



ADDENDUM TO THE CONTRACT

for

MAIN STREET IMPROVEMENTS

Contract No. E10-007

ADDENDUM NO.: TWO

CURRENT BID OPENING DATE:

January 21, 2010

2:00 p.m. Local Time

PREVIOUS ADDENDA: ONE

ISSUED BY:

City and Borough of Juneau
ENGINEERING DEPARTMENT
155 South Seward Street
Juneau, Alaska 99801

DATE ADDENDUM ISSUED:

January 14, 2010

The following items of the Contract are modified as herein indicated. All other items remain the same.

PROJECT MANUAL

- Item No. 1 SECTION 00030 – NOTICE INVITING BIDS, COMPLETION OF WORK. **Replace** "June 18, 2010" **with** "August 30, 2010".
- Item No. 2 SECTION 00500 – AGREEMENT, ARTICLE 2. CONTRACT COMPLETION TIME. **Replace** "June 18, 2010" **with** "August 30, 2010".
- Item No. 3 SECTION 00852 – PERMITS. **Add** this section.
- Item No. 4 SECTION 01025 – MEASUREMENT AND PAYMENT, Article 16.1, ILLUMINATION SYSTEM, **add** paragraph C:
- "C. This work includes relocation of the lighting handhole vault along Main Street and the replacement of the 32"x50" vault, each as noted on Sheet C.303, titled PLAN – MAIN STREET STA "M" 15+75 TO EGAN DRIVE."

DRAWINGS

- Item No. 1 Sheet No. 2, G.102, titled "LEGEND, ABBREVIATIONS, AND GENERAL NOTES." **Replace** General Note 4 with the following:
- "4. CBJ ENGINEERING STANDARD DETAILS BOOK DATED APRIL 2000 AND THE 2004 ALASKA DOT/PF STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, SECTIONS 660 AND 740, WITH CURRENT REVISIONS AS APPLICABLE."
- Item No. 2 Sheet No. 6, C.103A (Replaced with Addendum 1), titled "TYPICAL SECTION AND NOTES." **Replace** the note under the curb that begins "– ALL CONCRETE BEYOND ...with the following:

"ALL CONCRETE BEYOND STANDARD C&G LIMITS WILL BE PAID UNDER ITEM 2930.1."

Item No. 3 Sheet No. 8, C.105, titled "PROJECT PHASING AND TRAFFIC CONTROL PLAN."
Replace Note 3 with the following:

"3. ONE LANE DOWNHILL VEHICULAR TRAFFIC SHALL BE MAINTAINED THROUGH THE PROJECT AREA UNTIL MAY 1, 2010. CONTRACTOR SHALL MAKE PROVISIONS TO ALLOW TRAFFIC UP MAIN STREET FROM 6:00 AM- 9:00 AM ON WEEKDAYS. CONTRACTOR MAY PROVIDE 2-WAY TRAFFIC OR ONE LANE WITH FLAGGING. AFTER MAY 1, 2010, TWO-LANE TRAFFIC MARKINGS SHALL BE MAINTAINED AT ALL TIMES."

Replace Note 4 with the following:

"4. ALL WORK NECESSARY FOR PLACEMENT OF ASPHALT TREATED BASE, INCLUDING ASPHALT TREATED BASE, WITHIN PHASE I SHALL BE COMPLETED BY JUNE 28, 2010, EXCEPT AS REQUIRED BY NOTE 2."

Replace Note 13 with the following:

"13. ALL ASPHALT PAVEMENT AND FOG SEAL SHALL BE COMPLETED BY JULY 23, 2010."

Add the following notes:

"15. CONTRACTOR SHALL HAVE THE SECOND STREET ENTRANCE TO THE PARKING GARAGE COMPLETED AND OPEN FOR PUBLIC TRAFFIC BEGINNING JULY 1ST.

16. CONTRACTOR SHALL HAVE MAIN STREET, FROM EGAN DRIVE THROUGH THE FRONT STREET INTERSECTION, OPEN TO THE PUBLIC FOR THE 3RD AND 4TH OF JULY. THIS IS ON THE ROUTE FOR THE 4TH OF JULY PARADE. ALL HAZARDS SHALL BE REMOVED FROM THE PROJECT SITE FOR THESE TWO DAYS."

Item No. 4 Sheet No. 13, C.110, titled "SIDEWALK PAVER LAYOUT STA "M" 15+75 TO EGAN DRIVE." **Replace** the note "CONC. SIDEWALK," with the following:

"THE TWO CONCRETE ACCESS RAMP SEGMENTS TO BE RECONSTRUCTED HAVE AREAS OF 91 SQUARE FEET AND 152 SQUARE FEET."

Item No. 5 Sheet No. 17, C.301, titled "PLAN-MAIN STREET BOP TO STA "M" 12+92." **Add** the following note:

"7. EXISTING ELECTRICAL CROSSINGS AT MAIN STREET AND SECOND STREET ARE CONCRETE ENCASED."

Item No. 6 Sheet No. 19, C.303, titled "PLAN – MAIN STREET STA "M" 15+70 TO EGAN DRIVE." **Replace** Note 5 with the following:

"5. REMOVE AND REPLACE EXISTING 32"X50" OPEN BOTTOM VAULT WITH EQUAL OR BETTER OPEN BOTTOM VAULT OF THE SAME SIZE AND DEPTH."

Replace Note 7 with the following:

"7. ELECTRICAL CONDUITS AND CONDUCTORS ARE PRESENT FOR THE FULL WIDTH OF EXISTING SIDEWALK TO A DEPTH OF UP TO 5 FEET BELOW TOP OF SIDEWALK. CONDUITS MAY BE FOUND AS SHALLOW AS 6 INCHES BELOW GRADE. REMOVE SIDEWALK VERY CAREFULLY TO LOCATE UTILITIES. IF UTILITIES REQUIRE RELOCATION, IT WILL BE CONSIDERED EXTRA WORK."

Item No. 7 Traffic Signalization Sheet No's. 33 – 38, T.101 THROUGH T.106. **Replace** in their entirety with the attached Sheet No's T.101A through T.106A, labeled "Addendum – January 13, 2010."

Item No. 8 Sheet No. 39, E.101, titled "ELECTRICAL PLAN – MAIN STREET BOP TO STA "M" 12+92." **Replace** Note 2 with the following:

"2. JUNCTION BOX AND TRANSFORMERS WILL BE RELOCATED BY AEL&P. SEE DRAWING E.202 FOR NEW LAYOUT. WORK WILL BE PAID FOR BY THE OWNER. COORDINATE ALL CONSTRUCTION ACTIVITIES WITH AEL&P AND THE ENGINEER."

CLARIFICATION: All WORK shown is new, unless noted by an "E."

Item No. 9 Sheet No. 40, E.102, titled "ELECTRICAL PLAN – MAIN STREET STA "M" 12+92 TO STA "M" 115+70." **Add** a note for the new pole at the bottom right of the page:

"NEW POLE P1 – SEE LUMINAIRE SCHEDULE SHEET E.103."

By: 

Jennifer Mannix, CBJ Contract Administrator
Total number of pages contained within this Addendum: 42

SECTION 00852 - PERMITS

PART 1 - GENERAL

1.1 INDEX OF PERMITS

- A. Southeast Region – Preconstruction Right of Way & Utilities Permit – Utility Permit No. 3-296000-10-01, included with Addendum 2.
- B. Southeast Region – Preconstruction Right of Way & Utilities Permit – Utility Permit No. 3-296000-10-02, included with Addendum 2.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

END OF SECTION

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEAN PARNELL, GOVERNOR

6860 Glacier Highway

P.O. Box 112506

JUNEAU, ALASKA 99811-2506

PHONE: (907)465-4540

FAX: (907)465-6216

1-800-575-4540

SOUTHEAST REGION – PRECONSTRUCTION RIGHT OF WAY & UTILITIES

January 7, 2010

Rorie Watt
City and Borough of Juneau
155 South Seward
Juneau, AK 99801

RE: Utility Permit No. 3-296000-10-01

Dear Mr. Watt:

I have enclosed are two copies of Utility Permit No. 3-296000-10-01 for a 15" Sewer Main located at Main Street and Egan Drive.

Please sign page 15 and have the signature notarized on both copies and return both copies to me. I will return a completed copy to you.

An approved traffic control plan is required prior to commencing work. The traffic control plan should be submitted for approval not later than 10 days prior to the desired date for beginning work. The plan may be faxed to 465-6216 to my attention.

If you have any questions, please contact me at 465-2033.

Sincerely,



Shannon M. Kelly
Utility Permit Officer
Southeastern Region

Encl: Utility Permit 3-296000-10-01

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
UTILITY PERMIT
(MAJOR)

Permit No.
3-296000-10-01

Page No. 1 of 15

Approval

Recommended: Shannon M. Kelly

Date: January 7, 2010

Title: Regional Permit Officer

Region: Southeast

THE STATE OF ALASKA, acting by and through the DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES, hereinafter called the DEPARTMENT, under provisions of AS 19.25.010 19.25.020, grants a Utility Permit to the **City and Borough of Juneau of 155 South Seward, Juneau AK 99801** hereinafter called the PERMITTEE, permission to construct, install and thereafter perform routine maintenance, use and operate a **15" Sewer Main**, hereinafter called the FACILITY, located as follows: State Route **296000, Glacier / Douglas Hwy** Route Mileage **0.00** across, along or under property of the DEPARTMENT, acquired and utilized in the operation and maintenance of a State Transportation System, at the aforementioned locations and/or positions and in strict conformance with plans, specifications and special provisions attached hereto and made a part hereof, and not otherwise.

A. In accepting this Utility Permit for the Facility, the PERMITTEE agrees to comply with the provisions of AS 02.15.102, AS 02.15.106, AS 19.25.010, AS 19.25.200, AS 35.10.210, and AS 35.10.230; the terms, requirements and regulations as set forth in 17 AAC 15 as authorized under Administrative Procedures Act, AS 44.62.010 - 44.62.650 and the applicable policies, directives and orders issued by the Commissioner of the Department.

B. The entire cost of routine maintenance operations of the FACILITY are to be paid for by the PERMITTEE, and said FACILITY shall comply with all applicable codes.

C. The PERMITTEE's construction, installation and maintenance operations of the FACILITY shall be accomplished with minimum interference and interruption of the use, operation and maintenance of the DEPARTMENT's right of way and/or public facility; or as hereinafter provided in the DEPARTMENT's Special Provisions, attached hereto and made a part hereof, and shall at all times in no way endanger the general public in its use of the public property. Utility Permits expire if construction or installation of the facility has not started within one year after the date of approval, unless the applicant obtains an extension of time in writing from the department. 17AAC15.011(d)

D. The DEPARTMENT, in granting the Utility Permit, reserves the right to use, occupy and enjoy its property for a public transportation system and for public transportation purposes in such a manner and at such times as it deems necessary, the same as if this instrument had not been executed by the DEPARTMENT. If any such use by the DEPARTMENT shall at any time necessitate any change in location or manner of use of said FACILITY, or any part thereof, such change or alteration shall be made by the PERMITTEE according to the terms of one of the two clauses set out below as identified by a check mark before the applicable clause.

 X (1) The PERMITTEE will be reimbursed in full by the DEPARTMENT for all costs incurred in making such changes or alterations to the FACILITY that qualified under the provisions of AS 02.15.104(c), AS 19.25.020(c), or AS 35.10.220(c).

 (2) The PERMITTEE shall promptly remove or relocate said FACILITY at no cost to the DEPARTMENT in accordance with the provisions of AS 02.15.104(c) (4) or (5), AS 19.25.020(c) (4) or (5), AS 35.10.220(c) (4) or (5).

E. On public property being utilized for right of way on highways originally established as, or converted to, controlled access highways, ingress and egress thereto for maintenance and operation of the FACILITY is limited to the locations as designated by the DEPARTMENT. However, the DEPARTMENT may allow the PERMITTEE ingress and egress whenever such is necessary to effect repairs and maintenance of the FACILITY and when no other access is available. If the DEPARTMENT determines such access is in conflict with the use of the controlled access highway, the FACILITY will be relocated.

F. The State of Alaska and the DEPARTMENT for the purpose of this Utility Permit, hereby disclaim any representation of implication to the PERMITTEE that the DEPARTMENT has any title in any property other than the interest conveyed to the DEPARTMENT for specific purposes as described by the instrument conveying the land to the DEPARTMENT.

G. The PERMITTEE by these presents accepts notice and agrees that any expenses or damages incurred by the PERMITTEE through the abandonment, removal, reconstruction or alteration of any public facility, or incurred by said PERMITTEE as a result of this disclaimer shall be borne by said PERMITTEE at no expense whatsoever to the DEPARTMENT or the State of Alaska.

H. The waiver or breach of any terms or conditions of this Utility Permit or Provisions of the Administrative Code, by the DEPARTMENT shall be limited to the act or acts constituting such breach, and shall never be construed as being continuing or a permanent waiver of any such term or condition, unless expressly agreed to in writing by the parties hereto, all of which shall remain in full force and affect as to future acts or happenings, notwithstanding any such individual waiver or any breach thereof.

I. Only the Commissioner of the DEPARTMENT or his delegate shall have the authority to waive any term or condition herein contained.

J. The PERMITTEE shall not assign or transfer any of the rights authorized by this Utility Permit except upon notification to and approval by the DEPARTMENT.

K. The PERMITTEE agrees to comply with all regulations concerning present and future use of the public property acquired, or reimbursed by Federal-Aid funds.

L. The PERMITTEE shall give the DEPARTMENT not less than ten (10) days prior written notice, unless otherwise agreed to by the parties hereto, of the PERMITTEE's intention to enter upon the DEPARTMENT's property for the purpose of major maintenance, reconstruction, altering or removal of the FACILITY, provided, however, that normal routine maintenance is excepted from this provision, and provided further, that in any instance of sudden emergency requiring prompt and immediate action to protect the public safety, or to mitigate damage to private or public property, no prior notification to the DEPARTMENT will be required. The PERMITTEE shall notify the DEPARTMENT and the Alaska State Troopers, of the location of the emergency and extent of work required by the most expeditious means of communication as soon as reasonably possible to do so, and the PERMITTEE shall take such measures as are required to protect the health and safety of the traveling public or public facility users for the duration of such emergency operations.

M. The PERMITTEE shall indemnify and hold harmless the State of Alaska and the DEPARTMENT, or either of them, from all liability for damage to property, or injury to or death of persons, arising wholly or in part from any action taken by the PERMITTEE in relation to the PERMITTEE's FACILITIES on DEPARTMENT rights of way or other permitted locations.

N. The PERMITTEE is subject to all previous Easements and Utility Permits and any damage to any other utility will be the PERMITTEE's responsibility.

O. The PERMITTEE agrees to be responsible for the compliance with all applicable Federal, State, and local laws, regulations, codes and ordinances.

P. The PERMITTEE agrees to be responsible for obtaining all other appropriate permits or letters of non-objection needed from Federal, State and local agencies, or conflicting lessees, property owners or utilities.

Q. The PERMITTEE may be required, within thirty (30) days after completion of any improvement placed upon or in the premises herein, deliver to the DEPARTMENT as-built drawings showing the location and construction specifications of said improvement.

R. This Utility Permit is issued under the provisions of applicable Alaska Statutes and Administrative Code, effective as of the date of execution of this instrument by the DEPARTMENT.

S. The PERMITTEE agrees that the FACILITY will be constructed in accordance with the attached:

1. Plans dated 12/1/2009 consisting of Main Street Improvements Sheet
2. Specifications consisting of City and Borough of Juneau
3. Other *See Below.

which, by this reference, are made a part hereof, and in accordance with the applicable codes pertaining to the FACILITY, and not otherwise, unless prior written authorization is obtained from the DEPARTMENT to do so.

T. The PERMITTEE agrees to reimburse the DEPARTMENT for actual costs of inspection and testing as required during the performance of work proposed by the PERMITTEE. The scope of inspection and testing shall be determined by the Regional Utilities Engineer. The costs billed to the PERMITTEE will be the actual DEPARTMENT's costs incurred while performing the inspection and testing.

U. The PERMITTEE agrees by entering on the DEPARTMENT's property to indemnify the DEPARTMENT and its contractors of all costs tangible or intangible that would be the result of any delay in a construction project of the DEPARTMENT caused by work done under this permit.

