

GENERAL NOTES

1. SEE SEPARATE BASEBID AND ADDITIVE ALTERNATE.
2. MATCH EXISTING FINISH GRADES AT PROJECT LIMITS AND WHERE REQUIRED TO MATCH AT EXISTING ROADS.
3. ALL EXISTING ASPHALT CONCRETE MATERIALS TO BE REMOVED SHALL BE DELIVERED TO THE CBJ ASPHALT STOCKPILE AT LEMON CREEK GRAVEL PIT. ALL OTHER REMOVED MATERIALS THAT ARE NOT SUITABLE FOR REUSE ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND PROPERLY DISPOSED OF AT AN APPROVED SITE.
4. THE LOCATIONS OF EXISTING FEATURES AND UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE. ADDITIONAL UTILITIES MAY BE PRESENT HOWEVER ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS IN THE FIELD AS NECESSARY, PRIOR TO BEGINNING WORK. THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD SHALL BE RECORDED ON THE CONTRACTOR'S RECORD DRAWINGS. CONTACT LOCAL UTILITY COMPANIES PRIOR TO ANY/ ALL EXCAVATIONS AT THE FOLLOWING TELEPHONE NUMBERS:

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UNDERGROUND POWER, TELEPHONE, T.V., WATER
HERE DO NOT SUBSTITUTE FOR FIELD LOCATES.
AND SEWER LINES ARE IN THE AREA. UTILITIES SHOWN

5. CBJ ENGINEERING STANDARD DETAILS BOOK DATED APRIL, 2000 IS MADE A PART OF THIS CONTRACT, WITH CURRENT REVISIONS AS APPLICABLE.
6. PROPERTY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ITS PRE-CONSTRUCTION CONDITION OR BETTER AT NO ADDITIONAL COST.
7. GRADING AND ALIGNMENT OF PIPE, STRUCTURES & FINAL SURFACING ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER TO FIT SITE CONDITIONS. GRADE ALL IMPROVEMENTS WITH POSITIVE DRAINAGE AWAY FROM STRUCTURES.
8. PROPERTY LINE LOCATIONS USED IN THESE PLANS ARE DERIVED FROM RECORD PLATS AND DO NOT REPRESENT A BOUNDARY SURVEY.

ABBREVIATIONS

ACP	ASPHALT CONCRETE PAVEMENT
ALUM	ALUMINUM
APPROX	APPROXIMATE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AVE	AVENUE
BK	BACK
BOP	BEGINNING OF PROJECT
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
C&G	CURB AND GUTTER
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
CBJ	CITY AND BOROUGH OF JUNEAU
CIP	CAST IN PLACE
CL	CENTERLINE
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
CPEP	CORRUGATED POLYETHYLENE PIPE
CSP	CORRUGATED STEEL PIPE
CY	CUBIC YARD
CY	CUBIC YARD
D/DIA	DIAMETER
DIAG	DIAGONAL
DOT&PF	DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DR	DRIVE
E	EAST
EA	EACH
EG	EXIST GRADE
EL/ELEV	ELEVATION
EOP	END OF PROJECT
EP	EXISTING PAVEMENT
EVCS EVCE	END VERTICAL CURVE STATION ELEVATION
EW	EACH WAY
EXIST	EXISTING
HB	HAINES BOROUGH
IN	INCH
HYD	FIRE HYDRANT
FG	FINISH GRADE
FT	FOOT
H/V	HORIZONTAL/VERTICAL

IE	INVERT ELEVATION
INV	INVERT
LB	POUND
LF	LINEAR FOOT
LS	LUMP SUM
LT	LEFT
LVC	LENGTH OF VERTICAL CURVE
MAT'L	MATERIAL
MH	MANHOLE
MIN	MINIMUM
N	NORTH
NFS	NON-FROST SUCCEPTIBLE
NO	NUMBER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OSHA	OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION
PC	POINT OF CURVATURE
PND	PND ENGINEERS, INC.
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS
RD	ROAD
REQ'D	REQUIRED
ROW	RIGHT OF WAY
RT	RIGHT
S	SOUTH
SDR	STANDARD DIMENSION RATION
SDMH	STORMDRAIN MANHOLE
SDWK	SIDEWALK
SPEC	SPECIFICATION
SY	SQUARE YARD
SSMH	SANITARY SEWER MANHOLE
ST	STREET
STA	STATION
STD	STANDARD
TBC	TOP BACK OF CURB
TYP	TYPICAL
VC	VERTICAL CURVE
W	WEST
W/	WITH
WV	WATER VALVE

LEGEND

EXISTING	PROPOSED	
		EDGE PAVEMENT
		WATER SERVICE
		SANITARY SEWER SERVICE
		ELECTRIC (UNDERGROUND)
		ELECTRIC (OVERHEAD)
		PROPERTY LINE
		FENCE
		SWALE
		SILT FENCE
		STORMWATER PIPE
		CLEAN OUT
		WATER VALVE
		CONCRETE AREA DRAIN
		FIELD INLET w/ FRAME & GRATE
		RADIUS
		GUY WIRE
		SIGN
		SURVEY CONTROL POINT
		UTILITY POLE
		MANHOLE
		FIRE HYDRANT
		TEST PIT
		TREE
		LAYOUT POINT
		DRAIN
		TREE PROTECTION

SECTION OR DETAIL CALLOUT

A

C1.3

DETAIL TITLE

DRAWING SHEET WHERE DETAIL CAN BE FOUND OR WHERE DETAIL WAS REFERENCED FROM



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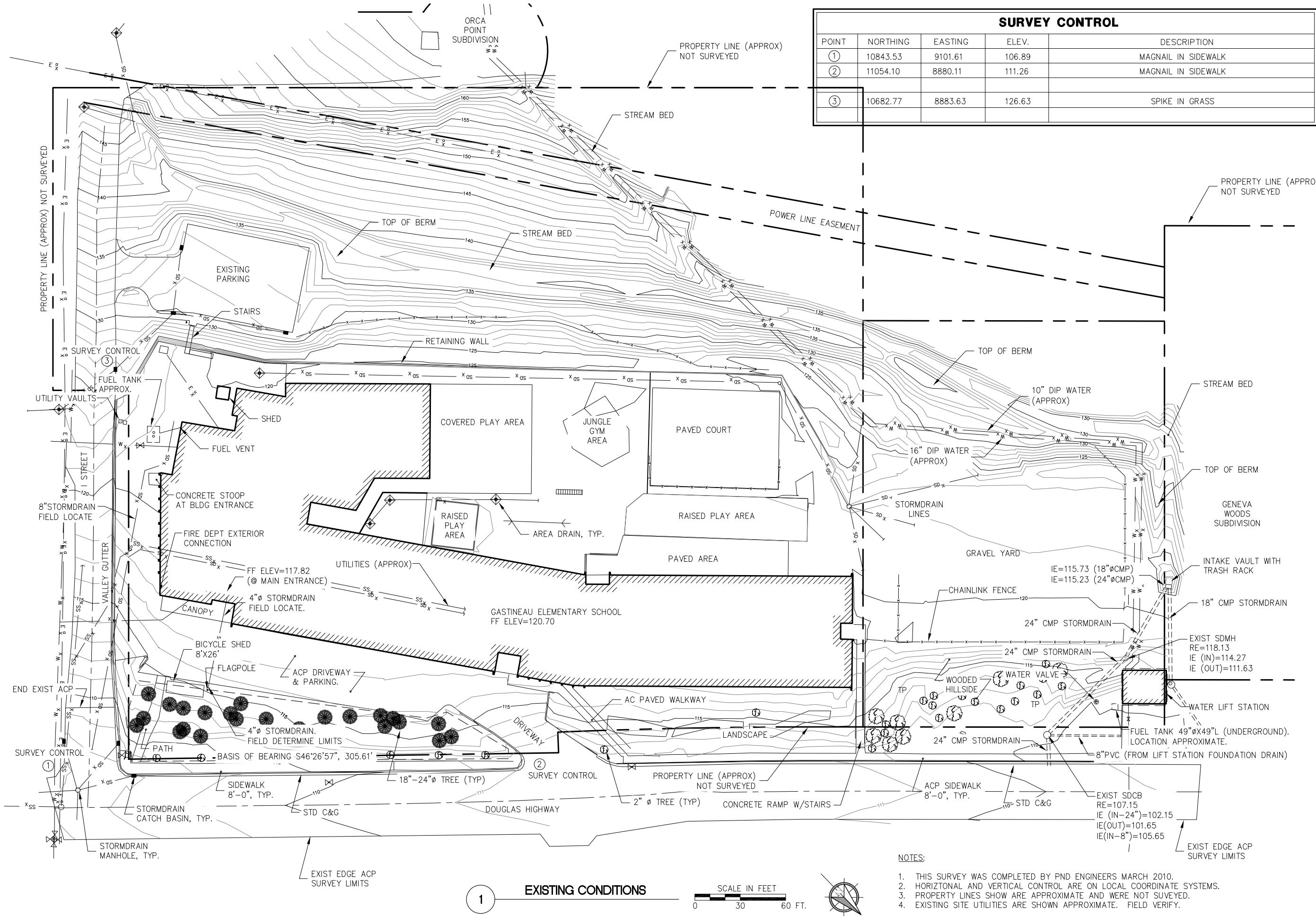
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9360 Glacier Highway, Ste 100
Juneau, Alaska 99801
Phone: 907.586.2093
Fax: 907.586.2099
PND # 092078

GASTINEAU ELEMENTARY SCHOOL
RENOVATION
CBJ Contract No. E11-157
JUNEAU, ALASKA

SHEET TITLE:
NOTES,
ABBREVIATIONS &
LEGEND

DATE: NOV. 15, 2010
REVISION:
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9360 Glacier Highway, Ste 100
Juneau, Alaska 99801
Phone: 907.586.2093
Fax: 907.586.2099
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GASTINEAU ELEMENTARY SCHOOL

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JUNEAU, ALASKA

SHEET TITLE:
EXISTING
CONDITIONS

DATE: NOV. 15, 2010

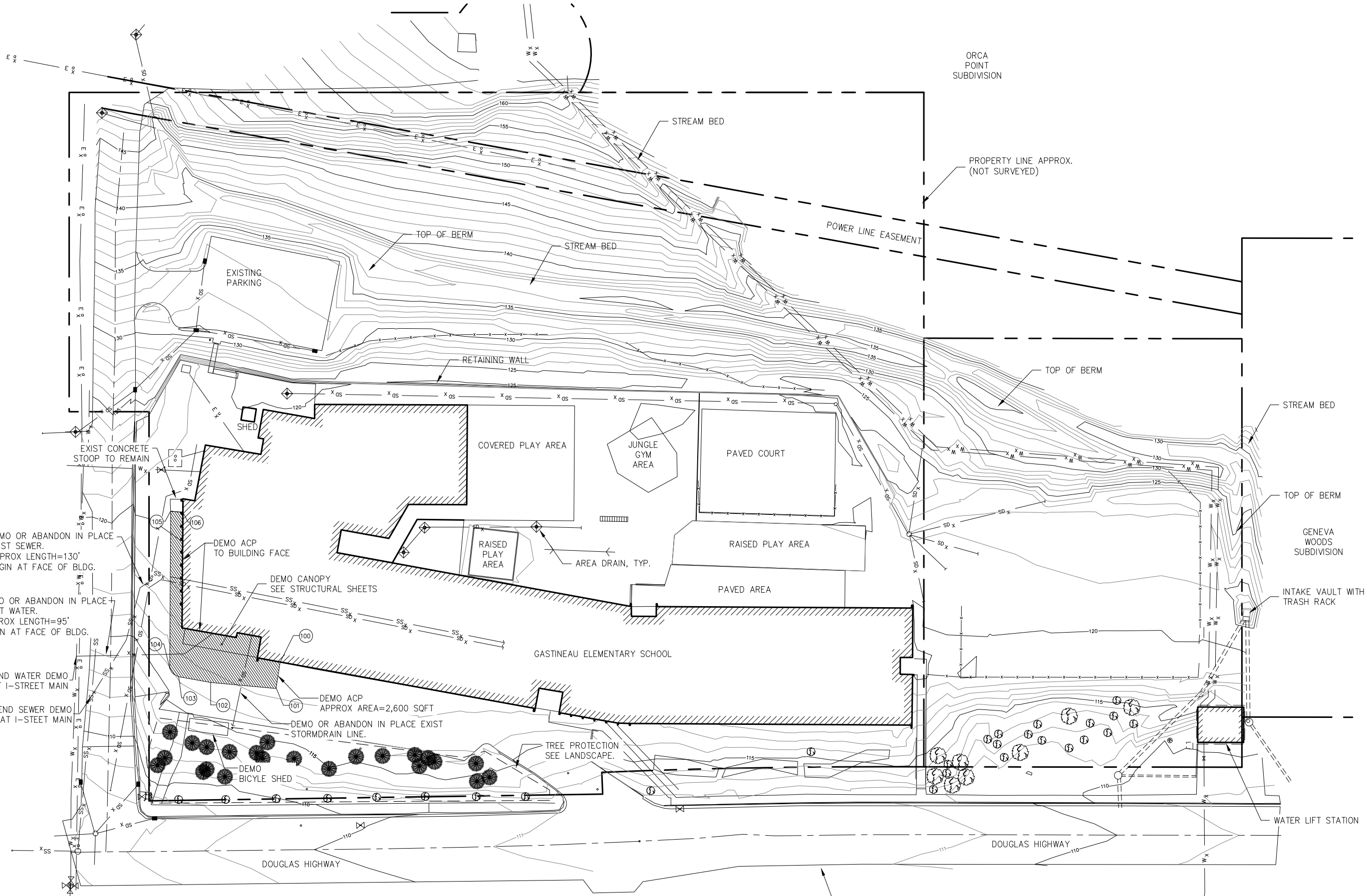
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C1.1



