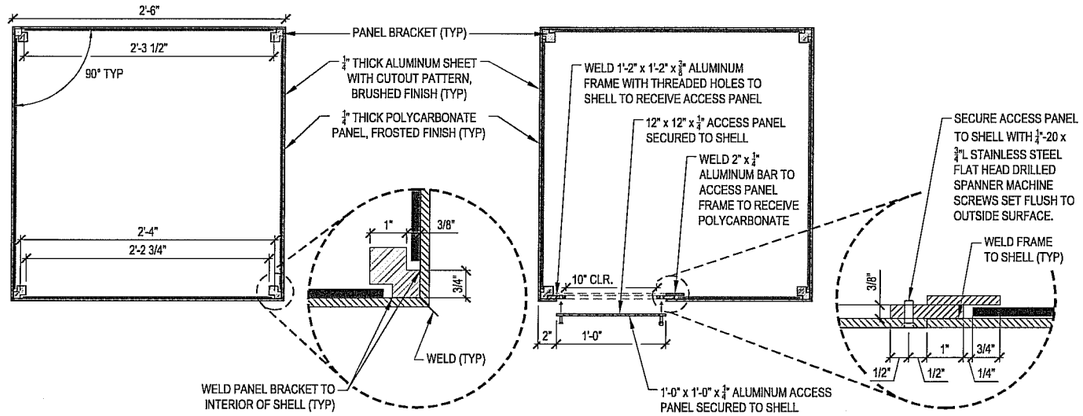
File P:\11-123 35th & McRae\2-CAD\Drawings\LA\P_DETAILS.dwg

PRELIMINARY

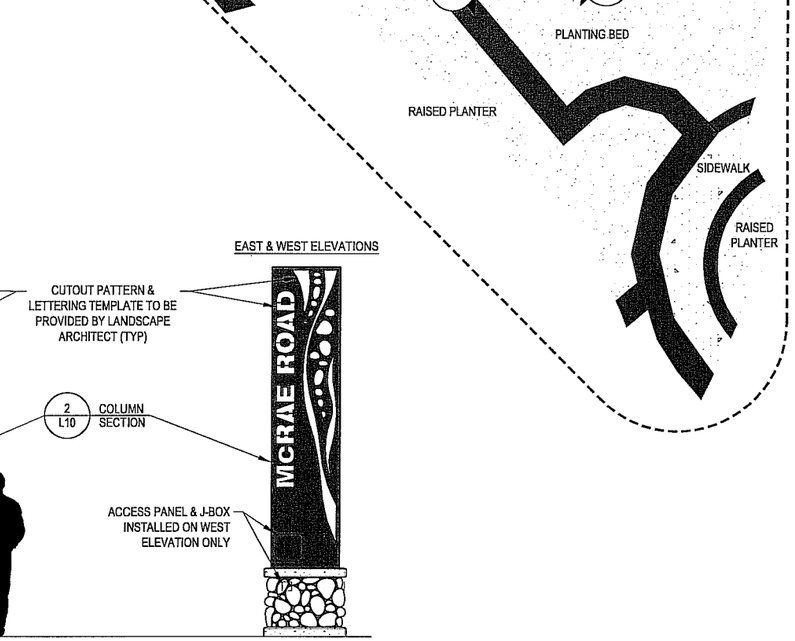


3 L10 COLUMN POST
1" = 1'-0"

2 L10 COLUMN SECTION
3/8" = 1'-0"



4 L10 COLUMN SHELL
1-1/2" = 1'-0"



1 L10 COLUMN
3/8" = 1'-0"

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DATA TRANSFER CHECKED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE		
TOPOGRAPHY		
PROFILE		
STORM SEWER		
WATER/SANITARY SEWER		
GAS		
TELEPHONE		
ELECTRIC		
DESIGN		
QUANTITIES		
PRELIMINARY/FINAL		
MUNICIPAL/STATE		
PLAN CHECK		

GRAPHIC 0 SCALE

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN			
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

BETTISWORTH NORTH ARCHITECTS AND PLANNERS
3800 DENALI STREET #1175 (TH)
ANCHORAGE, ALASKA 99503
(907) 563-8801

CONSULTANT

STATE OF ALASKA 49TH
MARK M KIMERER No.11157
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

SEAL

MUNICIPALITY OF ANCHORAGE

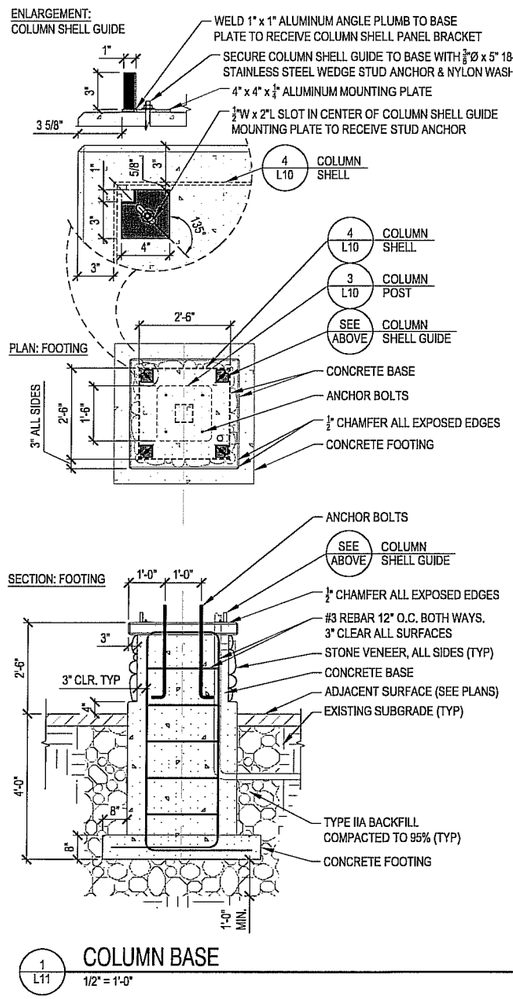
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT AND ENGINEERING DIVISION

03-09 35TH AVENUE AND McRAE ROAD IMPROVEMENTS
WISCONSIN STREET TO SPENARD ROAD

LANDSCAPE DETAILS

SCALE HOR.
VER.
DATE FEB 2012
GRID1627/1727/1728
STATUS 95% DESIGN
SHEET L10 of L11

File: P:\11-125 35th & McRae\2-CAD\Drawings\LA\LP_DETAILS.dwg



1 L11 COLUMN BASE
1/2" = 1'-0"

PRELIMINARY

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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: _____ TITLE: _____
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: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE		
TOPOGRAPHY		
PROFILE		
STORM SEWER		
WATER/SANITARY SEWER		
GAS		
TELEPHONE		
ELECTRIC		
DESIGN		
QUANTITIES		
PRELIMINARY/FINAL		
MUNICIPAL/STATE		

GRAPHIC 0 SCALE

CONSTRUCTION RECORD

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
DESIGN			
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM		
INSPECTOR			

VERTICAL DATUM

REVISIONS

REV	DATE	DESCRIPTION	BY

CONSULTANT: BETTISWORTH NORTH ARCHITECTS AND PLANNERS

SEAL: STATE OF ALASKA 49TH — MARK M KIMERER No.11157 — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

MUNICIPALITY OF ANCHORAGE

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WISCONSIN STREET TO SPENARD ROAD

LANDSCAPE DETAILS

SCALE HOR.
VER.

DATE FEB 2012 | GRID1627/1727/1728

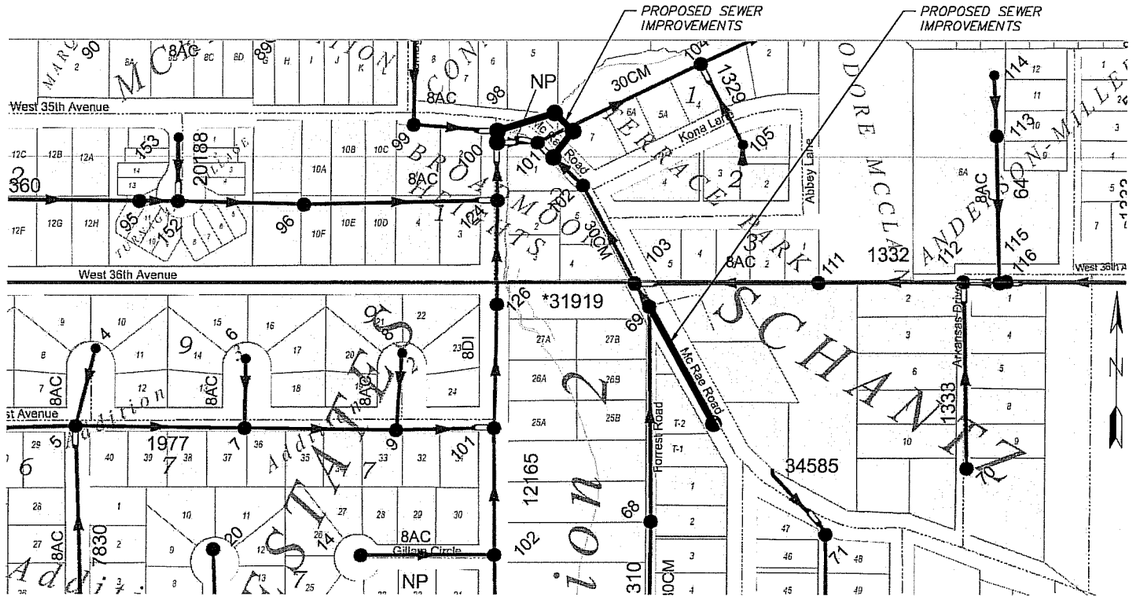
STATUS 95% DESIGN

SHEET L11 of L11

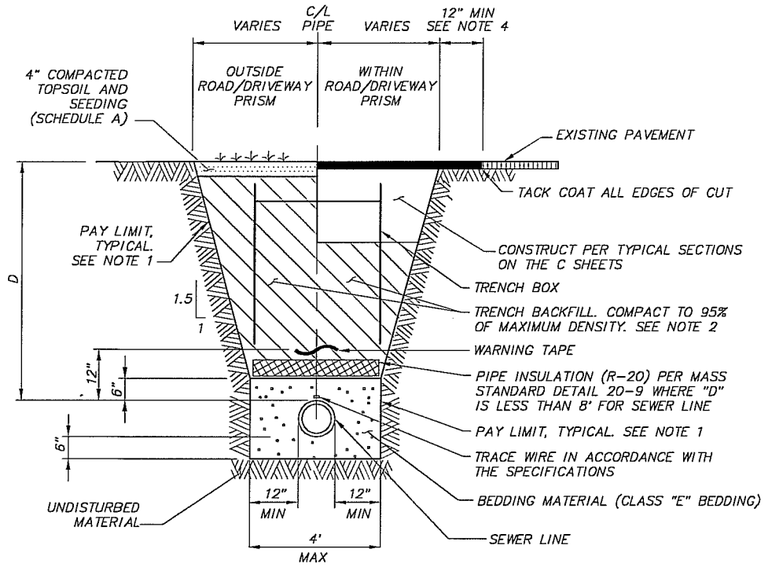
File:P:\11-125 35th & McRae\2-CAD\Drawings\LA\LP_DETAILS.dwg

SEWER NOTES

1. AWWU AND EXISTING CUSTOMERS SHALL BE NOTIFIED SEVENTY-TWO (72) HOURS IN ADVANCE OF SANITARY SEWER SERVICE INTERRUPTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO BYPASS PUMP THE SANITARY SEWER SERVICE FLOWS IF THE OUTAGE EXCEEDS 6-HOURS. THE CONTRACTOR SHALL HAVE A BYPASS SANITARY SEWAGE FLOW PLAN REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO INTERRUPTION.
2. ALL SEWER MAIN STATIONING IS PIPE CENTERLINE STATIONING.
3. ALL MANHOLES SHALL HAVE A MINIMUM OF ONE 6 INCH GRADE RING. MAXIMUM GRADE RING ADJUSTMENT SHALL NOT EXCEED 18 INCHES.
4. ALL SANITARY SEWER MAINS SHALL BE PVC DR18 OR DR21 PIPE, CONFORMING TO AWWA C900 OR AWWA C905, AS SHOWN IN THE PLANS.
5. CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING SEWER SERVICES. INFORMATION HAS BEEN COMPILED FROM AS-BUILTS AND MAY VARY.
6. SANITARY SEWER SERVICES SHALL BE 4-INCH PVC DR18 PIPE UNLESS NOTED ON PLANS WITH MINIMUM SLOPE FOR 4-INCH SERVICES TO BE 2%.
7. ALL SEWER MAIN AND SERVICE TRENCH BACKFILL MATERIALS AND BEDDING SHALL BE COMPACTED TO A MINIMUM 95% OF MAXIMUM DENSITY.
8. SEWER SERVICES SHALL BE PLACED NO CLOSER THAN: 15 FEET HORIZONTALLY MEASURED TO ANY FIRE HYDRANT OR FIRE HYDRANT LEG; 10 FEET HORIZONTALLY MEASURED TO ANY WATER MAIN, WATER SEWER SERVICE, STORM SEWER, FOOTING DRAIN, STREET LIGHT, TRANSFORMER PAD, ELECTRICAL/TELEPHONE/CABLE BOX; AND 5 FEET HORIZONTALLY MEASURED TO ANY SIDE LOT LINE.
9. ALL PIPE BEDDING FOR PVC PIPE SHALL BE CLASS "E" BEDDING PER THE SPECIFICATIONS.
10. THE CONTRACTOR SHALL RELOCATE ANY SEWER SERVICE CONNECTIONS INSTALLED WITH LESS THAN MINIMUM STANDARD DISTANCES PRIOR TO ACCEPTANCE BY AWWU.
11. "INV" IS DEFINED AS THE INSIDE BOTTOM OF PIPE.
12. PRIOR TO INSTALLATION OF NEW PIPING, CONTRACTOR IS TO VERIFY SEWER SERVICE AND MAIN ELEVATIONS CLEARANCE BENEATH/ABOVE NEW STORM DRAIN AND/OR WATER MAIN PIPING. UPON VERIFICATION, PROVIDE ELEVATION DATA TO THE ENGINEER.
13. ALL NEW SEWER SERVICES REGARDLESS OF SIZE WHICH HAVE BEEN REPLACED, RAISED LOWERED OR RECONSTRUCTED BY THIS PROJECT SHALL BE INSPECTED BY CCTV. SEE SPECIFICATIONS FOR REQUIREMENTS.
14. PROVIDE A TRACER WIRE AND 6" WIDE WARNING TAPE ON ALL PVC SEWER MAINS AS SHOWN IN THESE PLANS AND AS SPECIFIED IN THE SPECIAL PROVISIONS.