V. The PERMITTEE agrees to reimburse the DEPARTMENT for the length of the facility to be installed in excess of 200 feet (as indicated on the attached plans referenced to in paragraph "S" above) which is calculated to be linear feet at \$1.00 per foot = 0 (but not to exceed \$10,000) payable at the time the permit is executed by the DEPARTMENT unless arrangements have been made for the PERMITTEE to be billed on a monthly basis.

Added Special Conditions:

25D-261A (5/86)

PIPE CARRIERS

TRANSMITTANT: WASTEWATER FLASH POINT: NA

WORKING PRESSURE: 10 PSI TEMPERATURE: AMBIENT

NUMBER OF CONDUITS (PIPES): 1

DIAMETER OF PIPE: 15"

TYPE AND CLASS OF PIPE: PVC

ENCASEMENT DIAMETER AND TYPE: NA

VENT LOCATIONS: NA LEFT _____ RIGHT OF HIGHWAY
CENTERLINE

CATHODIC PROTECTION: NA

CROSSING ANGLE: 90° LENGTH: 23 LF

DEPTH BELOW ROAD SURFACE: (MIN. 48") 66"

DEPTH BELOW DITCH BOTTOM: (MIN 36") NA

METHOD OF CROSSING INSTALLATION: BORING: _____ JACKING: _____ OPEN CUT: X

LONGITUDINAL FACILITY LENGTH: 34 LF

OFFSET FROM HIGHWAY CENTERLINE: 1' DEPTH OF BURY (MIN 36") 66"

METHOD OF LONGITUDINAL INSTALLATION: TRENCHING: X PLOWING: _____

CONSTRUCTION CODE(S) APPLICABLE: CBJ Standard Details

ADDITIONAL INFORMATION: _____

- NOTES:**
1. PROVIDE ALL ADAPTERS, ELBOWS AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES. MATERIALS AND DEPTHS. CONNECT TO EXISTING.
 2. PIPE LENGTHS ARE MEASURED ALONG THE SLOPE, FROM CENTER TO CENTER OF STRUCTURES. SLOPES ARE CALCULATED TO ENDS OF PIPE.
 3. REMOVE AND DISPOSE OF ROCKERY PLANTER. EXISTING LANDSCAPE TREES AND BUSHES WILL BE REMOVED BY OTHERS.
 4. ADJUST TELEPHONE VAULT FRAME AND COVER TO GRADE. TOP OF EXISTING COVER (REMARKS) IS 22" ABOVE TOP OF VAULT. CONSTRUCT CURB TO PROVIDE CLEARANCE FOR COVER.
 5. REPLACE 36"x50" VAULT (OPEN BOTTOM) AND ADJUST TO FINISH GRADE.
 6. INVERT OF 20" DI. PRESSURE MAIN IS ABOUT 4.5' BELOW EXISTING SURFACE. INSTALL WATER PIPE UNDER 20" DI. WITH 12" MIN. CLEARANCE.
 7. ELECTRICAL CONDUITS AND CONDUCTORS ARE PRESENT FOR FULL WIDTH OF EXISTING SIDEWALK TO A DEPTH OF UP TO 5' BELOW TOP OF SIDEWALK.
 8. INSTALL 12"x12" TEE WITH 8" DI. SERVICE PIPE AND CONNECT TO EXISTING VALVE. THIS WORK WILL BE INCIDENTAL TO OTHER WATER SYSTEM WORK.

PIPE SUMMARY - STORM DRAINAGE

PIPE	DIA.	LENGTH	TYPE	SLOPE
S-11	12"	SEE SHEET C.302	CPP	CITE
S-12	12"	4.0	CPP	0.004
S-13	18"	61.3	CPP	0.004
S-14	18"	14.0	CPP	0.014

SEE NOTE 2

PIPE SUMMARY - SANITARY SEWER

PIPE	DIA.	LENGTH	TYPE	SLOPE
P-5	15"	38.4	PVC(RP)	CITE

SEE NOTE 2

CB-12 TYPE IV

STA "M" 15+84.5	MATCH CURB
FO	EL=27.32
INV S-12	EL=24.52

SUMP 10' MIN

CB-11 TYPE I

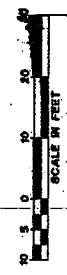
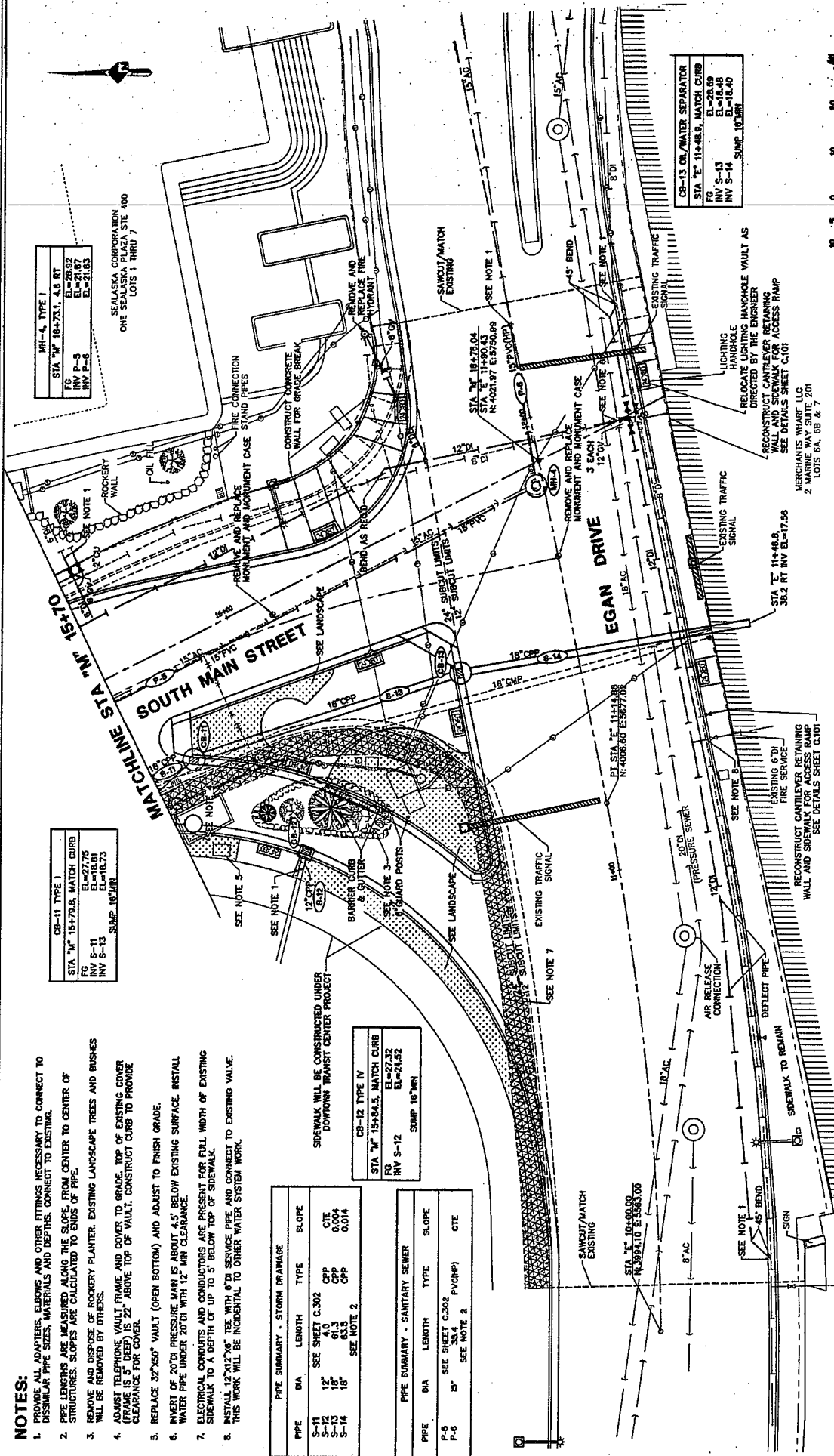
STA "M" 15+79.8	MATCH CURB
FO	EL=27.75
INV S-11	EL=16.91
INV S-13	EL=13.0

SUMP 10' MIN

MH-4, TYPE I

STA "M" 15+75.1	4.8 RT
FO	EL=21.62
INV P-5	EL=21.97
INV P-6	EL=21.63

SEALASKA CORPORATION
ONE SEALASKA PLAZA STE 400
LOTS 1 THRU 7



3568 Commercial Bld.
Juneau, Alaska 99801
(907) 780-3535 Office
(907) 780-3535 Fax

Consulting Engineers - Land Surveyors - Construction Administration
JOS. H. DOWL, INC. STAFF DESIGNED BY: P. H. DOWL CHECKED BY: DATE DEC. 1999

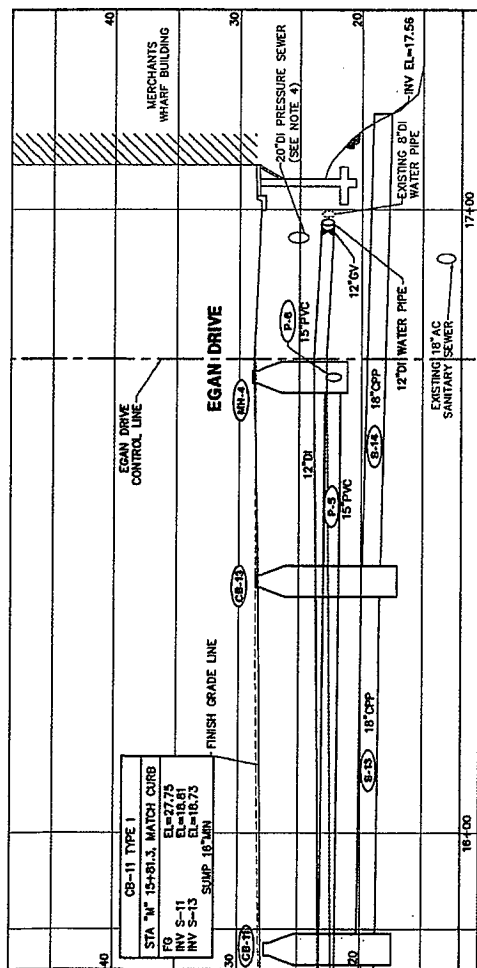
SHEET NO. **C.303**
19 OF **48**

PLAN - MAIN STREET
STA "M" 15+70 TO EGAN DRIVE

MAIN STREET IMPROVEMENTS
CONTRACT NO. E10-007

CITY/BOROUGH OF JUNEAU
ALASKA'S CAPITAL CITY
DEPARTMENT OF ENGINEERING

MATCHLINE STA "M" 15+78

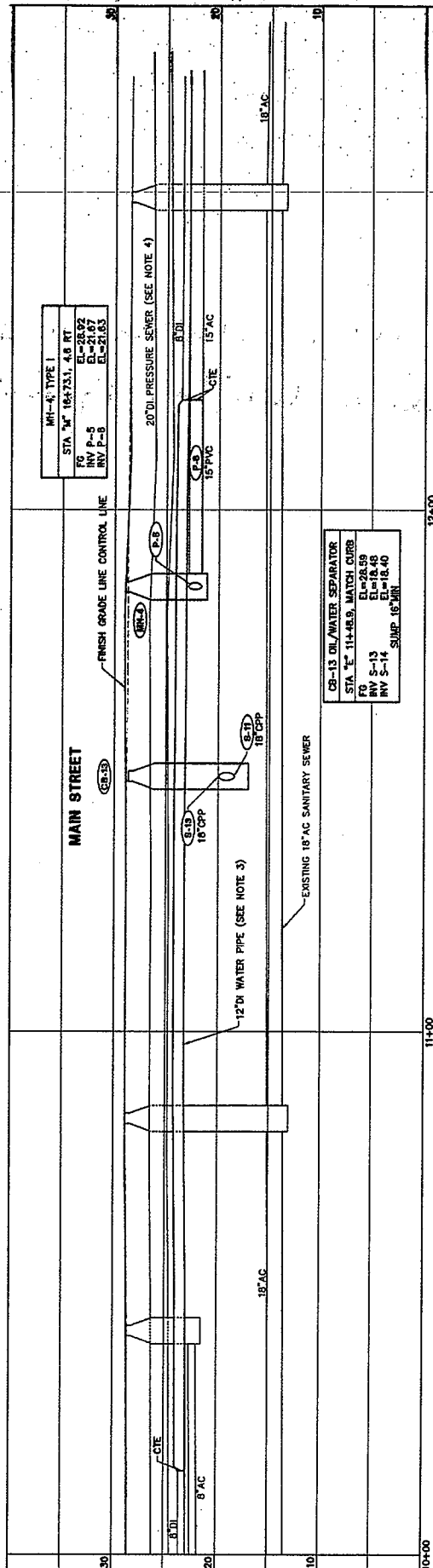


NOTES:

1. WATER, SANITARY SEWER, AND STORM SERVICES NOT SHOWN ON PROFILE.
2. EXISTING ELECTRICAL UTILITY CONDUITS NOT SHOWN.
3. EXISTING 8" DI WATER PIPE NOT SHOWN.
4. EXISTING 20" DI PRESSURE SEWER IS NOT IN SERVICE AND EXISTING 16" DI PRESSURE SEWER IS NOT IN SERVICE. THIS PIPE REMAINS FULL OF FLUID AND SHALL NOT BE DAMAGED.

CB-12 TYPE IV	
STA "M" 15+84.5, MATCH CURB	
FO	EL=27.32
INV S-12	EL=24.52
	SUMP 16" MIN

MM-4, TYPE I	STA "M" 16+73.1, 4.8 RT	EL=28.92
		EL=21.67
		EL=21.63
	FG	
	INV P-5	
	INV P-8	



EGAN DRIVE



DOWL HKM

5368 Commercial Blvd.
Juneau, Alaska 99801
(907) 780-3533 Office
(907) 780-3535 Fax

Consulting Engineers • Land Surveyors • Construction Administration

DESIGNED BY:	STAFF	DESIGNED BY:	P. MILORE	CHECKED BY:	STAFF	DATE:	DEC. 2009
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CITY/BOROUGH OF JUNEAU
★ **ALASKA'S CAPITAL CITY**
DEPARTMENT OF ENGINEERING

**MAIN STREET IMPROVEMENTS
CONTRACT NO. E10-007**

PROFILE -
STA "M" 15+78 TO EGAN DRIVE
AND EGAN DRIVE

SET NO.
C.402
21 OF 48

SPECIAL PROVISIONS

A. Traffic Control

1. All traffic control shall be designed installed and maintained under the direct supervision of an approved Traffic Control Supervisor certified by either the International Municipal Signal Association (IMSA) or The American Traffic Safety Services Association (ATSSA).
2. A traffic control plan shall be submitted to the department's Permit Officer for approval a minimum of ten (10) days prior to beginning construction.
3. Public notice of any planned road closure, lane restrictions or driveway closure shall be given a minimum of 24 hours in advance. The public notice shall include as a minimum:
 - a. A detailed description and map of the project.
 - b. The anticipated construction schedule.
 - c. An outline of possible closures or lane restrictions.
 - d. The contractor and or Permittee's 24 hour message number and office number.
4. Protective signing, lighting, barricades, and traffic control devices shall be of an approved design and placed in accordance with the latest edition of Manual on Uniform Traffic Control Devices published by the U.S. Department of Transportation and the Alaska Traffic Manual Supplement.
5. Double Fines signs should be posted in accordance with Part VI of the Alaska Traffic Manual Supplement. Double fines signs are not required for low speed, low volume roads or for work zones lasting 48 hours or less.
 - a.) Double Fines signs shall be removed or covered when the work activity ceases for more than two (2) days.
 - b.) The speed limit shown on work zone speed limit signs shall be the posted speed limit before construction or a reduced limit, if a work zone speed limit order has been approved by the department.
6. All signs, barricades, devices and flagmen shall be in place prior to commencing work within the right of way.
7. Flagmen, if used, must be certified by either the International Municipal Signal Association (IMSA) or The American Traffic Safety Services Association (ATSSA). Documentation of certification shall be provided if requested.
8. Reduced speed and two-way traffic shall be maintained on non-detoured roadways between the peak traffic hours of 7:30 a.m. to 9:00 a.m. and from 4:30 p.m. to 5:30 p.m.