- NOTES:
1. REMOVE AND REPLACE CONCRETE CURB AND GUTTER & ACP SURFACING ON I-STREET TO MATCH EXISTING CONDITIONS IN CONJUNCTION W/WATER AND SEWER UTILITIES REPLACEMENT.
 2. COORDINATE ALL ACP DEMO WITH SAWCUTS AS SHOWN ON SITE LAYOUT. SEE SHEET C1.5.

1

SITE DEMOLITION PLAN

BASE BID

SCALE IN FEET

0 30 60 FT.

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W

N

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119A 2ND ST.
JUNEAU, AK 99801
PH #907.586.6150
FX #907.586.6181
WWW.NORTHWINDARCH.COM

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ENGINEERS, INC.

9360 Glacier Highway, Ste 100
Juneau, Alaska 99801
Phone: 907.586.2093
Fax: 907.586.2099
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SHEET TITLE:
SITE DEMOLITION
BASE BID

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C1.2

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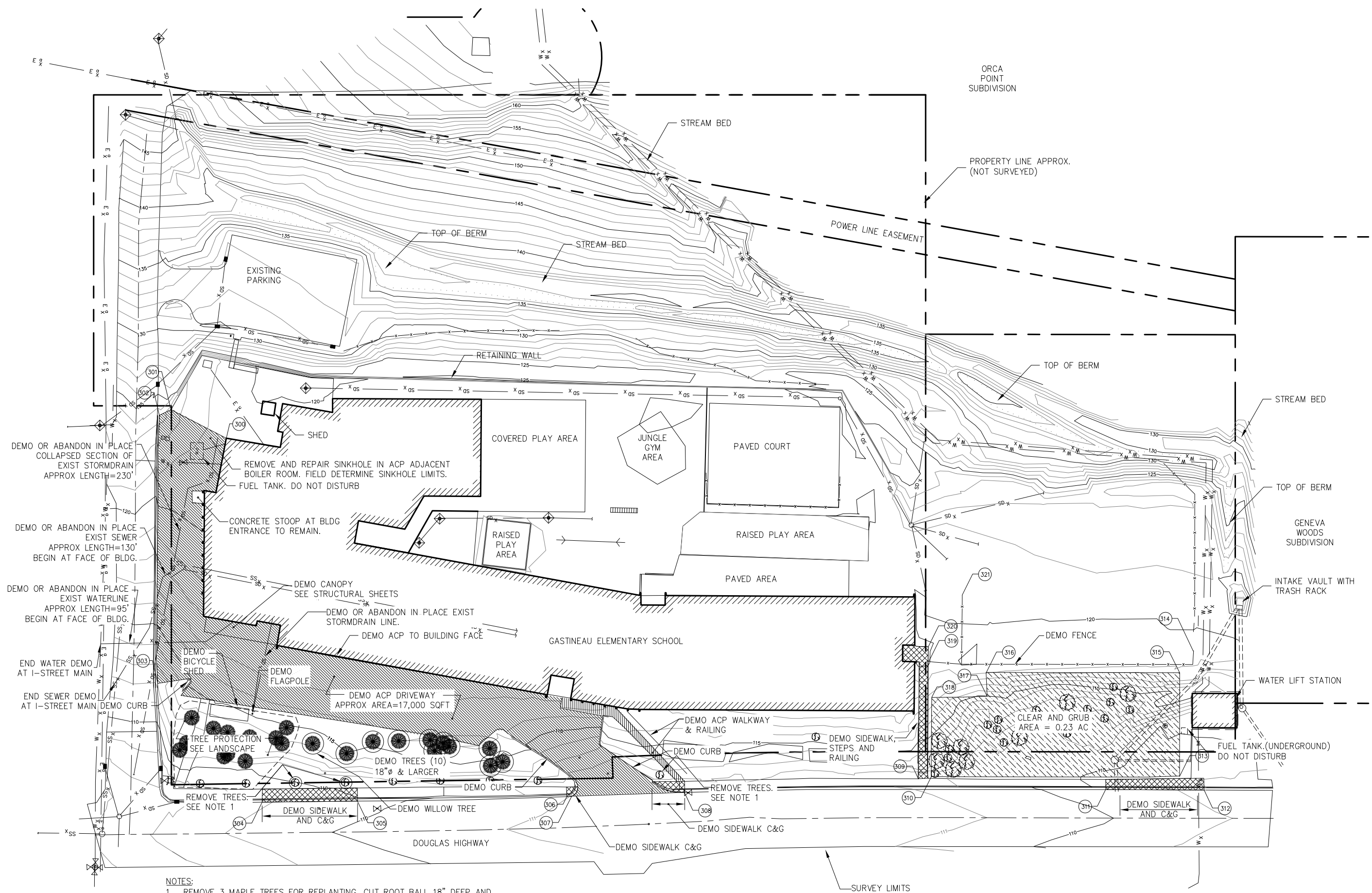
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RENOVATION**
CBJ Contract No. E11-137
JUNEAU, ALASKA

SHEET TITLE:
**SITE DEMOLITION
ADD. ALTERNATE**

DATE: NOV. 15, 2010
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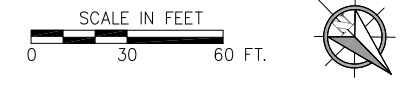
SHEET #
C1.3



- NOTES:**
1. REMOVE 3 MAPLE TREES FOR REPLANTING. CUT ROOT BALL 18" DEEP AND 5' DIAMETER. KEEP SOIL ON ROOTS AND STOCKPILE TREES. SEE LANDSCAPE SHEETS FOR FURTHER DETAILS.
 2. REMOVE AND REPLACE CONCRETE CURB AND GUTTER & ACP SURFACING ON I-STREET TO MATCH EXISTING CONDITIONS IN CONJUNCTION W/WATER AND SEWER UTILITIES REPLACEMENT.
 3. DEMOLITION OF COLLAPSED STORMDRAIN LENGTH MAY VARY. ADJUST STORMDRAIN DEMOLITION LENGTHS AND LIMITS AS REQ'D IN FIELD.

1

**SITE DEMOLITION PLAN
ADDITIVE ALTERNATE**



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- NOTES:
1. SITE UTILITIES IMPROVEMENTS LENGTHS AND LOCATIONS ARE GIVEN APPROXIMATE.
 2. REMOVE AND REPLACE CONCRETE CURB AND GUTTER & ACP SURFACING ON I-STREET TO MATCH EXISTING CONDITIONS IN CONJUNCTION W/WATER, SEWER AND STORMDRAIN UTILITIES REPLACEMENT.

1

SITE PLAN
BASE BID

SCALE IN FEET
0 30 60 FT.



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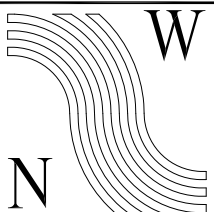
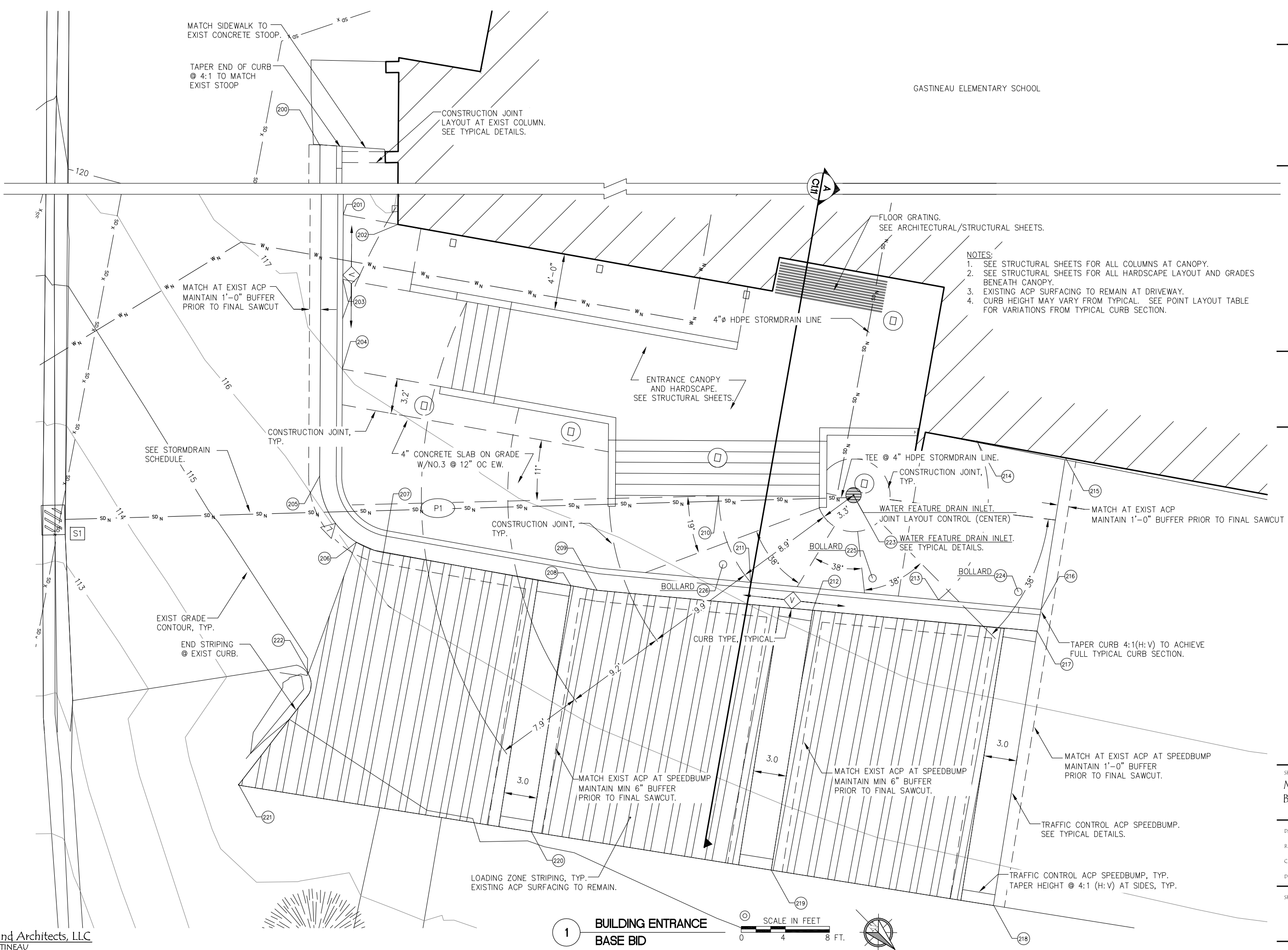
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SHEET TITLE:
SITE PLAN
BASE BID