1 SEWER KEY MAP
SCALE: NTS



UTILITY TRENCH SECTION NOTES

1. TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH ALL LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS. INDICATED TRENCH WALL SLOPES AND DIMENSIONS ARE FOR PAY QUANTITY DETERMINATIONS ONLY. IT IS ASSUMED THAT A TRENCH BOX WILL BE UTILIZED.
2. TRENCH BACKFILL SHALL BE NATIVE MATERIAL MEETING TYPE III CLASSIFICATION (MINIMUM) AS APPROVED BY THE ENGINEER. NATIVE MATERIAL NOT MEETING TYPE III CLASSIFICATION SHALL BE REMOVED AND REPLACED WITH TYPE II CLASSIFIED MATERIAL.
3. REMOVE AND DISPOSE OF ALL ORGANIC MATERIALS IN ACCORDANCE WITH MASS SECTION 20.13.
4. IN PREPARATION FOR AND IMMEDIATELY PRIOR TO PAVING, CONTRACTOR SHALL SAW CUT AND REMOVE AN ADDITIONAL 12 INCHES FROM EXISTING PAVEMENT EDGE. THE ENGINEER MAY REQUIRE MORE THAN A 12 INCH ADDITIONAL CUT IF THE EXISTING PAVEMENT HAS BEEN LIFTED IN THE REMOVAL PROCESS, IF THE JOINT DOES NOT OCCUR ON UNDISTURBED MATERIAL, OR IF THE JOINT IS LOCATED WITHIN THE TRAVEL LANE.

2 TYPICAL SEWER UTILITY TRENCH SECTION
SCALE: NTS

PRELIMINARY

AWWU PLAN SET NO. 9491

SCHEDULE E & G

PLOT DATE: 2/15/2012 12:11 PM
PLOT SCALE: N/A
ACAD FILE: J:\Jobsdata\10104 35th & McRae\00 CADD\Drawings\01 Working Set\01 Civil\10104 SEWER KEY MAP.dwg

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 SCALE: N/A VERT SCALE: N/A

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

PLAN CHECK

REV	DATE	DESCRIPTION	BY
		REVISIONS	

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   BY: _____ TITLE: _____
   DATE: _____
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   COMPANY: _____
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   DATA TRANSFER CHECKED BY: _____
   COMPANY: _____
   BY: _____ TITLE: _____
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CONSULTANT

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Justin T. Keene
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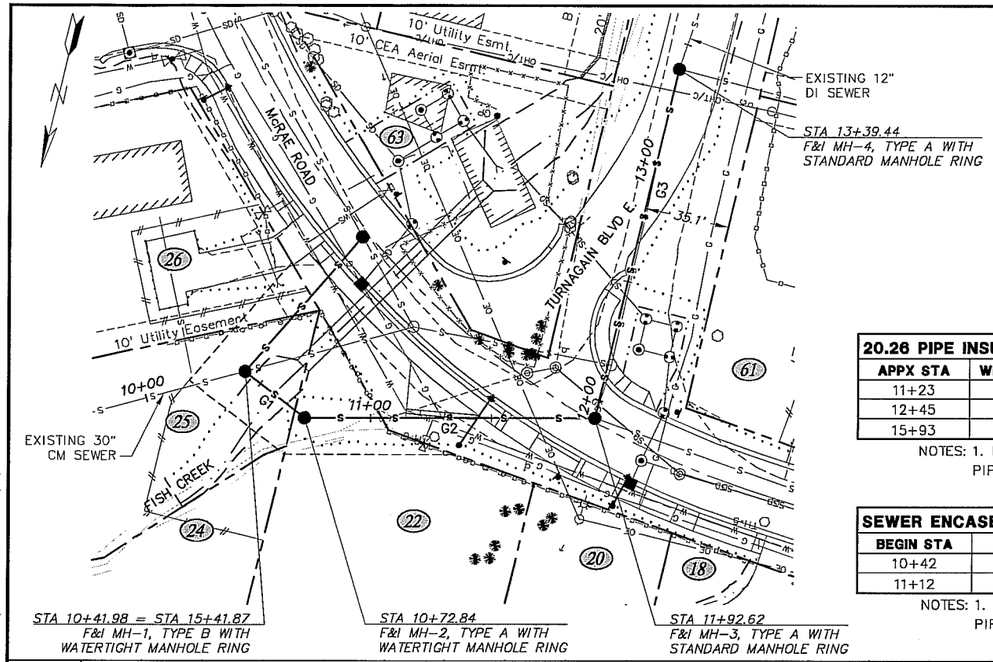
MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

35TH AVENUE AND McRAE ROAD IMPROVEMENTS
WISCONSIN STREET TO SPENARD ROAD

SEWER KEY MAP, NOTES & TYPICAL SECTION

HORZ SCALE: N/A | VERT SCALE: N/A | DATE: FEB 2012 | GRID: 1627/1727/1728
PROJ. ID.: AWWU 0000006105, MOA 03-09
SHEET SS1 of SS4



COORDINATE LISTING			
NORTHING	EASTING	DESCRIPTION	STATION
329902.76	339634.49	MH-1, TYPE B	10+41.98 / 15+41.87
329915.50	339606.38	MH-2, TYPE A	10+72.84
329887.84	339489.85	MH-3, TYPE A	11+92.62
329741.02	339489.74	MH-4, TYPE A	13+39.44
329838.14	339600.50	MH-5, TYPE B	16+14.89

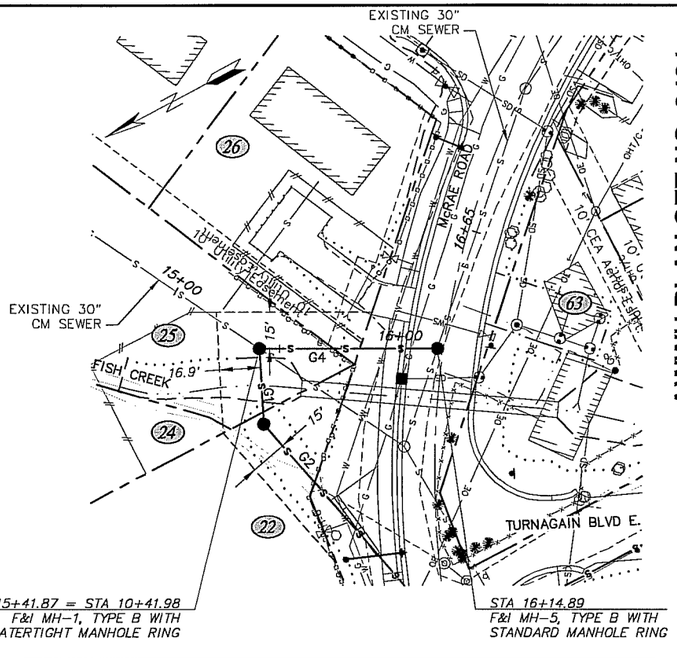
50.02 SEWER PIPE DATA			
PIPE NO.	SIZE	LENGTH (FT)	BEARING
G1	12" PVC	30.86	N 65° 36' 56" W
G2	12" PVC	119.78	S 76° 38' 51" W
G3	12" PVC	146.82	S 00° 02' 31" W
G4	30" PVC	73.02	S 27° 44' 37" W

20.26 PIPE INSULATION (R-20)			
APPX STA	WIDTH (FT)	LENGTH (FT)	COMMENTS
11+23	6	6	8" WATER CROSSING
12+45	6	6	18" STORM DRAIN CROSSING
15+93	6	8	8" WATER CROSSING

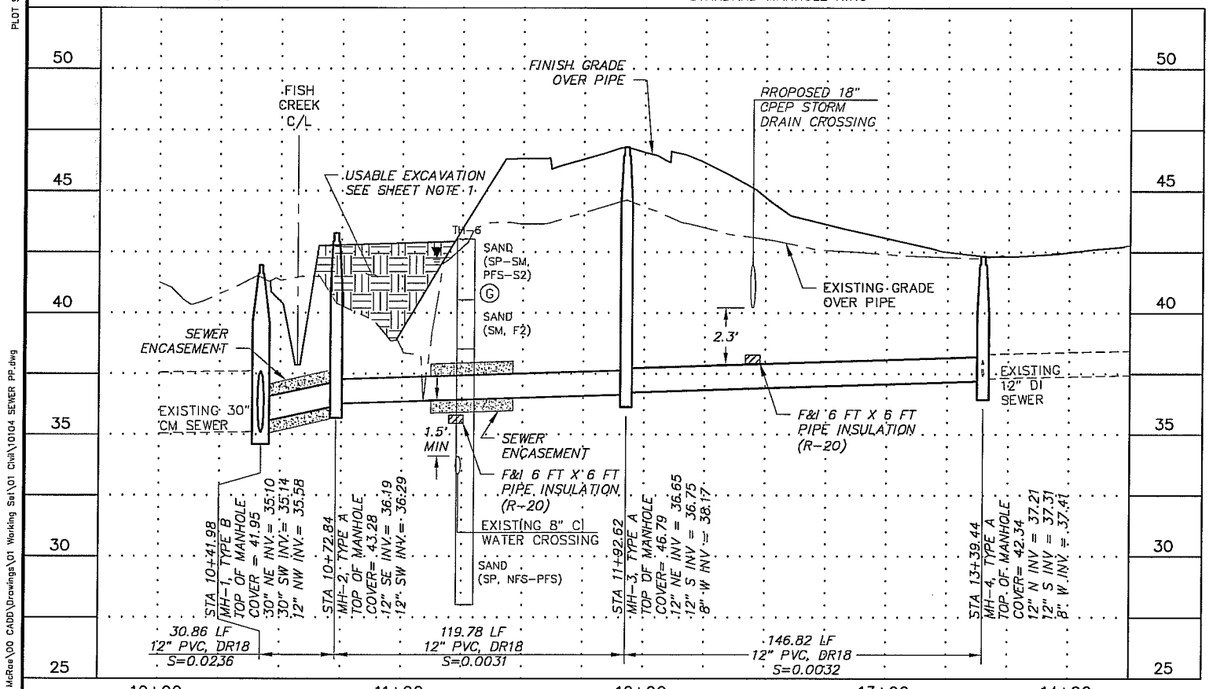
NOTES: 1. PIPE INSULATION IS INCIDENTAL TO PAY ITEM "50.02 FURNISH AND INSTALL PIPE" AND NO SEPARATE PAYMENT SHALL BE MADE.

SEWER ENCASEMENT			
BEGIN STA	END STA	LENGTH (FT)	COMMENTS
10+42	10+73	31	12" PVC PIPE
11+12	11+46	34	12" PVC PIPE

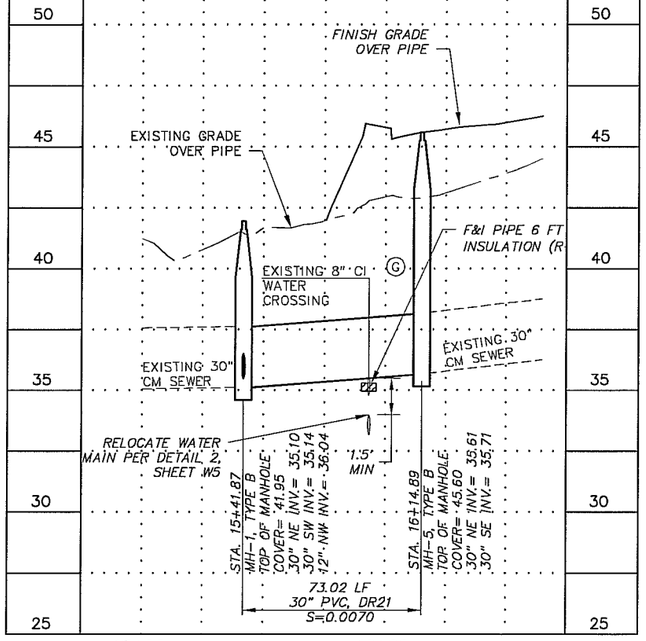
NOTES: 1. SEWER ENCASEMENT IS INCIDENTAL TO PAY ITEM "50.02 FURNISH AND INSTALL PIPE" AND NO SEPARATE PAYMENT SHALL BE MADE.