9. One way traffic shall be maintained at all times unless a closure is approved by the Regional Utilities Engineer.
10. At the close of each work day the construction site on non-detoured roadways shall be restored to a condition that allows two-way traffic to flow in conformance with the normal traffic pattern in that area, unless otherwise approved by the Regional Utilities Engineer.
11. All temporary traffic control devices shall be removed as soon as practical when they are no longer needed. When work is suspended for short periods of time, temporary traffic control devices that are no longer appropriate shall be removed or covered.
12. Conduct periodic inspections of traffic control devices left in place during non-working hours to insure that they are working properly. A 24-hour telephone contact number for the work site traffic control supervisor responsible for maintaining 24-hour operations shall be provided to the local State Troopers or Police Department and the Department of Transportation Maintenance.

B. Protection and Restoration of the Right of Way

1. Heavy tracked equipment operation will not be permitted on a paved roadway or shoulder, unless approved in writing by the Regional Utilities Engineer. If approved, planking or rubber tires shall be utilized between the vehicle tracks and the pavement. Damage to the pavement, as a result equipment operation shall be repaired by the permittee as directed by the department.
2. The roadway and shoulder shall be maintained clear of any dirt and debris and shall be thoroughly cleaned at the end of each workday or more frequently if required.
3. The work area shall be restored to its original cross section by the end of the workweek. Whenever possible, trenches should be closed at the end of each workday. No more than 20 feet of trench excavation shall remain open at the end of the workday. If a trench is left open, it shall be properly barricaded to prevent accidental entry.
4. Any damage of existing utilities, storm drainage or other highway structures caused as a result of construction authorized by this permit will be repaired immediately by the permittee or their contractor.
5. Fill slopes, ditches and backslopes shall be returned to their original or better condition at the end of the workweek unless otherwise directed by the Regional Utilities Engineer. Reseeding of backslopes will be in accordance with Section 618 AKDOT&PF Standard Specifications dated 2004.
6. Any survey monument or monument accessory which will be disturbed or destroyed during construction of a permitted activity shall be referenced prior to disturbance and restored or replaced by a Land Surveyor licensed in the State of Alaska. The Land Surveyor must

file a Monument Record in accordance with AS 34.65.040. All monument records shall be reviewed by the Department prior to filing with the District Recorder.

7. Highway signs that are in conflict with construction shall be relocated on a temporary basis and reinstalled at the end of each workweek. Signs that are damaged during construction shall be replaced at no cost to the department.
8. Remove existing mailboxes and newspaper delivery tubes that conflict with construction and reset them temporarily. After construction has been completed reinstall in accordance with AKDOT&PF Standard Drawing M-20 and M-23.
9. Guardrail that is removed or damaged during construction will be replaced in accordance with Section 606 AKDOT&PF Standard Specifications dated 2002. Guardrail terminal ends that are removed or damaged during construction will be replaced with extruder terminals (ET-2000) in accordance with Sections 606 and 710 AKDOT&PF Standard Specifications dated 2004.
10. Traffic markings damaged or removed during construction shall be replaced in accordance with section 670 AKDOT&PF Standard Specifications dated 2004.
11. Any damage to the roadway prism, fill slopes, ditches, backslopes, structures or underground utilities determined to be a result of work authorized by this permit that becomes apparent within two (2) years after project completion and acceptance by the department shall be repaired by the permittee.

C. Underground Facilities

1. The depth of burial for underground facilities constructed or installed under pavement, roadway or runway surfaces must be at least four feet measured from the surface of the pavement to the top of the cable, conduit, pipeline or encasement.
2. Underground facilities constructed under other surfaces, including unlined ditches must be buried at least three feet, measured in any direction from the surface to the top of the cable, conduit, pipeline or encasement.
3. Underground crossings of the highway shall be accomplished by jacking and boring methods when possible.
4. Where utility locate services are not available, carsonite reference markers must be installed and maintained at both ends of all utility highway crossings and at angle points in the facility. Where utilities are attached to a bridge attach a plate on the conduit at each abutment describing the content of the pipe or conductor and the name and phone number of the owning utility.

D. Trenching, Excavation and Backfill

1. Clear and grub prior to starting excavation.
 - a. Clearing within the right of way shall be kept to the minimum necessary for construction and maintenance of the utility. Cut stumps flush with the ground.
 - b. Vegetation and debris removed by clearing and grubbing will be disposed of by burning, chipping or other approved methods. Comply with applicable laws and local ordinances regarding burning. Chipping shall be done in a manner that precludes the debris from blocking roadway ditches or drainage structures.
2. All unsuitable material shall be removed and replaced with approved material.
3. Use selected material, Type A, as specified in Subsection 703-2.07 of the Alaska DOT&PF Standard Specifications dated 2004, passing the 3-inch sieve, for bedding material and backfill material to 12 inches above the pipe.
4. Use selected material Type C, as specified in Subsection 703-2.07 of the Alaska DOT&PF Standard Specifications dated 2004, for backfill. Type C is described as earth, sand gravel, rock or a combination thereof containing no muck, peat, frozen material, roots, sod or other deleterious matter and is compatible
5. Excavated native material may be used for backfill if it meets the requirements of Selected Material Type C.
6. Bedding material will be placed in uniform layers not more than 6" deep and compacted to not less than 95% of the maximum density.
7. Backfill material will be placed and compacted in uniform layers normally 8", but not exceeding more than 1 1/2 times the diameter of material being used. Ponding or jetting is not permitted.
8. The top six (6) inches of the road surface or surface under pavement shall be crushed aggregate D-1

E. Pavement Replacement

1. Pavement cuts may be authorized from May 1st to September 30th and will only be permitted on an emergency basis from October 1st through April 30th unless the Regional Utilities Engineer approves a request for exception. Planned pavement cuts must be repaired by September 30th. No more than 2500 feet of pavement by project stationing can be disturbed without final repair.
2. The contractor shall maintain all roadways to the proper crowned surface, be kept smooth and passable. Pedestrian and bicycle facilities affected by the pavement removal shall be maintained smooth and passable at all time.

3. If the edge of the pavement is damaged during this construction the permittee shall have his contractor replace the pavement to the centerline of the roadway at least 10 feet each side of the damaged area. If the damage is intermittent and less than 50 feet between damaged areas the permittee shall make the repair continuous to cover the damage.
4. All asphalt cuts shall be permanently repaired with hot asphalt. Asphalt concrete pavement shall be Type II, Class B installed in conformance with Section 401 of the Alaska DOT&PF Standard Specifications dated 2004. The proposed job mix design shall be submitted for review and approval by the department.
 - a. For service crossings, pre-saw the area to be excavated. After completion of the utility installation, saw back the existing pavement a minimum of 1-1/2' over undisturbed earth on each side of the trench. Install 6" of asphalt hot mix which shall be spread and compacted in layers. The top layer shall not exceed a 2" compacted depth. Paint the entire area of all top-lift longitudinal joints with a 1/8" thick band of polymerized bituminous joint adhesive prior to placement the abutting lanes. The modified joint adhesive materials shall be Crafcro Pavement Joint Adhesive No. 34524, or an approved equal. The temperatures and application method of the joint adhesive shall be per manufacturer's recommendations.
 - b. For lane replacement, pre-saw the area of pavement effected by the utility installation. Cut the pavement so that the edges are vertical, the sides are parallel and the ends are perpendicular to the direction of traffic. The depth of pavement to be replaced will match the depth of the existing pavement unless otherwise specified. The pavement will be spread in layers not to exceed 2" to the seam nearest the centerline of the roadway. Paint the entire area of all top-lift longitudinal joints with a 1/8" thick band of polymerized bituminous joint adhesive prior to placement the abutting lanes. The modified joint adhesive materials shall be Crafcro Pavement Joint Adhesive No. 34524, or an approved equal. The temperatures and application method of the joint adhesive shall be per manufacturer's recommendations.
5. If the contract quantity is less than 1500 tons, the asphalt concrete pavement will be accepted based upon the engineers approval of the job mix design and the placement and compaction of the asphalt concrete to the specified depth and finished surface requirements and tolerances. The engineer's approval of the job mix design does not relieve the permittee or their contractor from the responsibility to produce the approved mix and is subject to field verification testing for oil content, density and gradation. The gradation, density and asphalt content shall be determined in accordance with section 410-4.02. If a calibrated nuclear content gauge is not available, asphalt content of the mix may be determined by extraction in accordance with AASHTO T-164. A minimum of two tests shall be taken for each approved mix design or as designated by the engineer.
6. The finished pavement surface will be tested after final rolling at selected locations using a 16-foot straightedge. Variations of more than 3/16 inch from the testing edge between any two contacts will be corrected.

7. A Polymer modified cold mix asphalt or concrete patch may be used as a temporary patch subject to written approval of the Regional Utilities Engineer. The temporary patch will be replaced as soon as hot asphalt is available.
 - a. Temporary repairs made with polymer-modified cold asphalt
 - 1.) For crossings, saw back existing pavement a minimum of 1' over undisturbed earth on each side of the trench. Paint edges with STE-1 tack coat and install 4" of polymer-modified cold asphalt. Damage to the pavement surface at locations other than crossings will be repaired by replacement of asphalt to the seam nearest centerline of the roadway with 4" of polymer-modified cold asphalt. All edges are to be saw cut and painted with STE-1 tack coat.
 - 2.) The polymer-modified cold asphalt shall be spread and compacted in 2" lifts, each compacted to a minimum of 94% of maximum density. Asphalt patch density shall be field controlled utilizing a calibrated nuclear densometer at two locations per patch. Field testing results shall be certified by a registered engineer and forwarded to DOT&PF.
 - 3.) Temporary concrete patches shall be a minimum of 6" thick with 6" x 6", 6 gage wire mesh or suitable reinforcing steel installed 3" below the finished grade. Concrete shall be Class A, six sack mix, with a slump range of 2"-4".
8. Asphalt concrete mixture that becomes contaminated with foreign material, is segregated or is in any way determined to be defective will be removed. Defective materials will be removed for the full thickness of the course.

F. AS Built Drawings

1. The permittee agrees to:
 - a. Furnish the department with a set of as built plans within 60 days from the completion of the project and
 - b. To provide location service the facilities at the department's request including surface and subsurface information at no cost to the department.

G. Environmental Provisions

1. If cultural, historic or archeological resources are discovered as a result of ground altering activities, all work that would disturb these resources shall be stopped and the State Historic Preservation Office shall be immediately contacted (907-269-8721).

2. The Permittee shall not hold the Department responsible for any delay, redesign, rerouting, or additional cost due to encountering environmental contamination or cultural, historic, or archeological resources.
3. If there will be ground-disturbing activities, it is the Permittee's responsibility to obtain authorization from the Army Corps of Engineers for any work in areas designated as wetlands.

H. Inspection

1. The Regional Utilities Engineer may assign an inspector or inspectors to the project in order to insure compliance with the provisions of the utility permit. The inspector has the authority to suspend all work in the event of noncompliance.
2. The actual costs of inspection shall be reimbursed to the department by the permittee. Reimbursable expenses shall be:
 - a. Labor cost based on the inspector(s) hourly rate based on a 37.5-hour workweek. Overtime will be paid at a rate of time and one half
 - b. Travel and per diem expenses
 - c. Vehicle expense based on the current rate per mile if a state vehicle is required.
 - d. Cost of any tests required to determine conformance to standards

I. Maintenance and Operations

1. Routine maintenance shall be performed on the utility facility on a continuing basis. Routine maintenance may be performed without prior notification of the department however closure of a highway, pedestrian facility, pathway, sidewalk or creating a detour to perform routine maintenance must be specifically authorized by permit. The permittee shall apply for an annual lane closure permit to cover routine maintenance operations. Prior authorization must be obtained from the department before performing any maintenance that requires excavation, plowing, jacking or boring within the right of way.
2. Emergency maintenance may be performed without prior notice to the department as long as appropriate traffic control is established and maintained. If the project requires major reconstruction and or placement of traffic control devices for an extended period a lane closure permit is required. If the road surface is effected by the emergency maintenance, contact the local maintenance foreman as soon as possible and place pavement break warning signs in advance of the site until such time as the pavement has been repaired.
3. Maintenance and adjustment of manhole frames, valve boxes, junction boxes or other structures located in the pavement or sidewalk is the responsibility of the permittee.
4. If the facility authorized by this permit is to be reconstructed or modified substantially, a new permit is required. If the proposed modifications are not substantial, the permittee need only apply for an amended permit. A utility permit application is required for all new service connections.

J. Administration

1. Any rights granted by this permit may not be assigned or transferred to another entity without prior written approval from the department. If the utility is sold to another utility or merges with another utility, the new utility shall inform the department in writing within 30 days after the date of the transaction.
2. This utility permit may be revoked if;
 - a. The facilities were not constructed or installed in accordance with the terms of the utility permit.
 - b. The facilities do not conform to applicable federal, state and local standards
 - c. The permittee fails to adequately maintain the facility after having been notified to do so in writing by the department
 - d. The permittee fails to provide safe and adequate detours, barricades, signs flagmen or other controls to protect the public
 - e. The permittee fails, after written notice from the department to take corrective measures to comply with the department's instructions or requests.

Requests for exceptions to these provisions may be submitted in writing to the Regional Utilities Engineer.

In consideration of the benefits accruing to the Permittee by reasons of the foregoing agreement, this permit is hereby accepted by the Permittee and the Permittee hereby agrees to comply with all of the terms, provisions, conditions, stipulations therein contained. Dated this 12th day of JANUARY, 20 10

The State of Alaska, acting by and through its Department of Transportation and Public Facilities has caused this Utility Permit to be executed on this 12th day of JAN, 20 10

City and Borough of Juneau

By: RORIE WATT
Title: ENGINEERING DIRECTOR
Attest: SKY E STEKOL
Title: Project Manager

ACKNOWLEDGEMENT OF
COMPANY OR PERMITTEE

STATE OF ALASKA)
JUDICIAL DISTRICT)ss

BE IT REMEMBERED that on this 12 day of JAN, 20 10, before me the undersigned, a Notary Public of the State of Alaska, personally appeared

RORIE WATT

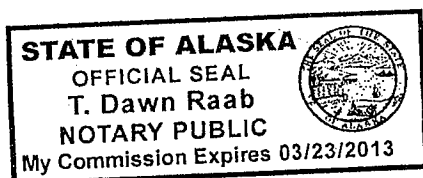
and SKYE STEKOL

both to me personally known and known to me to be the identical individuals named in and who executed the foregoing permit, and acknowledged the said instrument to be the free and voluntary act and deed of the above named company for the uses and purposes therein expressed and on oath stated that they were authorized to execute said instrument.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of my office the day and year first above written.

My Commission Expires: 3/23/2013

T. Dawn Raab
A Notary Public



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

By: Gregory S. [Signature]
Title: Regional Utility Engineer

ACKNOWLEDGEMENT OF DEPARTMENT

STATE OF ALASKA)
1 st JUDICIAL DISTRICT)ss

BE IT REMEMBERED that on this 12 day of JAN, 20 10, before me, the undersigned, a Notary Public of the State of Alaska, personally appeared

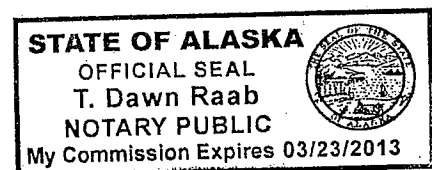
Fredrick J. Thorsteinson

of the Department of Transportation and Public Facilities known to me to be the identical individual who executed the foregoing permit, and he acknowledged to me that he executed the same for and on the behalf of the State of Alaska Department of Transportation and Public Facilities with full authority so to do, and for uses and purposes therein expressed.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of my office the day and year first above written.

My commission Expires 3/23/2013

T. Dawn Raab
A Notary Public



STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEAN PARNELL, GOVERNOR

6860 Glacier Highway

P.O. Box 112506

JUNEAU, ALASKA 99811-2506

PHONE: (907)465-4540

FAX: (907)465-6216

1-800-575-4540

SOUTHEAST REGION – PRECONSTRUCTION RIGHT OF WAY & UTILITIES

January 7, 2010

Rorie Watt
City and Borough of Juneau
155 South Seward
Juneau, AK 99801

RE: Utility Permit No. 3-296000-10-02

Dear Mr. Watt:

I have enclosed are two copies of Utility Permit No. 3-296000-10-02 for a 12" Water Line located at Main Street and Egan Drive.