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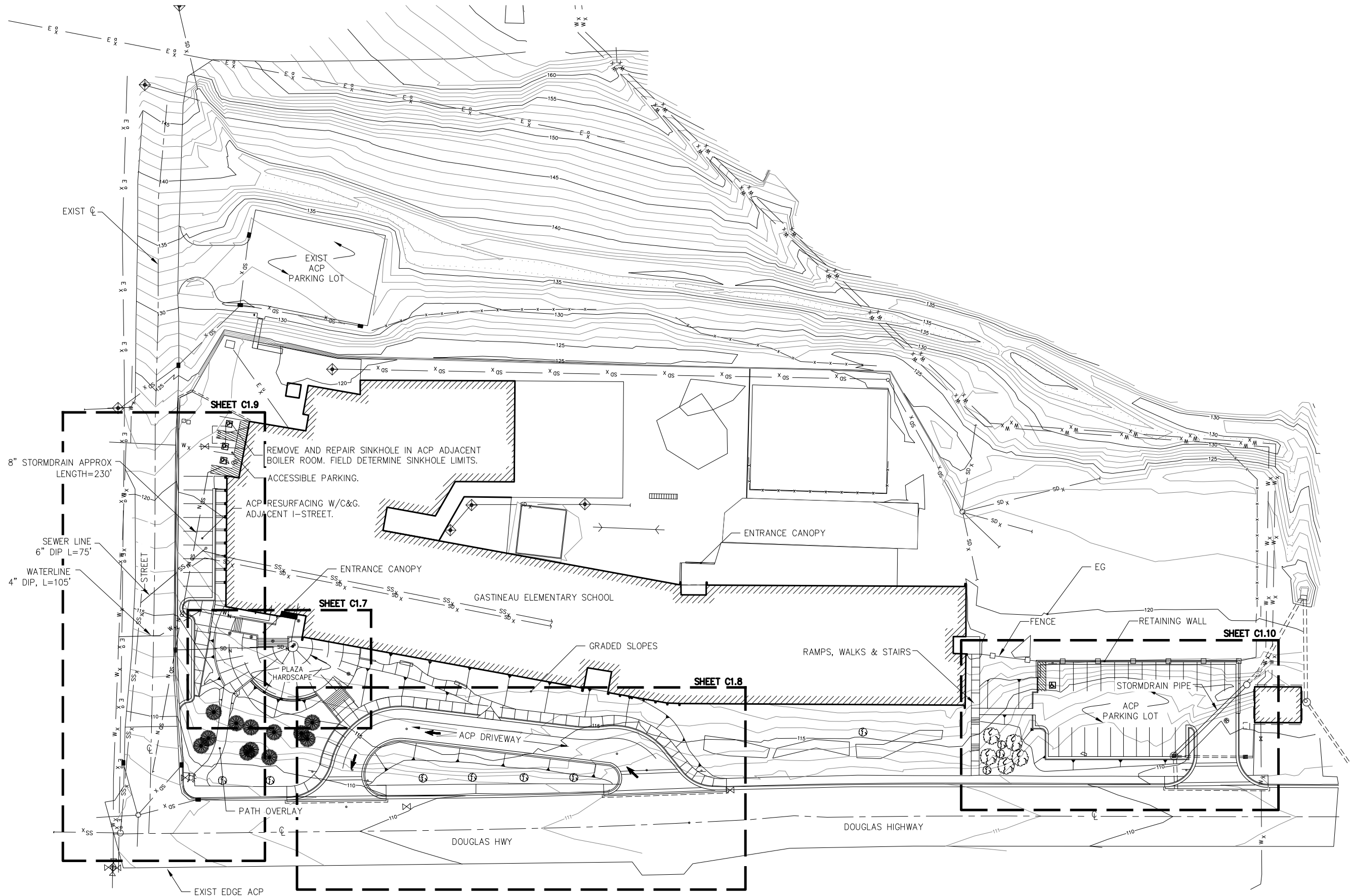
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**GASTINEAU ELEMENTARY SCHOOL
RENOVATION**
CB/ Contract No. E11-157
JUNEAU, ALASKA

SHEET TITLE:
**MAIN ENTRANCE
BASE BID**

DATE: NOV. 15, 2010
REVISION:
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SHEET #
C1.5



- NOTES:
1. SITE UTILITIES IMPROVEMENTS LENGTHS AND LOCATIONS ARE GIVEN APPROXIMATE.
 2. REMOVE AND REPLACE CONCRETE CURB AND GUTTER & ACP SURFACING ON I-STREET TO MATCH EXISTING CONDITIONS IN CONJUNCTION W/WATER, SEWER AND STORMDRAIN UTILITIES REPLACEMENT.

1

SITE PLAN
ADDITIVE ALTERNATE

SCALE IN FEET
0 30 60 FT.



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WWW.NORTHWINDARCH.COM

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Juneau, Alaska 99801
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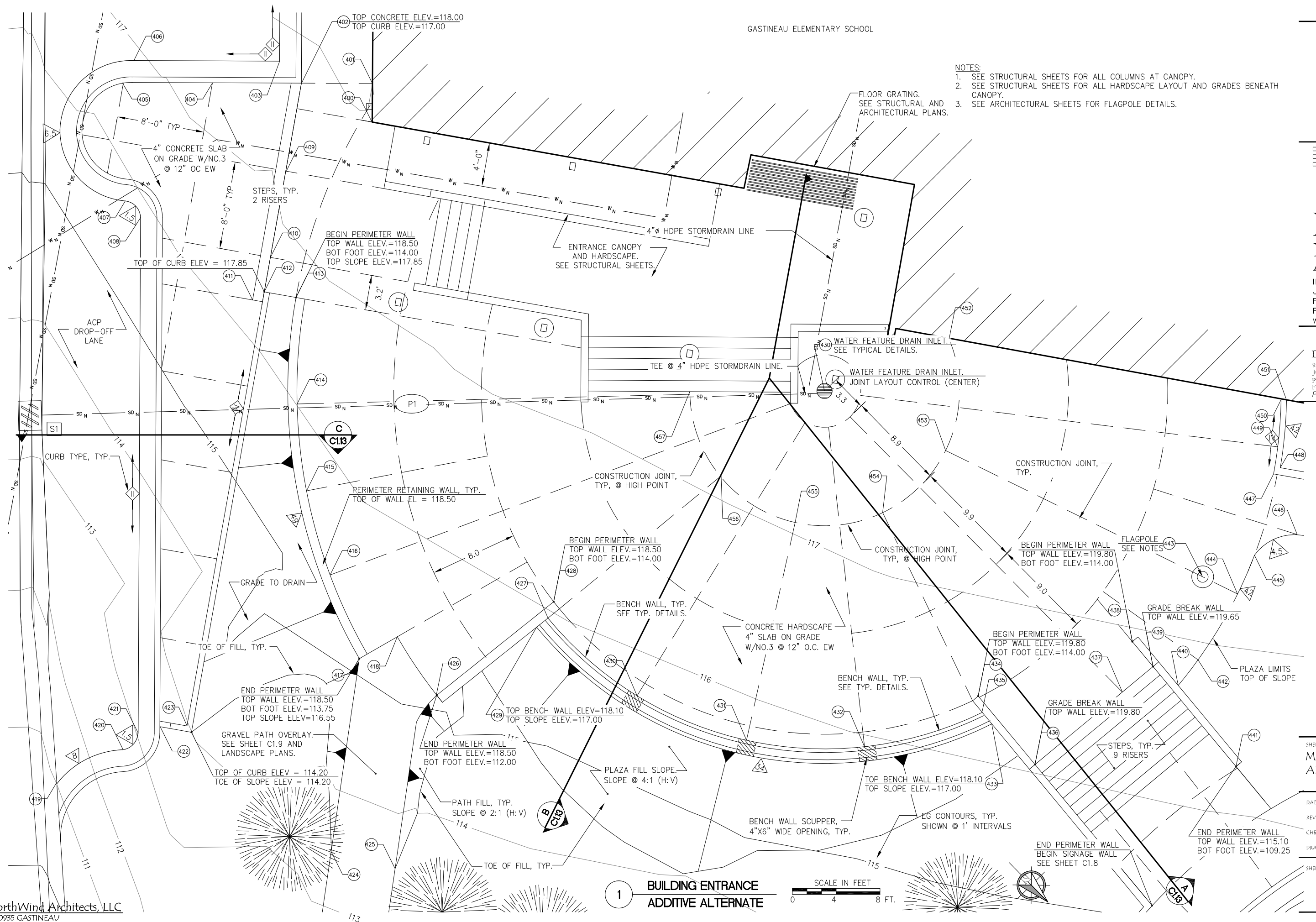
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RENOVATION
CBJ Contract No. E11-157
JUNEAU, ALASKA

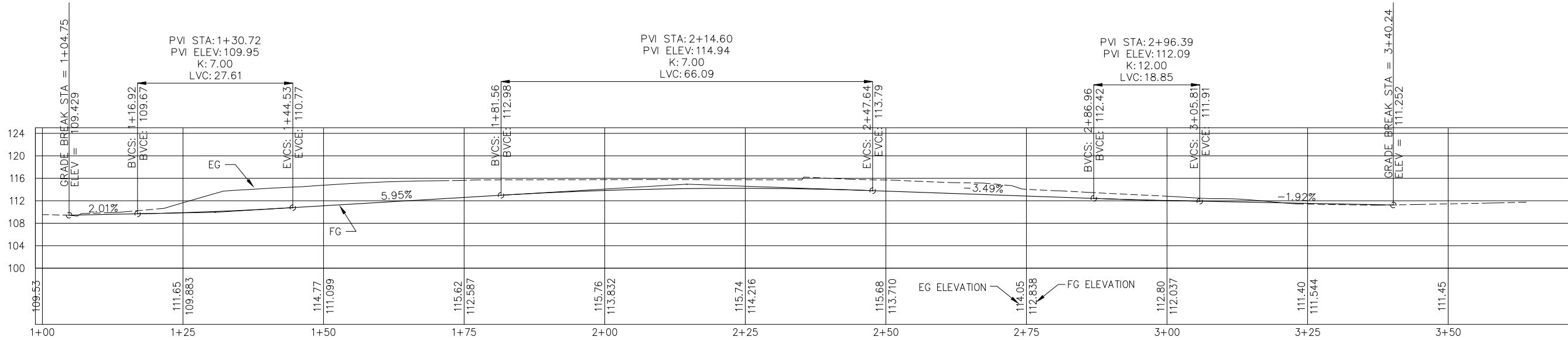
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SITE PLAN
ADD. ALTERNATE

