

GENERAL	CONSTRUCTION	NOTES
---------	--------------	-------

- 1. CBJ ENGINEERING STANDARD DETAILS BOOK FOR CIVIL ENGINEERING PROJECTS AND SUBDIVISION IMPROVEMENTS DATED AUGUST, 2011 AND CBJ ENGINEERING STANDARD SPECIFICATIONS DATED DECEMBER, 2003 ARE MADE A PART OF THIS CONTRACT, WITH CURRENT REVISIONS AS APPLICABLE.
- 2. LARGE BOULDERS, HARDPAN, STUMPS, LOGS, ORGANICS AND GROUND WATER MAY BE ENCOUNTERED AT VARIOUS DEPTHS DURING TRENCHING, DITCHING AND ROADWAY EXCAVATION OPERATIONS. THESE MATERIALS SHALL BE DISPOSED OF AS REQUIRED BY THE ENGINEER.
- 3. GRADES AND ALIGNMENTS SHOWN ON THESE PLANS ARE SUBJECT TO MINOR REVISIONS AS APPROVED BY THE ENGINEER
- 4. LOCATION OF WATER SYSTEM IMPROVEMENTS, SANITARY SEWER IMPROVEMENTS, STORM DRAIN CATCH BASINS, PIPING AND PIPE LENGTHS ARE SUBJECT TO MINOR REVISIONS AS APPROVED BY THE ENGINEER. GRADING AND ALIGNMENT ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER.
- 5. CONNECTIONS TO EXISTING SIDE STREETS AND DRIVEWAYS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION
- 6. LOCATIONS OF EXISTING UNDERGROUND SEWER, WATER, TELEPHONE, CABLE TELEVISION, AND POWER UTILITIES SHOWN ON THESE PLANS WERE DERIVED FROM AS-BUILT DRAWINGS AND FIELD LOCATES. ACTUAL LOCATIONS MAY VARY FROM THOSE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING, PROTECTING AND MAINTAINING THE UTILITIES THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. ANY DAMAGE RESULTING TO THESE UNDERGROUND UTILITIES DURING CONSTRUCTION SHALL BE PAID FOR BY THE CONTRACTOR AND SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. CALL "DIAL BEFORE YOU DIG" @ 586-1333 FOR UNDERGROUND UTILITY LOCATES PRIOR TO ANY EXCAVATION ACTIVITIES.
- 7. CONTRACTOR SHALL ASSURE GARBAGE PICKUP, DAILY MAIL SERVICE, FUEL, AND SERVICE DELIVERIES WILL BE UNINTERRUPTED TO ALL RESIDENTS AND BUSINESSES AFFECTED BY THIS PROJECT.
- 8. PROPERTY LINE LOCATIONS USED IN THESE PLANS ARE DERIVED FROM RECORD PLATS AND DO NOT REPRESENT A BOUNDARY SURVEY. THE PROPERTY LINES SHOWN ARE A BEST FIT APPROXIMATION OF CLOSURE.
- 9. ALL SIGN INSTALLATIONS OR RELOCATIONS SHALL BE PERFORMED ACCORDING TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (M.U.T.C.D.) WITH THE ALASKA SUPPLEMENT.
- 10. THE CONTRACTOR SHALL DELIVER ALL ASPHALT PAVEMENT REMOVED FROM THIS PROJECT TO A STOCKPILE AREA IN THE CBJ LEMON CREEK PIT TO BE DESIGNATED BY THE ENGINEER. CONTACT THE ENGINEER FOR THE EXACT LOCATION OF THE STOCKPILE AREA.
- 11. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF AT AN APPROVED DISPOSAL SITE, EXCEPT AS NOTED IN THE CONTRACT DOCUMENTS.
- 12. PROVIDE KNOCKOUTS IN CATCH BASINS AND MANHOLES FOR ALL PIPES SHOWN ON THE PLANS.
- 13. ONLY HORIZONTAL ELBOW FITTINGS (BENDS) ARE SHOWN (NOT ALL ARE LABELED) ON THE DRAWINGS. ADDITIONAL FITTINGS WILL BE REQUIRED FOR VERTICAL DEFLECTIONS NEAR CONNECTION TO EXISTING PIPES AND AT OTHER LOCATIONS REQUIRING GRADE CHANGES TO AVOID CONFLICTS.
- 14. THE CONTRACTOR SHALL NOT STORE MATERIALS OR EQUIPMENT OR OPERATE EQUIPMENT WITH ITS TRACKS OR WHEELS PLACED ON PRIVATE PROPERTY WITHOUT THE WRITTEN APPROVAL OF THE PROPERTY OWNER.
- 15. THE CONTRACTOR SHALL NOTIFY CBJ WATER UTILITIES AT 586-0393 OF PROPOSED WATER SERVICE INTERRUPTION AND SUBMIT THE "WATER SYSTEM SPECIAL USE PERMIT" TO THE CBJ WATER UTILITIES SUPERINTENDENT FOR APPROVAL AT LEAST 48-HOURS PRIOR TO SHUTDOWN OR FLUSHING OF MAINLINE WATER PIPE. NO WATER SERVICE INTERRUPTION MAY PROCEED UNTIL THIS APPROVAL IS OBTAINED.
- 16. CONTRACTOR SHALL REFERENCE ALL EXISTING PROPERTY CORNER MONUMENTS (I.E. BRASS CAP MONUMENTS, REBARS OR CHISELED X'S) PRIOR TO CONSTRUCTION THAT WILL BE DISTURBED DURING HIS WORK, AND REMONUMENT AFTER CONSTRUCTION OPERATIONS. ALL WORK SHALL BE DONE BY OR UNDER THE DIRECTION OF, AN ALASKA REGISTERED LAND SURVEYOR. ALL EXISTING PROPERTY CORNERS ARE NOT NECESSARILY SHOWN ON THE
- 17. THE PLAN DRAWINGS DO NOT NECESSARILY SHOW ALL TREES AND SHRUBS THAT MAY BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES. NO TREES, SHRUBS OR LANDSCAPING ARE TO BE REMOVED OR DAMAGED, UNLESS SHOWN ON THE DRAWINGS OR DIRECTED BY THE ENGINEER.
- 18. AEL&P, ACS AND GCI MAY CONDUCT WORK WITHIN THE PROJECT LIMITS TO RELOCATE UTILITIES AND TO UPGRADE THEIR RESPECTIVE SYSTEMS. THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH EACH UTILITY COMPANY AND PROVIDE ACCESS AS NECESSARY FOR UTILITY COMPANIES TO COMPLETE THEIR WORK.
- 19. "JUMPING JACK", OR SIMILAR TYPE COMPACTORS SHALL BE USED FOR COMPACTION WITHIN 18 INCHES OF THE OUTSIDE SURFACE OF ALL WATER VALVE BOXES AND MANHOLES WITHIN THE STREET LIMITS.
- 20. THE USE OF GROUT AND QUICKSET CEMENT PRODUCTS WITH ADJUSTING RINGS, BRICKS, WOOD, STONES AND OTHER SIMILAR GRADE ADJUSTMENT DEVICES TO SUPPORT CATCH BASIN FRAMES OVER CATCH BASINS AND MANHOLES WILL NOT BE PERMITTED ON THIS PROJECT. SEE CBJ STANDARD SPECIFICATIONS, SECTION 02502 - STORM SEWER MANHOLES, INLETS AND CATCH BASINS AND THE DRAWINGS FOR CATCH BASIN FRAME SUPPORT REQUIREMENTS
- 21. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ENGINEER APPROVED EROSION CONTROL DEVICES DURING CONSTRUCTION PER SECTION 01570 REQUIREMENTS.
- 22. TEMPORARY RAMPS SHALL BE PROVIDED AS REQUIRED FOR ACCESS TO BUSINESSES AND RESIDENCES DURING THE CONSTRUCTION PERIOD.
- 23. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING WATER AND SEWER PIPES, INCLUDING ALL SERVICES ALONG THE STORM DRAIN AND WATER PIPE ALIGNMENTS TO DETERMINE PIPE INSULATION LOCATIONS AND TO ENSURE DAMAGE DOES NOT OCCUR TO THE SERVICE PIPES.
- 24. WATER PIPES WILL REQUIRE MORE THAN 60-INCHES OF COVER IN AREAS WHERE STORM DRAINAGE PIPES ARE CLOSE TO OR BELOW A DEPTH OF 60-INCHES TO INVERT. DEPTHS OF ALL STORM DRAINAGE PIPES SHALL BE DETERMINED PRIOR TO INSTALLING WATER PIPES TO ENSURE CONFLICTS BETWEEN THESE PIPES DO NOT OCCUR. A MINIMUM CLEARANCE OF 8-INCHES SHALL BE OBTAINED BETWEEN WATER AND OTHER PIPES.
- 25. THE CONTRACTOR SHALL NOTIFY BUSINESSES AND RESIDENTS OF DRIVEWAY CLOSURES AT LEAST 48 HOURS PRIOR TO THE CLOSURE. THE BUSINESSES AND RESIDENTS SHALL BE INFORMED OF THE ANTICIPATED DURATION OF THE CLOSURE. NO DRIVEWAY CLOSURES WILL BE PERMITTED UNTIL THIS REQUIREMENT HAS BEEN MET TO THE SATISFACTION OF THE ENGINEER.
- 26. THE CONTRACTOR SHALL PROVIDE TOP OF WATER PIPE ELEVATIONS TO THE ENGINEER AT A MAXIMUM SPACING OF 50 FEET AND AT ALL GRADE BREAKS PRIOR TO BACKFILLING OVER THE PIPE. IF THE PIPE IS BACKFILLED PRIOR TO PROVIDING THESE TOP OF PIPE ELEVATIONS, THE PIPE SHALL BE EXPOSED AND THE TOP OF PIPE SURVEYED BY THE CONTRACTOR.

BY APRVI

27. THE CONTRACTOR SHALL RESTRICT ITS COMPACTION AND OTHER VIBRATION INDUCING OPERATIONS AS NECESSARY TO ASSURE NO DAMAGE OCCURS TO ADJACENT BUILDINGS OR STRUCTURES. REFER TO SECTION 01530, ARTICLE 1.7 OF THE STANDARD SPECIFICATIONS FOR FURTHER REQUIREMENTS.