AWWU PLAN SET NO. 9491



PRELIMINARY



SCHEDULE E

SHEET NOTES:

1. *PLACE USABLE EXCAVATION BACKFILL SO THAT THERE IS A MINIMUM OF 5.5' OF COVER ABOVE PIPE AND THE SHOULDERS OF SIDE SLOPES ARE A MINIMUM OF 3' EITHER SIDE OF PIPE.*

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 SCALE: 1"=30' VERT SCALE: 1"=3'

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			

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FAX: (907) 561-2273
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STATE OF ALASKA 49TH
Justin T. Keene CE-11775
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WATER & WASTEWATER UTILITY

35TH AVENUE AND McRAE ROAD IMPROVEMENTS
WISCONSIN STREET TO SPENARD ROAD

SANITARY SEWER MAIN PLAN & PROFILE
MCRAE ROAD & TURNAGAIN BLVD E

HORZ SCALE: 1"=30' VERT SCALE: 1"=3'	DATE: FEB 2012	GRID:1627/1727/1728	SHEET SS2 of SS4
PROJ. ID.: AWWU 0000006105, MOA 03-09			

PLOT DATE:2/15/2012 12:55 PM
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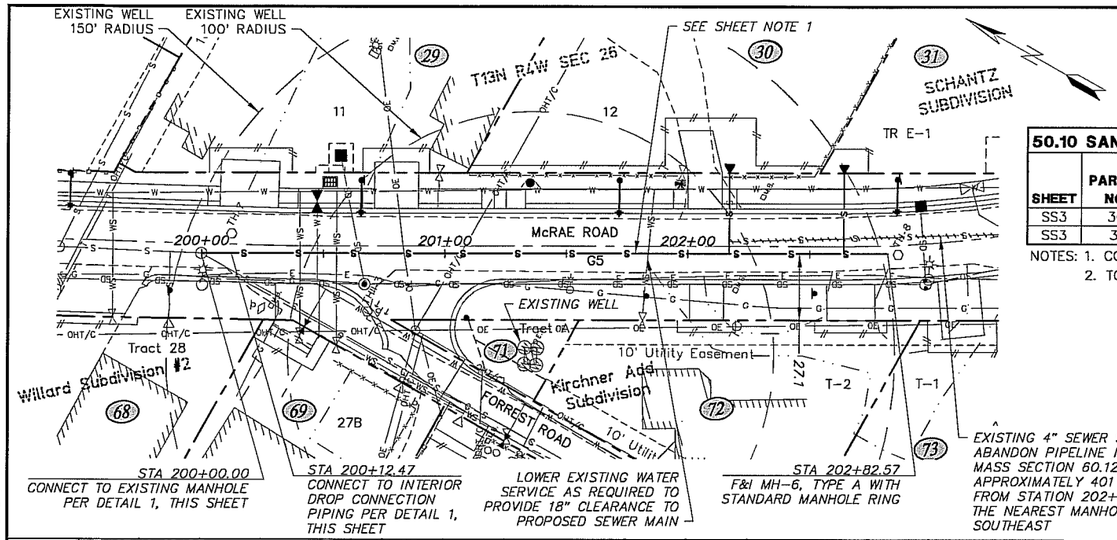
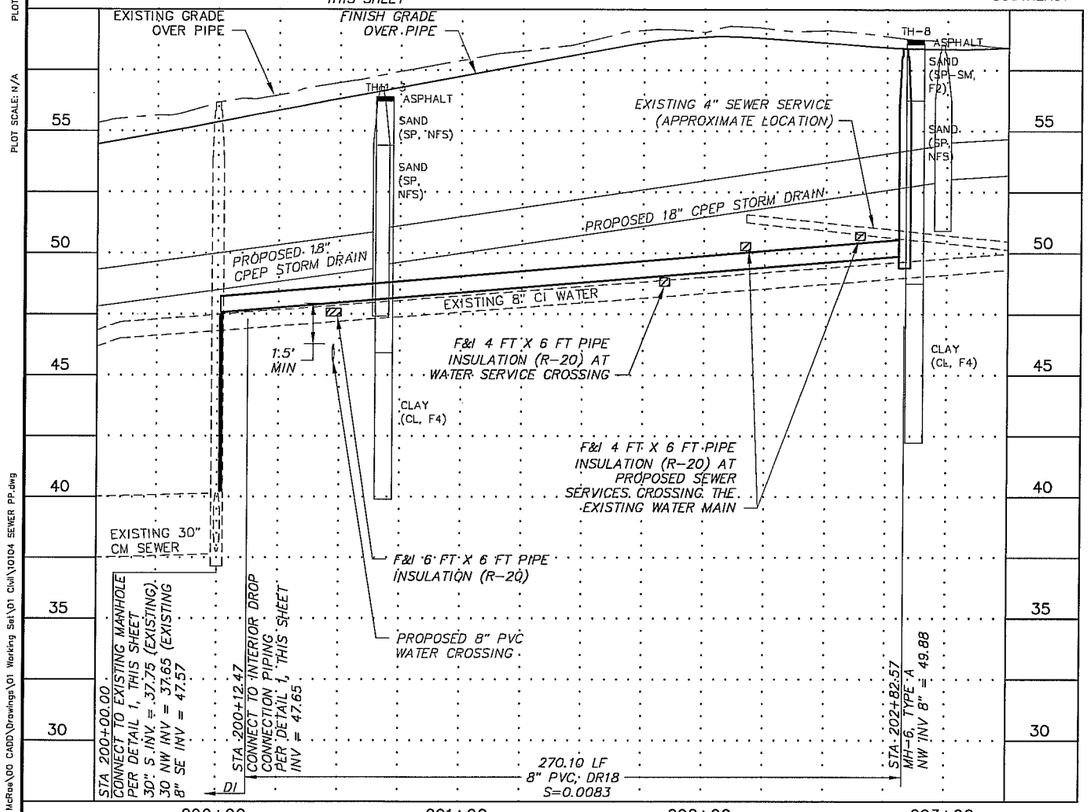




COORDINATE LISTING			
NORTHING	EASTING	DESCRIPTION	STATION
329526.45	339800.00	EXISTING MANHOLE	200+00.00
339939.85	339939.85	MH-6, TYPE A	202+82.57

50.02 SEWER PIPE DATA			
PIPE NO.	SIZE	LENGTH (FT)	BEARING
G5	8" PVC	270.1	S 29° 39' 50" E

50.10 SANITARY SEWER SERVICE SCHEDULE

SHEET	PARCEL NO.	LEGAL DESCRIPTION	STREET ADDRESS	STATION AT MAIN	OFFSET (LT/RT)	SIZE (IN)	LENGTH (FT) MAIN TO P/L OR CONNECTION	APPRX. DEPTH TO BOP AT MAIN (2)	APPRX. DEPTH TO BOP AT P/L OR TIE-IN CONNECTION (2)	COMMENTS
SS3	30	PARCEL 12, T13N R4W SEC 26	2613 McRAE RD	202+17.04	LT	4	32.6			
SS3	31	TR E-1, SCHANTZ SUBDIVISION	3508 IOWA DR	202+64.08	LT	4	32.9			

NOTES: 1. CONTRACTOR SHALL BYPASS PUMP SEWER SERVICE FLOWS, AS REQUIRED. SEE SPECIFICATIONS FOR REQUIREMENTS.
2. TO BE COMPLETED AS PART OF RECORD DRAWINGS.

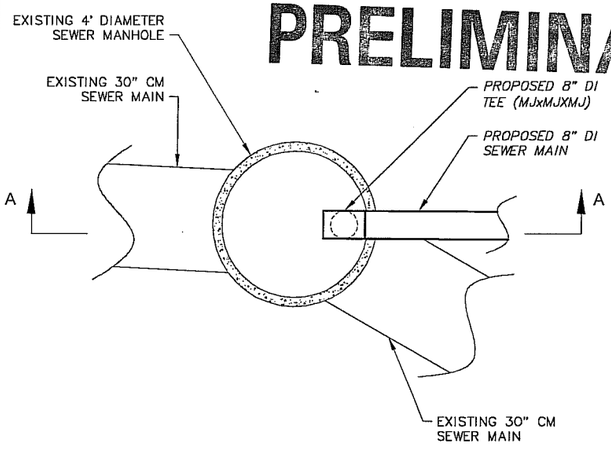
20.26 PIPE INSULATION (R-20)

APPX STA	APPX OFFSET	WIDTH (FT)	LENGTH (FT)	COMMENTS
200+48	CL	6	6	PROPOSED 8" WATER MAIN CROSSING, SEE NOTE 1
201+84	CL	4	6	EXISTING WATER SERVICE CROSSING, SEE NOTE 1
202+17	26.5 LT	4	6	PROPOSED SEWER SERVICE CROSSING EXISTING WATER MAIN, SEE NOTE 2
202+64	26.8 LT	4	6	PROPOSED SEWER SERVICE CROSSING EXISTING WATER MAIN, SEE NOTE 2

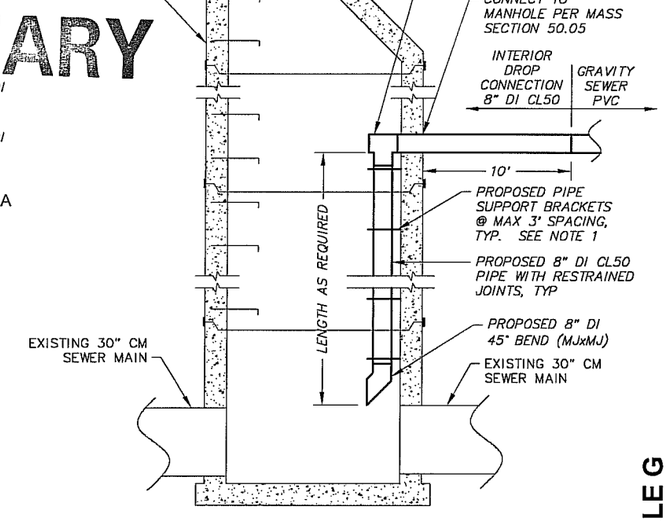
NOTES: 1. PIPE INSULATION IS INCIDENTAL TO PAY ITEM "50.02 FURNISH AND INSTALL PIPE" AND NO SEPARATE PAYMENT SHALL BE MADE.
2. PIPE INSULATION IS INCIDENTAL TO PAY ITEM "50.10 SANITARY SEWER SERVICE CONNECT" AND NO SEPARATE PAYMENT SHALL BE MADE.
3. PIPE INSULATION COULD BE REQUIRED AT OTHER WATER OR STORM DRAIN CROSSINGS OR AS REQUIRED BY THE ENGINEER. PIPE INSULATION WILL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE.

SHEET NOTES:

1. *HEAT SHRINK SEWER MAIN JOINTS WITHIN 100' WELL RADIUS FROM APPROXIMATELY STATION 200+4.72 TO STATION 202+26.35. HEAT SHRINK WITH WATERWRAP AS MANUFACTURED BY COVALENCE, OR APPROVED EQUAL. WORK AND MATERIALS REQUIRED TO HEAT SHRINK JOINTS SHALL BE INCIDENTAL TO PAY ITEM "50.02 FURNISH AND INSTALL PIPE" AND NO SEPARATE PAYMENT SHALL BE MADE.*



PLAN



SECTION A-A

INTERIOR DROP CONNECT NOTES:

1. *PIPE SUPPORT SHALL BE STAINLESS STEEL ADJUSTABLE PIPE SUPPORT BRACKETS AS MANUFACUTRED BY RELINER-DURAN INC OR APPROVED EQUAL.*

1 INTERIOR SANITARY SEWER DROP CONNECTION
SCALE: NTS

PRELIMINARY

SCHEDULE G

AWWU PLAN SET NO .9491

PLOT DATE: 2/15/2012 1:02 PM
PLOT SCALE: N/A
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VERIFY SCALE THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" — 1"
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FULL SIZE SCALE HORZ SCALE: 1"=30' VERT SCALE: 1"=3'

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TOPOGRAPHY			ELECTRIC						
PROFILE			CABLE TV						
SANITARY SEWER			TRAFFIC SIGNAL						
STORM SEWER			DESIGN						
WATER			QUANTITIES						
GAS			MUN. FINAL CHECK						
PLAN CHECK						REVISIONS			

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CONSULTANT

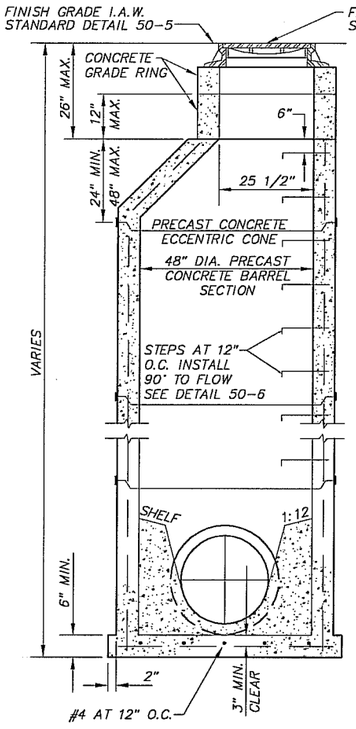
STATE OF ALASKA 49TH Justin T. Keene CE-11775
SEAL

MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

35TH AVENUE AND McRAE ROAD IMPROVEMENTS
WISCONSIN STREET TO SPENARD ROAD

SANITARY SEWER MAIN PLAN & PROFILE EXTENSION ON MCRAE RD AT FOREST RD

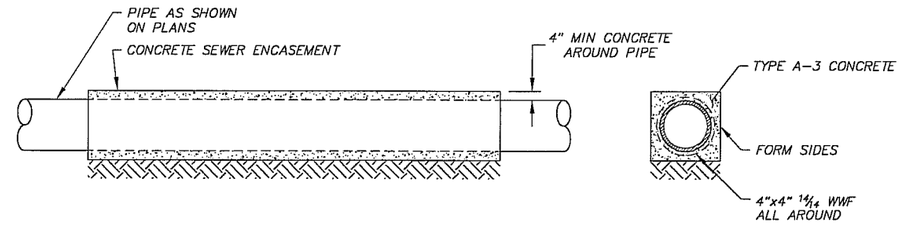
HORZ SCALE: 1"=30'	DATE: FEB 2012	GRID:1627/1727/1728	SS3
VERT SCALE: 1"=3'			of
PROJ. ID.: AWWU 0000006105, MOA 03-09			SHEET SS4