DATE: NOV. 15, 2010
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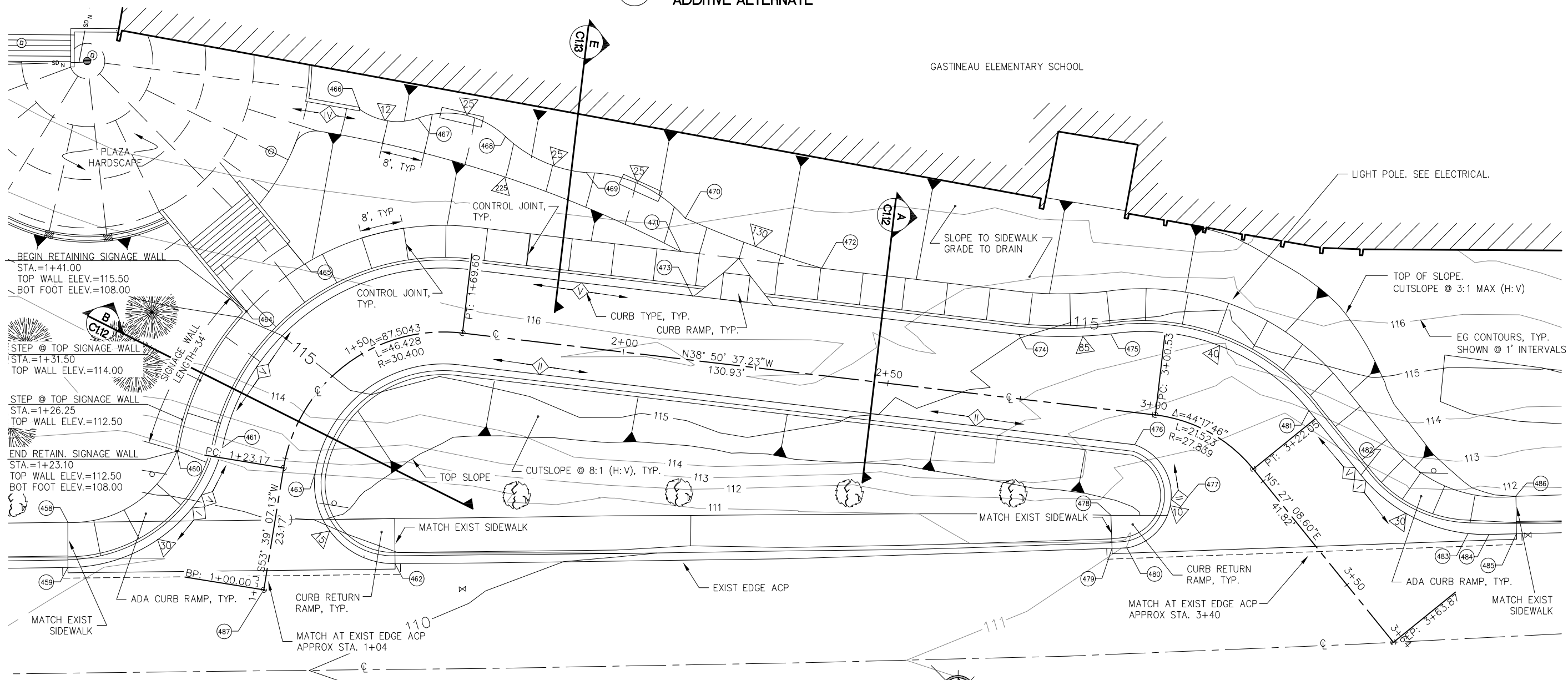
C1.6





1 DRIVEWAY PROFILE
ADDITIVE ALTERNATE

SCALE IN FEET
0 10 20 FT.



2 DRIVEWAY PLAN
ADDITIVE ALTERNATE

SCALE IN FEET
0 10 20 FT.



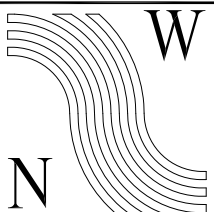
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PH #907.586.6150
FX #907.586.6181
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9360 Glacier Highway, Ste 100
Juneau, Alaska 99801
Phone: 907.586.2093
Fax: 907.586.2099
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RENOVATION**
CBJ Contract No. E11-137
JUNEAU, ALASKA

SHEET TITLE:
**DRIVEWAY
PLAN & PROFILE
ADD. ALTERNATE**
DATE: NOV. 15, 2010
REVISION:
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C1.8

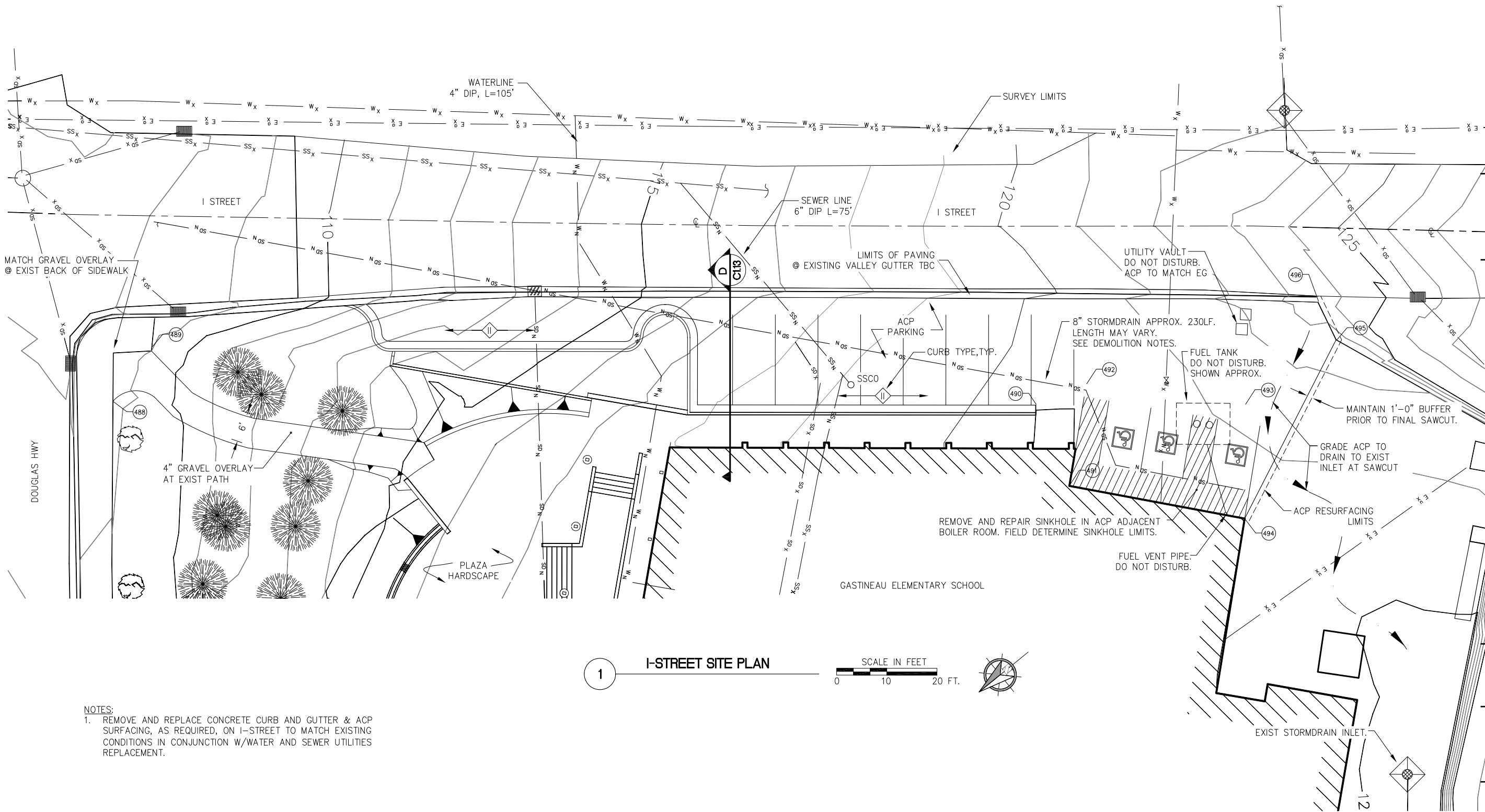


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Juneau, Alaska 99801
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RENOVATION
CBJ Contract No. E11-157
JUNEAU, ALASKA



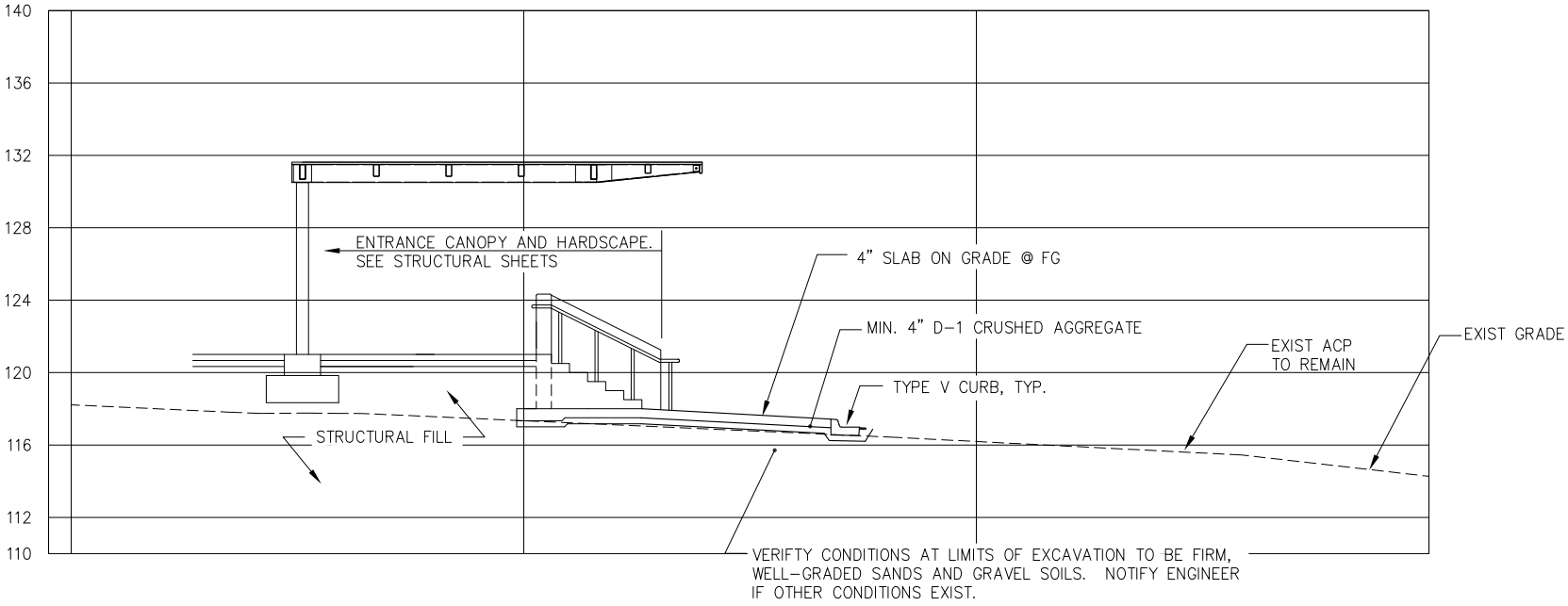
1 I-STREET SITE PLAN

SCALE IN FEET
0 10 20 FT.