2	FILE:	J	No.	DATE	REVISION
2014/14	APPROVED JMP				
141367\1	СНЕСК ЈМР				
141367wk.dwg	DRAWN KAP				
vk.dwg	DESIGN JMP				
-		١.	1		

GENERAL NOTES, ABBREVIATIONS AND SYMBOLS

ABBREVIATIONS

VERT VPC VPI VPT w/

WITH

	ADDICE HAHONS	
AC ACS AEL&P	ASBESTOS CEMENT ALASKA COMMUNICATIONS SYSTEMS ALASKA ELECTRIC LIGHT & POWER	<u>EXISTIN</u>
AST BC	ABOVEGROUND STORAGE TANK BACK OF CURB	
BOP CB	BEGINNING OF PROJECT CATCH BASIN	
CBJ CHB	CITY & BOROUGH OF JUNEAU CHORD BEARING	
CHL C/L	CHORD LENGTH CENTERLINE	\bigcirc
CIP CLR	CAST IRON PIPE CLEAR	—
CMP CONC	CORRUGATED METAL PIPE CONCRETE	
CONT CPP	CONTINUOUS CORRUGATED POLYETHYLENE PIPE	
CTE DI	CONNECT TO EXISTING DUCTILE IRON	
DIP DIA	DUCTILE IRON PIPE DIAMETER	
DOT/PF E	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES EASTING	
EG EJ	EXISTING GRADE EAST JORDAN	
EL EOP	ELEVATION END OF PROJECT	
EP EXIST	EDGE OF PAVEMENT EXISTING	
EXP FG	EXPANSION FINISH GRADE	
FH FL	FIRE HYDRANT FLOW LINE	
FM GCI	FORCE MAIN GENERAL COMMUNICATION INC.	
GV HDPE	GATE VALVE HIGH DENSITY POLYETHYLENE	<u> </u>
HP	HIGH PRESSURE INVERT ELEVATION	M
L LP	LENGTH LOW POINT	
LT MAX	LEFT MAXIMUM	dên
MIN MJ	MINIMUM MECHANICAL JOINT	-\$-6
MTE	MATCH TO EXISTING NORTHING	
N/A	NOT APPLICABLE	
N/L NF	NO LISTING NEENAH FOUNDRY CO.	\square
NFS NTS	NON-FROST SUSCEPTIBLE NOT TO SCALE	
	NO VERTICAL CURVE ON CENTER	E
OFCO PC PCC	OLYMPIC FOUNDRY CO. POINT OF CURVATURE POINT OF COMPOUND CURVATURE	
PERF	PERFORATED	P
PI P/L	POINT OF INTERSECTION PROPERTY LINE	
POC POL	POINT ON CURVE POINT ON LINE	C
PP PRC	POWER POLE POINT OF REVERSE CURVATURE	
PT PVC	POINT OF TANGENCY POLYVINYL CHLORIDE	
R ROW	RADIUS RIGHT-OF-WAY	
RP RT	RADIUS POINT RIGHT	_0_
SDMH SS	STORM DRAIN MANHOLE SANITARY SEWER	00
SSCO SSMH	SANITARY SEWER CLEANOUT SANITARY SEWER MANHOLE	o
STA STD	STATION STANDARD	
SWPPP T	STORM WATER POLLUTION PREVENTION PLAN TANGENT	
ТВМ ТВС	TEMPORARY BENCH MARK TOP BACK OF CURB	
ТС ТОВ	TOP OF CONCRETE TOP OF BANK	
TOP TYP	TOP OF PIPE TYPICAL	
UD UNO	UNDERDRAIN UNLESS NOTED OTHERWISE	rz.
UST VC	UNDERGROUND STORAGE TANK VERTICAL CURVE	
VERT VPC	VERTICAL VERTICAL POINT OF CURVATURE	
VPI VPT	VERTICAL POINT OF INTERSECTION VERTICAL POINT OF TANGENCY	
w//	WITH	





6205 GLACIER HIGHWAY JUNEAU, AK. 99801

≥∛ Z

Phone 907-780-6060 Fax 907-780-4611

AECC605

	SYMBOLS	
NG	PROPOSED	
		PROPERTY / BOUNDARY LINE
		UTILITY EASEMENT LINE PROJECT BASELINE
		TEMPORARY BENCH MARK
)		SANITARY SEWER MANHOLE
,		
		SANITARY SEWER LINE / SERVICE
		STORM DRAIN PIPE
		STORM DRAIN MANHOLE W/ CONCRETE AREA DRAIN
		CATCH BASIN
		ASPHALT SURFACE
4 d		CONCRETE SURFACE
	··	SAWCUT AND M.T.E.
		EDGE OF SHOULDER
		GRADE BREAK
┥ ──	\rightarrow \rightarrow \rightarrow	WATER LINE
	\bowtie	WATER VALVE BOX
	•	FIRE HYDRANT
)		UTILITY POLE W/ LIGHT
		UTILITY POLE
— е —		ELECTRIC LINE UNDERGROUND
		ELECTRIC TRANSFORMER
		ELECTRIC PEDESTAL
- Р ——		TELEPHONE LINE UNDERGROUND
		TELEPHONE PEDESTAL
с		CABLE TV LINE UNDERGROUND
		CABLE TV PEDESTAL
		TOP OF BANK
		FILL SLOPE LIMITS
		DRAINAGE SWALE SIGN
o		PVC FENCE
~		CHAIN LINK FENCE
		CONIFER TREE
\bigotimes		MISCELLANEOUS LANDSCAPING
		STRUCTURE

	NOV 22, 2016 NO. 141367
SHEET	C002

PAVING CBJ CONTRACT No. E16-010 CITY & BOROUGH OF JUNEAU, ALASKA

DUNN STREET

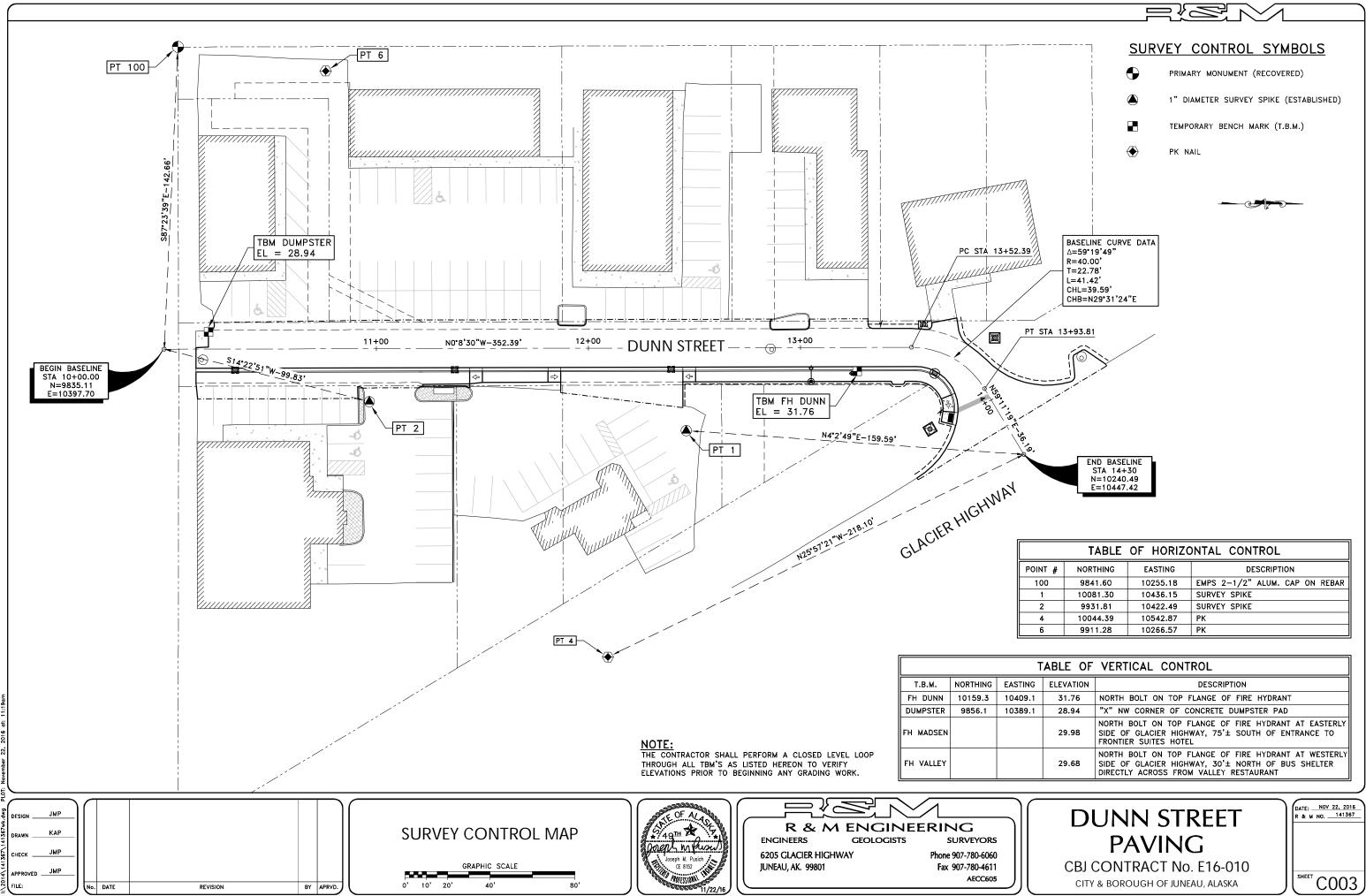


	TABLE OF HORIZONTAL CONTROL				
POINT #	NORTHING	EASTING	DESCRIPTION		
100	9841.60	10255.18	EMPS 2-1/2" ALUM. CAP ON REBAR		
1	10081.30	10436.15	SURVEY SPIKE		
2	9931.81	10422.49	SURVEY SPIKE		
4	10044.39	10542.87	РК		
6	9911.28	10266.57	РК		

TABLE OF VERTICAL CONTROL			
EASTING	ELEVATION	DESCRIPTION	
10409.1	31.76	NORTH BOLT ON TOP FLANGE OF FIRE HYDRANT	
10389.1	28.94	"X" NW CORNER OF CONCRETE DUMPSTER PAD	
	29.98	NORTH BOLT ON TOP FLANGE OF FIRE HYDRANT AT EASTERLY SIDE OF GLACIER HIGHWAY, 75' \pm SOUTH OF ENTRANCE TO FRONTIER SUITES HOTEL	
	29.68	NORTH BOLT ON TOP FLANGE OF FIRE HYDRANT AT WESTERLY SIDE OF GLACIER HIGHWAY, 30' \pm NORTH OF BUS SHELTER DIRECTLY ACROSS FROM VALLEY RESTAURANT	

DUNN STREET	DATE: <u>NOV 22, 2016</u> R & M NO. <u>141367</u>
PAVING	
CBJ CONTRACT No. E16-010	
CITY & BOROUGH OF JUNEAU, ALASKA	

SIGN	ASSEMBLY	TABLE
------	----------	-------

SIGN No.	SIGN LOCATION	MUTCD DESIGNATION	SIZE	LEGEND
1	13+91.0, 23.0 RT	R1-1	30"x30"	STOP (REUSE STREET NAME PANELS)
2	13+38.0, 11.5 LT	W14-2	30"x30"	NO OUTLET

NOTES: 1. ALL SIGNS TO BE CONSTRUCTED IN ACCORDANCE WITH CBJ STANDARD 127A.