SANITARY MANHOLE TYPE A NOTES:

1. STEEL REQ'D FOR BARREL SHALL CONFORM TO ASTM C-478. EMBED STEEL IN BASE SO THAT FIRST BARREL SECTION IS CONNECTED WITH BASE.
2. ALL MANHOLE SECTIONS SHALL CONFORM TO ASTM C-478.
3. PROVIDE Z-LOK BOOTS 8" TO 18" PIPE PENETRATIONS. PROVIDE A-LOK BOOTS FOR 20" THROUGH 24" PIPE PENETRATIONS. GROUT PER MANUFACTURER'S RECOMMENDATIONS.
4. COAT ALL EXTERNAL CONCRETE SURFACES OF MANHOLE WITH WATERPROOF BITUMINOUS COATING. APPLY PER MANUFACTURER'S RECOMMENDATIONS.
5. "RAM-NEK" OR EQUAL AND PRIME BARREL JOINTS. HEAT "RAM-NEK" AND SEAL SURFACES BEFORE FINAL ASSEMBLY.
6. SEAL MANHOLE JOINTS WITH "WRAPIDSEAL" (MANUFACTURED BY CCI PIPELINE SYSTEMS) EXTERIOR PIPE JOINT SEALER OR APPROVED EQUAL, AFTER MANHOLE HAS BEEN WATERPROOFED (TYP ALL JOINTS).
7. INSTALL "WRAPIDSEAL" (MANUFACTURED BY CCI PIPELINE SYSTEMS) OVER FRAME, GRADE RINGS, AND TOP OF CONE.
8. WRAP EXTERIOR OF MANHOLE W/THREE LAYERS OF 8-MIL THICK POLYETHYLENE ENCASEMENT MATERIAL AFTER INSTALLING "WRAPIDSEAL."
9. MANHOLE SHALL HAVE MINIMUM OF ONE (1) SIX-INCH (6") GRADE RING.
10. BACKFILL AROUND MANHOLE WITH NFS MATERIAL (3-FEET MINIMUM). BACKFILL SHALL BE INCIDENTAL TO COST OF MANHOLE INSTALLATION.
11. FOUNDATION MATERIAL PER DETAIL 2, THIS SHEET.

1 SANITARY MANHOLE TYPE A
SCALE: NTS



SEWER ENCASEMENT NOTES:

1. USE MASS CLASS A-3 CONCRETE.
2. CONCRETE MUST BEAR UPON UNDISTURBED SOIL.
3. ROUGH FORMS SHALL BE USED TO CONTAIN CONCRETE FOR ENCASEMENT.
4. ALLOW POURED CONCRETE TO CURE FOR A MINIMUM 24 HOURS PRIOR TO BACKFILLING.
5. SAFEGUARD AND PROTECT OPEN TRENCHES PER MASS SECTION 10, ARTICLE 5.12 SAFEGUARDING EXCAVATIONS.

2 SEWER ENCASEMENT
SCALE: NTS

AWWU PLAN SET NO. 9491

SCHEDULE E & G

PRELIMINARY

PLOT DATE: 2/15/2012 1:31 PM
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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 SCALE: N/A VERT SCALE: N/A

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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.

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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

35TH AVENUE AND McRAE ROAD IMPROVEMENTS
WISCONSIN STREET TO SPENARD ROAD

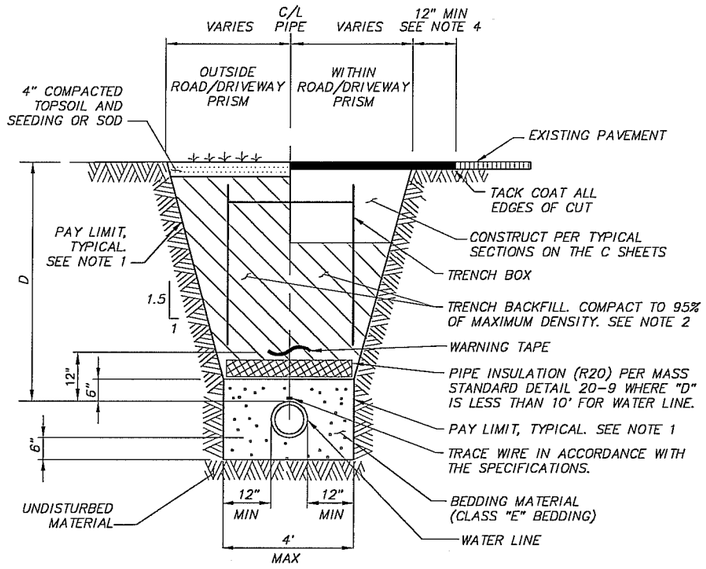
SANITARY SEWER DETAILS

HORZ SCALE: N/A
VERT SCALE: N/A
DATE: FEB 2012
GRID: 1627/1727/1728
PROJ. ID.: AWWU 0000006105, MOA 03-09
SHEET SS4 of SS4

WATER NOTES

1. HYDRANTS WILL BE ADJUSTED TO FINAL GRADE BY AWWU O&M DIVISION. THE CONTRACTOR SHALL GIVE A MINIMUM FORTY-EIGHT (48) HOURS WRITTEN NOTICE TO AWWU ENGINEERING INDICATING THE TYPE OF FIRE HYDRANT AND THE AMOUNT OF VERTICAL ADJUSTMENT.
2. AWWU, ANCHORAGE FIRE DEPARTMENT AND EXISTING CUSTOMERS SHALL BE NOTIFIED SEVENTY-TWO (72) HOURS IN ADVANCE OF WATER SERVICE INTERRUPTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY WATER SERVICE TO THE EXISTING CUSTOMERS IF THE OUTAGE EXCEEDS 6-HOURS UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL HAVE A TEMPORARY WATER SERVICE PLAN REVIEWED AND APPROVED BY ADEC.
3. ALL WATER MAINS SHALL BE PVC DR18, AS SHOWN IN THE PLANS, CONFORMING TO THE REQUIREMENTS OF AWWA C900.
4. ALL FITTINGS SHALL BE MECHANICALLY RESTRAINED, EBAA IRON MEGALUG SERIES 2000PV OR APPROVED EQUAL UNLESS OTHERWISE NOTED. INSTALL THRUST BLOCK AT ALL FITTINGS.
5. ALL NUTS AND BOLTS SHALL BE STAINLESS STEEL (TYPE 316). ALL STAINLESS STEEL BOLT THREADS SHALL BE COATED WITH TS MOLY-LUBRICANTS TS-74 STAINLESS ANTISEIZE, OR APPROVED EQUAL, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
6. ALL WATER MAIN STATIONING IS PIPE CENTERLINE STATIONING.
7. THE CONTRACTOR SHALL HAVE THE NEWLY INSTALLED WATER MAIN OPEN BORE FLUSHED PRIOR TO INSTALLATION OF WATER SERVICES. OPEN BORE FLUSHING OPERATIONS SHALL BE WITNESSED BY AWWU. PROVIDE MINIMUM OF FORTY-EIGHT (48) HOURS ADVANCE NOTICE.
8. WATER SERVICES SHALL BE 1-INCH, TYPE K SOFT SEAMLESS COPPER UNLESS OTHERWISE NOTED ON PLANS.
9. CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING WATER SERVICES. INFORMATION HAS BEEN COMPILED FROM AS-BUILTS AND MAY VARY.
10. EXISTING WATER SERVICES ENCOUNTERED DURING NEW WATER LINE INSTALLATION OR EXISTING WATER SERVICES THAT ARE DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED WITH NEW SERVICES. UNLESS OTHERWISE NOTED DISCONNECT SERVICE AT KEY BOX, REMOVE KEY BOX, AND SERVICE LINE BETWEEN KEY BOX AND MAIN. FURNISH AND INSTALL WATER SERVICE LINE WITH KEY BOX TO RECONNECT CUSTOMER SERVICE EXTENSION. KEY BOX SHALL BE SET ON THE RIGHT-OF-WAY LINE, IF IT'S ORIGINAL LOCATION IS WITHIN 5 FEET OF THE RIGHT-OF-WAY LINE, OR AS DIRECTED BY THE ENGINEER.
11. ALL WATER MAINS AND SERVICES SHALL HAVE A MINIMUM OF 10 FEET OF BURY AT ALL POINTS, UNLESS OTHERWISE NOTED.
12. ALL PIPE BEDDING FOR PVC PIPE SHALL BE CLASS "E" PER THE SPECIFICATIONS.
13. ALL WATER MAIN AND SERVICE TRENCH BACKFILL MATERIALS AND BEDDING SHALL BE COMPACTED TO A MINIMUM 95% OF MAXIMUM DENSITY.
14. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE ENCASED IN A TAPE COAT OF DENSYL TAPE & PRIMER OR APPROVED EQUAL AND 8-MILS OF POLYETHYLENE WRAP, AS PER MASS SECTION 60.07 "POLYETHYLENE ENCASEMENT". ALL VALVES AND FITTINGS SHALL HAVE ANODES ATTACHED.
15. WATER SERVICES SHALL BE PLACED NO CLOSER THAN: 15 FEET HORIZONTALLY MEASURED TO ANY FIRE HYDRANT OR FIRE HYDRANT LEG; 10 FEET HORIZONTALLY MEASURED TO ANY SANITARY SEWER MAIN, SANITARY SEWER SERVICE, STORM SEWER, FOOTING DRAIN, STREET LIGHT, TRANSFORMER PAD, ELECTRICAL/TELEPHONE/CABLE BOX; AND 5 FEET HORIZONTALLY MEASURED TO ANY SIDE LOT LINE.
16. PVC PIPE SHALL NOT BE BENT. HORIZONTAL AND VERTICAL PIPE JOINT DEFLECTION LESS THAN 4° SHALL BE MADE WITH DEFLECTION COUPLINGS. ALL PIPE ANGLE CHANGES GREATER THAN 4° SHALL BE CONSTRUCTED WITH DUCTILE IRON FITTINGS.
17. PROVIDE A TRACER WIRE AND 6" WIDE WARNING TAPE ON ALL PVC WATER LINES AS SHOWN IN THESE PLANS AND AS SPECIFIED IN THE SPECIAL PROVISIONS.
18. THE CONTRACTOR SHALL RELOCATE ANY WATER SERVICE CONNECTIONS INSTALLED WITH LESS THAN MINIMUM STANDARD DISTANCES PRIOR TO ACCEPTANCE BY AWWU.
19. ALL BENDS, TEES, FIRE HYDRANTS AND DEAD-ENDS SHALL HAVE RESTRAINED FITTINGS AS WELL AS THRUST BLOCKS.
20. NO PIPE LENGTH LESS THAN 8 FEET SHALL BE INCORPORATED IN THE WATER SYSTEM EXCEPT FOR THOSE NECESSARY FOR FIRE HYDRANTS OR VALVE LOCATIONS UNLESS RESTRAINED.
21. "BOP" IS DEFINED AS THE OUTSIDE BOTTOM OF PIPE.
22. IF AN EXISTING WATER SERVICE THAT IS NOT SCHEDULED TO BE REPLACED IS IN CONFLICT WITH THE PROPOSED SEWER OR STORM DRAIN MAIN AND REQUIRES RELOCATION THEN THE WATER SERVICE SHALL BE RECONSTRUCTED AND PAID FOR UNDER SECTION 60.06 WATER SERVICE LINES.
23. WORK REQUIRED TO REMOVE AND DISPOSE OR SALVAGE EXISTING WATER INFRASTRUCTURE (PLUGS, FITTINGS, ETC) SHALL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.

1 WATER KEY MAP
SCALE: NTS



UTILITY TRENCH SECTION NOTES

1. TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH ALL LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS. INDICATED TRENCH WALL SLOPES AND DIMENSIONS ARE FOR PAY QUANTITY DETERMINATIONS ONLY. IT IS ASSUMED THAT A TRENCH BOX WILL BE UTILIZED.
2. TRENCH BACKFILL SHALL BE NATIVE MATERIAL MEETING TYPE III CLASSIFICATION (MINIMUM) AS APPROVED BY THE ENGINEER. NATIVE MATERIAL NOT MEETING TYPE III CLASSIFICATION SHALL BE REMOVED AND REPLACED WITH TYPE II CLASSIFIED MATERIAL.
3. REMOVE AND DISPOSE OF ALL ORGANIC MATERIALS IN ACCORDANCE WITH MASS SECTION 20.13.
4. IN PREPARATION FOR AND IMMEDIATELY PRIOR TO PAVING, CONTRACTOR SHALL SAW CUT AND REMOVE AN ADDITIONAL 12 INCHES FROM EXISTING PAVEMENT EDGE. THE ENGINEER MAY REQUIRE MORE THAN A 12 INCH ADDITIONAL CUT IF THE EXISTING PAVEMENT HAS BEEN LIFTED IN THE REMOVAL PROCESS, IF THE JOINT DOES NOT OCCUR ON UNDISTURBED MATERIAL, OR IF THE JOINT IS LOCATED WITHIN THE TRAVEL LANE.