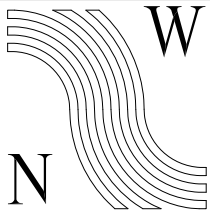
NOTES:
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SHEET TITLE:	
I-STREET ADD. ALTERNATE	
DATE:	NOV. 15, 2010
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C1.9



A TYPICAL SECTION
BASE BID



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FX #907.586.6181
WWW.NORTHWINDARCH.COM



9360 Glacier Highway, Ste 100
Juneau, Alaska 99801
Phone: 907.586.2093
Fax: 907.586.2099
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SHEET TITLE:

**TYPICAL SECTIONS
BASE BID**

DATE: **NOV. 15, 2010**

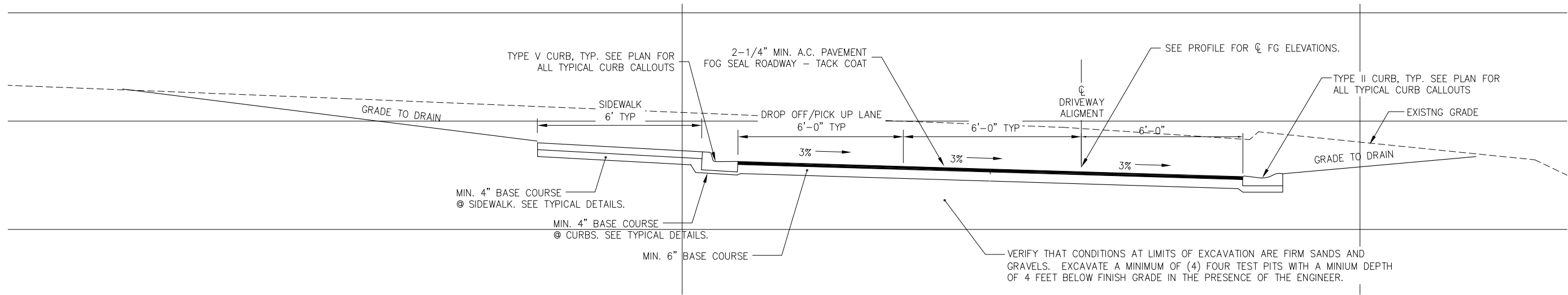
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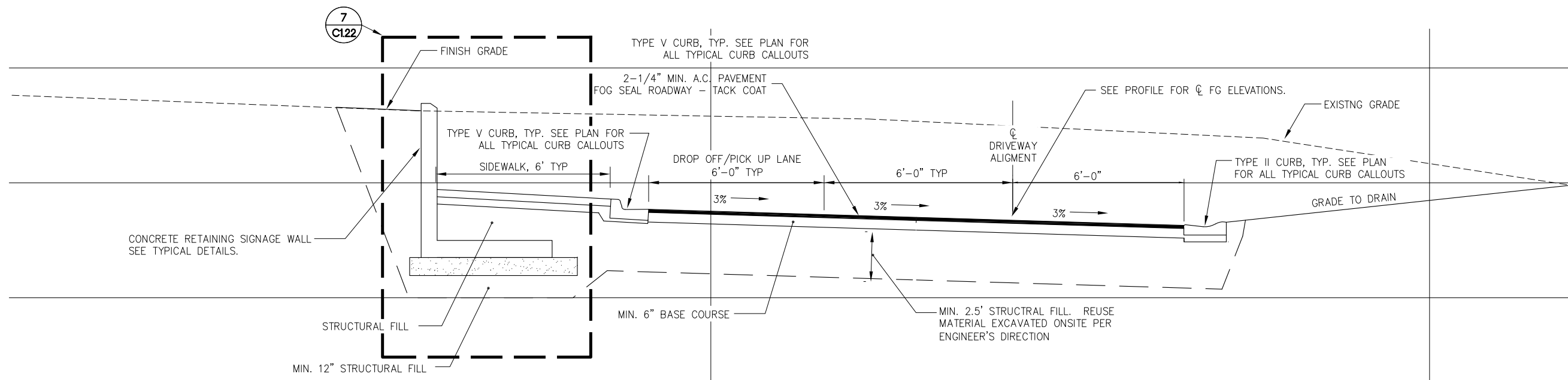
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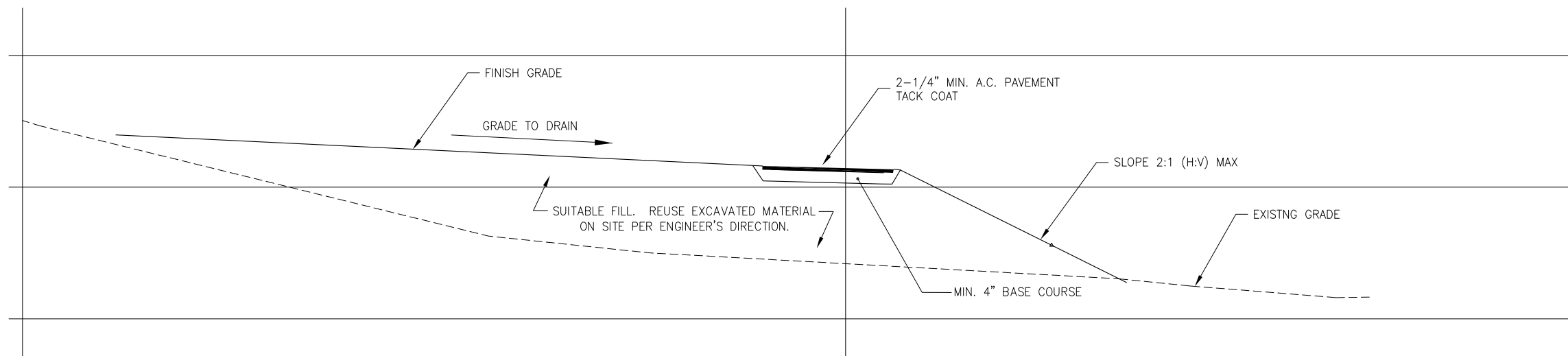
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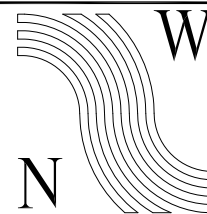
A DRIVEWAY
TYPICAL SECTION



B DRIVEWAY
TYPICAL SECTION



C NORTH PARKING
TYPICAL SECTION



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PH #907.586.6150
FX #907.586.6181
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ENGINEERS, INC.**
9360 Glacier Highway, Ste 100
Juneau, Alaska 99801
Phone: 907.586.2093
Fax: 907.586.2099
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RENOVATION

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SHEET TITLE:
**TYPICAL SECTIONS
ADD. ALTERNATE**

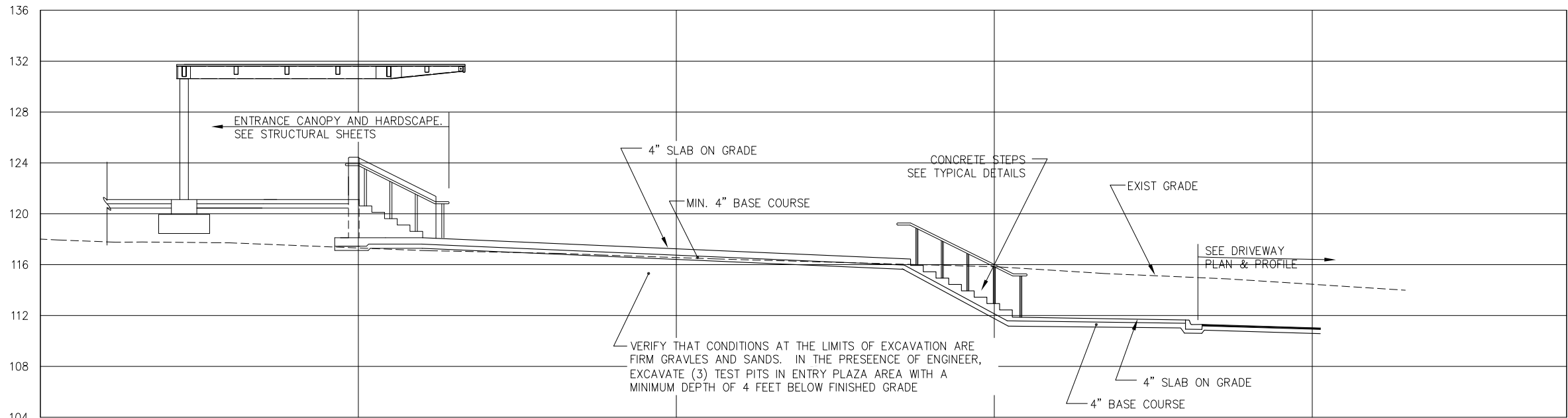
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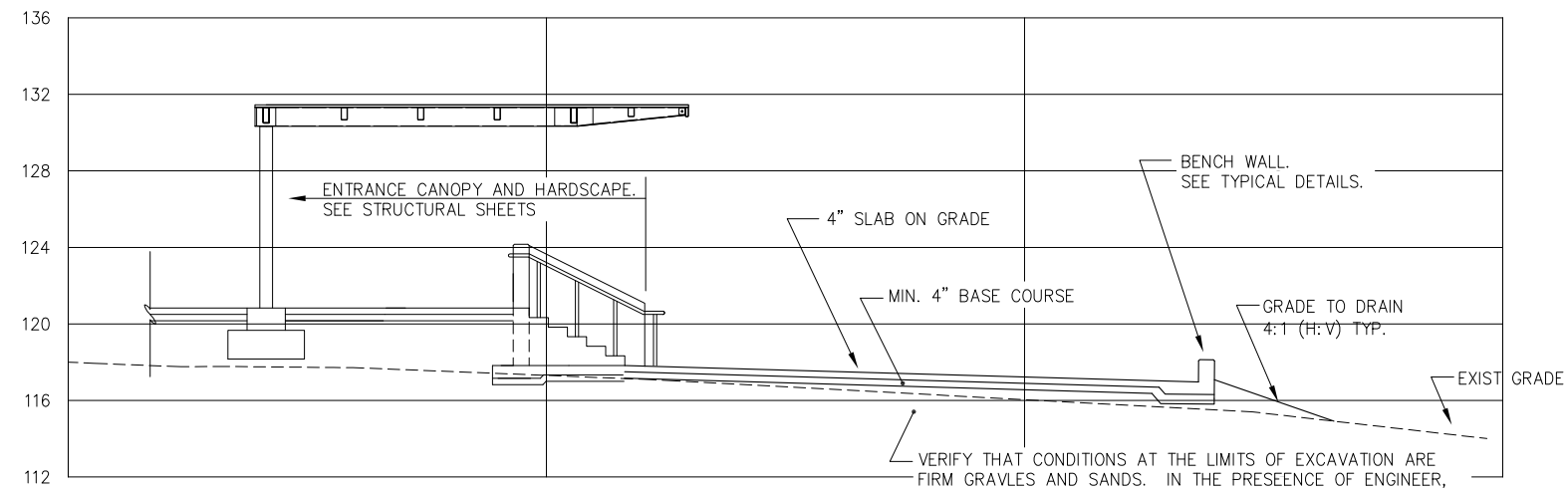
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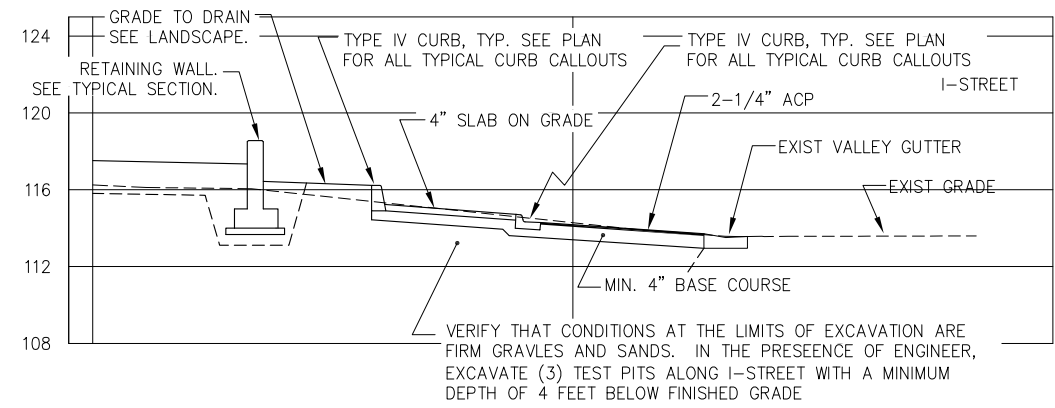
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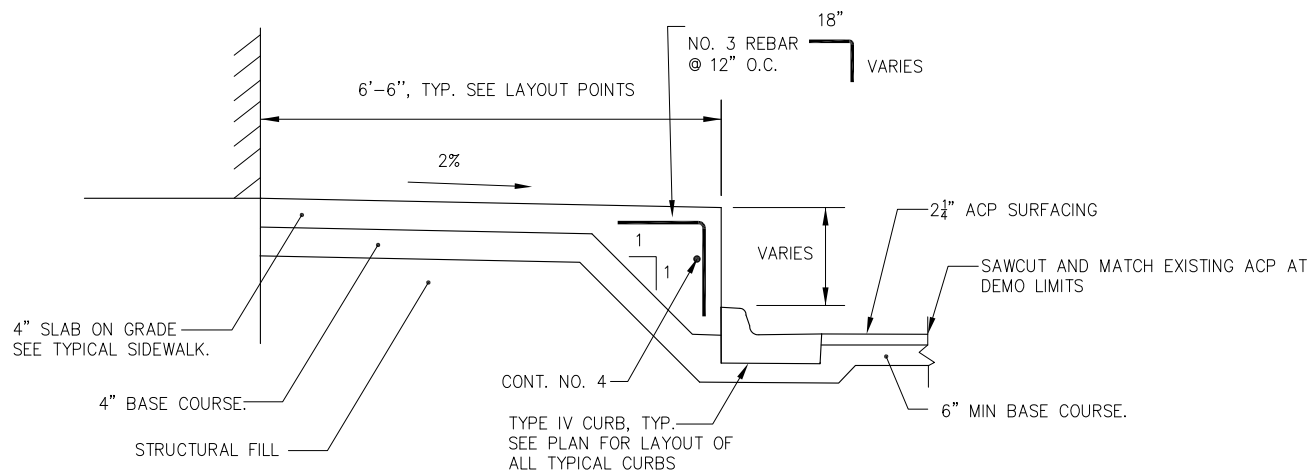
A TYPICAL SECTION
ADDITIVE ALTERNATE