Please sign page 15 and have the signature notarized on both copies and return both copies to me. I will return a completed copy to you.

An approved traffic control plan is required prior to commencing work. The traffic control plan should be submitted for approval not later than 10 days prior to the desired date for beginning work. The plan may be faxed to 465-6216 to my attention.

If you have any questions, please contact me at 465-2033.

Sincerely,



Shannon M. Kelly
Utility Permit Officer
Southeastern Region

Encl: Utility Permit 3-296000-10-02

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
UTILITY PERMIT
(MAJOR)

Permit No.
3-296000-10-02

Page No. 1 of 15

Approval

Recommended: Shannon M. Kelly

Date: January 7, 2010

Title: Regional Permit Officer

Region: Southeast

THE STATE OF ALASKA, acting by and through the DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES, hereinafter called the DEPARTMENT, under provisions of AS 19.25.010 19.25.020, grants a Utility Permit to the **City and Borough of Juneau of 155 South Seward, Juneau AK 99801** hereinafter called the PERMITTEE, permission to construct, install and thereafter perform routine maintenance, use and operate a **12" Water Line**, hereinafter called the FACILITY, located as follows: State Route **296000**, **Glacier / Douglas Hwy** Route Mileage **0.00 to 0.038** across, along or under property of the DEPARTMENT, acquired and utilized in the operation and maintenance of a State Transportation System, at the aforementioned locations and/or positions and in strict conformance with plans, specifications and special provisions attached hereto and made a part hereof, and not otherwise.

A. In accepting this Utility Permit for the Facility, the PERMITTEE agrees to comply with the provisions of AS 02.15.102, AS 02.15.106, AS 19.25.010, AS 19.25.200, AS 35.10.210, and AS 35.10.230; the terms, requirements and regulations as set forth in 17 AAC 15 as authorized under Administrative Procedures Act, AS 44.62.010 - 44.62.650 and the applicable policies, directives and orders issued by the Commissioner of the Department.

B. The entire cost of routine maintenance operations of the FACILITY are to be paid for by the PERMITTEE, and said FACILITY shall comply with all applicable codes.

C. The PERMITTEE's construction, installation and maintenance operations of the FACILITY shall be accomplished with minimum interference and interruption of the use, operation and maintenance of the DEPARTMENT's right of way and/or public facility; or as hereinafter provided in the DEPARTMENT's Special Provisions, attached hereto and made a part hereof, and shall at all times in no way endanger the general public in its use of the public property. Utility Permits expire if construction or installation of the facility has not started within one year after the date of approval, unless the applicant obtains an extension of time in writing from the department. 17AAC15.011(d)

D. The DEPARTMENT, in granting the Utility Permit, reserves the right to use, occupy and enjoy its property for a public transportation system and for public transportation purposes in such a manner and at such times as it deems necessary, the same as if this instrument had not been executed by the DEPARTMENT. If any such use by the DEPARTMENT shall at any time necessitate any change in location or manner of use of said FACILITY, or any part thereof, such change or alteration shall be made by the PERMITTEE according to the terms of one of the two clauses set out below as identified by a check mark before the applicable clause.

 X (1) The PERMITTEE will be reimbursed in full by the DEPARTMENT for all costs incurred in making such changes or alterations to the FACILITY that qualified under the provisions of AS 02.15.104(c), AS 19.25.020(c), or AS 35.10.220(c).

 (2) The PERMITTEE shall promptly remove or relocate said FACILITY at no cost to the DEPARTMENT in accordance with the provisions of AS 02.15.104(c) (4) or (5), AS 19.25.020(c) (4) or (5), AS 35.10.220(c) (4) or (5).

E. On public property being utilized for right of way on highways originally established as, or converted to, controlled access highways, ingress and egress thereto for maintenance and operation of the FACILITY is limited to the locations as designated by the DEPARTMENT. However, the DEPARTMENT may allow the PERMITTEE ingress and egress whenever such is necessary to effect repairs and maintenance of the FACILITY and when no other access is available. If the DEPARTMENT determines such access is in conflict with the use of the controlled access highway, the FACILITY will be relocated.

F. The State of Alaska and the DEPARTMENT for the purpose of this Utility Permit, hereby disclaim any representation of implication to the PERMITTEE that the DEPARTMENT has any title in any property other than the interest conveyed to the DEPARTMENT for specific purposes as described by the instrument conveying the land to the DEPARTMENT.

G. The PERMITTEE by these presents accepts notice and agrees that any expenses or damages incurred by the PERMITTEE through the abandonment, removal, reconstruction or alteration of any public facility, or incurred by said PERMITTEE as a result of this disclaimer shall be borne by said PERMITTEE at no expense whatsoever to the DEPARTMENT or the State of Alaska.

H. The waiver or breach of any terms or conditions of this Utility Permit or Provisions of the Administrative Code, by the DEPARTMENT shall be limited to the act or acts constituting such breach, and shall never be construed as being continuing or a permanent waiver of any such term or condition, unless expressly agreed to in writing by the parties hereto, all of which shall remain in full force and affect as to future acts or happenings, notwithstanding any such individual waiver or any breach thereof.

I. Only the Commissioner of the DEPARTMENT or his delegate shall have the authority to waive any term or condition herein contained.

J. The PERMITTEE shall not assign or transfer any of the rights authorized by this Utility Permit except upon notification to and approval by the DEPARTMENT.

K. The PERMITTEE agrees to comply with all regulations concerning present and future use of the public property acquired, or reimbursed by Federal-Aid funds.

L. The PERMITTEE shall give the DEPARTMENT not less than ten (10) days prior written notice, unless otherwise agreed to by the parties hereto, of the PERMITTEE's intention to enter upon the DEPARTMENT's property for the purpose of major maintenance, reconstruction, altering or removal of the FACILITY, provided, however, that normal routine maintenance is excepted from this provision, and provided further, that in any instance of sudden emergency requiring prompt and immediate action to protect the public safety, or to mitigate damage to private or public property, no prior notification to the DEPARTMENT will be required. The PERMITTEE shall notify the DEPARTMENT and the Alaska State Troopers, of the location of the emergency and extent of work required by the most expeditious means of communication as soon as reasonably possible to do so, and the PERMITTEE shall take such measures as are required to protect the health and safety of the traveling public or public facility users for the duration of such emergency operations.

M. The PERMITTEE shall indemnify and hold harmless the State of Alaska and the DEPARTMENT, or either of them, from all liability for damage to property, or injury to or death of persons, arising wholly or in part from any action taken by the PERMITTEE in relation to the PERMITTEE's FACILITIES on DEPARTMENT rights of way or other permitted locations.

N. The PERMITTEE is subject to all previous Easements and Utility Permits and any damage to any other utility will be the PERMITTEE's responsibility.

O. The PERMITTEE agrees to be responsible for the compliance with all applicable Federal, State, and local laws, regulations, codes and ordinances.

P. The PERMITTEE agrees to be responsible for obtaining all other appropriate permits or letters of non-objection needed from Federal, State and local agencies, or conflicting lessees, property owners or utilities.

Q. The PERMITTEE may be required, within thirty (30) days after completion of any improvement placed upon or in the premises herein, deliver to the DEPARTMENT as-built drawings showing the location and construction specifications of said improvement.

R. This Utility Permit is issued under the provisions of applicable Alaska Statutes and Administrative Code, effective as of the date of execution of this instrument by the DEPARTMENT.

S. The PERMITTEE agrees that the FACILITY will be constructed in accordance with the attached:

1. Plans dated 12/1/2009 consisting of Main Street Improvements Sheet
2. Specifications consisting of
3. Other *See Below.

which, by this reference, are made a part hereof, and in accordance with the applicable codes pertaining to the FACILITY, and not otherwise, unless prior written authorization is obtained from the DEPARTMENT to do so.

T. The PERMITTEE agrees to reimburse the DEPARTMENT for actual costs of inspection and testing as required during the performance of work proposed by the PERMITTEE. The scope of inspection and testing shall be determined by the Regional Utilities Engineer. The costs billed to the PERMITTEE will be the actual DEPARTMENT's costs incurred while performing the inspection and testing.

U. The PERMITTEE agrees by entering on the DEPARTMENT's property to indemnify the DEPARTMENT and its contractors of all costs tangible or intangible that would be the result of any delay in a construction project of the DEPARTMENT caused by work done under this permit.

V. The PERMITTEE agrees to reimburse the DEPARTMENT for the length of the facility to be installed in excess of 200 feet (as indicated on the attached plans referenced to in paragraph "S" above) which is calculated to be linear feet at \$1.00 per foot = 0 (but not to exceed \$10,000) payable at the time the permit is executed by the DEPARTMENT unless arrangements have been made for the PERMITTEE to be billed on a monthly basis.

Added Special Conditions:

25D-261A (5/86)

PIPE CARRIERS

TRANSMITTANT: WATER FLASH POINT: NA
WORKING PRESSURE: 150 PSI TEMPERATURE: AMBIENT
NUMBER OF CONDUITS (PIPES): 1
DIAMETER OF PIPE: 12"
TYPE AND CLASS OF PIPE: DUCTILE IRON
ENCASEMENT DIAMETER AND TYPE: NA
VENT LOCATIONS: NA LEFT _____ RIGHT OF HIGHWAY
CENTERLINE
CATHODIC PROTECTION: YES
CROSSING ANGLE: PARALLEL LENGTH: 103 LF
DEPTH BELOW ROAD SURFACE: (MIN. 48") 60"
DEPTH BELOW DITCH BOTTOM: (MIN 36") NA
METHOD OF CROSSING INSTALLATION: BORING: _____ JACKING: _____ OPEN CUT: X
LONGITUDINAL FACILITY LENGTH: 103 LF
OFFSET FROM HIGHWAY CENTERLINE: 20' LT DEPTH OF BURY (MIN 36") 60"
METHOD OF LONGITUDINAL INSTALLATION: TRENCHING: X PLOWING: _____
CONSTRUCTION CODE(S) APPLICABLE: CBS Standard Details

ADDITIONAL INFORMATION: _____

NOTES:

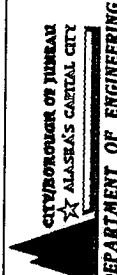
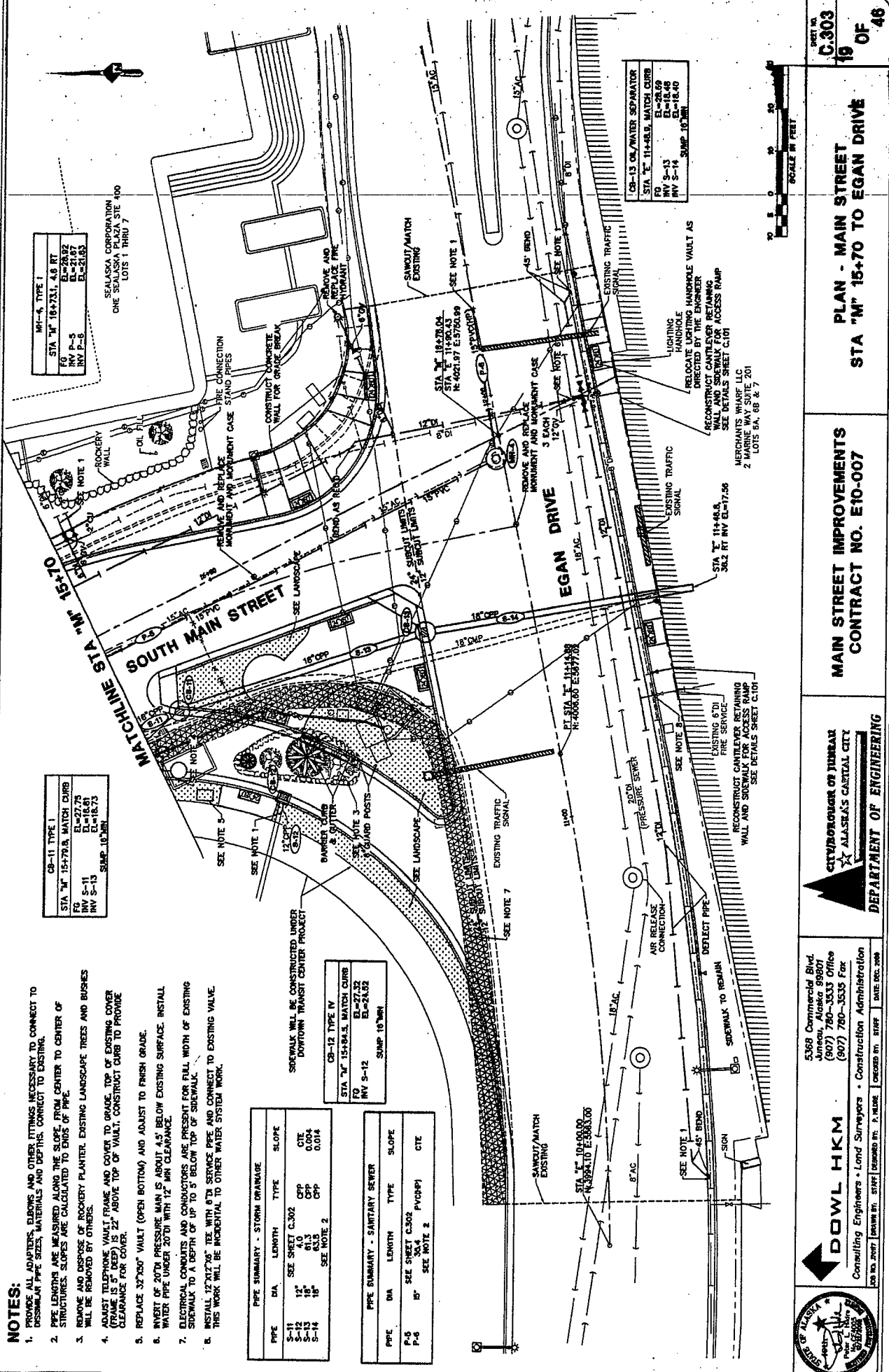
1. PROVIDE ALL ADJUSTERS, BENDS AND OTHER FITTINGS NECESSARY TO CONNECT TO EXISTING. DISSEMINATE PFC SIZES, MATERIALS AND DEPTHS. CONDUIT TO EXISTING.
2. PIPE LENGTHS ARE MEASURED ALONG THE SLOPE FROM CENTER TO CENTER OF STRUCTURES. SLOPES ARE CALCULATED TO ENDS OF PIPE.
3. REMOVE AND DISPOSE OF ROCKERY PLANTER EXISTING LANDSCAPE TREES AND BUSHES WILL BE REMOVED BY OTHERS.
4. ADJUST TELEPHONE VAULT FRAME AND COVER TO GRADE. TOP OF EXISTING COVER (FRAME IS 5" DEEP) IS 22" ABOVE TOP OF VAULT. CONSTRUCT CURB TO PROVIDE CLEARANCE FOR COVER.
5. REPLACE 37" DIA. VAULT (OPEN BOTTOM) AND ADJUST TO FINISH GRADE.
6. INVERT OF 20" DIA. PRESSURE MAIN IS ABOUT 4.5' BELOW EXISTING SURFACE. INSTALL WATER PIPE UNDER 20" DIA. WITH 12" MIN. CLEARANCE.
7. ELECTRICAL CONDUITS AND CONDUITORS ARE PRESENT FOR FULL WIDTH OF EXISTING SIDEWALK TO A DEPTH OF UP TO 5' BELOW TOP OF SIDEWALK.
8. INSTALL 12" DIA. TIE WITH 6" DIA. SERVICE PIPE AND CONNECT TO EXISTING VALVE. THIS WORK WILL BE INCIDENTAL TO OTHER WATER SYSTEM WORK.