2 TYPICAL WATER UTILITY TRENCH SECTION
SCALE: NTS

PRELIMINARY

AWWU PLAN SET NO. 9540

SCHEDULE F

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PLOT SCALE: N/A
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IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.
FULL SIZE SCALE HORZ SCALE: N/A VERT SCALE: N/A

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TOPOGRAPHY			ELECTRIC						
PROFILE			CABLE TV						
SANITARY SEWER			TRAFFIC SIGNAL						
STORM SEWER			DESIGN						
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PLAN CHECK				REVISIONS					

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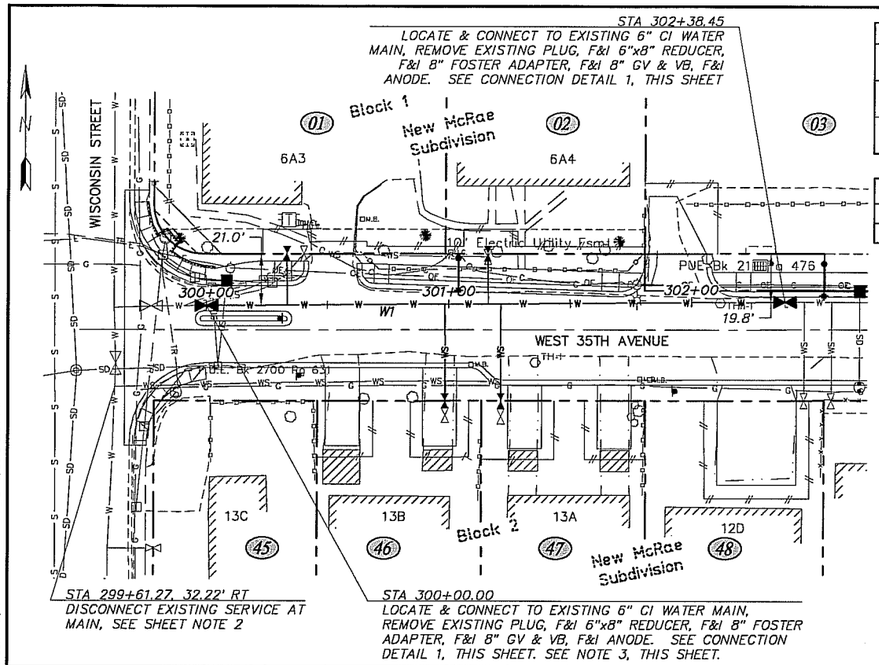
35TH AVENUE AND McRAE ROAD IMPROVEMENTS
WISCONSIN STREET TO SPENARD ROAD

WATER KEY MAP, NOTES & TYPICAL SECTION

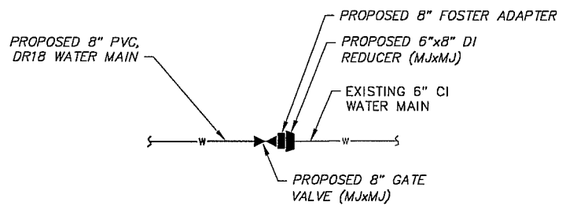
HORZ SCALE: N/A	DATE: FEB 2012	GRID: 1627/1727/1728	
VERT SCALE: N/A			SHEET W1 of W7
PROJ. ID.: AWWU 0000005687, MOA 03-09			



WATER MAIN DESIGN ALIGNMENT							
SEGMENT	PI STATION	COORDINATES NORTHING	COORDINATES EASTING	TO NEXT POINT LENGTH (FT)	TO NEXT POINT BEARING	PIPE INFO	DESCRIPTION
W1	300+00.00	329922.69	338220.74	238.45	N89° 57' 28"E	8" PVC	CONNECT TO EXISTING MAIN
–	302+38.45	329924.33	338459.18	–	–	8" PVC	CONNECT TO EXISTING MAIN

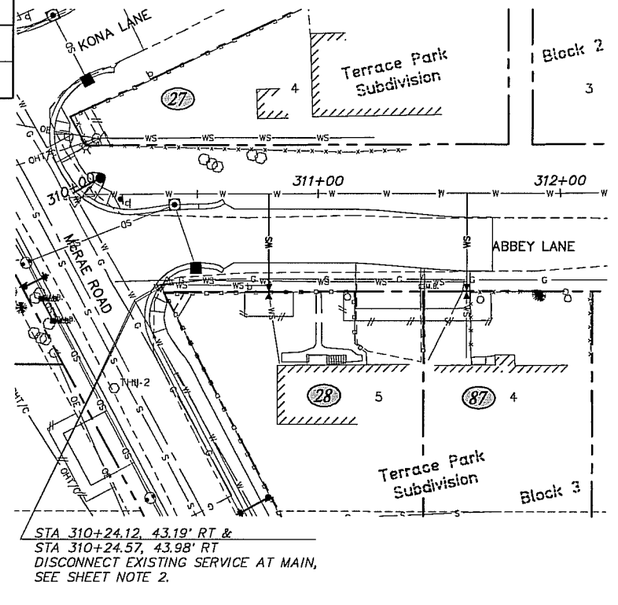
20.26 PIPE INSULATION (R-20)				
APPX STA	APPX OFFSET	WIDTH (FT)	LENGTH (FT)	COMMENTS
300+00	CL	4	229	PROPOSED 8" WATER MAIN

NOTES: 1. PIPE INSULATION IS INCIDENTAL TO PAY ITEM "60.02 FURNISH AND INSTALL WATER MAIN" AND NO SEPARATE PAYMENT SHALL BE MADE.

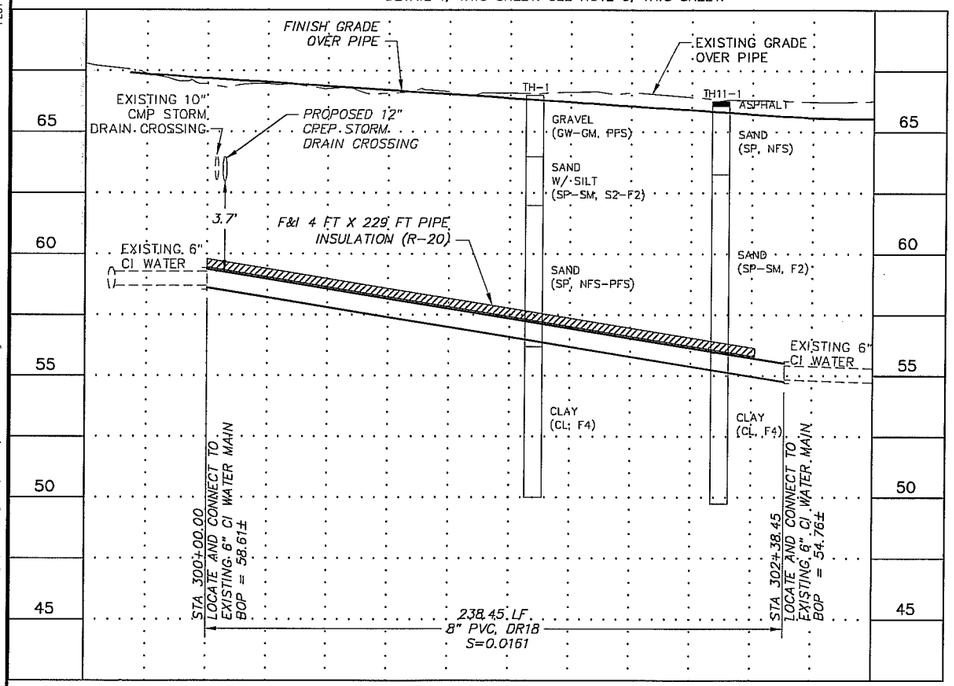


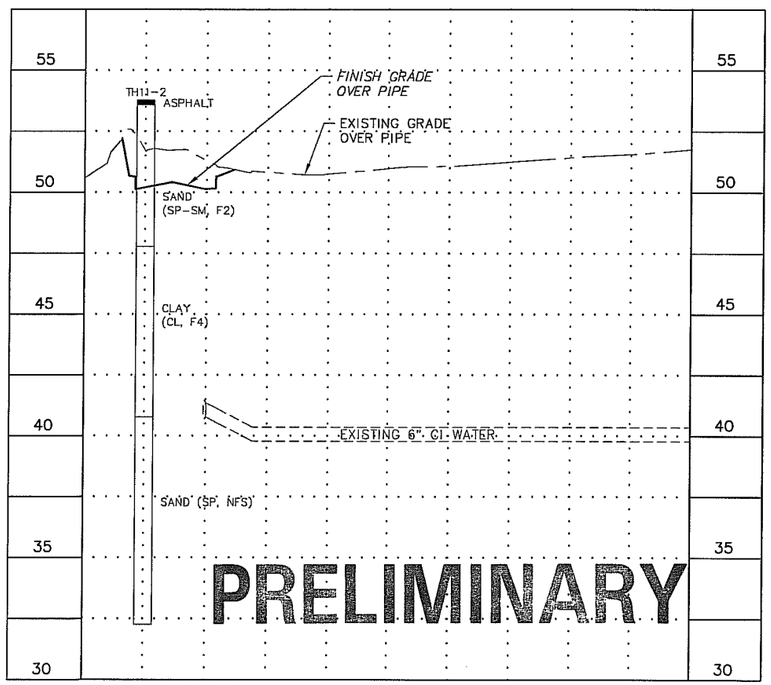
*MIRROR CONNECTION

1 WATER MAIN CONNECTION STA 300+00* & STA 302+38
SCALE: NTS



AWWU PLAN SET NO. 9540





60.17 FURNISH AND INSTALL ANODE (1)		
STATION	OFFSET	COMMENTS

NOTES: 1. TO BE COMPLETED AS PART OF RECORD DRAWINGS.

SHEET NOTES:

1. *SEE SHEET W3 FOR WATER SERVICE SCHEDULE TABLE.*
2. *SEE SPECIFICATIONS FOR DISCONNECTION REQUIREMENTS. ABANDON EXISTING SERVICE LINE IN PLACE UNLESS DIRECTED OTHERWISE BY ENGINEER.*
3. *BEGIN WATER MAIN WORK AT STATION 300+00. MAKE CONNECTION AT STATION 302+38.45 AS LAST PART OF WATER MAIN INSTALLATION.*
4. *SEE SHEET W7 FOR TEMPORARY WATER REQUIREMENTS.*

PRELIMINARY

SCHEDULE F

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 SCALE: 1"=30' VERT SCALE: 1"=3'

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GAS			MUN. FINAL CHECK						
PLAN CHECK				REVISIONS					

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35TH AVENUE AND McRAE ROAD IMPROVEMENTS
WISCONSIN STREET TO SPENARD ROAD

WATER MAIN PLAN & PROFILE - WEST 35TH AVE AND ABBEY RD SERVICES

HORZ SCALE: 1"=30' VERT SCALE: 1"=3' | DATE: FEB 2012 | GRID:1627/1727/1728
PROJ. ID.: AWWU 0000005687, MOA 03-09 | SHEET W2 of W7

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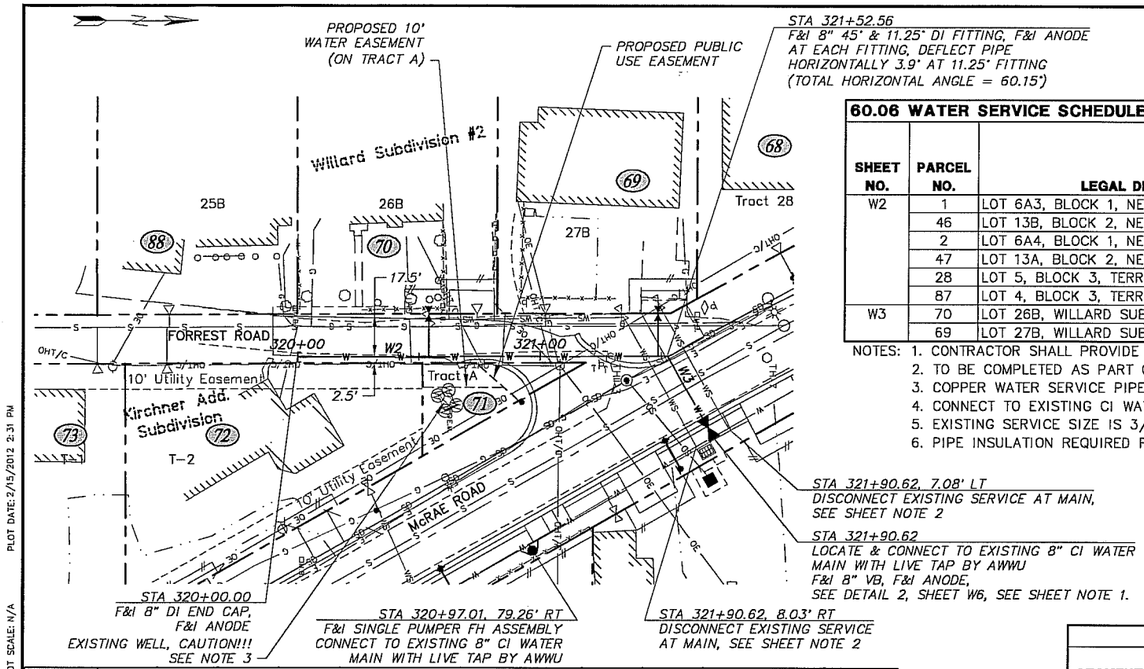