2. ALL SIGNS SHALL BE HIGH INTENSITY AND LOCATED AS DIRECTED BY THE ENGINEER.

3. SALVAGE ALL EXISTING SIGN PANELS AND DELIVER TO CBJ STREET MAINTENANCE SHOP. DISPOSE OF ALL EXISTING POSTS, POST SOCKETS AND FOUNDATION MATERIALS.

4. REPLACE ALL LOWER BRACKETS FOR STREET IDENTIFICATION PANELS.

5. ALL POSTS SHALL BE "TELSPAR", OR APPROVED EQUAL

6. TELSPAR POSTS SHALL BE PRE-PUNCHED WITH ALL KNOCKOUTS REMOVED.

				-
STREET ADDRESS	STATION & OFFSET	TYPE	SIZE	REMARKS
2201 DUNN ST	12+05.2, 11.5 LT	PVC	6"	SEE NOTES 1 & 2
2203-2217 DUNN ST	11+25.9, 11.5 LT	PVC	6"	SEE NOTES 1 & 2
LOT 13	11+67.8, 16.8 RT	PVC	6"	SEE NOTE 3
2203-2217 DUNN ST	11+85.1, 11.5 LT	PVC	6"	SEE NOTES 1 & 2
2219-2225 DUNN ST	10+51.7, 11.5 LT	PVC	6"	SEE NOTES 1 & 2
2220 DUNN ST	10+81.3, 16.5 RT	PVC	6"	SEE NOTES 1 & 2
9351 GLACIER HWY	12+06.4, 16.5 RT	PVC	6"	SEE NOTES 1 & 2
9355 GLACIER HWY	12+95.0, 16.8 RT	PVC	6"	SEE NOTES 1 & 2
9425 GLACIER HWY	13+74.9, 20.9 LT	PVC	6"	SEE NOTES 1 & 2

SEWER SERVICE SUMMARY

NOTES:

1. SEWER SERVICE LOCATIONS SHOWN WERE DERIVED FROM LIMITED AS-BUILT INFORMATION, THEY WERE NOT FIELD LOCATED. CONTRACTOR SHALL FIELD LOCATE ALL SEWER SERVICES TO CONFIRM FINAL LOCATION FOR NEW SEWER SERVICE CLEANOUT INSTALLATION.

- 2. INSTALL A NEW 6" PVC SEWER SERVICE CLEANOUT ON EXISTING SERVICE LINE AND LOCATE SEWER CLEANOUT WITH CAST IRON FRAME AND LID NEAR PROPERTY LINE PER CBJ STANDARD DETAIL 213. ADJUST TO FINISH GRADE. PROVIDE ALL ADAPTERS, ELBOWS AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS AND DEPTHS.
- 3. INSTALL NEW 6" PVC SEWER SERVICE LATERAL AND CLEANOUT PER CBJ STANDARD DETAIL 213. INSTALL CAST IRON FRAME AND LID NEAR THE PROPERTY LINE AND ADJUST TO FINISH GRADE.

3. UNDEVELOPED PARCEL, NO CONNECT TO EXISTING REQUIRED. 4. PROVIDE ALL ADAPTERS, ELBOWS, AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS AND DEPTHS.

5. INSTALL BLOW-OFF LINE AND CONNECT TO CATCH BASIN S-1. CURB STOP SHALL INCLUDE STOP & WASTE FEATURE AND BE LOCATED AT THE LOW POINT OF THE LINE. 6. REFER TO THE SPECIAL PROVISIONS FOR TEMPORARY WATER SYSTEM REQUIREMENTS.

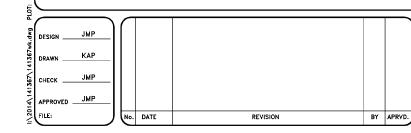
STORM DRAIN STRUCTURE FRAME & GRATE SUMMARY			
	OR APPROVED EQUAL.		
S-1	EAST JORDAN 7700, M3 GRATE		
S-2	EAST JORDAN 7700, M3 GRATE		
S-3	EAST JORDAN 7700, M3 GRATE		
S-4	EAST JORDAN 7701, T2 HOOD & 7700 M3 GRATE		
S-5	OLYMPIC FOUNDRY MH34SC		
S-6	OLYMPIC FOUNDRY MH34SC		
S-7	OLYMPIC FOUNDRY MH34SC		
NOTES: 1. CATCH BASIN TOP SLAB OPENINGS SHALL BE DIMENSIONED TO FIT THE FRAME DIMENSIONS. ALL GRATES SHALL BE HEAVY DUTY CONSTRUCTION AND BICYCLE SAFE. ALL FRAMES AND GRATES TO BE DUCTILE IRON.			

		EXISTIN	IG SAN	ITARY SEWE	R MANHOLE RE
MANHOLE NUMBER	LOCATION	EXISTING ELEVATION	PROPOSED ELEVATION	NEW COVER & FRAME	
К20	10+17.67, 5.02 RT	28.02	28.72	CBJ STD 206A, 24" CLEAR OPENING	REMOVE EXISTING COVER & 4" HEIGHT, INSTALL NEW IN NEW COVER & FRAME ON M MANHOLE STEPS PER CBJ S
К22	12+86.48, 0.86 RT	29.15	29.16	CBJ STD 206B (LOCKING), 30" CLEAR OPENING	REMOVE EXISTING COVER & 4 @ 4" HEIGHT AND 1 @ 6 REDUCING CONE AND USE II NEW COVER & FRAME ON M MANHOLE STEPS PER CBJ S THE SOUTH PER CBJ STAND
K22.1	14+04.76, 46.68 LT	27.41	29.76	CBJ STD 206A, 24" CLEAR OPENING	REMOVE EXISTING COVER & 4" HEIGHT, AND REDUCING INFRA-RISER (RECYCLED RUI ON MANHOLE TO FINISH GR, CBJ STANDARDS.

JUNEAU, AK. 99801

NOTES:

1. ALL PIPE REPLACEMENTS INTO NEW OR EXISTING MANHOLES SHALL CONFORM TO THE REQUIREMENTS OF CBJ STANDARD 209. 2. ALL EXISTING MANHOLES TO REMAIN SHALL BE WATERPROOFED AT EACH EXISTING JOINT WITH THE MIRADRI WATERPROOFING SYSTEM, OR APPROVED EQUAL. 3. CONTRACTOR TO FIELD CONFIRM SANITARY SEWER MANHOLE BARREL AND REDUCING CONE DIMENSIONS PRIOR TO ORDERING MATERIALS.



SUMMARY TABLES



 \leq **R & M ENGINEERING** ENGINEERS GEOLOGISTS SURVEYORS 6205 GLACIER HIGHWAY

Phone 907-780-6060 Fax 907-780-4611 AECC605

STREET ADDRESS	STATION & OFFSET	TYPE	SIZE	REMARKS		
1997 DUNN ST	13+33.6, 11.5 LT	CU	2"	SEE NOTES 1 & 4		
2201 DUNN ST	12+02.2, 11.5 LT	CU	2"	SEE NOTES 1 & 4		
203–2217 DUNN ST	11+55.2, 11.5 LT	CU	2"	SEE NOTES 1 & 4		
LOT 13	11+57.8, 16.8 RT	HDPE	6"	SEE NOTE 3		
219-2225 DUNN ST	11+14.0, 11.5 LT	CU	2"	SEE NOTES 1 & 4		
219-2225 DUNN ST	10+58.4, 10.6 LT	CU	2"	SEE NOTES 1 & 4		
2220 DUNN ST	11+09.3, 16.5 RT	CU	2"	SEE NOTES 1 & 4		
9351 GLACIER HWY	12+10.9, 16.5 RT	CU	2"	SEE NOTES 1 & 4		
9355 GLACIER HWY	12+77.4, 16.5 RT	CU	2"	SEE NOTES 1 & 3		
9425 GLACIER HWY	13+71.6, 18.1 LT	CU	2"	SEE NOTES 1,2 & 4		
BLOW-OFF LINE	10+57.3, 2.5 LT	CU	2"	SEE NOTE 5		

WATER SERVICE SUMMARY

2203-2

2219-2 2219-2

9351

9355

9425

NOTES:

. INSTALL NEW WATER SERVICE AND CURB BOX PER CBJ STANDARD 406A. STATION & OFFSET LOCATIONS ARE GIVEN TO CENTER OF WATER VALVE BOX. CONNECT TO EXISTING WATER SERVICE. EXISTING WATER SERVICE SIZES SHOWN ON THE PLANS WERE DERIVED FROM DISCUSSIONS WITH THE PROPERTY OWNERS, CONTRACTOR SHALL CONFIRM SIZES PRIOR TO INSTALLATION.