PIPE SUMMARY - STORM DRAINAGE			
PIPE	DIA.	LENGTH	SLOPE
S-11	12"	SEE SHEET C.302	OTE
S-12	12"	41.0	0.014
S-13	12"	61.3	0.014
S-14	12"	61.3	0.014

CB-12 TYPE IV			
STA "M" 15+84.5	EL=27.32	EL=24.62	
FO	EL=27.32	EL=24.62	
INV S-12	EL=27.32	EL=24.62	

PIPE SUMMARY - SANITARY SEWER			
PIPE	DIA.	LENGTH	SLOPE
P-6	8"	SEE SHEET C.302	PVC(SPP)
P-8	8"	SEE SHEET C.302	PVC(SPP)

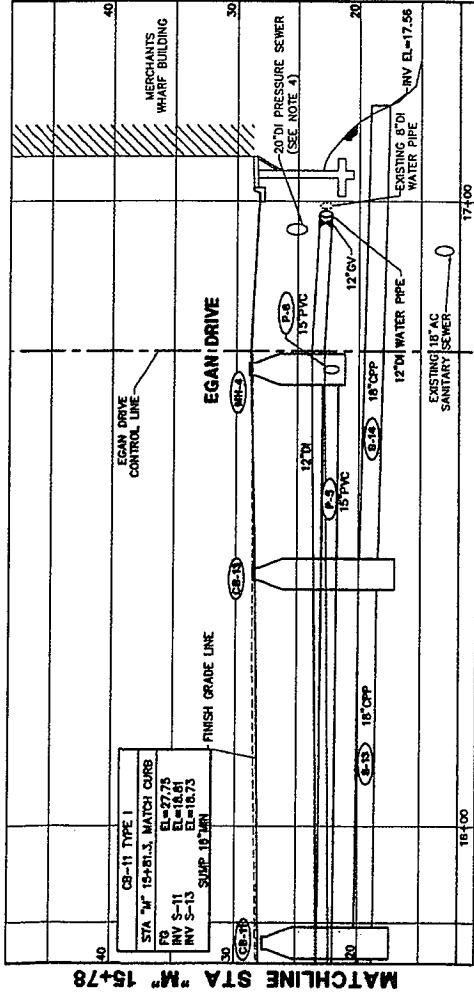
SIDEWALK WILL BE CONSTRUCTED UNDER DOWNTOWN TRANSIT CENTER PROJECT.



MAIN STREET IMPROVEMENTS
CONTRACT NO. E10-007

PLAN - MAIN STREET
STA "M" 15+70 TO EGAN DRIVE

SHEET NO.
C.303
OF 46

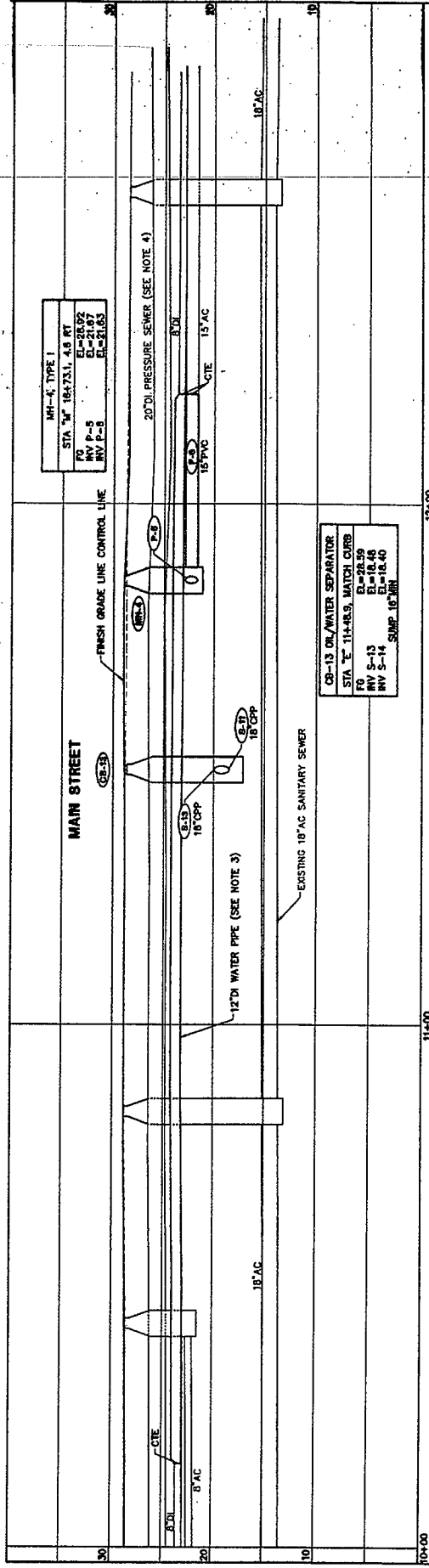


NOTES:

1. WATER, SANITARY SEWER, AND STORM SERVICES NOT SHOWN ON PROFILE.
2. EXISTING ELECTRICAL UTILITY CONDUITS NOT SHOWN.
3. EXISTING 8" DI WATER PIPE NOT SHOWN.
4. EXISTING 20" DI PRESSURE SEWER IS NOT IN SERVICE AND SERVES AS A BACKUP TO THE GASTINEAU CHANNEL. FLOODING THIS PIPE REMAINS FULL OF FLUID AND SHALL NOT BE DAMAGED.

STA "M" 15+84.5, MATCH CURB	CB-12 TYPE IV
FG	EL=27.32
INV S-12	EL=24.52
	SUMP 16" MIN

MM-4, TYPE I	STA "M" 16+73.1, 4.6 RT	FO	EL=28.92
		MV P-5	EL=21.67
		MV P-8	EL=21.63



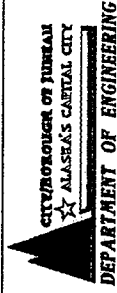
EGAN DRIVE

10 0 10 20 30
SCALE IN FEET

Set No.
C.402
21 of **48**

PROFILE -
STA "M" 15+78 TO EGAN DRIVE
AND EGAN DRIVE

**MAIN STREET IMPROVEMENTS
CONTRACT NO. E10-007**



5368 Commercial Blvd.
Juneau, Alaska 99801
(907) 780-3533 Office
(907) 780-3535 Fax

DOWL HKM

Consulting Engineers • Land Surveyors • Construction Administration

DATE	DATE
BY: STAFF	DATE

JOB NO. 20017	DRAWN BY: STA
---------------	---------------

SPECIAL PROVISIONS

A. Traffic Control

1. All traffic control shall be designed installed and maintained under the direct supervision of an approved Traffic Control Supervisor certified by either the International Municipal Signal Association (IMSA) or The American Traffic Safety Services Association (ATSSA).
2. A traffic control plan shall be submitted to the department's Permit Officer for approval a minimum of ten (10) days prior to beginning construction.
3. Public notice of any planned road closure, lane restrictions or driveway closure shall be given a minimum of 24 hours in advance. The public notice shall include as a minimum:
 - a. A detailed description and map of the project.
 - b. The anticipated construction schedule.
 - c. An outline of possible closures or lane restrictions.
 - d. The contractor and or Permittee's 24 hour message number and office number.
4. Protective signing, lighting, barricades, and traffic control devices shall be of an approved design and placed in accordance with the latest edition of Manual on Uniform Traffic Control Devices published by the U.S. Department of Transportation and the Alaska Traffic Manual Supplement.
5. Double Fines signs should be posted in accordance with Part VI of the Alaska Traffic Manual Supplement. Double fines signs are not required for low speed, low volume roads or for work zones lasting 48 hours or less.
 - a.) Double Fines signs shall be removed or covered when the work activity ceases for more than two (2) days.
 - b.) The speed limit shown on work zone speed limit signs shall be the posted speed limit before construction or a reduced limit, if a work zone speed limit order has been approved by the department.
6. All signs, barricades, devices and flagmen shall be in place prior to commencing work within the right of way.
7. Flagmen, if used, must be certified by either the International Municipal Signal Association (IMSA) or The American Traffic Safety Services Association (ATSSA). Documentation of certification shall be provided if requested.
8. Reduced speed and two-way traffic shall be maintained on non-detoured roadways between the peak traffic hours of 7:30 a.m. to 9:00 a.m. and from 4:30 p.m. to 5:30 p.m.

9. One way traffic shall be maintained at all times unless a closure is approved by the Regional Utilities Engineer.
10. At the close of each work day the construction site on non-detoured roadways shall be restored to a condition that allows two-way traffic to flow in conformance with the normal traffic pattern in that area, unless otherwise approved by the Regional Utilities Engineer.
11. All temporary traffic control devices shall be removed as soon as practical when they are no longer needed. When work is suspended for short periods of time, temporary traffic control devices that are no longer appropriate shall be removed or covered.
12. Conduct periodic inspections of traffic control devices left in place during non-working hours to insure that they are working properly. A 24-hour telephone contact number for the work site traffic control supervisor responsible for maintaining 24-hour operations shall be provided to the local State Troopers or Police Department and the Department of Transportation Maintenance.

B. Protection and Restoration of the Right of Way

1. Heavy tracked equipment operation will not be permitted on a paved roadway or shoulder, unless approved in writing by the Regional Utilities Engineer. If approved, planking or rubber tires shall be utilized between the vehicle tracks and the pavement. Damage to the pavement, as a result equipment operation shall be repaired by the permittee as directed by the department.
2. The roadway and shoulder shall be maintained clear of any dirt and debris and shall be thoroughly cleaned at the end of each workday or more frequently if required.
3. The work area shall be restored to its original cross section by the end of the workweek. Whenever possible, trenches should be closed at the end of each workday. No more than 20 feet of trench excavation shall remain open at the end of the workday. If a trench is left open, it shall be properly barricaded to prevent accidental entry.
4. Any damage of existing utilities, storm drainage or other highway structures caused as a result of construction authorized by this permit will be repaired immediately by the permittee or their contractor.
5. Fill slopes, ditches and backslopes shall be returned to their original or better condition at the end of the workweek unless otherwise directed by the Regional Utilities Engineer. Reseeding of backslopes will be in accordance with Section 618 AKDOT&PF Standard Specifications dated 2004.
6. Any survey monument or monument accessory which will be disturbed or destroyed during construction of a permitted activity shall be referenced prior to disturbance and restored or replaced by a Land Surveyor licensed in the State of Alaska. The Land Surveyor must

file a Monument Record in accordance with AS 34.65.040. All monument records shall be reviewed by the Department prior to filing with the District Recorder.

7. Highway signs that are in conflict with construction shall be relocated on a temporary basis and reinstalled at the end of each workweek. Signs that are damaged during construction shall be replaced at no cost to the department.
8. Remove existing mailboxes and newspaper delivery tubes that conflict with construction and reset them temporarily. After construction has been completed reinstall in accordance with AKDOT&PF Standard Drawing M-20 and M-23.
9. Guardrail that is removed or damaged during construction will be replaced in accordance with Section 606 AKDOT&PF Standard Specifications dated 2002. Guardrail terminal ends that are removed or damaged during construction will be replaced with extruder terminals (ET-2000) in accordance with Sections 606 and 710 AKDOT&PF Standard Specifications dated 2004.
10. Traffic markings damaged or removed during construction shall be replaced in accordance with section 670 AKDOT&PF Standard Specifications dated 2004.
11. Any damage to the roadway prism, fill slopes, ditches, backslopes, structures or underground utilities determined to be a result of work authorized by this permit that becomes apparent within two (2) years after project completion and acceptance by the department shall be repaired by the permittee.

C. Underground Facilities

1. The depth of burial for underground facilities constructed or installed under pavement, roadway or runway surfaces must be at least four feet measured from the surface of the pavement to the top of the cable, conduit, pipeline or encasement.
2. Underground facilities constructed under other surfaces, including unlined ditches must be buried at least three feet, measured in any direction from the surface to the top of the cable, conduit, pipeline or encasement.
3. Underground crossings of the highway shall be accomplished by jacking and boring methods when possible.
4. Where utility locate services are not available, carsonite reference markers must be installed and maintained at both ends of all utility highway crossings and at angle points in the facility. Where utilities are attached to a bridge attach a plate on the conduit at each abutment describing the content of the pipe or conductor and the name and phone number of the owning utility.

D. Trenching, Excavation and Backfill

1. Clear and grub prior to starting excavation.
 - a. Clearing within the right of way shall be kept to the minimum necessary for construction and maintenance of the utility. Cut stumps flush with the ground.
 - b. Vegetation and debris removed by clearing and grubbing will be disposed of by burning, chipping or other approved methods. Comply with applicable laws and local ordinances regarding burning. Chipping shall be done in a manner that precludes the debris from blocking roadway ditches or drainage structures.
2. All unsuitable material shall be removed and replaced with approved material.
3. Use selected material, Type A, as specified in Subsection 703-2.07 of the Alaska DOT&PF Standard Specifications dated 2004, passing the 3-inch sieve, for bedding material and backfill material to 12 inches above the pipe.
4. Use selected material Type C, as specified in Subsection 703-2.07 of the Alaska DOT&PF Standard Specifications dated 2004, for backfill. Type C is described as earth, sand gravel, rock or a combination thereof containing no muck, peat, frozen material, roots, sod or other deleterious matter and is compatible
5. Excavated native material may be used for backfill if it meets the requirements of Selected Material Type C.
6. Bedding material will be placed in uniform layers not more than 6" deep and compacted to not less than 95% of the maximum density.
7. Backfill material will be placed and compacted in uniform layers normally 8", but not exceeding more than 1 1/2 times the diameter of material being used. Ponding or jetting is not permitted.
8. The top six (6) inches of the road surface or surface under pavement shall be crushed aggregate D-1

E. Pavement Replacement

1. Pavement cuts may be authorized from May 1st to September 30th and will only be permitted on an emergency basis from October 1st through April 30th unless the Regional Utilities Engineer approves a request for exception. Planned pavement cuts must be repaired by September 30th. No more than 2500 feet of pavement by project stationing can be disturbed without final repair.
2. The contractor shall maintain all roadways to the proper crowned surface, be kept smooth and passable. Pedestrian and bicycle facilities affected by the pavement removal shall be maintained smooth and passable at all time.

3. If the edge of the pavement is damaged during this construction the permittee shall have his contractor replace the pavement to the centerline of the roadway at least 10 feet each side of the damaged area. If the damage is intermittent and less than 50 feet between damaged areas the permittee shall make the repair continuous to cover the damage.
4. All asphalt cuts shall be permanently repaired with hot asphalt. Asphalt concrete pavement shall be Type II, Class B installed in conformance with Section 401 of the Alaska DOT&PF Standard Specifications dated 2004. The proposed job mix design shall be submitted for review and approval by the department.
 - a. For service crossings, pre-saw the area to be excavated. After completion of the utility installation, saw back the existing pavement a minimum of 1-1/2' over undisturbed earth on each side of the trench. Install 6" of asphalt hot mix which shall be spread and compacted in layers. The top layer shall not exceed a 2" compacted depth. Paint the entire area of all top-lift longitudinal joints with a 1/8" thick band of polymerized bituminous joint adhesive prior to placement the abutting lanes. The modified joint adhesive materials shall be Crafcro Pavement Joint Adhesive No. 34524, or an approved equal. The temperatures and application method of the joint adhesive shall be per manufacturer's recommendations.
 - b. For lane replacement, pre-saw the area of pavement effected by the utility installation. Cut the pavement so that the edges are vertical, the sides are parallel and the ends are perpendicular to the direction of traffic. The depth of pavement to be replaced will match the depth of the existing pavement unless otherwise specified. The pavement will be spread in layers not to exceed 2" to the seam nearest the centerline of the roadway. Paint the entire area of all top-lift longitudinal joints with a 1/8" thick band of polymerized bituminous joint adhesive prior to placement the abutting lanes. The modified joint adhesive materials shall be Crafcro Pavement Joint Adhesive No. 34524, or an approved equal. The temperatures and application method of the joint adhesive shall be per manufacturer's recommendations.
5. If the contract quantity is less than 1500 tons, the asphalt concrete pavement will be accepted based upon the engineers approval of the job mix design and the placement and compaction of the asphalt concrete to the specified depth and finished surface requirements and tolerances. The engineer's approval of the job mix design does not relieve the permittee or their contractor from the responsibility to produce the approved mix and is subject to field verification testing for oil content, density and gradation. The gradation, density and asphalt content shall be determined in accordance with section 410-4.02. If a calibrated nuclear content gauge is not available, asphalt content of the mix may be determined by extraction in accordance with AASHTO T-164. A minimum of two tests shall be taken for each approved mix design or as designated by the engineer.
6. The finished pavement surface will be tested after final rolling at selected locations using a 16-foot straightedge. Variations of more than 3/16 inch from the testing edge between any two contacts will be corrected.