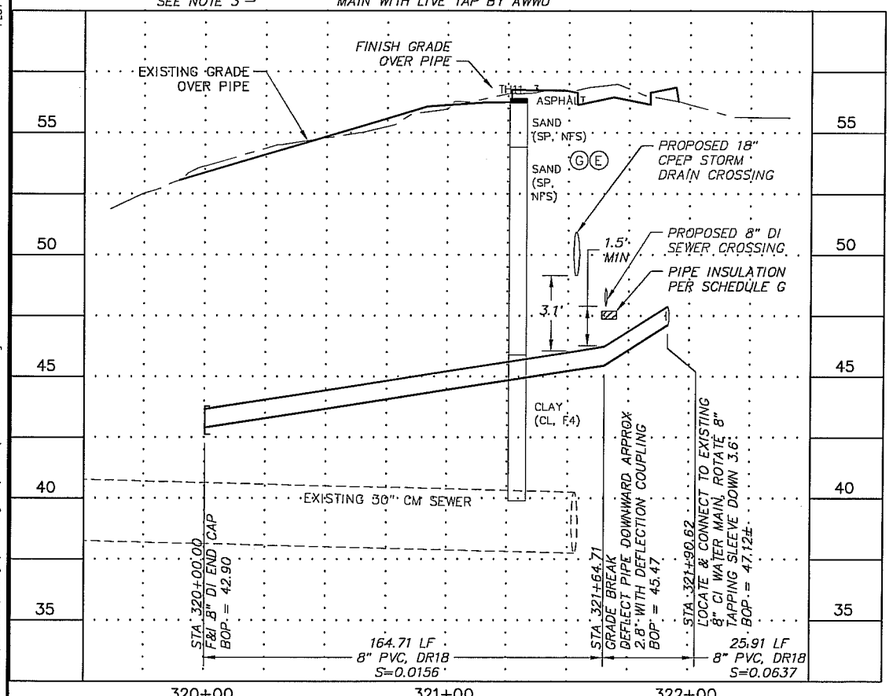

60.06 WATER SERVICE SCHEDULE

SHEET NO.	PARCEL NO.	LEGAL DESCRIPTION	STREET ADDRESS	STATION AT MAIN	OFFSET (LT/RT)	SIZE (IN)	PIPE TYPE (3)	LENGTH MAIN TO P/L (FT)	DISTANCE FROM NEAREST SIDE P/L (FT) (2)	APPRX. DEPTH TO BOP AT MAIN (2)	APPRX. DEPTH TO BOP AT P/L (2)	COMMENTS
W2	1	LOT 6A3, BLOCK 1, NEW MCRAE SUBDIVISION	3413 WISCONSIN ST	300+33.39	LT	1.5	COPPER	20.9				
	46	LOT 13B, BLOCK 2, NEW MCRAE SUBDIVISION	3108 W 35TH AVE	300+98.42	RT	1	COPPER	39.5				SEE NOTE 5
	2	LOT 6A4, BLOCK 1, NEW MCRAE SUBDIVISION	3105 W 35TH AVE	301+16.07	LT	1	COPPER	20.4				
	47	LOT 13A, BLOCK 2, NEW MCRAE SUBDIVISION	3106 W 35TH AVE	301+21.25	RT	1	COPPER	39.6				SEE NOTE 5
	28	LOT 5, BLOCK 3, TERRACE PARK SUBDIVISION	2700 ABBEY LN	310+79.75	RT	1	COPPER	40.0				SEE NOTES 4 AND 5
	87	LOT 4, BLOCK 3, TERRACE PARK SUBDIVISION	2606 ABBEY LN	311+61.27	RT	1	COPPER	40.0				SEE NOTES 4 AND 5
W3	70	LOT 26B, WILLARD SUBDIVISION #2	3680 FOREST RD	320+51.13	LT	1	COPPER	17.5				SEE NOTE 5
	69	LOT 27B, WILLARD SUBDIVISION #2	2616 MCRAE RD	321+48.69	LT	1	COPPER	17.5				SEE NOTE 5

NOTES:
1. CONTRACTOR SHALL PROVIDE TEMPORARY WATER SERVICE, AS REQUIRED.
2. TO BE COMPLETED AS PART OF RECORD DRAWINGS.
3. COPPER WATER SERVICE PIPE SHALL BE TYPE "K" SOFT COATED COPPER, UNLESS OTHERWISE NOTED.
4. CONNECT TO EXISTING CI WATER MAIN, SEE SPECIFICATIONS FOR CONNECTION OPTIONS.
5. EXISTING SERVICE SIZE IS 3/4", PROVIDE REDUCER ON EXISTING LINE TO CONNECT TO THE PROPOSED 1" CURB STOP.
6. PIPE INSULATION REQUIRED FOR WATER SERVICES SHALL BE INCIDENTAL TO ITEM 60.06.

PRELIMINARY

WATER MAIN DESIGN ALIGNMENT

SEGMENT	PI STATION	COORDINATES NORTHING	COORDINATES EASTING	TO NEXT POINT LENGTH (FT)	TO NEXT POINT BEARING	PIPE INFO	DESCRIPTION
W2	320+00.00	329326.13	339813.07	152.56	N00° 12' 47"W	8" PVC	END CAP
W3	321+52.56	329478.69	339812.50	38.06	N59° 56' 29"E	8" PVC	60.15° ANGLE
–	321+90.62	329497.75	339845.44	–	–	–	CONNECT TO EXISTING

PIPING RESTRAINT

FITTING STATION	FITTING DESCRIPTION	MIN. RESTRAINT DISTANCE FROM STA	MIN. RESTRAINT DISTANCE TO STA	COMMENTS
320+00.00	END CAP	320+00.00	320+50.00	
321+52.56	45° FITTING & 11.25° FITTING	321+42.56	321+62.56	
321+90.62	TAPPING SLEEVE	321+62.56	321+90.62	

INSTALL THRUST BLOCK

STATION	OFFSET (LT/RT)	COMMENTS
320+00.00	CL	END CAP
321+52.56	CL	45° FITTING
321+52.56	CL	11.25° FITTING
321+90.62	CL	TAPPING SLEEVE

NOTE: SEE DETAIL 1, SHEET W5 FOR THRUST BLOCK DETAIL.

60.17 FURNISH AND INSTALL ANODE (1)

STATION	OFFSET	COMMENTS

NOTES: 1. TO BE COMPLETED AS PART OF RECORD DRAWINGS.

SHEET NOTES:

1. *AWWU SHALL PROVIDE LIVE TAP TO EXISTING WATER MAIN. PROVIDE MINIMUM FORTY-EIGHT (48) HOURS ADVANCE NOTICE TO AWWU. CONTRACTOR SHALL PROVIDE 8" VALVE BOX ASSEMBLY. VALVE BOX ASSEMBLY SHALL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.*
2. *SEE SPECIFICATIONS FOR DISCONNECTION REQUIREMENTS. ABANDON EXISTING SERVICE LINE IN PLACE UNLESS DIRECTED OTHERWISE BY ENGINEER.*
3. *THERE ARE EXISTING WATER SERVICE LINES TO PARCELS 73 AND 88 FROM THE EXISTING WELL ON PARCEL 71. THE LOCATION OF THE EXISTING WATER SERVICES ARE UNKNOWN. CONTRACTOR SHALL REPAIR EXISTING WATER SERVICES IF DAMAGED DURING CONSTRUCTION.*
4. *SEE SHEET W7 FOR TEMPORARY WATER REQUIREMENTS.*

AWWU PLAN SET NO. 9540

SCHEDULE F

PLOT DATE: 2/15/2012 2:31 PM
PLOT SCALE: N/A
ACAD FILE: J:\Jobsdata\10104 35th & McRae\DD CADD\Drawings\01 Working Set\01 Civil\10104 WATER PP.dwg

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PLAN CHECK				REVISIONS					

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2. DATA TRANSFERRED BY: _____
   COMPANY: _____
   DATE: _____
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   DATA TRANSFER CHECKED BY: _____
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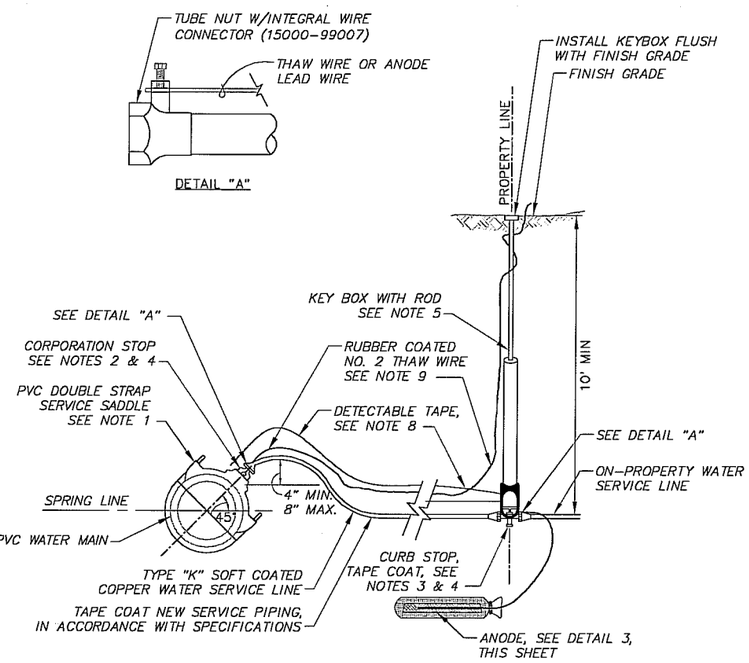
WATER & WASTEWATER UTILITY

35TH AVENUE AND McRAE ROAD IMPROVEMENTS
WISCONSIN STREET TO SPENARD ROAD

WATER MAIN PLAN & PROFILE - FOREST RD AND WATER SERVICE SCHEDULE

HORZ SCALE: 1"=30' VERT SCALE: 1"=3' | DATE: FEB 2012 | GRID: 1627/1727/1728 | SHEET W3 of W7

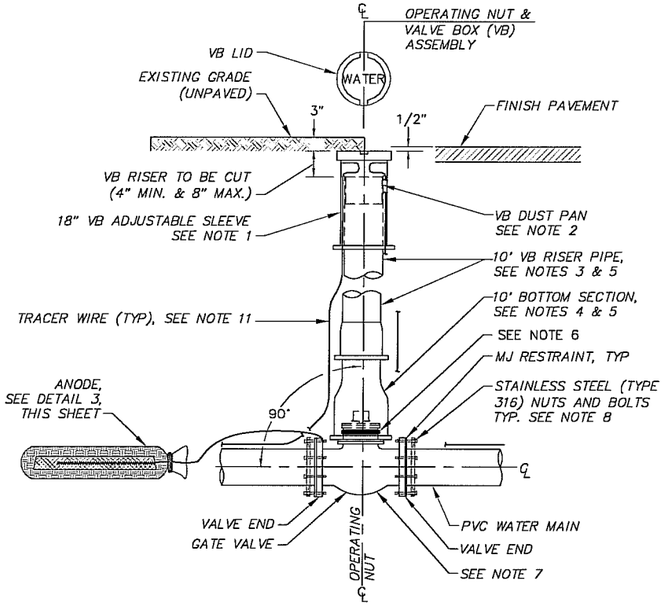
PROJ. ID.: AWWU 0000005687, MOA 03-09



NOTES

1. PVC DOUBLE STRAP SERVICE SADDLE SHALL BE ROMAC 202NS OR APPROVED EQUAL. SELECT THE SIZE THAT FITS THE PIPE OD CLOSEST TO THE TOP OF THE SADDLES OD RANGE. INSTALL STAINLESS STEEL (TYPE 316) NUTS, BOLTS AND WASHERS AND TORQUE PER MANUFACTURER.
2. CORPORATION STOP SHALL BE MUELLER H-15025 OR APPROVED EQUAL.
3. CURB STOP SHALL BE MUELLER H-15214 OR APPROVED EQUAL.
4. TAPE COAT NEW SERVICE VALVES AND FITTINGS WITH DENSYL TAPE OR APPROVED EQUAL IN ACCORDANCE WITH SPECIFICATIONS. PRIME SURFACES WITH DENSO PASTE OR APPROVED EQUAL.
5. KEY BOX SHALL BE 1¼" MUELLER H-10306 OR APPROVED EQUAL. ROD SHALL BE ATTACHED TO CURB STOP WITH 9/64"X4" BRASS COTTER PIN, NO SUBSTITUTIONS. (MANUFACTURER'S COTTER PIN SHALL NOT BE USED). WRAP KEY BOX WITH DENSYL TAPE AND 8 MIL POLYETHYLENE ENCASEMENT.
6. ALL STAINLESS STEEL BOLT THREADS SHALL BE COATED WITH TS MOLY-LUBRICANTS TS-74 STAINLESS ANTISEIZE, OR APPROVED EQUAL, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6. FURNISH AND INSTALL ANODE AS SHOWN IN "ANODE AND ANODE WIRE CONNECTION DETAIL", THIS SHEET. ANODE SHALL BE PAID FOR UNDER THE APPROPRIATE BID ITEM.
7. A SIX INCH WIDE DETECTABLE TAPE MARKED AND COLOR CODED PER THE SPECIAL PROVISIONS SHALL BE BURIED IN THE TRENCH ABOVE ALL WATER SERVICE CONNECTIONS.
8. THAW WIRE TO BE PLACED PARALLEL TO THE SERVICE LINE AND SHALL NOT COME IN CONTACT WITH THE SERVICE LINE AT ANY LOCATION.