2. THIS WATER SERVICE BOX WAS NOT FIELD LOCATED. CONTRACTOR TO FIELD LOCATE THE EXISTING WATER SERVICE.

RECONSTRUCTION SUMMARY

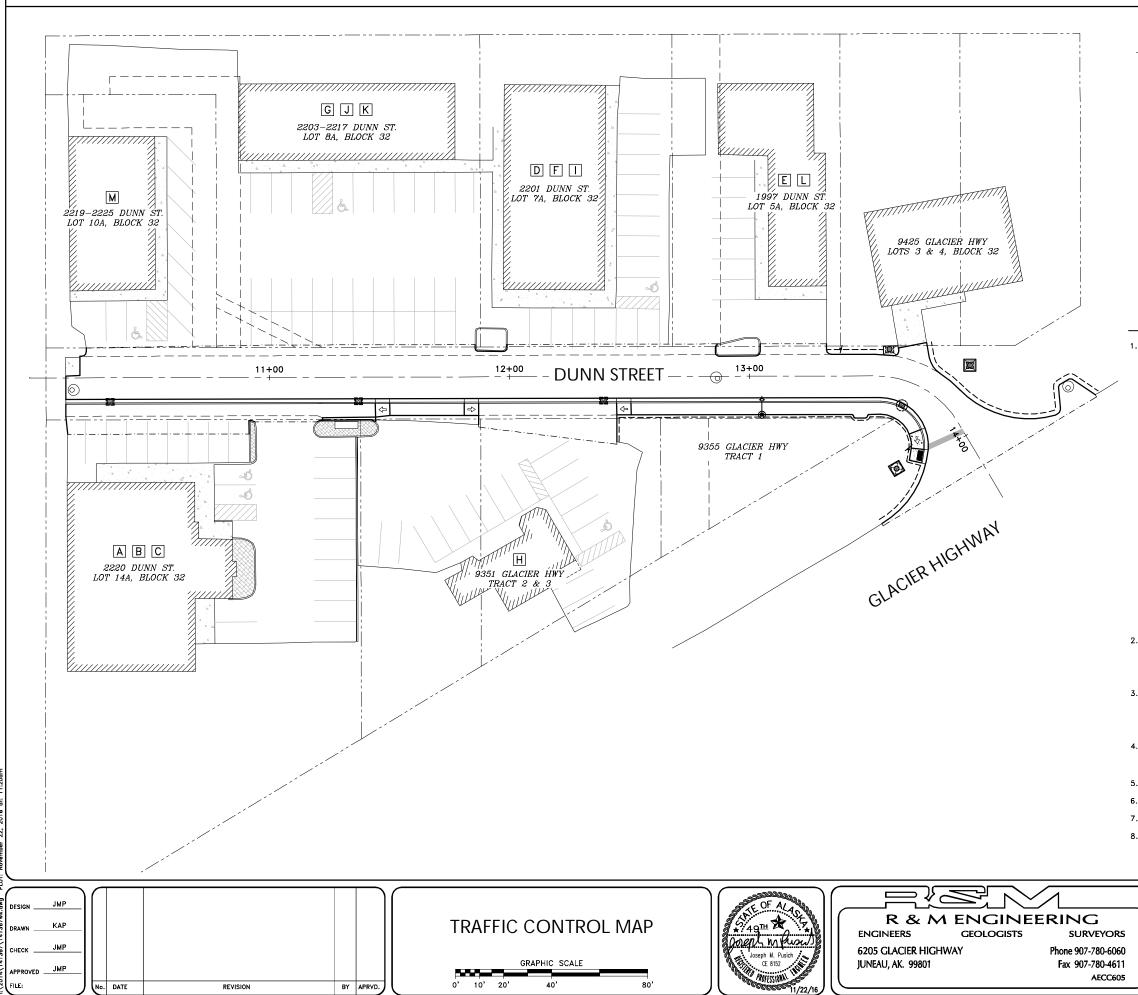
REMARKS

FRAME AND REPLACE WITH NEW. REMOVE EXISTING ADJUSTING RING (1 EACH) INFRA-RISER (RECYCLED RUBBER) GRADE RINGS FOR ADJUSTING AND INSTALLING MANHOLE TO FINISH GRADE. REMOVE EXISTING METAL STEPS AND INSTALL NEW STANDARDS.

FRAME AND REPLACE WITH NEW. REMOVE EXISTING ADJUSTING RINGS (5 EACH) 6" HEIGHT, AND REDUCING CONE. INSTALL NEW 2' BARREL SECTION, NEW 3' INFRA-RISER (RECYCLED RUBBER) GRADE RINGS FOR ADJUSTING AND INSTALLING MANHOLE TO FINISH GRADE. REMOVE EXISTING METAL STEPS AND INSTALL NEW STANDARDS. INSTALL DROP CONNECTION ON PIPE ENTERING THE MANHOLE FROM DARDS.

FRAME AND REPLACE WITH NEW. REMOVE EXISTING ADJUSTING RING (1 EACH) CONE. INSTALL NEW 1' BARREL SECTION, 3' REDUCING CONE AND USE UBBER) GRADE RINGS FOR ADJUSTING AND INSTALLING NEW COVER & FRAME RADE. REMOVE EXISTING METAL STEPS AND INSTALL NEW MANHOLE STEPS PER

	DUNN STREET PAVING	DATE: <u>NOV 22, 2016</u> R & M NO. <u>141367</u>
<u> </u>	CBJ CONTRACT No. E16-010 CITY & BOROUGH OF JUNEAU, ALASKA	SHEET COO4



TRAFFIC CONTROL NOTES

- 1. THE FOLLOWING BUSINESSES USE DUNN STREET TO ACCESS THEIR BUSINESSES:
 - A SOUTHEAST DENTAL GROUP, PC (586-9885)
 - B JUNEAU PEDIATRIC DENTISTRY (523-5437)
 - C DR. CHARLES SCHULTZ, ORAL SURGERY (586-9586)
 - D TONGASS VETERINARY SERVICES, LLC (209-8855)
 - E LARUE HAIR SALON (586-4247)

-**I**

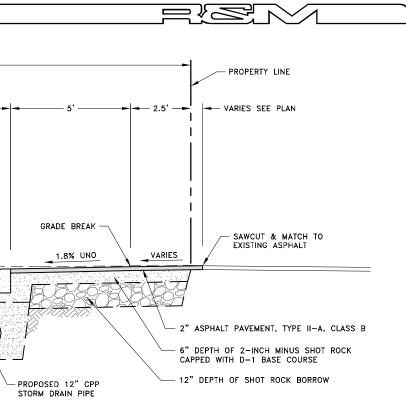
- F RED ONION SPICE & TEA COMPANY (988-1530)
- G RH DEVELOPMENT (790-4146)
- H ZERELDA'S BISTRO (500-7096)
- BETTER HEALTH AND WELLNESS CENTER (796-3333)
- J RAIN TREE QUILTING (789-7900)
- K DANCE OF HANDS MASSAGE (209-4900)
- L LILETTE BOUTIQUE (523-8001)
- M RESIDENTIAL APARTMENTS

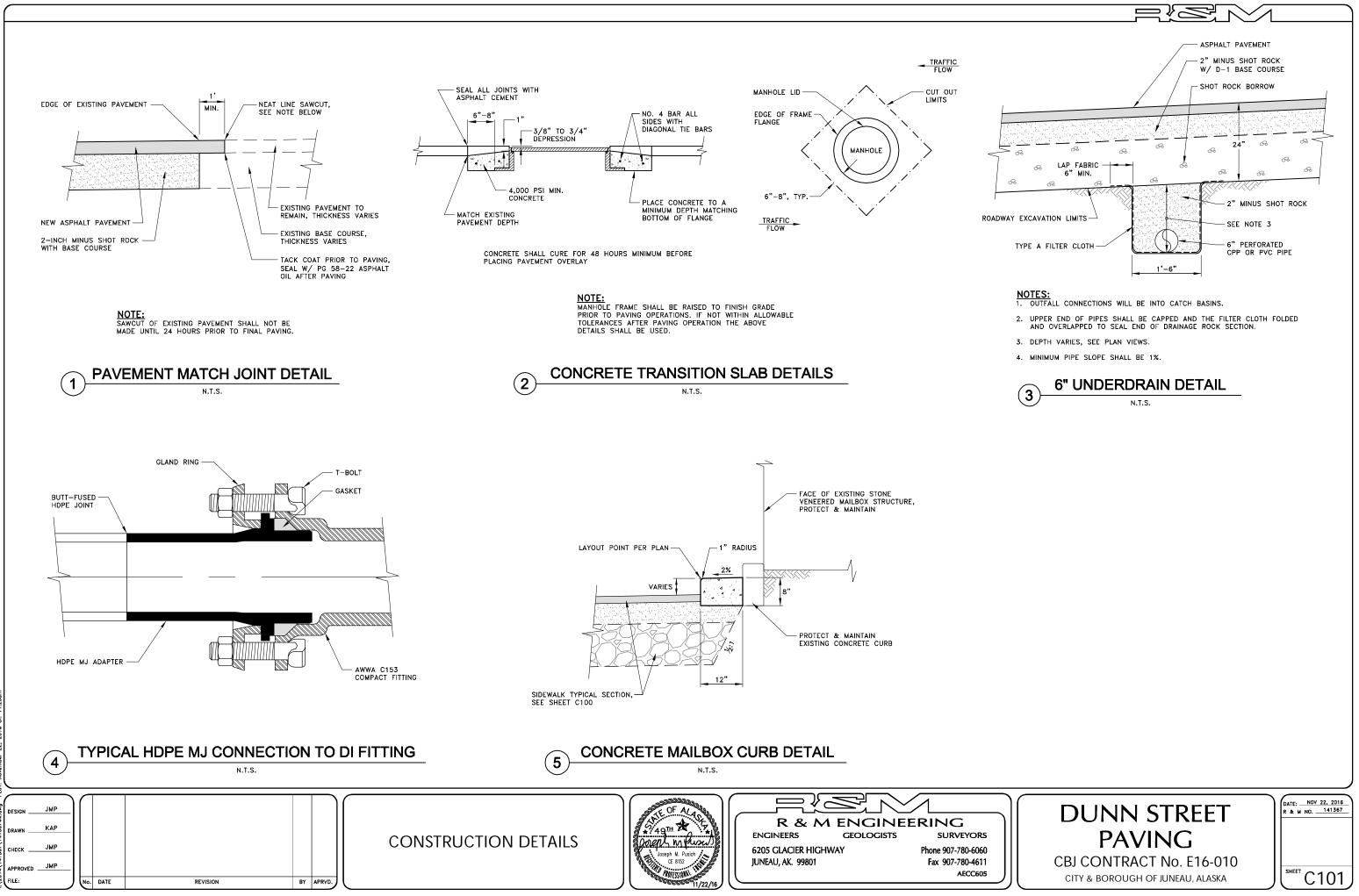
THE INDIVIDUAL HOURS AND DAYS OF OPERATION FOR THESE BUSINESSES VARY BUT GENERALLY ARE MONDAY THRU SATURDAY 8:00 AM - 6:00 PM ZERELDA'S BISTRO IS OPEN UNTIL 9:00 PM THURSDAY THRU SATURDAY.