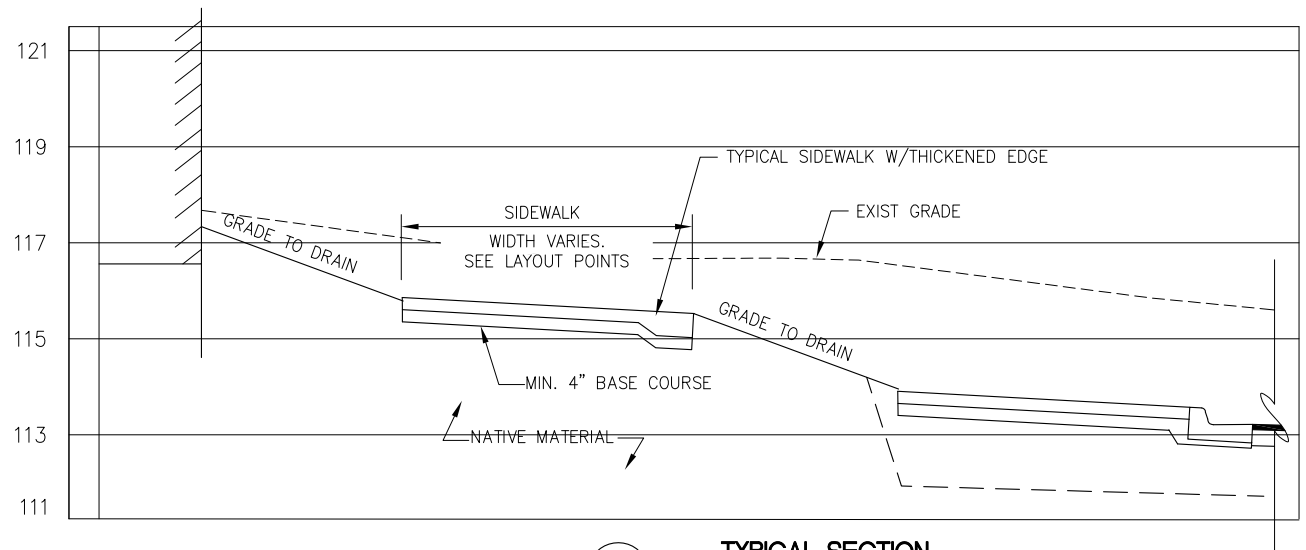
B TYPICAL SECTION
ADDITIVE ALTERNATE



C TYPICAL SECTION
ADDITIVE ALTERNATE



D TYPICAL SECTION
ADDITIVE ALTERNATE



E TYPICAL SECTION
ADDITIVE ALTERNATE



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ENGINEERS, INC.
9360 Glacier Highway, Ste 100
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GASTINEAU ELEMENTARY SCHOOL

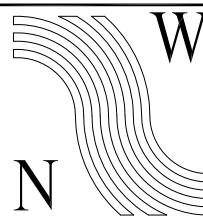
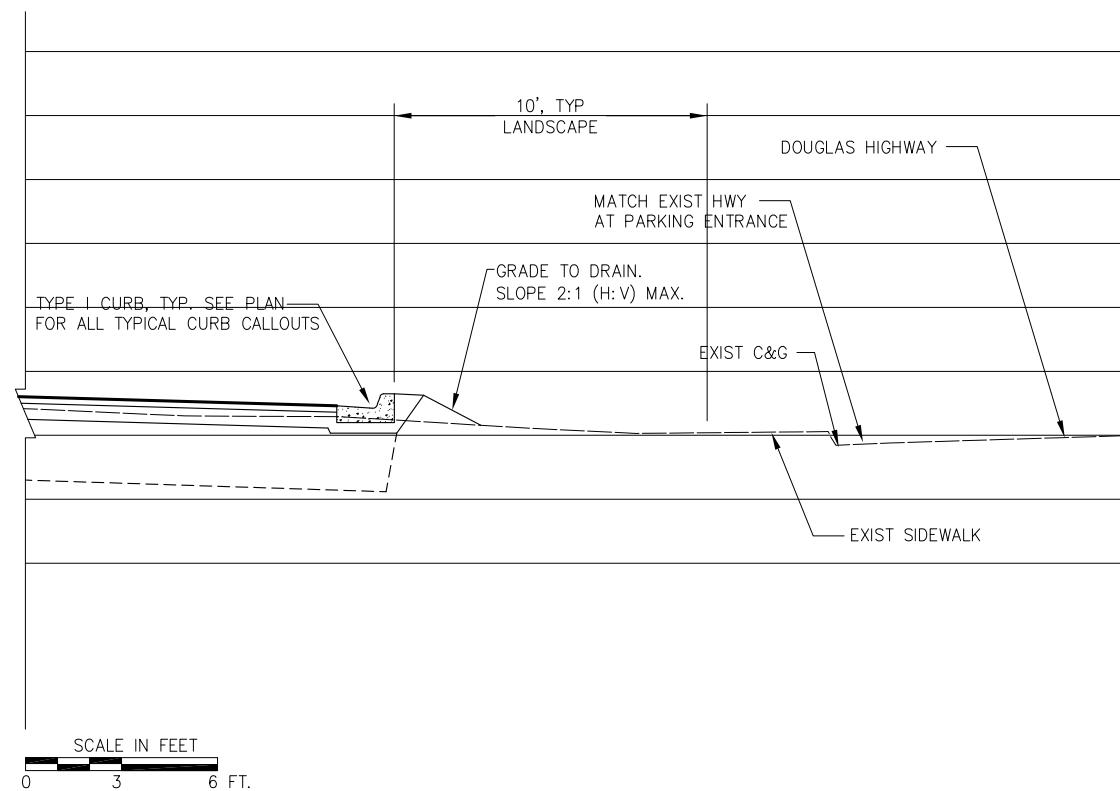
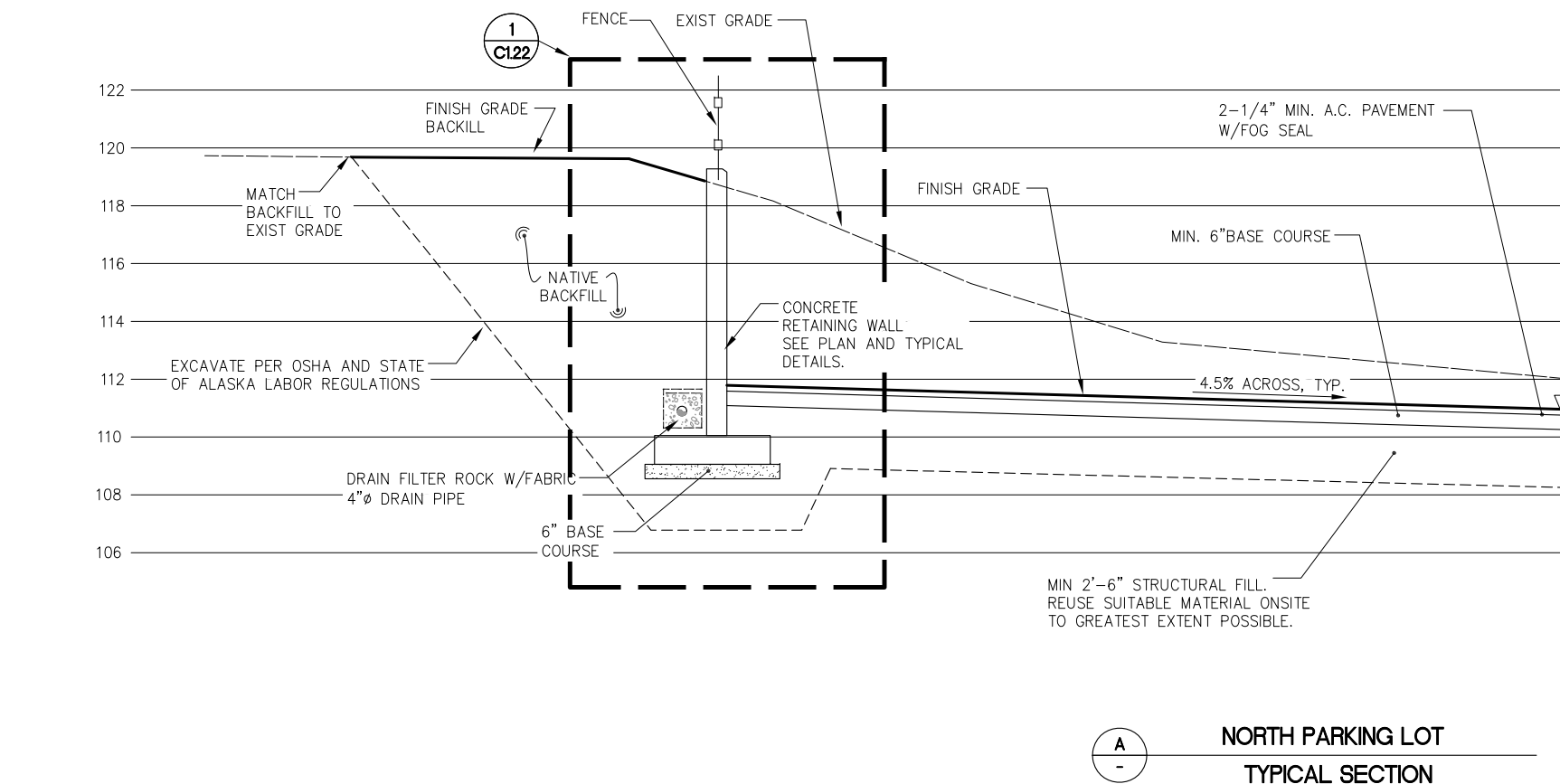
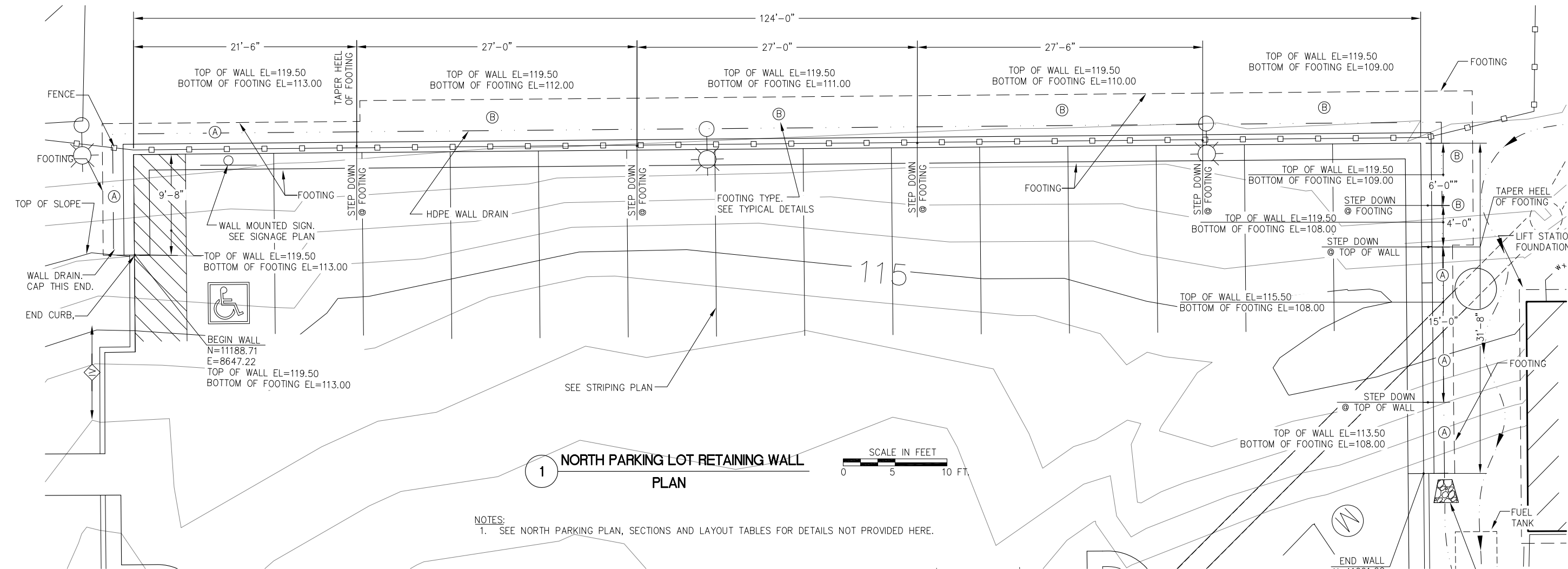
RENOVATION