7. A Polymer modified cold mix asphalt or concrete patch may be used as a temporary patch subject to written approval of the Regional Utilities Engineer. The temporary patch will be replaced as soon as hot asphalt is available.

a. Temporary repairs made with polymer-modified cold asphalt

- 1.) For crossings, saw back existing pavement a minimum of 1' over undisturbed earth on each side of the trench. Paint edges with STE-1 tack coat and install 4" of polymer-modified cold asphalt. Damage to the pavement surface at locations other than crossings will be repaired by replacement of asphalt to the seam nearest centerline of the roadway with 4" of polymer-modified cold asphalt. All edges are to be saw cut and painted with STE-1 tack coat.
 - 2.) The polymer-modified cold asphalt shall be spread and compacted in 2" lifts, each compacted to a minimum of 94% of maximum density. Asphalt patch density shall be field controlled utilizing a calibrated nuclear densometer at two locations per patch. Field testing results shall be certified by a registered engineer and forwarded to DOT&PF.
 - 3.) Temporary concrete patches shall be a minimum of 6" thick with 6" x 6", 6 gage wire mesh or suitable reinforcing steel installed 3" below the finished grade. Concrete shall be Class A, six sack mix, with a slump range of 2"-4".
8. Asphalt concrete mixture that becomes contaminated with foreign material, is segregated or is in any way determined to be defective will be removed. Defective materials will be removed for the full thickness of the course.

F. AS Built Drawings

1. The permittee agrees to:
 - a. Furnish the department with a set of as built plans within 60 days from the completion of the project and
 - b. To provide location service the facilities at the department's request including surface and subsurface information at no cost to the department.

G. Environmental Provisions

1. If cultural, historic or archeological resources are discovered as a result of ground altering activities, all work that would disturb these resources shall be stopped and the State Historic Preservation Office shall be immediately contacted (907-269-8721).

2. The Permittee shall not hold the Department responsible for any delay, redesign, rerouting, or additional cost due to encountering environmental contamination or cultural, historic, or archeological resources.
3. If there will be ground-disturbing activities, it is the Permittee's responsibility to obtain authorization from the Army Corps of Engineers for any work in areas designated as wetlands.

H. Inspection

1. The Regional Utilities Engineer may assign an inspector or inspectors to the project in order to insure compliance with the provisions of the utility permit. The inspector has the authority to suspend all work in the event of noncompliance.
2. The actual costs of inspection shall be reimbursed to the department by the permittee. Reimbursable expenses shall be:
 - a. Labor cost based on the inspector(s) hourly rate based on a 37.5-hour workweek. Overtime will be paid at a rate of time and one half
 - b. Travel and per diem expenses
 - c. Vehicle expense based on the current rate per mile if a state vehicle is required.
 - d. Cost of any tests required to determine conformance to standards

I. Maintenance and Operations

1. Routine maintenance shall be performed on the utility facility on a continuing basis. Routine maintenance may be performed without prior notification of the department however closure of a highway, pedestrian facility, pathway, sidewalk or creating a detour to perform routine maintenance must be specifically authorized by permit. The permittee shall apply for an annual lane closure permit to cover routine maintenance operations. Prior authorization must be obtained from the department before performing any maintenance that requires excavation, plowing, jacking or boring within the right of way.
2. Emergency maintenance may be performed without prior notice to the department as long as appropriate traffic control is established and maintained. If the project requires major reconstruction and or placement of traffic control devices for an extended period a lane closure permit is required. If the road surface is effected by the emergency maintenance, contact the local maintenance foreman as soon as possible and place pavement break warning signs in advance of the site until such time as the pavement has been repaired.
3. Maintenance and adjustment of manhole frames, valve boxes, junction boxes or other structures located in the pavement or sidewalk is the responsibility of the permittee.
4. If the facility authorized by this permit is to be reconstructed or modified substantially, a new permit is required. If the proposed modifications are not substantial, the permittee need only apply for an amended permit. A utility permit application is required for all new service connections.

J. Administration

1. Any rights granted by this permit may not be assigned or transferred to another entity without prior written approval from the department. If the utility is sold to another utility or merges with another utility, the new utility shall inform the department in writing within 30 days after the date of the transaction.
2. This utility permit may be revoked if;
 - a. The facilities were not constructed or installed in accordance with the terms of the utility permit.
 - b. The facilities do not conform to applicable federal, state and local standards
 - c. The permittee fails to adequately maintain the facility after having been notified to do so in writing by the department
 - d. The permittee fails to provide safe and adequate detours, barricades, signs flagmen or other controls to protect the public
 - e. The permittee fails, after written notice from the department to take corrective measures to comply with the department's instructions or requests.

Requests for exceptions to these provisions may be submitted in writing to the Regional Utilities Engineer.

In consideration of the benefits accruing to the Permittee by reasons of the foregoing agreement, this permit is hereby accepted by the Permittee and the Permittee hereby agrees to comply with all of the terms, provisions, conditions, stipulations therein contained. Dated this 12th day of JANUARY, 20 10

City and Borough of Juneau

By: RORIE WATT DNRWATT

Title: CBS ENGINEERING DIRECTOR

Attest: JA

Title: PROJECT MANAGER

ACKNOWLEDGEMENT OF
COMPANY OR PERMITTEE

STATE OF ALASKA)
_____ JUDICIAL DISTRICT)ss

BE IT REMEMBERED that on this 12th day of JAN, 20 10, before me the undersigned, a Notary Public of the State of Alaska, personally appeared

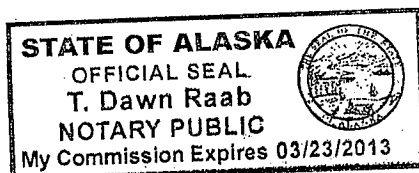
RORIE WATT

and SKYE STEKOLL
both to me personally known and known to me to be the identical individuals named in and who executed the foregoing permit, and acknowledged the said instrument to be the free and voluntary act and deed of the above named company for the uses and purposes therein expressed and on oath stated that they were authorized to execute said instrument.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of my office the day and year first above written.

My Commission Expires: 3/23/2013

T. Dawn Raab
A Notary Public



Page No. 15 of 15
The State of Alaska, acting by and through its Department of Transportation and Public Facilities has caused this Utility Permit to be executed on this 12th day of JAN, 20 10

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

By: Gregory Southwest Region
Title: Regional Utility Engineer

ACKNOWLEDGEMENT OF DEPARTMENT

STATE OF ALASKA)
1 st. JUDICIAL DISTRICT)ss

BE IT REMEMBERED that on this 12th day of JAN, 20 10, before me, the undersigned, a Notary Public of the State of Alaska, personally appeared

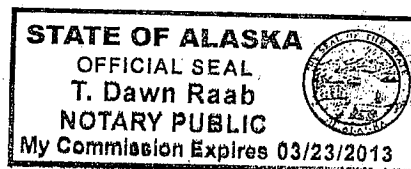
Fredrick J Thorntson

of the Department of Transportation and Public Facilities known to me to be the identical individual who executed the foregoing permit, and he acknowledged to me that he executed the same for and on the behalf of the State of Alaska Department of Transportation and Public Facilities with full authority so to do, and for uses and purposes therein expressed.

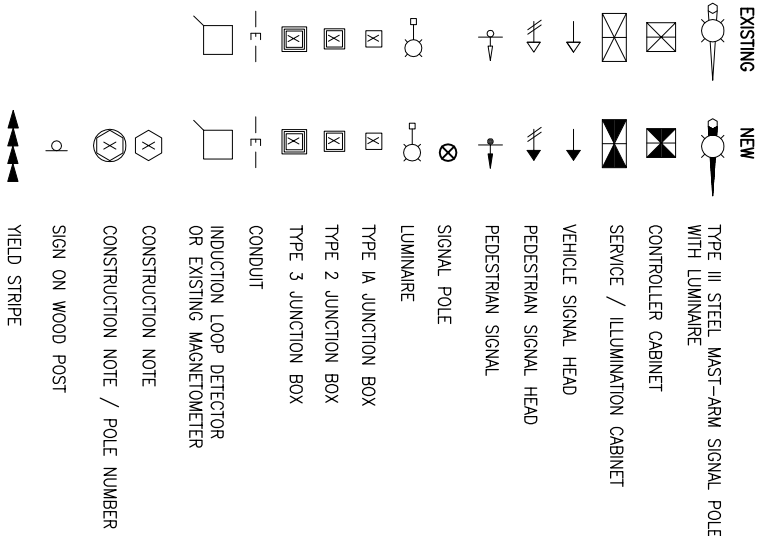
IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of my office the day and year first above written.

My commission Expires 3/23/2013

T. Dawn Raab
A Notary Public



LEGEND



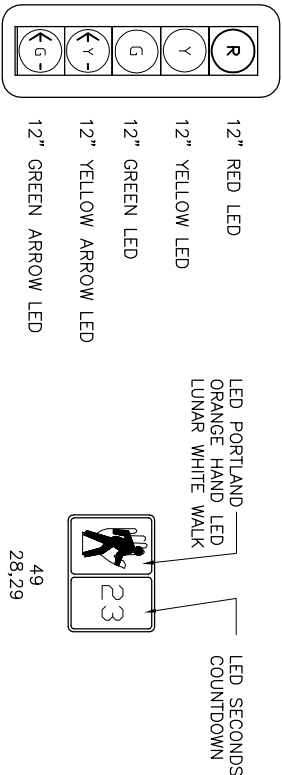
GENERAL NOTES

- UTILITY LOCATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE ONLY. SOME UTILITIES MAY NOT BE SHOWN. ALL UNDERGROUND UTILITIES SHALL BE LOCATED PRIOR TO EXCAVATION. (CALL 586-1333) FOR UTILITY LOCATION SERVICES)
- POLE FOUNDATION LOCATIONS MAY BE SLIGHTLY ADJUSTED AS REQUIRED TO AVOID UTILITY CONFLICTS. FINAL FOUNDATION LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
- CONDUIT RUNS AND JUNCTION BOX LOCATIONS ARE SHOWN IN APPROXIMATE LOCATIONS. FINAL LOCATIONS MAY BE ADJUSTED TO AVOID CONFLICTS AND FOR EASE OF CONSTRUCTION. FINAL LOCATIONS FOR CONDUITS AND JUNCTION BOXES SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
- CONTRACTOR SHALL PERFORM ALL CONTROLLER CABINET WORK, BUT CONTACT AKDOT&PF TO ACCESS CABINET.
- SEE ALASKA DOT&PF STANDARD DRAWINGS S-00.10, S-01.00, S-05.01, AND S-20.10 FOR TRAFFIC SIGN & SIGN POST DETAILS.
- ADDITIONAL TRAFFIC SAFETY ENGINEER SHALL BE NOTIFIED 5 DAYS IN ADVANCE OF TRAFFIC LOOP INSTALLATION, AND 5 DAYS IN ADVANCE OF TRAFFIC LOOP TESTING (CALL 465-4483).

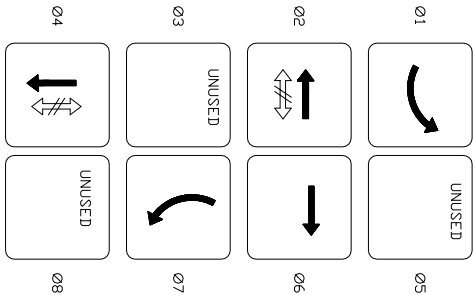
CONSTRUCTION NOTES

- CONSTRUCT TRAFFIC SIGN AS SHOWN ON WOOD POST PER ALASKA DOT&PF STANDARDS.
- CONSTRUCT PEDESTRIAN POLE FOUNDATION (SEE POLE DETAIL SHEET FOR LOCATION AND SIZE). INSTALL PEDESTRIAN SIGNAL POLE WITH 1 PEDESTRIAN SIGNAL DISPLAY, AND 1 PEDESTRIAN PUSHBUTTON.
- RELOCATE OR REPLACE EXISTING PEDESTRIAN SIGNAL POLE APPROXIMATELY 10' TO THE WEST. PEDESTRIAN POLE INCLUDES 1-5 SECTION VEHICLE HEAD, 1 PEDESTRIAN SIGNAL HEAD & 1 PEDESTRIAN PUSH BUTTON. IF RELOCATED, 1 PEDESTRIAN HEAD & 1 PEDESTRIAN PUSH BUTTON FOR NORTHBOUND PEDS NEEDS TO BE REMOVED.
- INSTALL TYPE 3 JUNCTION BOX (SEE ALASKA DOT&PF JUNCTION BOXES FOR TRAFFIC SIGNALS T-34.01).
- INSTALL TYPE 1A JUNCTION BOX (SEE ALASKA DOT&PF JUNCTION BOXES FOR TRAFFIC SIGNALS T-34.01).
- INSTALL TYPE 2 JUNCTION BOX (SEE ALASKA DOT&PF JUNCTION BOXES FOR TRAFFIC SIGNALS T-34.01).
- CONSTRUCT 6 FT X 6 FT. SQUARE INDUCTION LOOP DETECTOR. (SEE ALASKA DOT&PF LOOP DETECTOR INSTALLATION DRAWING SHT. 1 OF 1 T-32.10).
- CONSTRUCT PEDESTRIAN POLE FOUNDATION (SEE POLE DETAIL SHEET FOR LOCATION AND SIZE). INSTALL PEDESTRIAN SIGNAL POLE WITH 1 PEDESTRIAN SIGNAL DISPLAY, AND 1 PEDESTRIAN PUSHBUTTON.
- INSTALL CONDUITS (INCLUDING SPARE) OF THE SIZE AND CONTAINING CONDUCTORS SHOWN ON THE WIRE DIAGRAM SHEET IN OPEN TRENCH. TRENCH SHALL PROVIDE COVER AND BE BACKFILLED AND COMPACTED PER ALASKA DOT&PF SPECIFICATIONS. CONTRACTOR NEEDS PERMIT FROM ALASKA DOT&PF RIGHT OF WAY SECTION & MAY BE REQUIRED TO DO WORK AT NIGHT.