- 2. WITH THE EXCEPTION OF PAVING OPERATIONS, THE CONTRACTOR SHALL MAINTAIN ONE WAY TRAFFIC FLOW FROM GLACIER HIGHWAY TO AND THROUGH DUNN STREET AT ALL TIMES IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. THE DRIVING LANE SHALL HAVE A MINIMUM WIDTH OF 10 FEET. A MAXIMUM 10 MINUTE TRAFFIC STOPPAGE WILL BE ALLOWED.
- 3. THE CONTRACTOR SHALL NOTIFY EACH PROPERTY AND BUSINESS OWNER OF DRIVEWAY CLOSURES 48 HOURS PRECEDING THE DAY THE DRIVEWAY IS TO BE CLOSED TO VEHICULAR ACCESS. THE PROPERTY AND BUSINESS OWNER SHALL BE INFORMED OF THE PERIOD OF TIME THE CLOSURE WILL BE IN EFFECT. NO DRIVEWAY CLOSURES WILL BE PERMITTED UNTIL THIS REQUIREMENT HAS BEEN MET TO THE SATISFACTION OF THE ENGINEER.
- 4. ALL TRAFFIC TO BE CONTROLLED PER REQUIREMENTS OF THE ALASKA TRAFFIC MANUAL (U.S. DEPARTMENT OF TRANSPORTATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE ALASKA SUPPLEMENT).
- 5. ALL DETOURS SHALL BE AS APPROVED BY THE ENGINEER.
- 6. ROAD CLOSURES WILL BE PERMITTED ONLY AS APPROVED BY THE ENGINEER.
- 7. PROVIDE ACCESS FOR EMERGENCY AND SERVICE VEHICLES AT ALL TIMES.
- 8. PEDESTRIAN ACCESS SHALL BE AVAILABLE ALONG AT LEAST ONE SIDE OF DUNN STREET AT ALL TIMES TO ALLOW ACCESS TO THE BUSINESSES. THE PEDESTRIAN PATHWAY SHALL BE CLEARLY MARKED AND SHALL SATISFY THE REQUIREMENTS AS DESCRIBED IN THE SPECIAL PROVISIONS.

\neg	DUNN STREET	DATE: <u>NOV 22, 2016</u> R & M NO. <u>141367</u>
	PAVING	
	CBJ CONTRACT No. E16-010	
	CITY & BOROUGH OF JUNEAU, ALASKA	$\int C005$

PROPERTY LINE	30' RIGHT-OF-WAY	PROPERTY LINE
	PROJECT BASELINE	
VARIES SEE PLAN	9'* 9'* 2.5'	- VARIES SEE PLAN
	I	
	TYPE II-A, CLASS B	
	I SHOT ROCK CAPPED WITH D-1 BASE COURSE (SEE NOTE 6)	
	GRADE BREAK	
SAWCUT & MATCH TO		SAWCUT & MATCH TO EXISTING ASPHALT
		/
		SPHALT PAVEMENT, TYPE II-A, CLASS B
	PROOF ROLL SUBCUT	EPTH OF 2-INCH MINUS SHOT ROCK
CABLE UTILITIES. IF THE CONDUITS ARE EXPOSED OR FOUND TO EXIST WITHIN THE PROPOSED SUBCUT LIMITS, SURROUND CONDUITS WITH A MINIMUM OF 4" OF	EXCAVATION LIMITS, TYP.	'ED WITH D-1 BASE COURSE DEPTH OF SHOT ROCK BORROW
BEDDING MATERIAL AND REPLACE UTILITY WARNING RIBBONS IF DISTURBED DURING CONSTRUCTION. EXACT QUANTITY, SIZE & DEPTH OF CONDUITS IS NOT KNOWN.	PROPOSED 12" CPP 12 STORM DRAIN PIPE	
	PROPOSED 8" HDPE WATER PIPE WITH TRACER WIRE,	
TYPICAL SECTION NOTES	PIPE TRENCH PER CBJ	
 SIDE SLOPES, WIDTHS AND GRADES MAY VARY AT SOME LOCATIONS, SEE GRADING SHEET C400 FOR ADDITIONAL INFORMATION. UNDERGROUND SEWER, WATER AND STORM SEWER SERVICES ARE NOT SHOWN IN TYPICAL SECTION FOR CLARITY. SEE PLAN 	STANDARD DETAIL 125 EXISTING 6" DIP WATER MAIN,—' 8" PVC SEWER PIPE TO REMAIN FILL WITH SLURRY OR REMOVE AND DISPOSE. REMOVE AND	
VIEW SHEETS FOR APPROXIMATE LOCATIONS. 3. ADDITIONAL EXCAVATION BELOW THE NEATLINE SUBCUT LEVEL MAY BE REQUIRED BY THE ENGINEER IF ORGANIC OR OTHER	DISPOSE OF EXISTING WATER VALVES	
UNSUITABLE MATERIALS ARE FOUND AT OR NEAR THE PLANNED SUBCUT LEVEL. USABLE MATERIAL FROM EXCAVATION SHALL BE USED TO BACKFILL THE ADDITIONAL AREAS OF EXCAVATION. BACKFILLING WITH USABLE MATERIAL FROM EXCAVATION WILL BE CONSIDERED INCIDENTAL TO OTHER WORK.		
 REMOVE AND DISPOSE OF EXISTING STORM DRAIN, SANITARY SEWER, AND WATER PIPES THAT ARE BEING REPLACED, UNLESS NOTED OTHERWISE. 	DUNN STREET TYPICAL SECTION	
5. DRIVEWAYS DISTURBED DURING CONSTRUCTION SHALL BE RECONSTRUCTED TO EQUAL OR BETTER CONDITION WITH SUBGRADE REPLACED IN LAYERS TO MATCH THOSE REMOVED, EXCEPT:	* WIDTH VARIES AT INTERSECTION	
A. EXISTING ASPHALT PAVED DRIVEWAYS DISTURBED DURING CONSTRUCTION SHALL BE SUBCUT TO 8-INCHES BELOW FINISH GRADE AND REPLACED WITH 6-INCHES OF 2" MINUS SHOT ROCK W/ BASE COURSE, GRADING D-1 AND 2-INCHES OF		
ASPHALT PAVEMENT, TYPE II-A, CLASS B. B. EXISTING GRAVEL DRIVEWAYS DISTURBED DURING CONSTRUCTION SHALL BE SUBCUT TO 4-INCHES BELOW FINISH GRADE		
AND REPLACED WITH 4-INCHES OF BASE COURSE, GRADING D-1. C. ORGANICS, ROOTS, WOOD OR OTHER DELETERIOUS MATERIALS ENCOUNTERED IN THE DRIVEWAYS DURING EXCAVATION		
OPERATIONS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AND DISPOSED OF AT AN APPROVED OFFSITE DISPOSAL SITE. BACKFILL VOIDS BELOW THE REQUIRED SUBCUT LAYER WITH USABLE EXCAVATION.		
6. THE BASE COURSE LAYER SHALL BE 7 ½" TO 8 ½" OF 2-INCH MINUS SHOT ROCK WITH 1" TO 2" TOP LAYER OF BASE COURSE, GRADING D-1 FOR A TOTAL COMPACTED THICKNESS OF 9 ½". THE 2-INCH MINUS SHOT ROCK SHALL BE WELL COMPACTED PRIOR TO PLACING BASE COURSE, GRADING D-1. THIS APPLIES TO ALL TYPICAL SECTIONS FOR THIS PROJECT.		
7. GRADE TOP OF CURB AT 2% TOWARDS GUTTER.		
8. TOP OF PAVEMENT GRADES GIVEN ON THE PLANS ARE ACTUAL FINISHED PAVEMENT SURFACE ELEVATIONS. TOP OF A.C. PAVEMENT ALONG NEW CONCRETE GUTTERS SHALL BE FINISHED 1/4-INCH ABOVE THE LIP OF GUTTER.	PAVING SEQUENCE REQU	IREMENTS
9. THE LIMITS OF USABLE MATERIAL OUTSIDE THE STRUCTURAL SECTION WILL VARY IN DISTANCE FROM RIGHT-OF-WAY LINES. PLACE AND GRADE THESE MATERIALS TO PROVIDE A SMOOTH, WELL-DRAINED TRANSITION TO EXISTING GRADES, AS DIRECTED	1. LAYDOWN OPERATIONS SHALL BE CONDUCTED IN A M	ANNER WHICH ENSURES
BY THE ENGINEER.	THAT THE MINIMUM TEMPERATURE ALONG THE CENTED OF THE FIRST PAVED LANE DOES NOT FALL BELOW 2 ASPHALT MIX FROM THE ADJACENT LANE BEING PLAC	200°F PRIOR TO THE
98 0 11. ALL FILL AREAS BEYOND THE SUBCUT LIMITS SHALL BE BACKFILLED WITH USABLE MATERIAL FROM EXCAVATION AND GRADED 11. ALL FILL AREAS BEYOND THE SUBCUT LIMITS SHALL BE BACKFILLED WITH USABLE MATERIAL FROM EXCAVATION AND GRADED	2. THE CONTRACTOR SHALL MONITOR THE TEMPERATURE EDGE OF THE FIRST PAVED LANE AND MOVE THE LAN THE SECOND LANSE AND MOVE THE LAN	YDOWN OPERATIONS TO
TO DRAIN AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER. 12. INSTALL MAIN LINE TRACER WIRE BETWEEN MAINLINE VALVE AND HDPE CAP. ATTACH TRACER WIRE TO HDPE PIPE NO HIGHER	THE SECOND LANE ALLOWING SUFFICIENT TIME FOR T SECOND LANE TO COVER THE CENTERLINE EDGE OF TO COOLING TO LESS THAN 200°F.	THE FAVEMENT OF THE THE FIRST LANE PRIOR
THAN THE PIPE SPRINGLINE AND MAINTAIN CONTINUITY WITH ALL SERVICES WITH A CORROSION PROOF WIRE CONNECTOR.		
		DATE: NOV 22, 2016 R & M NO. 141367
	6205 GLACIER HIGHWAY Phone 907-780-6060 CBJ CONTRACT N CE 8152 CB 8152 CBJ CONTRACT N	
APPROVED JMP FILE: No. No. DATE REVISION BY	AECC605 CITY & BOROUGH OF JU	SHEET O 4 O O





CORROSION	PROTECTION	SPECIFICATIONS	AND	NOTES:

ANODES

- 1. ANODES SHALL BE 18# BARE WEIGHT ZINC WITH PREPACKAGED ANODE BACKFILL.
- 2. ACCEPTABLE ANODE MODELS ARE:
- a. MODEL NO. ZUR-18 FROM FARWEST INDUSTRIES b. MODEL S18 FROM MESA PRODUCTS
- APPROVED EQUAL
- 3. INSTALL TYPE, SIZE AND NUMBER OF ANODES SPECIFIED.
- 4. INSTALL 2 ANODES TO ALL CONNECTIONS TO EXISTING CAST IRON OR DUCTILE IRON PIPE 12-INCH DIAMETER AND LARGER.
- CONDUCTOR WIRE SHALL BE A MINIMUM SIZE OF 12 AWG STRANDED COPPER WITH INSULATION SUITABLE FOR WET LOCATION DIRECT BURIAL AND SHALL BE A MINIMUM OF 10-FEET LONG FROM ANODE.
- 6. PREPACKAGED ANODE SHALL BE SATURATED WITH WATER PRIOR TO BACKFILL.
- 7. ANODES SHALL BE PLACED IN NATIVE EARTH BACKFILL. DO NOT PLACE IN PIPE BEDDING MATERIAL.