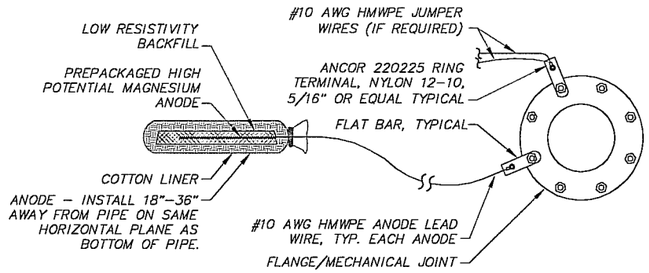
1 WATER SERVICE CONNECT
SCALE: NTS

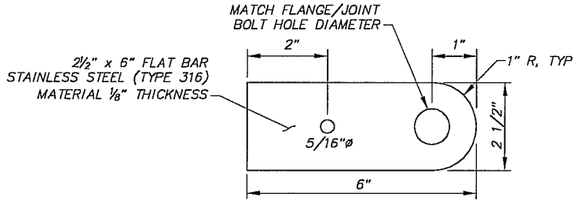


TYPICAL VALVE & VALVE BOX INSTALLATION NOTES:

1. VB ADJUSTABLE SLEEVE AND LID SHALL BE EJIW 3669 SERIES OR APPROVED EQUAL.
2. VB DUST PAN SHALL BE MADE OF DUCTILE IRON.
3. VB RISER PIPE SHALL BE (TYLER) 5" DIAMETER, 10 FOOT SECTION ONLY SINGLE HUB SOIL PIPE OR APPROVED EQUAL (TO BE PLUMBED STRAIGHT).
4. VB BOTTOM SECTION SHALL BE EJIW 3669 SERIES OR APPROVED EQUAL.
5. TAPE COAT VB RISER PIPE AND VB BOTTOM SECTION WITH DENSYL TAPE OR APPROVED EQUAL IN ACCORDANCE WITH THE SPECIFICATIONS. PRIME SURFACES WITH DENSO PASTE OR APPROVED EQUAL. WRAP VB RISER PIPE AND VB BOTTOM SECTION WITH 8 MIL OF POLYETHYLENE ENCASEMENT.
6. WRAP BURLAP INSIDE VB BOTTOM SECTION AND AROUND AND UNDER PACKING GLAND. SECURE WITH TAPE OR WIRE, PER THE ENGINEER.
7. WRAP THREE (3) LAYERS OF GEOTEXTILE FABRIC AROUND OUTSIDE OF VALVE AND UP AROUND TOP OF VB BOTTOM SECTION. TAPE AND SECURE GEOTEXTILE FABRIC AROUND TOP OF BOTTOM SECTION AND EACH VALVE END, PER THE ENGINEER.
8. ALL STAINLESS STEEL BOLT THREADS SHALL BE COATED WITH TS MOLY-LUBRICANTS TS-74 STAINLESS ANTISEIZE, OR APPROVED EQUAL, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
9. BONNET BOLTS ON ALL VALVES SHALL BE STAINLESS STEEL (TYPE 316).
10. FURNISH AND INSTALL ANODE AS SHOWN IN "ANODE & ANODE WIRE CONNECTION" DETAIL, THIS SHEET.
11. FURNISH AND INSTALL TRACE WIRE AND WARNING TAPE PER THE SPECIAL PROVISIONS. REFER TO TRENCH DETAIL FOR LOCATION OF TRACE WIRE AND WARNING TAPE IN RELATION TO WATER PIPE.

2 TYPICAL VALVE AND VALVE BOX ASSEMBLY
SCALE: NTS





ANODE WIRE CONNECTION NOTES:

1. CONTRACTOR TO FABRICATE FLAT BAR.
2. INSTALL FLAT BAR ON BODY SIDE OF FLANGE OR MECHANICAL JOINT. REMOVE COATING AT THE FLAT BAR LOCATION PRIOR TO INSTALLATION. METAL TO METAL CONTACT IS REQUIRED. REPAIR VISIBLE COATING DAMAGE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND PROJECT SPECIFICATIONS.
3. CONNECT WIRE WITH COMPRESSION RING CONNECTOR AND 1/4"ø x 1" STAINLESS STEEL BOLT (TYPE 316) WITH WASHER AND SELF LOCKING NUT.
4. TWO #10 AWG HMWPE JUMPER WIRES REQUIRED TO CONNECT EACH VALVE/HYDRANT.
5. WRAP ELECTRICAL INSULATION TAPE AROUND RING CONNECTOR AND BOND STRAP (WIRE END ONLY). DENSYL TAPE OR APPROVED EQUAL.
6. WRAP ELECTRICAL INSULATION TAPE A MINIMUM OF 3" DOWN ON WIRE INSULATION TO ENCAPSULATE CONNECTION.

ANODE INSTALLATION NOTES:

1. ANODE SHALL BE INSTALLED ON SAME HORIZONTAL PLANE AS VALVE OR FITTING. IF MULTIPLE VALVES/FITTINGS ARE JUMPERED TOGETHER, INSTALL THE ANODE AT MIDPOINT BETWEEN THEM.
2. HIGH POTENTIAL MAGNESIUM ANODES SHALL BE PREPACKAGED IN A CLOTH BAG WITH A BACKFILL MIXTURE OF 75% GYPSUM, 20% BENTONITE AND 5% SODIUM SULFATE. THE ANODES SHALL HAVE A 20 POUND BARE WEIGHT AND APPROXIMATELY 70 POUND PACKAGED WEIGHT.
3. THE CONTRACTOR IS REQUIRED TO PROVIDE COORDINATES OR PIPE STATIONING FOR EACH ANODE INSTALLED.
4. ALL CABLES SHALL BE SINGLE CONDUCTOR, STRANDED COPPER, WITH TYPE HMWPE INSULATION RATED FOR 600 VOLTS.
5. SPLIT-BOLT CONNECTIONS SHALL NOT BE ALLOWED ON ANY UNDERGROUND CONDUCTORS. IF SPLICES ARE REQUIRED, COMPRESSION CONNECTIONS (BURNDY OR APPROVED EQUAL) SHALL BE USED. COMPRESSION CONNECTIONS SHALL BE SEALED WITH A HEAT SHRINK SLEEVE RATED FOR BELOW GRADE USE.

3 ANODE AND ANODE WIRE CONNECTION
SCALE: NTS

SCHEDULE F

PRELIMINARY

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 SCALE: N/A
VERT SCALE: N/A

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

PLAN CHECK

REV	DATE	DESCRIPTION	BY

REVISIONS

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

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   BY: _____ TITLE: _____
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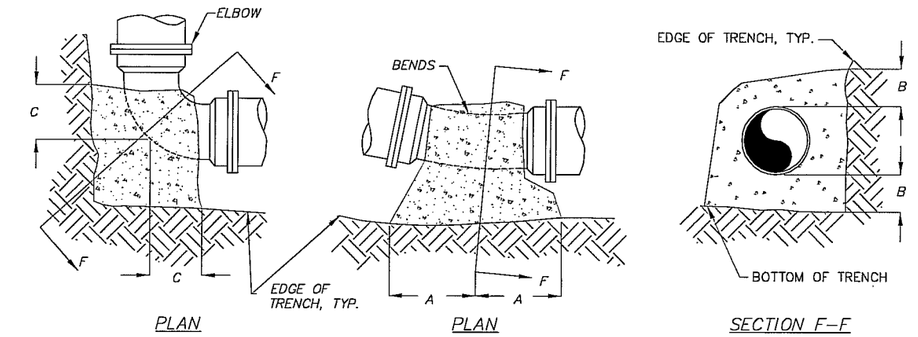
WISCONSIN STREET TO SPENARD ROAD

WATER DETAILS

HORZ SCALE: N/A	DATE: FEB 2012	GRID: 1627/1727/1728	SHEET W4 of W7
VERT SCALE: N/A	PROJ. ID.: AWWU 0000005687, MOA 03-09		



NOTES:

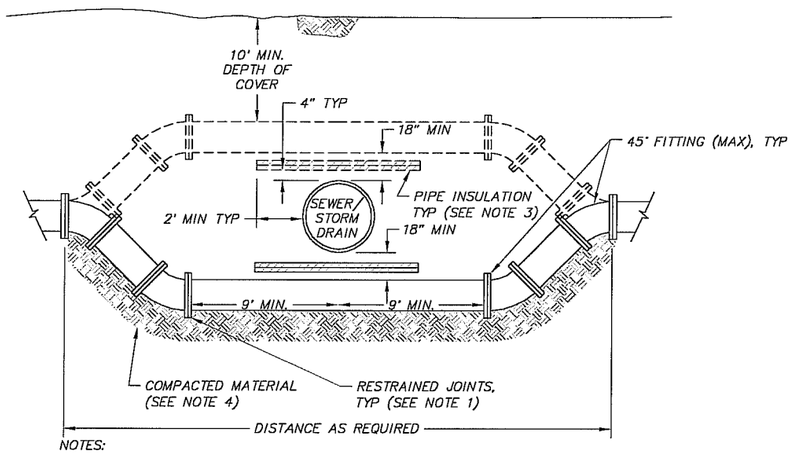
1. USE MASS CLASS A-3 CONCRETE.
2. CONCRETE TO BE CLEAR OF BELLS, FITTING BOLTS, AND MECHANICAL JOINT GLANDS.
3. CONCRETE TO BE PLACED UNDER ALL FITTINGS.
3. ALLOW POURED CONCRETE TO CURE FOR 24 HOURS PRIOR TO BACKFILLING.
4. SAFEGUARD AND PROTECT OPEN TRENCHES PER MASS SECTION 10, ARTICLE 5.12 SAFEGUARDING EXCAVATIONS.
5. EDGE/BOTTOM OF TRENCH SHALL REFER TO UNDISTURBED VIRGIN/ORGINAL GROUND.

MINIMUM REQUIRED BEARING AREA

	TEE AND PLUG			22.5 AND 11.25 BENDS			45 AND 90 BENDS		
PIPE SIZE (IN)	6	8	10	6	8	10	6	8	10
A (IN)	12	12	15	6	7	9	–	–	–
B (IN)	3	4	6	3	4	5	3	4	6
C (IN)	–	–	–	–	–	–	12	12	15
AREA (SQ FT)	2.0	2.5	4.5	1.0	1.5	2.5	2.0	2.5	4.5

1 TYPICAL THRUST BLOCK DETAILS
SCALE: NTS

PRELIMINARY



NOTES:

1. PIPE USED FOR RELOCATING WATER MAIN SHALL BE PVC, DR18. ALL PIPE AND FITTINGS SHALL BE RESTRAINED BY USE OF MEGALUG® AND/OR ROMAC INDUSTRIES PVC-ROMAGRIP OR EQUAL. ALL FITTINGS SHALL BE INSTALLED WITH THRUST BLOCKS.
2. RELOCATED WATER MAIN SHALL HAVE A MINIMUM SEPARATION OF THIRTY-SIX INCHES (36") BETWEEN STORM AND WATER. IF LESS THAN THIRTY-SIX INCHES (36") OF SEPARATION CANNOT BE OBTAINED THEN FOUR INCHES R20 INSULATION IS REQUIRED. IF EIGHTEEN INCHES (18") OF SEPARATION CANNOT BE MAINTAINED BETWEEN WATER AND SEWER OR STORM, WATER MAIN SHALL BE RELOCATED.
3. PIPE INSULATION SHALL BE HIGH DENSITY EXTRUDED POLYSTYRENE, MIN. 60 P.S.I., EQUIVALENT TO R-20. PIPE INSULATION SHALL BE BE POSITIONED NO LESS THAN OR EQUAL TO FOUR INCHES (4") FROM SEWER/STORM SEWER .
4. ALL BACKFILL MATERIAL AROUND RELOCATED WATER MAIN SHALL BE NFS AND COMPACTED TO 95% MAX. DENSITY.
5. ALL MATERIALS USED TO RELOCATE WATER MAIN SHALL BE APPROVED BY THE AWWU ENGINEER.
6. EXISTING NON-DUCTILE OR NON-CAST IRON SEWER MAINS SHALL BE REPLACED WITH NEW PVC PIPE A MINIMUM OF 9' EACH SIDE OF WATER MAIN CROSSING.

2 RELOCATE WATER MAIN
SCALE: NTS

AWWU PLAN SET NO. 9540

SCHEDULE F

PLOT SCALE: N/A PLOT DATE:2/15/2012 2:34 PM

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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 SCALE: N/A VERT SCALE: N/A

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TOPOGRAPHY			ELECTRIC						
PROFILE			CABLE TV						
SANITARY SEWER			TRAFFIC SIGNAL						
STORM SEWER			DESIGN						
WATER			QUANTITIES						
GAS			MUN. FINAL CHECK						
PLAN CHECK						REVISIONS			

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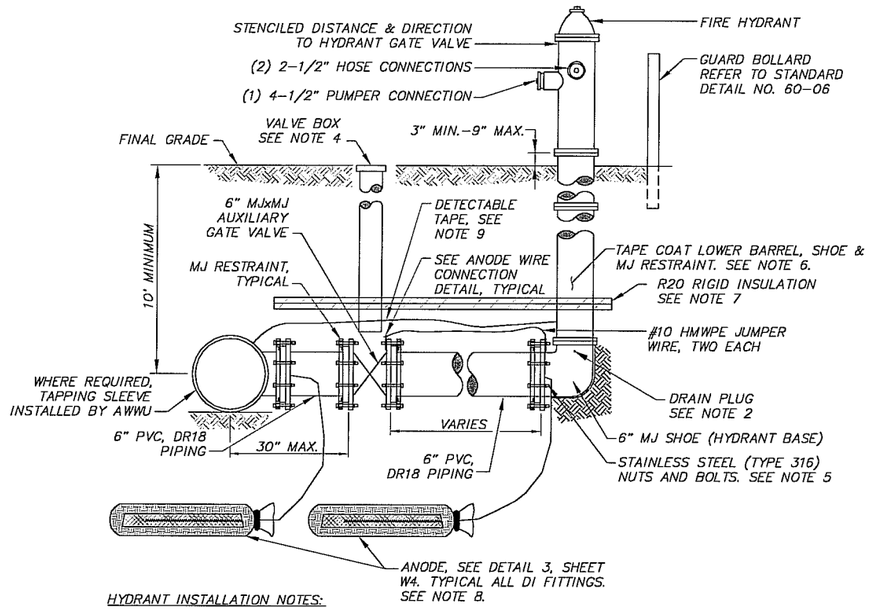
WISCONSIN STREET TO SPENARD ROAD