CBJ Contract No. E11-157
JUNEAU, ALASKA

SHEET TITLE:
TYPICAL SECTIONS
ADD. ALTERNATE

DATE: NOV. 15, 2010
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PH #907.586.6150
FX #907.586.6181
WWW.NORTHWINDARCH.COM

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ENGINEERS, INC.
9360 Glacier Highway, Ste 100
Juneau, Alaska 99801
Phone: 907.586.2093
Fax: 907.586.2099
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RENOVATION**
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SHEET TITLE:
**NORTH PARKING
RETAINING WALL
ADD. ALTERNATE**

DATE: **NOV. 15, 2010**

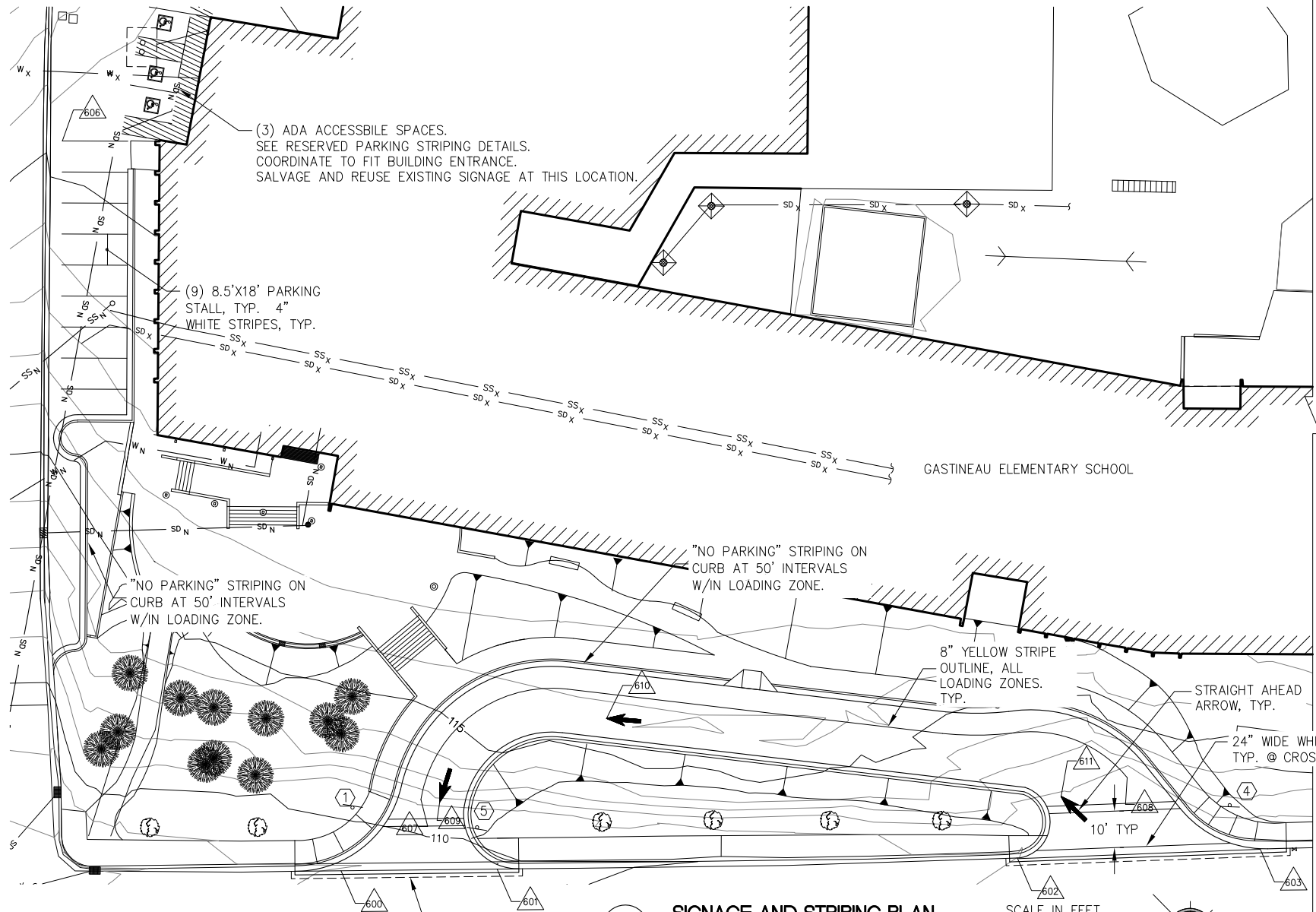
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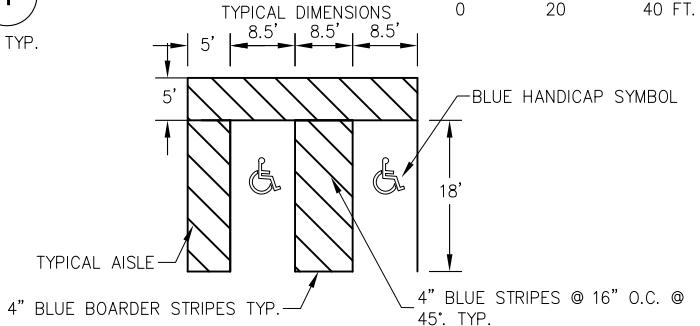
SHEET #

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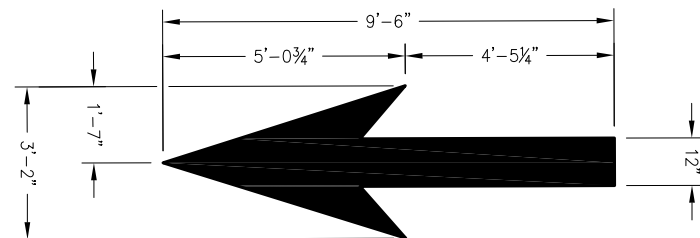


SIGNING SCHEDULE					
SIGN NO.	* CODE NO.	DESCRIPTION	QTY.	SIGN SIZE (INCH)	POST SIZE (INCH)
① ②	R1-1	STOP SIGN	1 EA	30 x 30	2.0 O.D., TYP.
③	R7-8	RESERVED PARKING	1 EA	12 x 18	WALL MOUNTED
④	R15-8	SPEED LIMIT	1 EA	24 x 30	2.0 O.D., TYP.
⑤	R25-7	DO NOT ENTER	1 EA	24 x 30	2.0 O.D., TYP.
* CODES FROM U.S. DOT FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).					

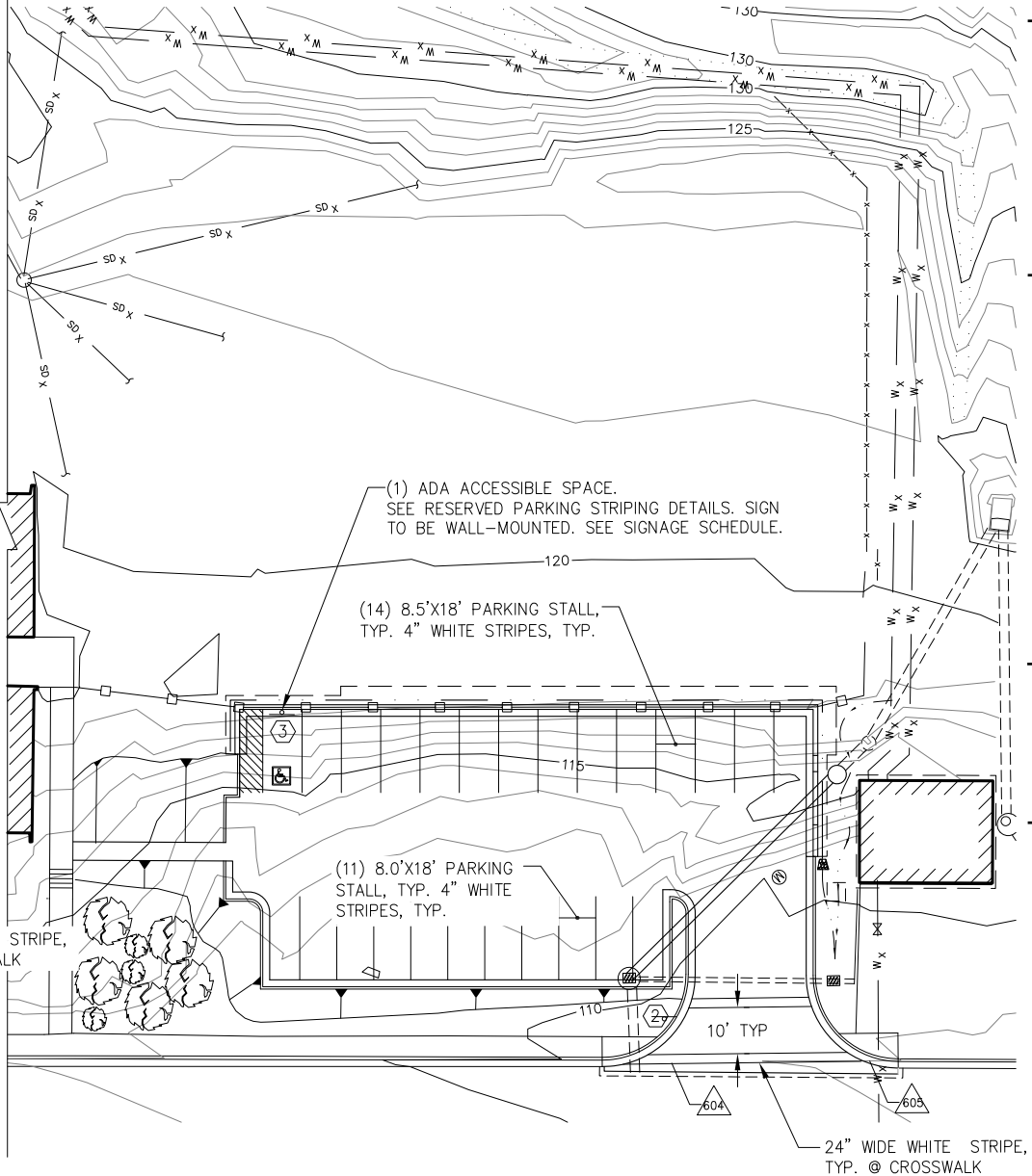
2 SIGNAGE SCHEDULE



3 RESERVED PARKING STRIPING DETAILS



4 STRAIGHT AHEAD ARROW



STRIPING LAYOUT

POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
600	10086.64	10139.72	--	CROSSWALK STRIPING
601	9963.44	10032.45	--	CROSSWALK STRIPING
602	9981.76	10146.93	--	CROSSWALK STRIPING
603	9924.64	10195.93	--	CROSSWALK STRIPING
604	9867.89	10246.15	--	CROSSWALK STRIPING
605	9811.92	10294.89	--	CROSSWALK STRIPING
606	9755.56	10344.44	--	END PARKING STRIPING
607	9699.20	10393.86	--	END LOADING ZONE. SEE NOTE 1.
608	9534.98	10468.41	--	BEGIN LOADING ZONE SEE NOTE 1
609	9533.25	10447.60	--	STRAIGHT AHEAD ARROW (TIP)
610	9542.09	10426.30	--	STRAIGHT AHEAD ARROW (TIP)
611	9630.80	10310.57	--	STRAIGHT AHEAD ARROW (TIP)

NOTE:
1. SEE TYPICAL DRIVEWAY PLAN & SECTIONS FOR STRIPING LINE AND CURVE LAYOUT AT LOADING ZONE.