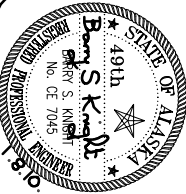
SIGNAL DISPLAYS



SIGNAL PHASING



ADDENDUM - JANUARY 13, 2010



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(907) 780-3533 Office
Jeffrey S. Kitchin
No. CE 7095

CTS Engineers
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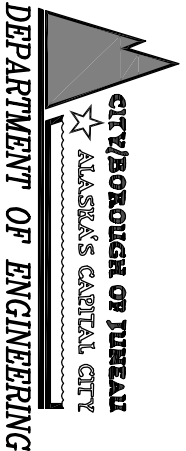
JOB NO. J17077

DRAWN BY: LT

DESIGNED BY: LT

CHECKED BY: BK

DATE: DEC. 2009



MAIN STREET IMPROVEMENTS
CONTRACT NO. E10-007

TRAFFIC SIGNAL MODIFICATIONS
PLAN SHEET

SHEET NO.
T.101A
33
OF
46

SIGNAL POLE SCHEDULE					
POLE NO.	STATION	OFFSET	TYPE	MAST ARMS	REMARKS
1	16+29.57	23.67' RT.	10' PEDESTRIAN POLE	NONE	-
2	16+38.63	9.99' LT.	10' PEDESTRIAN/VEHICLE HEAD POLE	NONE	-
3	16+49.04	17.16' LT.	10' PEDESTRIAN POLE	NONE	-

SIGN SCHEDULE			
TYPE	STATIONING	OFFSET	MOUNTING
MAIN ST.			
R1-1	15+79.91	46.37' RT	WOOD POST
R1-2	10+94.49	47.69' LT	WOOD POST
R1-2	11+10.22	33.20' LT	WOOD POST

SIGNAL HEAD SCHEDULE				
POLE NO.	LENS SIZE	TYPE OF SIGNAL HEAD	MOUNTING	PHASE #
1	STD. PEDESTRIAN	PEDESTRIAN LED SIGNAL HEAD	8' SIDE MOUNT	2
2	STD. PEDESTRIAN	PEDESTRIAN LED SIGNAL HEAD	8' SIDE MOUNT	2
2	12",12",12",12",12"	5-SECTION G-Y-R-GLT ARROW YLT ARROW	10' POST MOUNT	1 & 6
3	STD. PEDESTRIAN	PEDESTRIAN LED SIGNAL HEAD	8' SIDE MOUNT	4

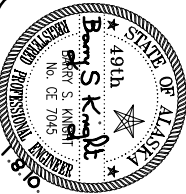
JUNCTION BOX SCHEDULE				
J-BOX NO.	STATION	OFFSET	TYPE	REMARKS
EGAN DRIVE				
1	12+15.26	21.08' RT	TYPE 3	LOOP DETECTION
2	11+09.67	21.16' RT	TYPE 2	LOOP DETECTION
MAIN ST.				
3	16+36.52	23.56' LT	TYPE 3	SIGNAL CONTROLLER
-	-	-	-	-
5	16+32.13	25.57' RT	TYPE 2	PEDESTRIAN SIGNAL
6	16+41.97	14.10' LT	TYPE 1A	PED/VEH COMBINATION
7	16+46.86	14.83' LT	TYPE 1A	PEDESTRIAN SIGNAL

LOOP DETECTOR SCHEDULE					
LOOP NO.	STATION	OFFSET	SIZE	PHASE	COMMENT
EGAN DRIVE					
611	10+68.74	6.50' RT.	6'X6'	1	EB LEFT
612	10+84.74	6.50' RT.	6'X6'	1	EB LEFT
613	11+00.74	6.50' RT.	6'X6'	1	EB LEFT
614	11+16.74	6.50' RT.	6'X6'	1	EB LEFT
615	11+32.74	6.50' RT.	6'X6'	1	EB LEFT
111	11+51.48	4.93' RT.	6'X6'	1	EB TO NB LEFT PASSAGE LOOP
621	10+68.74	18.00' RT.	6'X6'	6	EB THRU
622	10+84.74	18.00' RT.	6'X6'	6	EB THRU
623	11+00.74	18.00' RT.	6'X6'	6	EB THRU
624	11+16.74	18.00' RT.	6'X6'	6	EB THRU
625	11+32.74	18.00' RT.	6'X6'	6	EB THRU
MAIN ST.					
711	15+54.92	9.61' RT.	6'X6'	7	SB LEFT
712	15+70.92	9.61' RT.	6'X6'	7	SB LEFT
713	15+86.91	9.93' RT.	6'X6'	7	SB LEFT
714	16+02.73	11.81' RT.	6'X6'	7	SB LEFT
715	16+18.62	13.71' RT.	6'X6'	7	SB LEFT
716	16+47.25	16.71' RT.	6'X6'	7	SB TO EB LEFT PASSAGE LOOP

CONDUIT QUANTITIES

- 1" PVC LOOP TAILS.....200+ FT
- 2" GALVANIZED STEEL.....500+ FT
- 3" GALVANIZED STEEL.....80+ FT

NOTE: ABOVE QUANTITIES ARE ROUGH APPROXIMATIONS ONLY. CONTRACTOR SHALL CHECK PLANS AND MAKE OWN ESTIMATE.



DOWL HKM

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Juneau, Alaska 99801
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(907) 780-3535 Fax

Consulting Engineers • Land Surveyors • Construction Administration

Engineers

1412 - 112TH AVENUE NE
SUITE 102
BELLEVUE, WA 98004
425.453.7622

JOB NO. J70177

DRAWN BY: L.I.

DESIGNED BY: L.I.

CHECKED BY: B.K.

DATE: DEC. 2009



DEPARTMENT OF ENGINEERING

MAIN STREET IMPROVEMENTS

CONTRACT NO. E10-007

TRAFFIC SIGNAL MODIFICATIONS

SCHEDULES

SHEET NO.

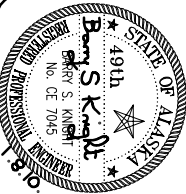
T.102A

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OF

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ADDENDUM - JANUARY 13, 2010



DOWL HKM
Consulting Engineers • Land Surveyors • Construction Administration



5358 Commercial Blvd.
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MAIN STREET IMPROVEMENTS
CONTRACT NO. E10-007

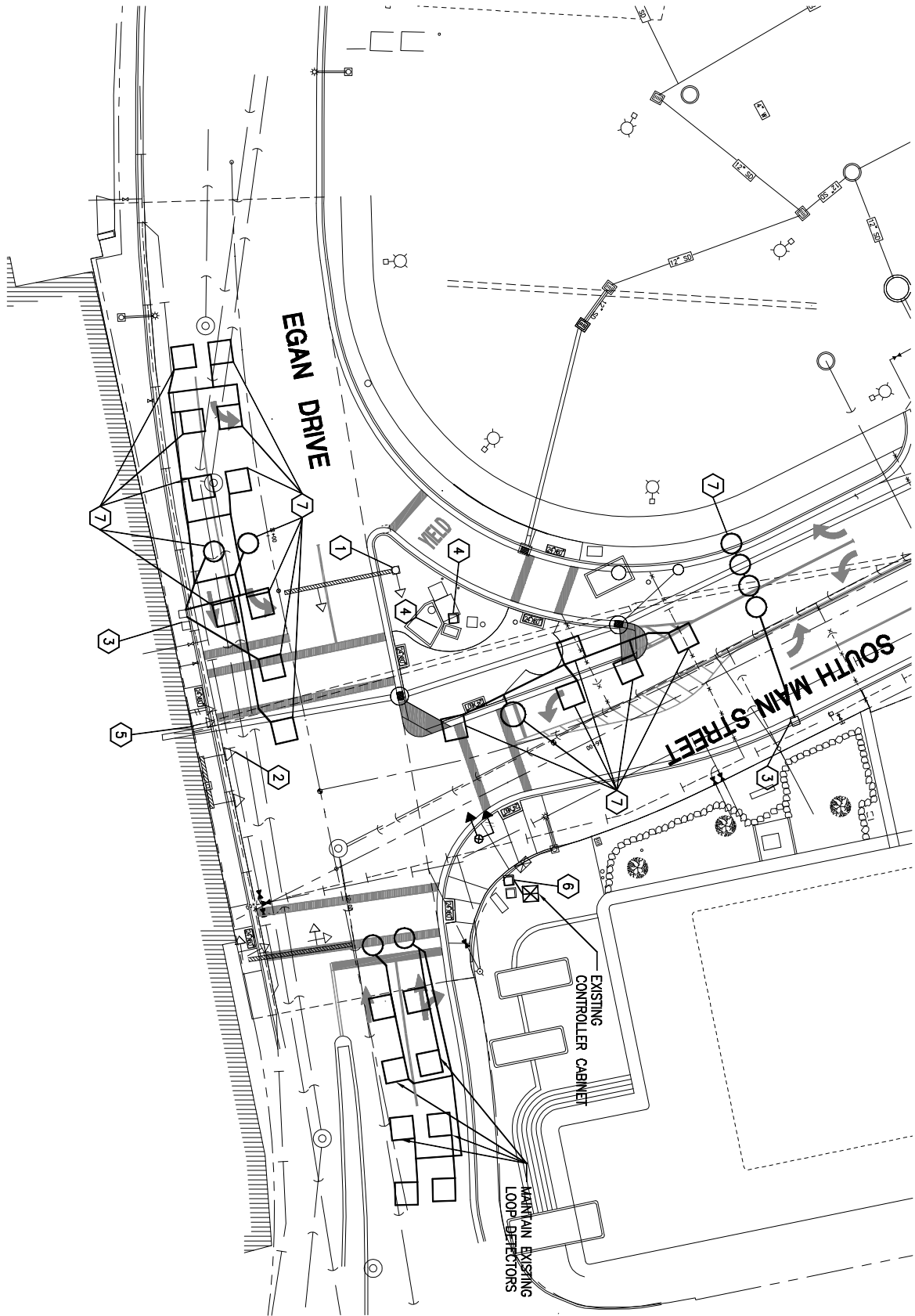
TRAFFIC SIGNAL MODIFICATIONS
SIGNAL DEMOLITION PLAN

SHEET NO.
T.103A
35
OF
46

ADDENDUM - JANUARY 13, 2010

LEGEND

- EXISTING
- TYPE III STEEL MAST-ARM SIGNAL POLE WITH LUMINAIRE
 - CONTROLLER CABINET
 - SERVICE / ILLUMINATION CABINET
 - VEHICLE SIGNAL HEAD
 - PEDESTRIAN SIGNAL HEAD
 - PEDESTRIAN SIGNAL
 - LUMINAIRE
 - TYPE 1A JUNCTION BOX
 - TYPE 2 JUNCTION BOX
 - TYPE 3 JUNCTION BOX
 - CONDUIT
 - INDUCTION LOOP DETECTOR OR EXISTING MAGNETOMETER

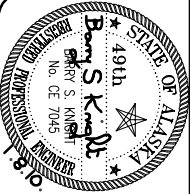




GENERAL NOTES

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- CONDUIT RUNS AND JUNCTION BOX LOCATIONS ARE SHOWN IN APPROXIMATE LOCATIONS.
- ALL EXISTING TRAFFIC LOOP LOCATIONS ARE APPROXIMATE.

DEMOLITION NOTES

- REMOVE EXISTING PEDESTRIAN HEAD CONTROLLING WESTBOUND PEDESTRIANS. SALVAGE PEDESTRIAN HEAD TO ALASKA DOT MAINTENANCE SHOP AS DIRECTED IN SPECIAL PROVISIONS.
- REMOVE RIGHT-TURN SIGNAL HEAD FROM SIGNAL POLE MAST ARM. LEAVE EXISTING RIGHT-TURN-ONLY SIGN & CAP HOLE MADE BY REMOVAL OF SIGNAL HEAD. SALVAGE SIGNAL HEAD TO ALASKA DOT&PF MAINTENANCE SHOP.
- DISCONNECT EXISTING TRAFFIC DETECTION AT JUNCTION BOX. REMOVE EXISTING JUNCTION BOX AND BACKFILL VOID CREATED BY REMOVAL. SALVAGE JUNCTION BOX LID TO ALASKA DOT&PF MAINTENANCE SHOP AS DIRECTED IN SPECIAL PROVISIONS. FIELD VERIFY EXISTING JUNCTION BOX CONTENTS BEFORE REMOVAL.
- DISCONNECT EXISTING TRAFFIC DETECTION AT JUNCTION BOX. DO NOT REMOVE EXISTING JUNCTION BOX.
- REMOVE VEHICLE HEAD FROM POLE. LEAVE PEDESTRIAN HEAD & BUTTON. CAP OFF TOP OF SIGNAL POLE.
- REMOVE EXISTING TYPE 2 JUNCTION BOX. (SEE T.101 FOR REPLACEMENT WITH NEW TYPE 3 JUNCTION BOX)
- REMOVE ALL EXISTING LOOPS COMPLETELY WITHIN OVERLAY AREA. FOR LOCATION OF EXISTING LOOPS, SEE 1994 AKDOT&PF EGAN DRIVE AT MAIN ST. CONTRACT.



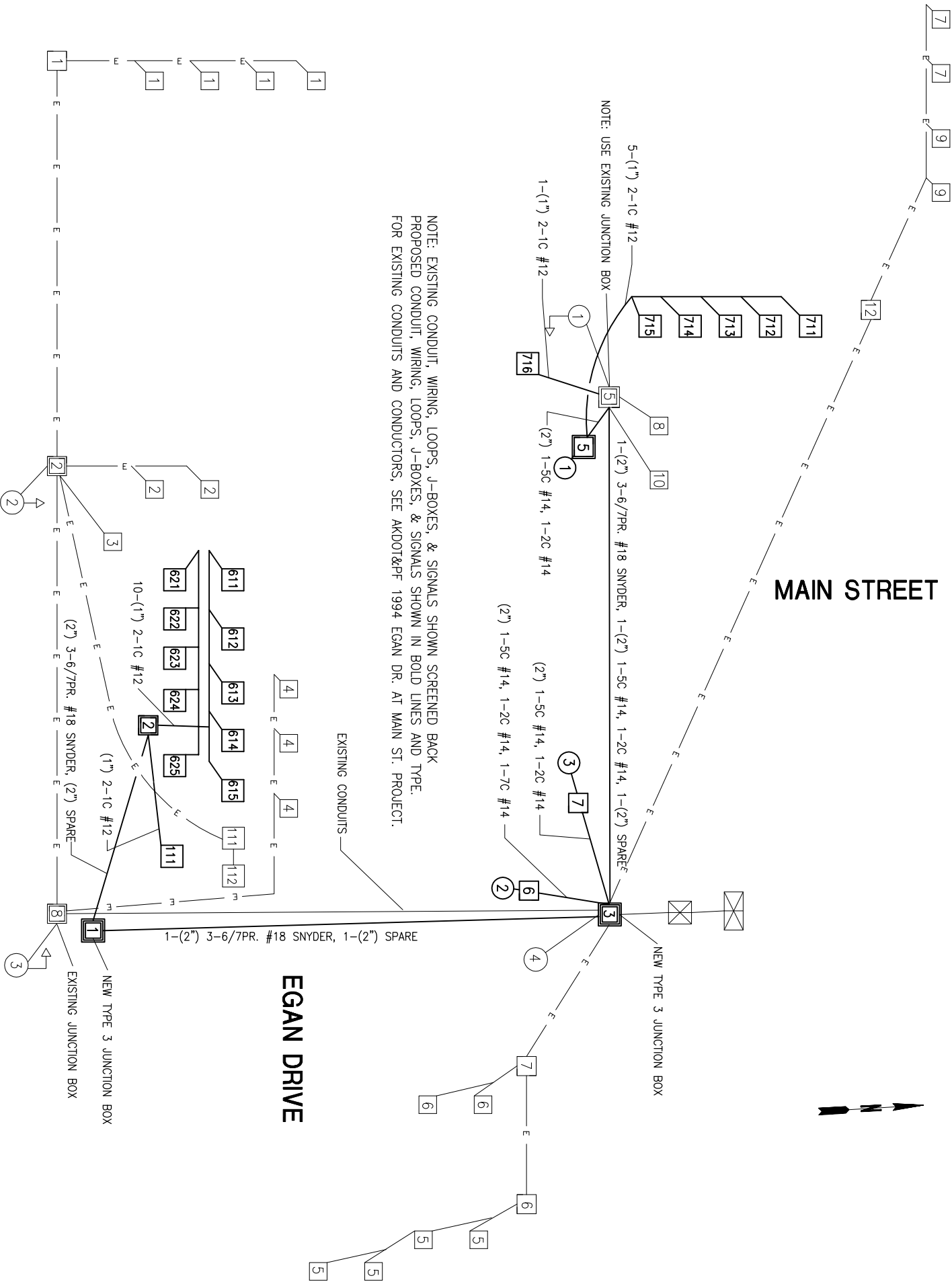
 DOWL HKM	5358 Commercial Blvd. Juneau, Alaska 99801 (907) 780-3533 Office (907) 780-3535 Fax		 Engineers	PACIFIC PARK 1412 1/2 INDIAN AVENUE NE SUITE 102 BELLEVUE, WA 98004 425.453.7622	
	DRAWN BY: L.L.	DESIGNED BY: L.L.		CHECKED BY: B.K.	DATE: DEC. 2009

CITY/BOROUGH OF JUNEAU
 ★ ALASKA'S CAPITAL CITY
 DEPARTMENT OF ENGINEERING

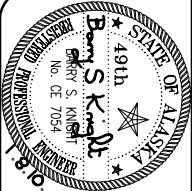
**MAIN STREET IMPROVEMENTS
CONTRACT NO. E10-007**

TRAFFIC SIGNAL MODIFICATIONS WIRING DIAGRAM

SHEET NO.
T.104A
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OF
46



EXISTING	NEW	
		TYPE 1 JUNCTION BOX
		TYPE 2 JUNCTION BOX
		TYPE 3 JUNCTION BOX
		CONDUIT
		INDUCTION LOOP DETECTOR OR EXISTING MAGNETOMETER
		CONTROLLER CABINET
		SERVICE CABINET
		PEDESTRIAN SIGNAL
		VEHICLE SIGNAL