WATER DETAILS

HORZ SCALE: N/A VERT SCALE: N/A	DATE: FEB 2012	GRID:1627/1727/1728
PROJ. ID.: AWWU 0000005687, MOA 03-09		SHEET W5 of W7

PRELIMINARY

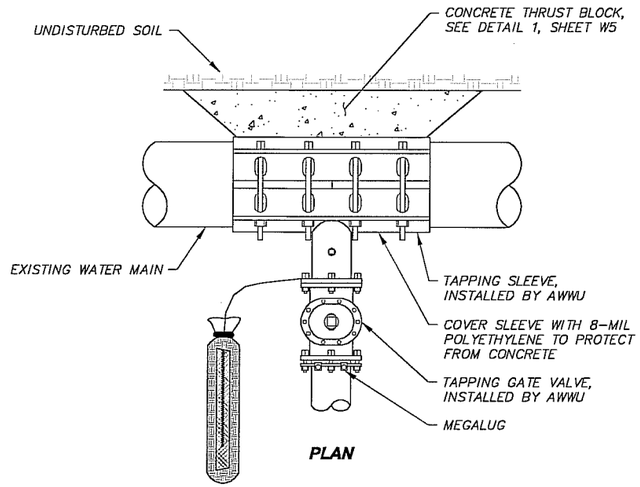
AWWU PLAN SET NO. 9540



HYDRANT INSTALLATION NOTES:

1. HYDRANT BARREL SHALL BE INSTALLED PLUMB AND THE LEG SHALL BE INSTALLED LEVEL.
2. DRAIN PLUG SHALL BE INSTALLED BY CONTRACTOR.
3. ALL HYDRANTS SHALL BE PAINTED CATERPILLAR YELLOW.
4. AUXILIARY GATE VALVE & VALVE BOX SHALL BE INSTALLED ACCORDING TO DETAIL FOR TYPICAL VALVE & VALVE BOX ASSEMBLY, DETAIL 2, SHEET W6.
5. ALL STAINLESS STEEL BOLT THREADS SHALL BE COATED WITH TS MOLY-LUBRICANTS TS-74 STAINLESS ANTISEIZE, OR APPROVED EQUAL, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6. TAPE COAT LOWER BARREL, SHOE, MJ RESTRAINT, AND ALL BURIED BOLTED CONNECTIONS WITH DENSYL TAPE OR APPROVED EQUAL IN ACCORDANCE WITH THE SPECIFICATIONS. PRIME SURFACES WITH DENSO PASTE OR APPROVED EQUAL. WRAP WITH 8 MIL POLYETHYLENE ENCASEMENT.
7. R-20 EXTRUDED POLYSTRENE, 60 PSI, RIGID BOARD INSULATION. 4' WIDE CENTERED OVER THE PIPE WITH STAGGERED INSULATION SEAMS. INSTALL ENTIRE LENGTH FROM THE MAIN TO THE HYDRANT SHOE, INCLUDING AROUND THE VALVE BOX BASE AND EXTENSION.
8. ANODES SHALL BE PAID FOR UNDER THE APPROPRIATE BID ITEM.
9. A SIX INCH WIDE DETECTABLE TAPE MARKED AND COLOR CODED PER THE SPECIAL PROVISIONS SHALL BE BURIED IN THE TRENCH ABOVE FIRE HYDRANT PIPE.

1 SINGLE PUMPER 'L' BASE HYDRANT ASSEMBLY DETAIL
SCALE: NTS



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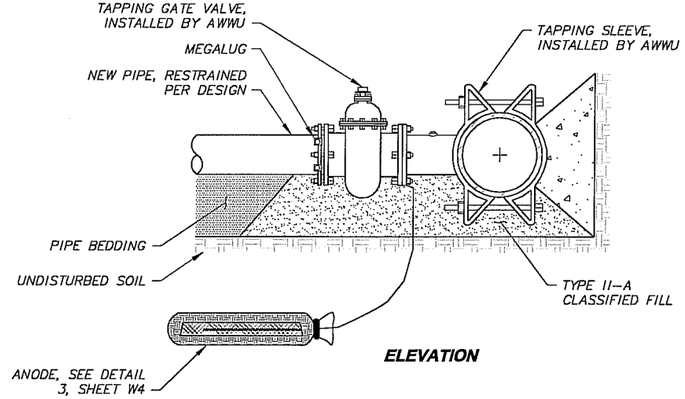

ELEVATION

2 LIVE TAP DETAIL
SCALE: NTS

SCHEDULE A & F

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TOPOGRAPHY			ELECTRIC						
PROFILE			CABLE TV						
SANITARY SEWER			TRAFFIC SIGNAL						
STORM SEWER			DESIGN						
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PLAN CHECK				REVISIONS					

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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

35TH AVENUE AND McRAE ROAD IMPROVEMENTS
WISCONSIN STREET TO SPENARD ROAD

WATER DETAILS

HORZ SCALE: N/A VERT SCALE: N/A	DATE: FEB 2012	GRID:1627/1727/1728	SHEET W6 of W7
PROJ. ID.: AWWU 0000005687, MOA 03-09			

PLOT SCALE: N/A PLOT DATE:2/15/2012 2:36 PM

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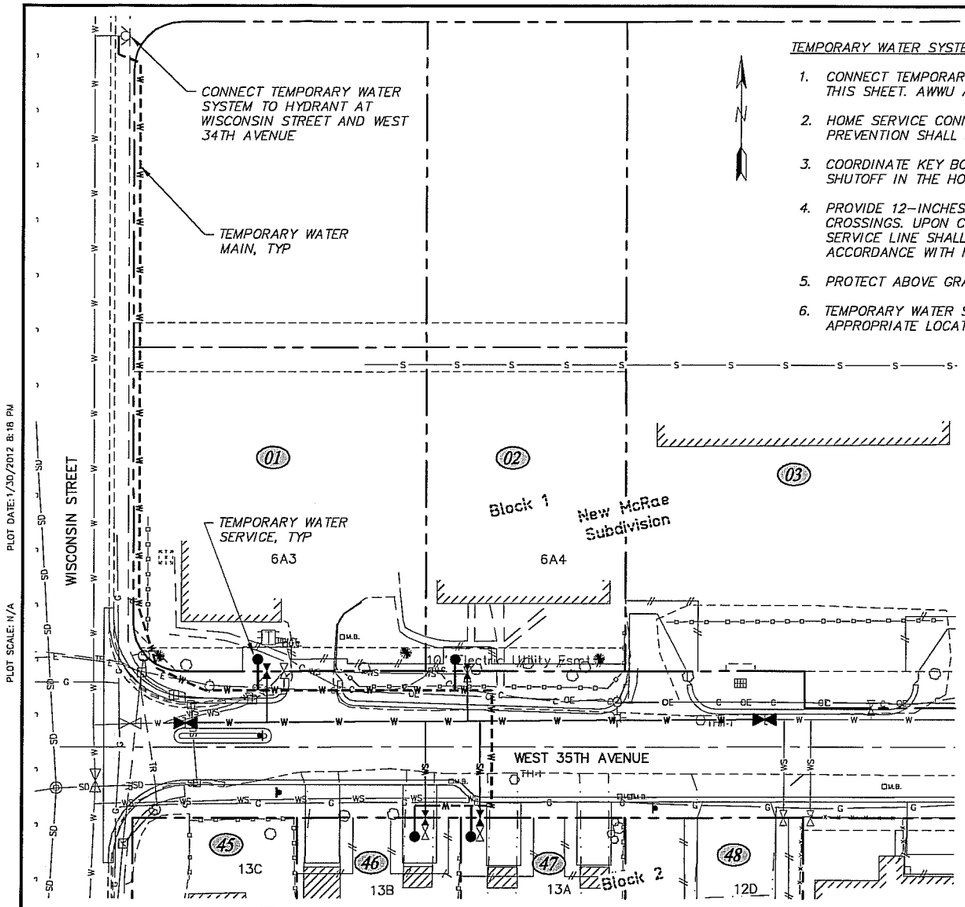
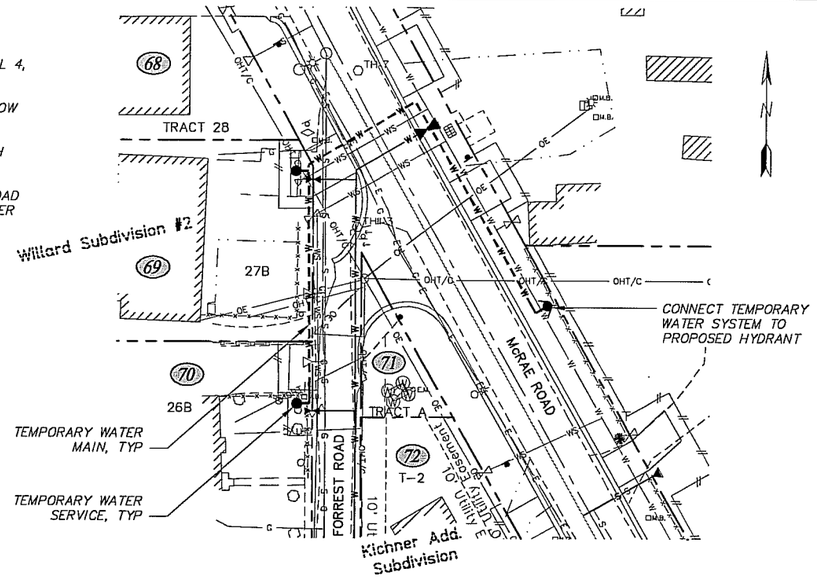


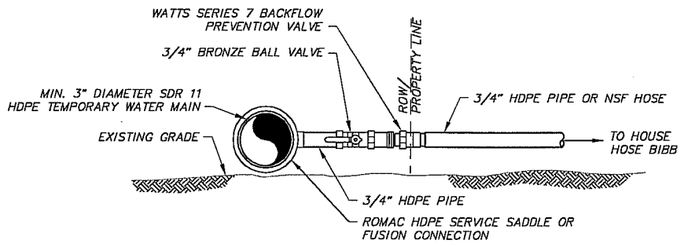
1 TEMPORARY WATER SYSTEM ROUTING PLAN

TEMPORARY WATER SYSTEM PLAN NOTES

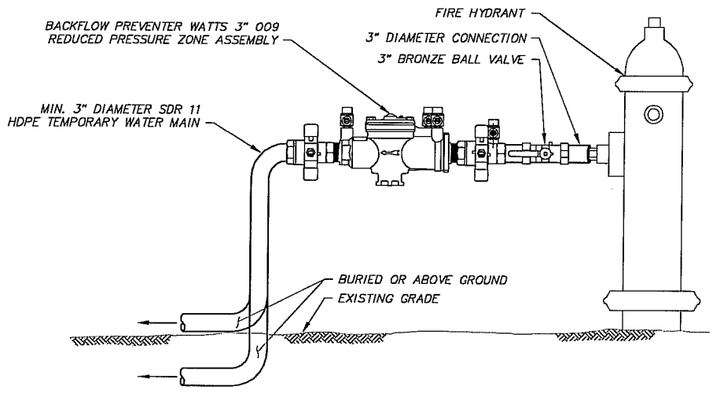
1. *CONNECT TEMPORARY WATER SYSTEM TO HYDRANT WITH ABOVE GROUND HDPE PIPE. SEE DETAIL 4, THIS SHEET. AWWU APPROVAL REQUIRED PRIOR TO INSTALLING TEMPORARY WATER, TYP.*
2. *HOME SERVICE CONNECTION SHALL BE MADE AT EXISTING EXTERIOR HOSE BIBBS AND BACK FLOW PREVENTION SHALL BE INSTALLED AS SHOWN ON DETAIL 3, THIS SHEET.*
3. *COORDINATE KEY BOX TURN OFF WITH THE ENGINEER. ISOLATE HOUSE FROM SERVICE LINE WITH SHUTOFF IN THE HOUSE.*
4. *PROVIDE 12-INCHES MINIMUM COVER OVER TEMPORARY WATER MAIN AT ALL DRIVEWAY AND ROAD CROSSINGS. UPON CONNECTION OF ALL HOMES TO THE NEW WATER MAIN, THE TEMPORARY WATER SERVICE LINE SHALL BE REMOVED, THE ROADWAY OR DRIVEWAY REPAIRED, AND REPAVED IN ACCORDANCE WITH MOA STANDARDS.*
5. *PROTECT ABOVE GRADE TEMPORARY PIPING, VALVES, AND FITTINGS FROM DAMAGE.*
6. *TEMPORARY WATER SERVICES ARE SHOWN SCHEMATICALLY. CONTRACTOR TO FIELD DETERMINE APPROPRIATE LOCATIONS.*



2 TEMPORARY WATER SYSTEM ROUTING PLAN



3 TEMPORARY WATER SERVICE TO DWELLING SCALE: NTS



4 TEMPORARY WATER CONNECTION TO HYDRANT SCALE: NTS

PRELIMINARY

AWWU PLAN SET NO. 9540

SCHEDULE F

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DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY
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TOPOGRAPHY			ELECTRIC		
PROFILE			CABLE TV		
SANITARY SEWER			TRAFFIC SIGNAL		
STORM SEWER			DESIGN		
WATER			QUANTITIES		
GAS			MUN. FINAL CHECK		

PLAN CHECK

REV	DATE	DESCRIPTION	BY

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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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

35TH AVENUE AND McRAE ROAD IMPROVEMENTS
WISCONSIN STREET TO SPENARD ROAD

TEMPORARY WATER PLAN & DETAILS

HORZ SCALE: 1"=30' VERT SCALE: N/A | DATE: FEB 2012 | GRID:1627/1727/1728
PROJ. ID.: AWWU 0000005687, MOA 03-09 | SHEET W7 of W7