THERMITE (EXOTHERMIC) WELDING

- 1. THERMITE WELD MATERIALS SHALL BE DESIGNED FOR CONNECTION OF COPPER TO DUCTILE IRON AND CAST IRON SURFACES AND SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
- 2. ACCEPTABLE MANUFACTURERS OF THERMITE WELD PRODUCTS ARE:
 - a. CADWELD BY ERICO PRODUCTS INC THERMOWELD BY CONTINENTAL INDUSTRIES INC. b.
 - APPROVED EQUAL с.
- 3. A 2-INCH MINUS SQUARE AREA IN THE PIPE SURFACE SHALL BE GROUND CLEAN PER MANUFACTURERS RECOMMENDATIONS PRIOR TO THERMITE WELDING.
- 4. WIRE ENDS SHALL HAVE PROPER ADAPTER SLEEVES TO ENSURE PROPER BOND. 12 AWG SHALL HAVE ADAPTER SLEEVES SPECIFIED BY THERNITE WELD MANUFACTURER. FIELD INSTALLED SLEEVES SHALL HAVE WIRE CONDUCTOR EXTEND 1/4-INCH BEYOND ENDS OF SLEEVE.
- 5. WIRE CONNECTION SHALL BE TESTED FOR INTEGRITY PRIOR TO COATING.
- 6. CONTINUITY STRAPS SHALL BE #2 AWG COPPER STRANDED WIRE WITH THW INSULATION AND SHALL BE ATTACHED TO THE PIPE BY THERMITE WELDING AND COATED AND SEALED AS DESCRIBED BELOW.

COATING AND SEALING

JMP

KAP

JMP

DESIGN

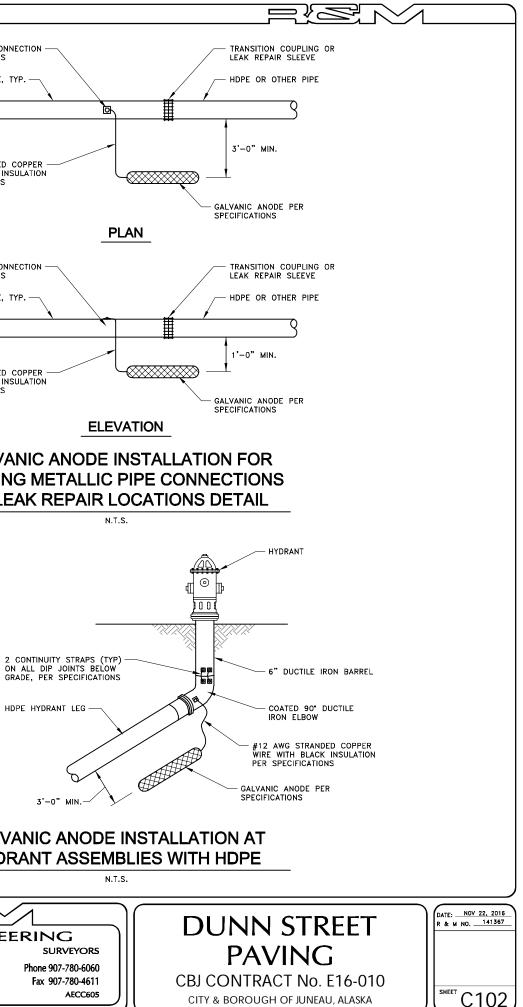
ORAWN

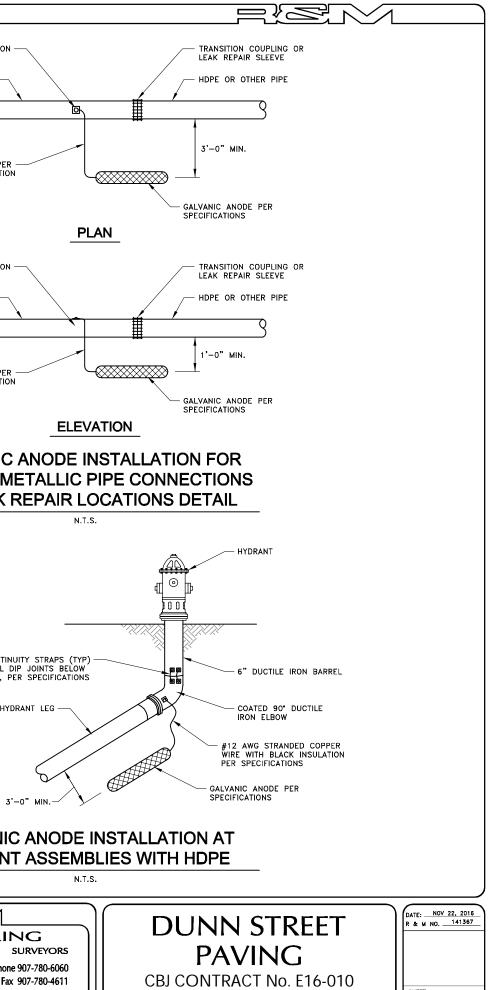
CHECK .

EU F:

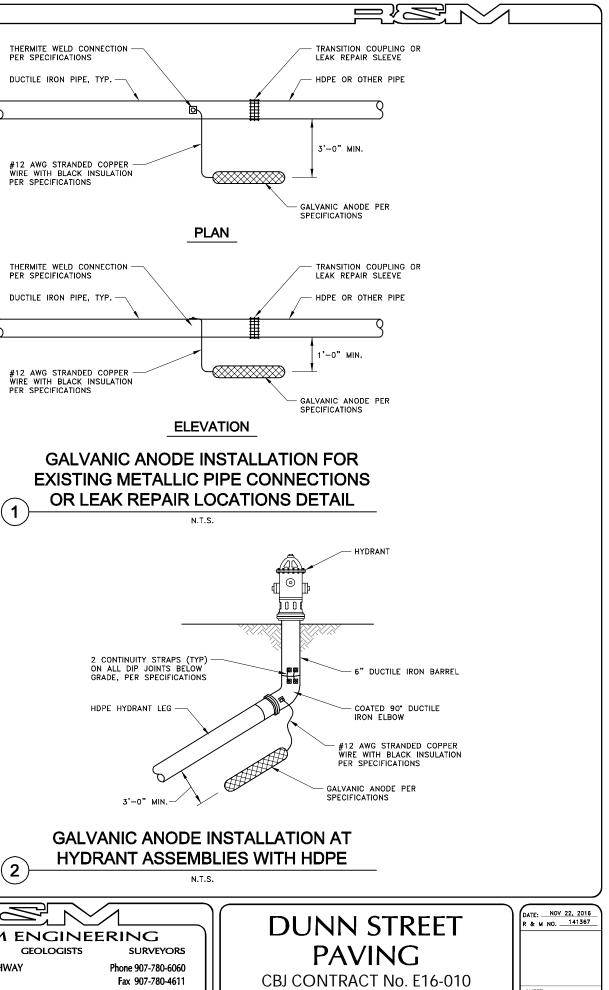
- 1. ALL THERMITE WELDS SHALL BE PROTECTED AND SEALED BY:
 - a. PREFABRICATED THERMITE WELD CAPS, SIZED ACCORDING TO WIRE SIZE, MINIMUM DIMENSIONS OF 4-INCH BY 4-INCH FILLED WITH ELASTOMERIC MASTIC COATING OR,
- b. HEAT SHRINK SLEEVE PIPE ENCASEMENT AFTER COATING THERMITE WELD WITH ELASTOMERIC MASTIC COATING HEAT SHRINK SLEEVE SHALL BE CANUSA AQUA OR APPROVED EQUAL.
- 2. ALL PIPE SURFACE COATING DAMAGED BEYOND THE WELD CAPS OR HEAT SHRINK SHALL BE COATED WITH PROTAL 7125 FROM DENSO NORTH AMERICA OR APPROVED EQUAL.

	THERMITE WELD CONNECTION	
	DUCTILE IRON PIPE, TYP.	
_	<u> </u>	
հ		
ų.	#12 AWG STRANDED COPPER WIRE WITH BLACK INSULATION PER SPECIFICATIONS	
	THERMITE WELD CONNECTION PER SPECIFICATIONS DUCTILE IRON PIPE, TYP.	
2		
	#12 AWG STRANDED COPPER WIRE WITH BLACK INSULATION PER SPECIFICATIONS	_
	_ <u>E</u>	ΞL
(GALVANIC ANOE EXISTING METALL OR LEAK REPAI	