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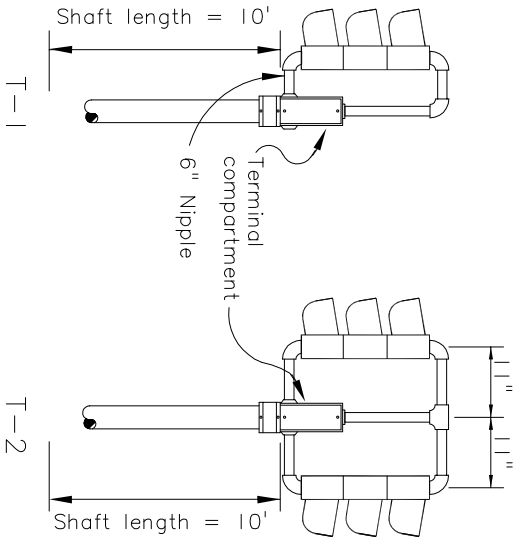
DEPARTMENT OF ENGINEERING

**MAIN STREET IMPROVEMENTS
CONTRACT NO. E10-007**

TRAFFIC SIGNAL MODIFICATIONS

FOUNDATION POLE DETAILS

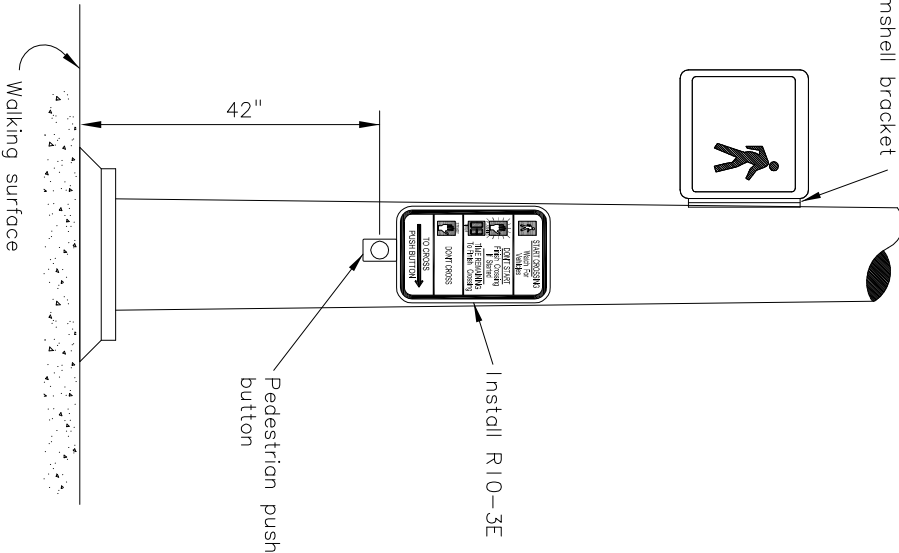
SHEET NO.
T.105A
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OF
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POST MOUNTED SIGNALS

NTS

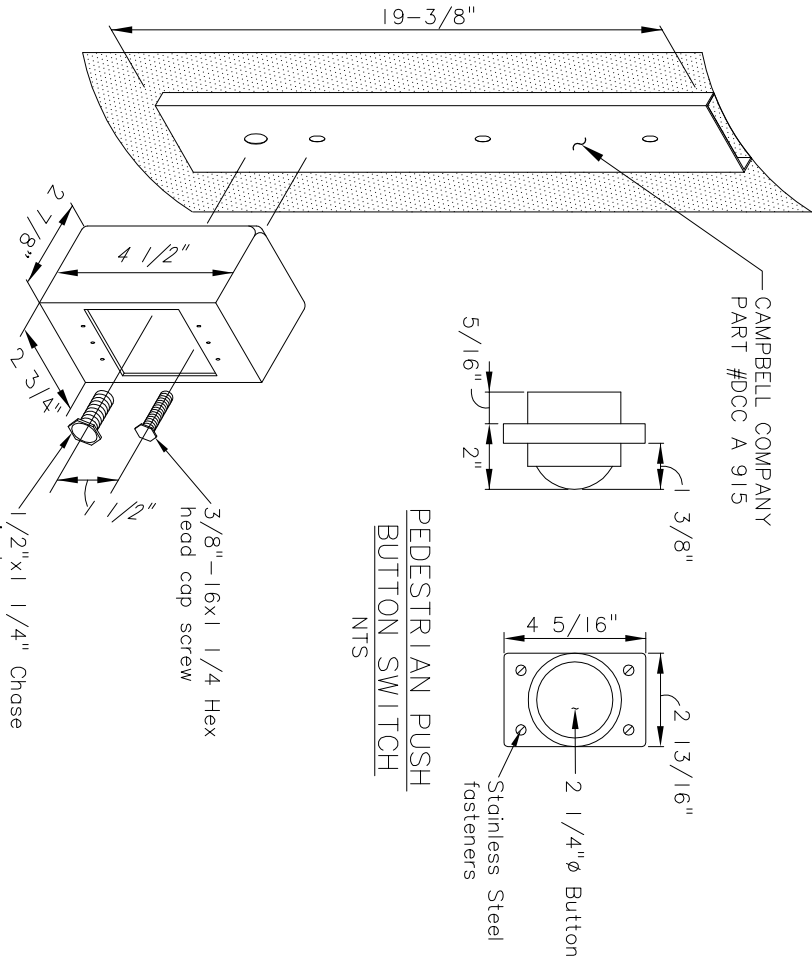
(Shown without backplate)



SIGNAL POLE MOUNTED

PEDESTRIAN HARDWARE & SIGNAGE

NTS



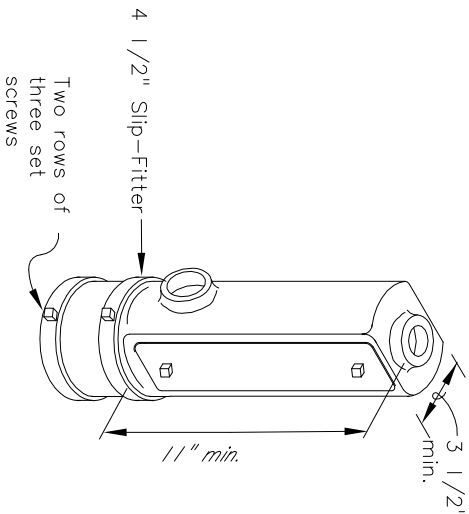
PEDESTRIAN PUSH
BUTTON SWITCH

NTS



PEDESTRIAN PUSH BUTTON

Zts

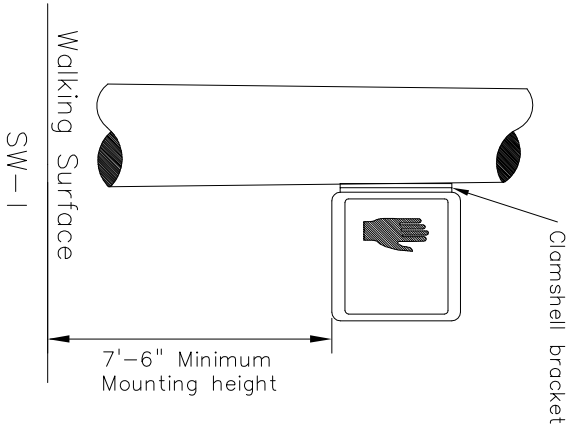


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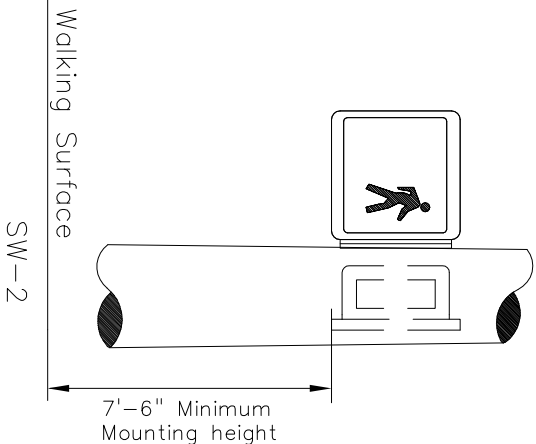
COMPARTMENT WITH SLIP FITTER

NTS

(See notes I.C. and 2)



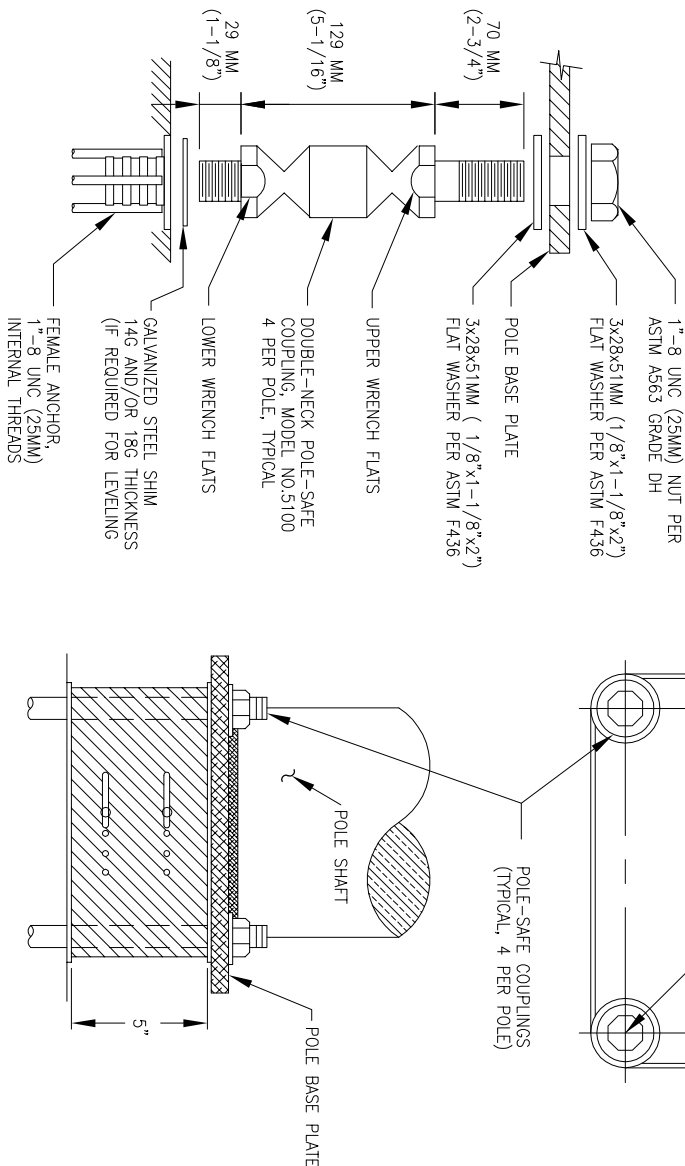
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SW-2

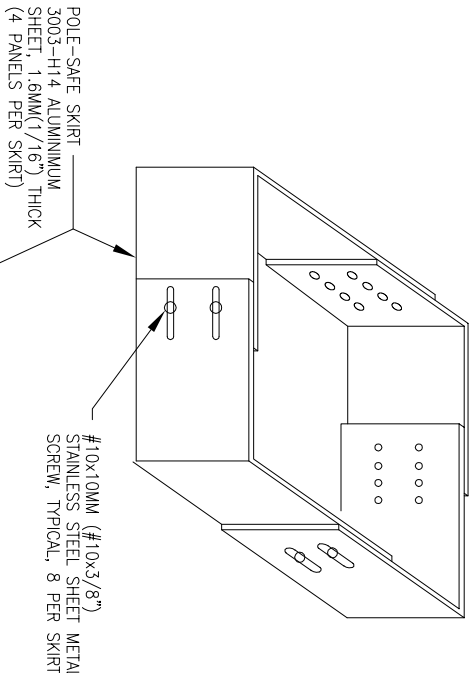
SIDE MOUNTED SIGNALS

NTS



TRANSP0 POLE-SAFE MODEL 5100

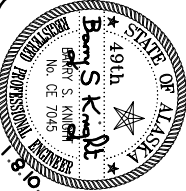
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POLE-SAFE SKIRT — 3003-H14 ALUMINUM SHEET, 1.6MM(1/16") THICK (4 PANELS PER SKIRT)

#10x10MM (#10x3/8") STAINLESS STEEL SHEET SCREW, TYPICAL, 8 PER SKIRT

ADDENDUM - JANUARY 13, 2010



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CTS

Engineers

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425.453.7822

JOB NO: J70777

DRAWN BY: L.L.

DESIGNED BY: L.L.

CHECKED BY: B.K.

DATE: DEC. 2009

MAIN STREET IMPROVEMENTS

CONTRACT NO. E10-007

TRAFFIC SIGNAL MODIFICATIONS

LOOP DETAILS

SHEET NO.
T.106A

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OF
46

ADDENDUM - JANUARY 13, 2010

Use a hole saw to cut loop tail entry into the J-box. Locate the hole to ensure the loop tails drain into the J-box. Grout around the loop tails to complete the installation.

VIEW B-B
NTS

LOOP WIRING DETAIL

TYPICAL PVC CONDUIT ENCASED LOOP DETECTOR INSTALLATION
NTS

Use 4 turns of a single piece conductor to form all loops

Wind tail at 3 twists per foot minimum to junction box

Final pavement surface

See the typical sections for the thickness of new and existing pavements.

Base course

1" Schedule 80 PVC conduit

#14 AWG Conductor

Min
Max

SECTION A-A
NTS

6. Heat and tack coat the edges of existing pavement before paving cutouts. Compact the asphalt mixture with a self-propelled steel-wheeled roller. Furnish asphalt mix that conforms to section 401 of the Specifications, and is approved by the Engineer. Maintain the replacement asphalt temperature at the mixing temperature specified in the approved mix design until compaction has begun.

7. To establish the reference lines, extend the right edges of the outermost through lanes across the intersection.

Edge of pavement

1" PVC loop tails

Back of curb

Conduit to controller

Install loops as shown in the shoulder section.

2" (Typ.) Junction box

Curb & gutter

1" PVC loop tail sloped to drain into J-box see note 4.

CURB SECTION
NTS

Fabricate all loops 6' square

Typical saw cut outline when loops are installed in existing pavement that will be overlaid.

1" PVC loop

Steel close nipple

Female PVC adapters

3" Minimum (typ. all sides)

Plug unused port

1" PVC loop tail

Final pavement surface

Install loops at minimum depths shown in section A-A sloped to drain into J-box see note 4.

1" PVC loop tail and tail sloped to drain into J-box see note 4.

Edge of pavement

Conduit to controller

2" (Typ.) Junction box

TYPE "X" conduit outlet body with access side up

Install loop and tail sloped to drain into J-box see note 4.

SHOULDER SECTION
NTS

GENERAL NOTES

- Solvent weld all PVC to PVC joints. Use hot dip galvanized steel type X outlet bodies to join the loops and tails.
- Use tube loop wire per IMSA specification 51-5 with the optional polyethylene tubing.
- Install and test all loop detectors before overlaying the existing pavement or paving the new roadway.

- Drill five 1/4" weep holes on 12" centers in the underside of the conduit at the low spot when the loop and tail cannot be installed to drain into the J-box. If the Engineer allows 90 degree elbows to be used, drill a 1/4" hole in the low point.
- When installing loop detectors in existing pavement, cut the asphalt with a saw and remove all asphalt within the saw cut. Where existing pavement will not be overlaid, cut the pavement with a saw as follows:
 - Remove all pavement from the length of the five loop presence fields.
 - Enclose all loops that enter a common junction box within one saw-cut area.
 - Cut to within 12" of lane and edge lines to preserve them.
 - Remove asphalt to gutter where there are no edge lines.
 - Cut across lane lines when loops are side by side.
 - Cut trenches crossing a lane a minimum of 3' wide.
 - Cut trenches crossing a shoulder a minimum 12" wide.

- Heat and tack coat the edges of existing pavement before paving cutouts. Compact the asphalt mixture with a self-propelled steel-wheeled roller. Furnish asphalt mix that conforms to section 401 of the Specifications, and is approved by the Engineer. Maintain the replacement asphalt temperature at the mixing temperature specified in the approved mix design until compaction has begun.