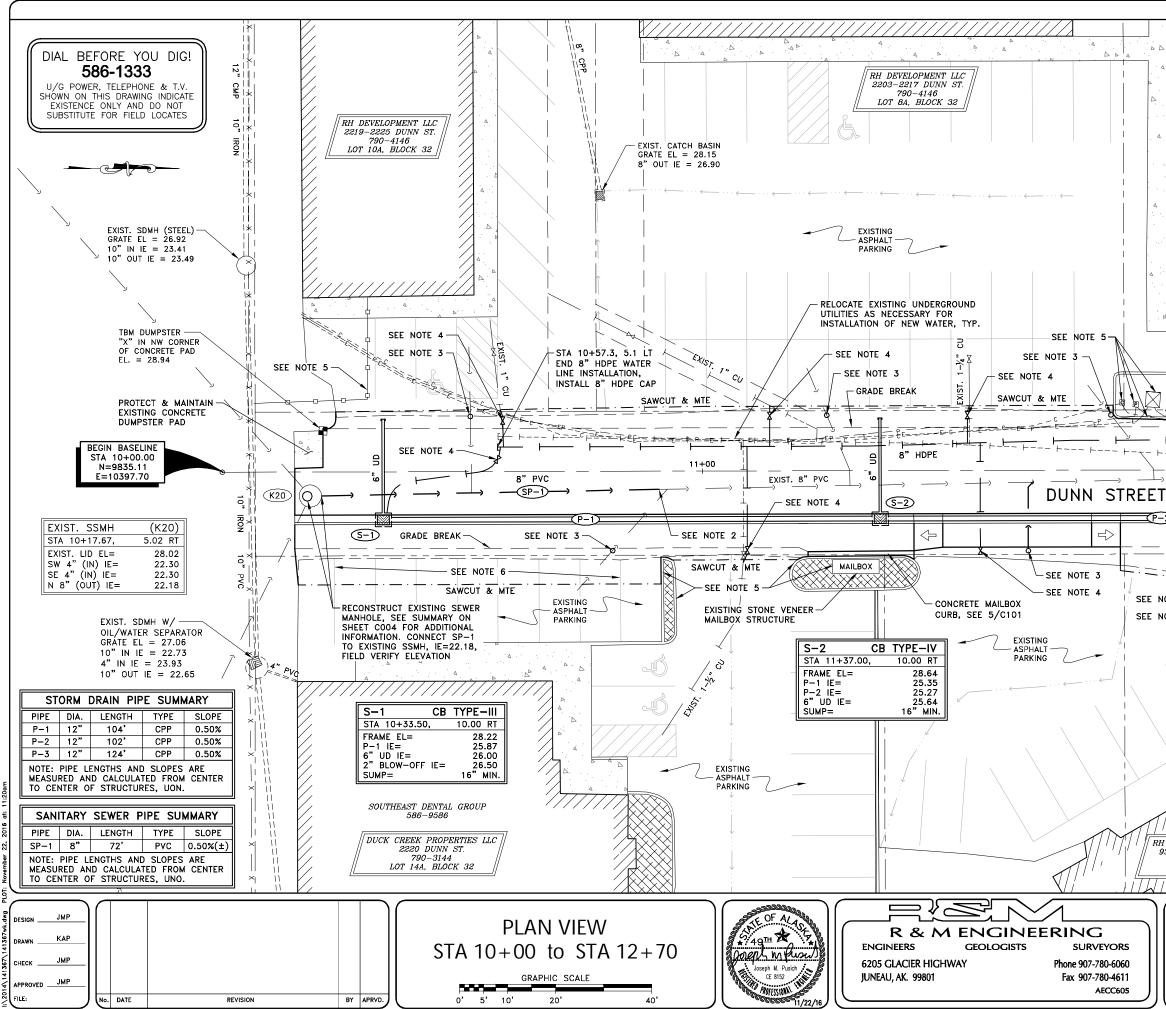




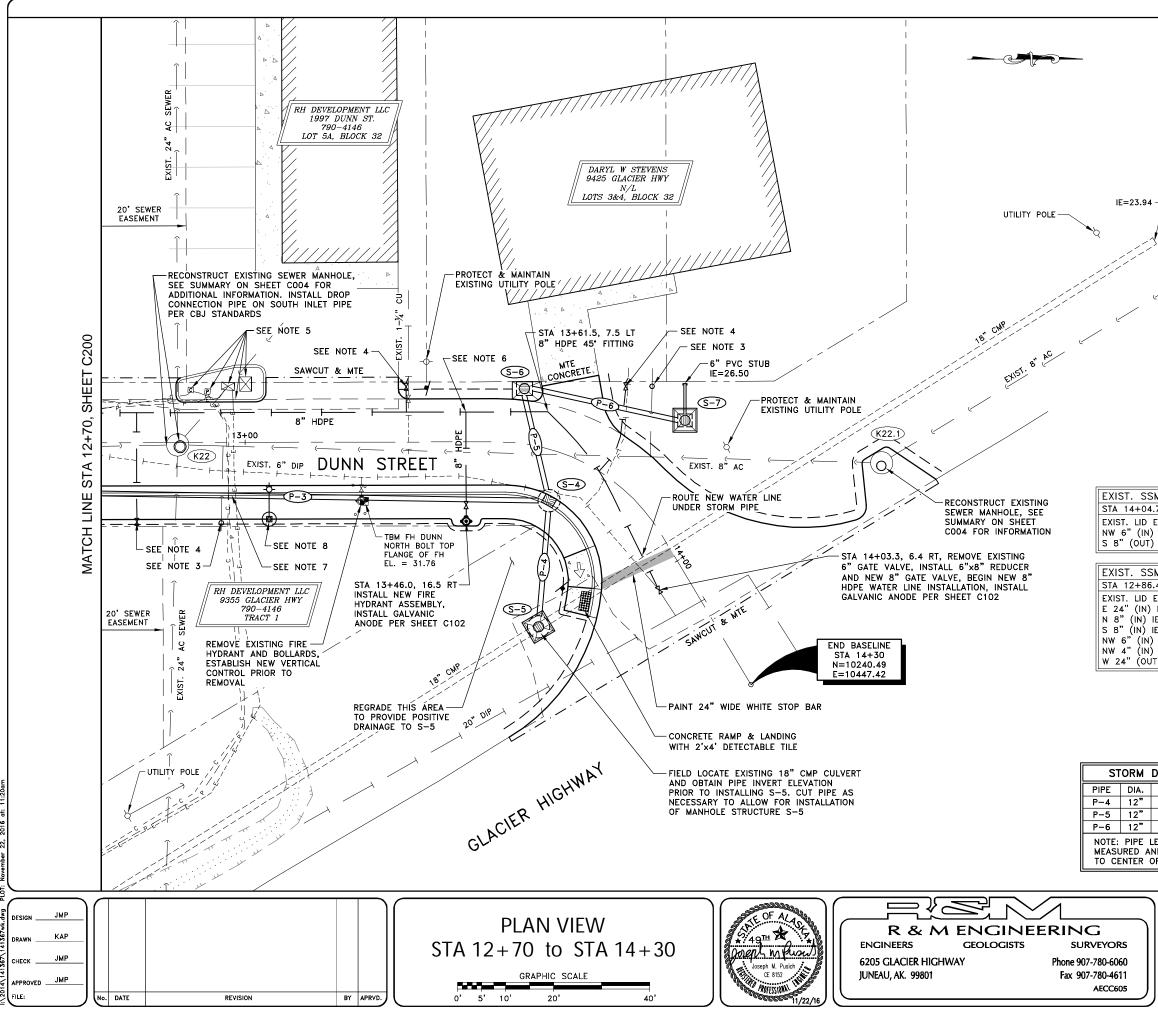
CITY & BOROUGH OF JUNEAU, ALASKA



			CORROSION PROTECTION DETAILS	Joseph M. Pusich C.E. 152 Arrent M. Pusich	R & M ENGINEERING ENGINEERS GEOLOGISTS SURVI 6205 GLACIER HIGHWAY Phone 907-74 JUNEAU, AK. 99801 Fax 907-74	EYORS 80-6060
6	. DATE	REVISION BY APRVD.		11/22/16		



⊇ ∛ ⊂ੋਂ SHEET NOTES: 1. CATCH BASIN STATIONS AND OFFSETS ARE GIVEN TO THE CENTER OF THE STRUCTURE. FRAME ELEVATIONS ARE GIVEN AT THE TOP, FRONT OF FRAME. 2. PROVIDE ALL ADAPTERS, ELBOWS AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS AND DEPTHS. INSTALL ROMAC LSS1 CLAMP COUPLING. 3. INSTALL NEW SEWER SERVICE CLEANOUT, SEE SUMMARY ON SHEET C004. 4. INSTALL NEW WATER SERVICE, SEE SUMMARY ON SHEET COO4. 5. PROTECT AND MAINTAIN. 6. RE-STRIPE PARKING STALLS TO MATCH WIDTH AND COLOR OF EXISTING STRIPES AFTER REPLACING ASPHALT PAVEMENT. RH DEVELOPMENT LLC 2201 DUNN ST. 790–4146 LOT 7A, BLOCK 32 A S EXISTING C201 ASPHALT PARKING SEE NOTE 4 SHEET SEE NOTE 3 SAWCUT & MTE 12+70, -----Р — SEE NOTE 6 EXIST. 6" DIP 12+00 STA LINE <u>s-3</u> P-3) MATCH $\langle \succ \rangle$ GRADE BREAK SAWCUT & MTE SEE NOTE 3 SEE NOTE S-3 CB TYPE-IV STA 12+39.00, 10.00 RT FRAME EL= 28.62 P-2 IE= 24.76 P-3 IE= 6" UD IE= 24.68 25.18 16" MIN. SUMP= ZERELDA'S BISTRO 500-7096 RH DEVELOPMENT LLC 50" SPRUCE 9351 GLACIER HWY 790-4146 TRACT 2 & 3 DATE: NOV 22, 2016 **DUNN STREET** R & M NO. 141367 PAVING CBJ CONTRACT No. E16-010 SHEFT C200 CITY & BOROUGH OF JUNEAU, ALASKA



SHEET NOTES:

- 1. CATCH BASIN STATIONS AND OFFSETS ARE GIVEN TO THE CENTER OF THE STRUCTURE. FRAME ELEVATIONS ARE GIVEN AT THE TOP, FRONT OF FRAME.
- 2. PROVIDE ALL ADAPTERS, ELBOWS AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS AND DEPTHS.
- 3. INSTALL NEW SEWER SERVICE CLEANOUT, SEE SUMMARY ON SHEET COO4.
- 4. INSTALL NEW WATER SERVICE, SEE SUMMARY ON SHEET COO4.
- 5. PROTECT AND MAINTAIN.
- 6. STA 13+46.0, 6.2 LT. INSTALL 8"x8"x8" HDPE TEE FITTING.
- 7. RELOCATE EXISTING UNDERGROUND UTILITIES AS NECESSARY FOR INSTALLATION OF NEW STORM PIPE.

8. STA. 13+05.00, 16.00' RT, INSTALL STREET LIGHT PER CBJ STANDARDS.

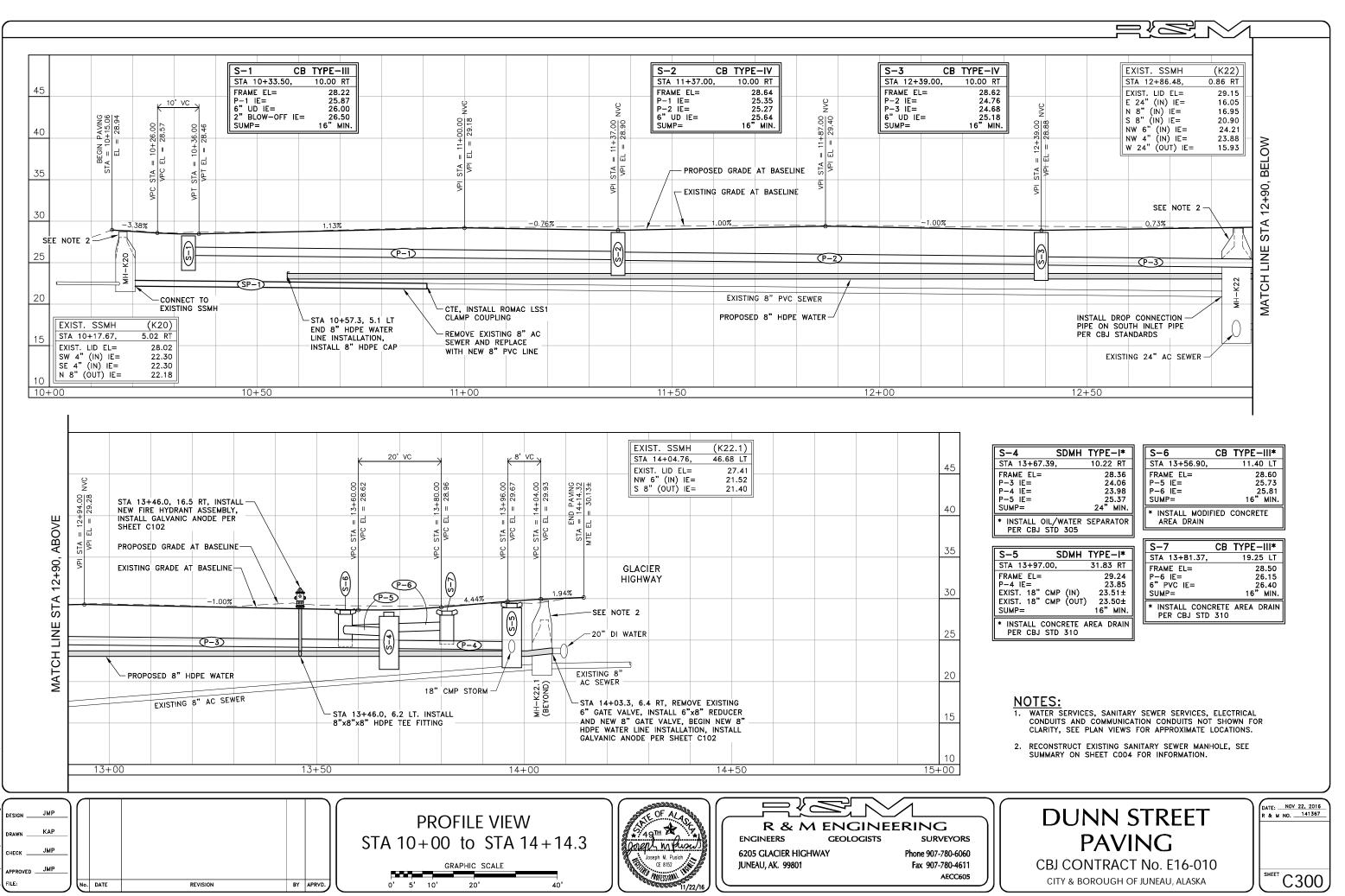
DIAL BEFORE YOU DIG! 586-1333 U/G POWER, TELEPHONE & T.V. SHOWN ON THIS DRAWING INDICATE EXISTENCE ONLY AND DO NOT SUBSTITUTE FOR FIELD LOCATES

	S-4 SDMH TYPE-I*				
	STA 13+67.39, 10.22 RT				
	FRAME EL= 28.36				
	P-3 IE= 24.06				
	P-4 IE= 23.98 P-5 IE= 25.37				
SSMH (K22.1)	P-5 IE= 25.37 SUMP= 24" MIN.				
+04.76, 46.68 LT					
LID EL= 27.41	* INSTALL OIL/WATER SEPARATOR PER CBJ STD 305				
(IN) IE= 21.52					
OUT) IE= 21.40					
	S-5 SDMH TYPE-I*				
SSMH (K22)	STA 13+97.00, 31.83 RT				
+86.48, 0.86 RT	FRAME EL= 29.24 P-4 IE= 23.85				
LID EL= 29.15	EXIST. 18" CMP (IN) 23.51±				
(IN) IE= 16.05	EXIST. 18" CMP (OUT) 23.50±				
IN) IE= 16.95	SUMP= 16" MIN.				
IN) IE= 20.90	* INSTALL CONCRETE AREA DRAIN				
(IN) IE= 24.21	PER CBJ STD 310				
(IN) IE= 23.88 (OUT) IE= 15.93					
(601) 12- 13:33	S-6 CB TYPE-III*				
	STA 13+56.90, 11.40 LT				
	FRAME EL= 28.60				
	P-5 IE= 25.73				
	P-6 IE= 25.81				
	SUMP= 16" MIN.				
	* INSTALL MODIFIED CONCRETE				
	AREA DRAIN				
RM DRAIN PIPE SUMMARY	S-7 CB TYPE-III*				
IA. LENGTH TYPE SLOPE	STA 13+81.37, 19.25 LT				
2" 26' CPP 0.50%	FRAME EL= 28.50				
2" 24' CPP (HP) 1.50%	P-6 IE= 26.15				
2" 34' CPP (HP) 1.00%	6" PVC IE= 26.40				
PE LENGTHS AND SLOPES ARE	SUMP= 16" MIN.				
D AND CALCULATED FROM CENTER	* INSTALL CONCRETE AREA DRAIN				
ER OF STRUCTURES, UON.	PER CBJ STD 310				
	DATE: NOV 22, 2016				
$\neg \parallel$ DUNN S					
	PAVING				
III FAVI					
CBJ CONTRACT					

CITY & BOROUGH OF JUNEAU, ALASKA

SHEET

C201



$\begin{array}{c} \underbrace{STA:10+26.00}{9.00 \text{ LT}} 28.71 \\ 29.04 \pm \underbrace{STA:11+00.00}{13.50 \text{ LT}} \end{array}$	29.49± <u>STA:11+85.58</u> 13.50 LT
$28.67 \pm \frac{\text{STA:10+23.66}}{12.50 \text{ LT}} \qquad $	STA:11+37.00 29.58 STA:11+87.00 13 9.00 LT 29.58 9.00 LT 13
$28.88 \pm \frac{\text{STA:10+20.98}}{9.00 \text{ LT}} \qquad $	
STA:10+36.00 STA:11+00.00 VPT FL=28.46 VPL FL=29.18	
	$ \begin{array}{c c} & & & & \\ \hline & & & & \\ \hline & & & & \\ \hline \\ \hline$
STA:10+15.06 IV STA:10+36.00 BC 29.02 STA:11+00.00 EL=28.94 S-1 I1.00 RT BC 29.02 STA:11+00.00 VPC EL=28.57 S S S S	BC 29.24 <u>STA:11+87.00</u> S-2 S-2
BC 28.82 STA:10+15.06	STA:11+50.00 11.00 RT TBC 29.25
BC 28.45 STA:10+26.00	STA:11+44.00 11.00 RT BC 28.81
SAWCUT & MTE	STA:11+44.00 TC 29.50 70 16.68 RT TC 29.50 20.92 RT
$29.02 \pm \frac{\text{STA:10+15.76}}{23.50 \text{ RT}} 29.08 \pm \frac{\text{STA:10+50.00}}{23.50 \text{ RT}} 29.23 \pm \frac{\text{STA:10+91.33}}{23.50 \text{ RT}} 29.17 \pm \frac{37.11113.7}{18.50 \text{ RT}}$	\ <u>\STA:11+37.00</u> BC 28.74 11.00 RT BC 28.74 <u>\STA:11+81.00</u> TBC 29.56
	16.85 RT 10 23.20
28.79± <u>STA:12+86.62</u> 28.79± <u>STA:12+86.62</u> 3.43 LT	12.40 LI
	3+04.37 LT 29.09± STA:13+32.00 13.50 LT 29.10± STA:13+67.49 17.90 LT 28.76± AWCUT & MTE STA:13+52.39 S=6 CONCRETE I STA:13+80.00
	BREAK 28.88.9.00 LT VPT EL=28.96
O - <td>INN STREET STA:13+52.39 PC EL=28.70</td>	INN STREET STA:13+52.39 PC EL=28.70
	- <u>1.00%</u>
	TBC 28.89 STA:13+54.96 PC 10.94 RT
2. SLOPES SHOWN ARE FOR LIP OF GUTTER AND FINISHED PAVEMENT. ≥ 11.00 RT	TBC 20 47 SIA:13+84.92 20'D 20'D
3. STATIONS, OFFSETS, ELEVATIONS AND CURVE INFORMATION ALONG CURBING ARE TO TOP BACK OF CURB (TBC), UNLESS OTHERWISE NOTED. TOP OF CONCRETE ARE TC. BACK OF CURB ARE BC.	DRANT AS SHOWN BC 29.54 STA:13+95.84
4. ESTABLISH VERTICAL CURVES AS NECESSARY FOR A SMOOTH ALIGNMENT (NO ANGLE POINTS) BY VISUALLY ALIGNING TOP OF CURB THROUGH VERTICAL CONTROL POINTS.	BC 29.66 STA:14+00.24
5. ALL FORMS FOR CONCRETE SEGMENTS BETWEEN PC'S AND PT'S WITH A RADIUS LESS THAN 200' SHALL BE ARCED TO MATCH THE REQUIRED CURVATURE. NO	S=5 CANTE
STRAIGHT STEEL FORMS SHALL BE USED WITHIN ANY CURVED SEGMENT WITH A RADIUS OF LESS THAN 200'. STRAIGHT FORMS USED FOR ANY ARCED SEGMENT WITH A RADIUS OF MORE THAN 200' SHALL NOT EXCEED 10' IN LENGTH.	29.90 STA:14+09.18 30.74 RT
6. SIDEWALK CROSS SLOPE SHALL BE 1.8% UNLESS OTHERWISE NOTED. TRANSITION SMOOTHLY AWAY FROM THE DRIVEWAY TO 1.8% FROM THE SHOWN CROSS SLOPE.	
7. ADJUST CURBING ALIGNMENT AT CONNECTIONS TO EXISTING CURBING AS REQUIRED FOR A TANGENT ALIGNMENT MATCH.	G
 8. ALL CURB TRANSITIONS AT DRIVEWAYS ARE 6' UNLESS OTHERWISE NOTED. 9. SEE SHEET C300 FOR CENTERLINE PROFILE INFORMATION. 	STA:14+14.59 48.88 RT 30.00± MTE
DRAWN KAP CURB & GUTTER LAYOUT	R&MENGINEERING ENGINEERS GEOLOGISTS SURVEYORS
CHECK JMP APPROVED JMP GRAPHIC SCALE	Complexent Complex
FILE: No. DATE REVISION BY APRVD. O' 5' 10' 20' 40'	AECC605