5 STRIPING SCHEDULE



NorthWind Architects LLC

119A 2ND ST.
JUNEAU, AK 99801
PH #907.586.6150
FX #907.586.6181
WWW.NORTHWINDARCH.COM

P N D
ENGINEERS, INC.
9360 Glacier Highway, Ste 100
Juneau, Alaska 99801
Phone: 907.586.2093
Fax: 907.586.2099
PND # 092078

GASTINEAU ELEMENTARY SCHOOL

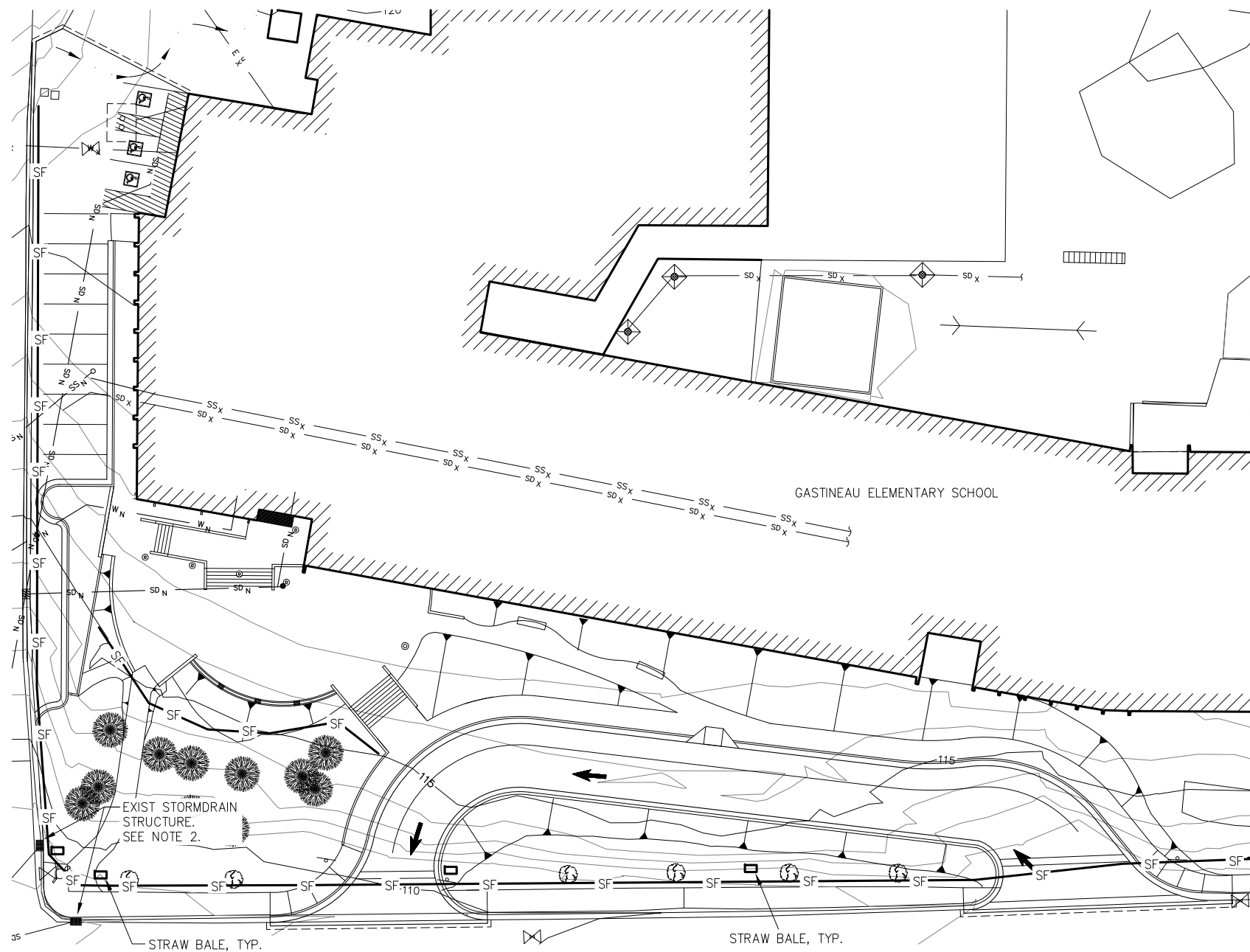
RENOVATION

CBJ Contract No. E11-157
JUNEAU, ALASKA

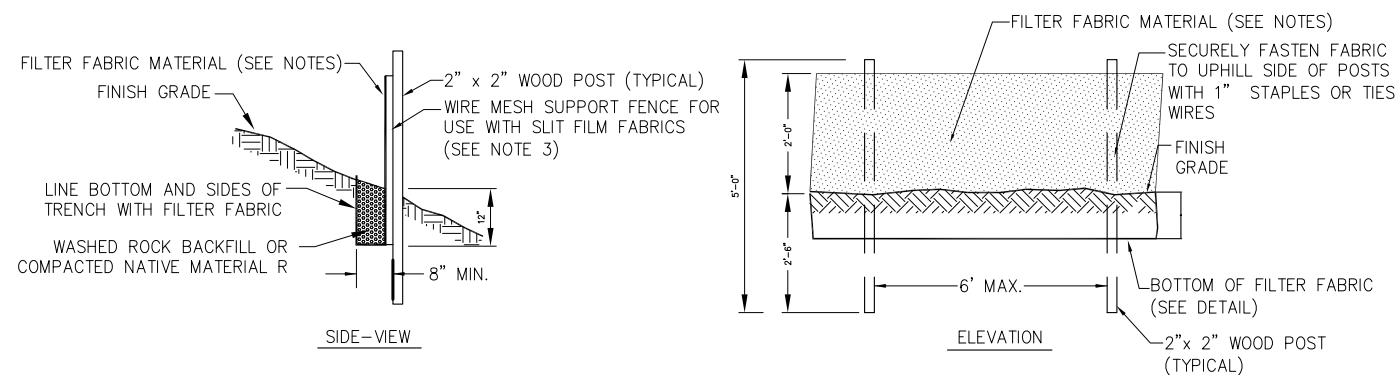
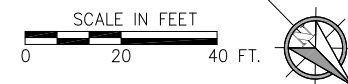
SHEET TITLE:
STRIPING AND
SIGNAGE PLAN
ADD. ALTERNATE

DATE: NOV. 15, 2010
REVISION:
CHECKED BY: CMG
DRAWN: NAM

SHEET #
C1.15



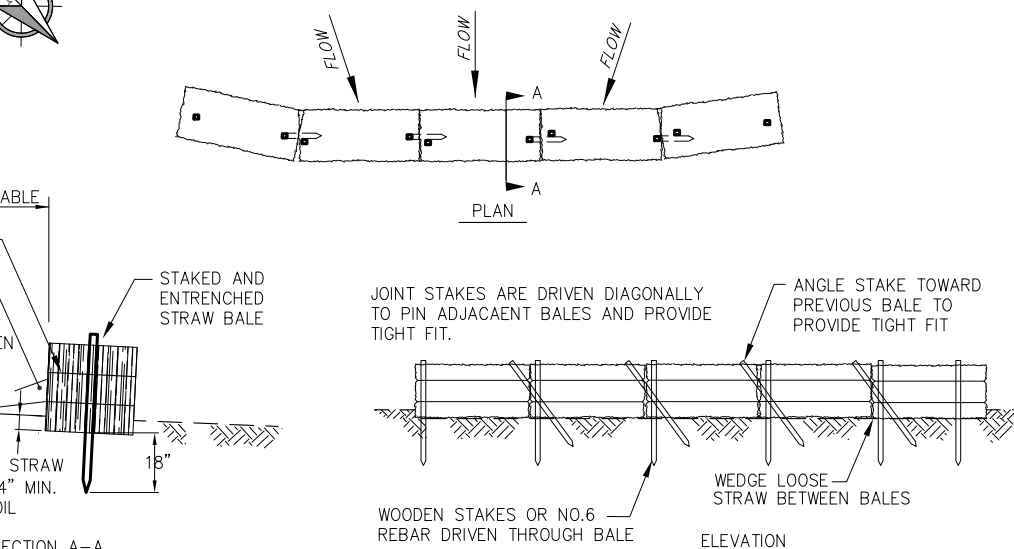
1 EROSION CONTROL PLAN



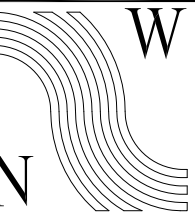
NOTES:

1. FILTER FABRIC SHALL BE CUT FROM A CONTINUOUS ROLL OF FABRIC. JOINTS SHALL BE KEPT TO A MINIMUM. JOINTS SHALL BE AT SUPPORT POSTS WITH A MINIMUM OF 6" OVERLAP.
2. FILTER FABRIC FENCE SHALL BE REMOVED AFTER UPSLOPE HAS BEEN STABILIZED. RETAINED MATERIALS SHALL BE REMOVED FROM SITE AND PROPERLY DISPOSED OF.

2 SILT FENCE



3 STRAW BALE



NorthWind Architects LLC

119A 2ND ST.
JUNEAU, AK 99801
PH #907.586.6150
FX #907.586.6181
WWW.NORTHWINDARCH.COM

PND ENGINEERS, INC.
9360 Glacier Highway, Ste 100
Juneau, Alaska 99801
Phone: 907.586.2093
Fax: 907.586.2099
PND # 092078

**GASTINEAU ELEMENTARY SCHOOL
RENOVATION**
CB/ Contract No. E11-157
JUNEAU, ALASKA

SHEET TITLE:
**EROSION & SEDIMENT
CONTROL PLAN
ADD. ALTERNATE**

DATE: **NOV. 15, 2010**

REVISION:

CHECKED BY: **CMG**

DRAWN: **NAM**

SHEET #

C1.16

SITE DEMOLITION SUMMARY-BASE BID

POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
100	10864.46'	8946.25'	EXIST	CORNER ACP
101	10874.36'	8959.62'	EXIST	CORNER ACP
102	10842.99'	8986.19'	EXIST	CORNER ACP
103	10826.44'	8997.99'	EXIST	CORNER ACP
104	10818.75'	8998.26'	EXIST	CORNER ACP
105	10748.93'	8929.05'	EXIST	CORNER ACP/CONCRETE STOOP
106	10754.77'	8924.02'	EXIST	CORNER ACP/CONCRETE STOOP

SITE LAYOUT SUMMARY-BASE BID

POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
200	10749.38'	8928.65'	MATCH EXIST	CORNER ACP AT CONCRETE STOOP
201	10801.99'	8977.98'	118.05	CONTROL JOINT/TBC
202	10806.09'	8975.06'	118.15	CORNER CONCRETE/CONTROL JOINT
203	10806.16'	8982.11'	118.00	CONTROL JOINT/TBC
204	10811.93'	8987.83'	117.60	CONTROL JOINT/TBC
205	10817.42'	8996.09'	MATCH EXIST	PC ACP/GUTTER. NOTE: TBC ELEV = 117.00
206	10824.03'	8997.91'	MATCH EXIST	CORNER LOADING ZONE STRIPING
207	10826.42'	8996.81'	MATCH EXIST	PT ACP/GUTTER. NOTE: TBC ELEV = 116.75
208	10840.44'	8986.79'	MATCH EXIST	SPEEDBUMP. SEE TYPICAL DETAILS.
209	10842.41'	8985.38'	MATCH EXIST	PI ACP/GUTTER
210	10844.01'	8971.52'	117.55	CONCRETE CONTROL JOINT/GRADE BREAK
211	8974.94'	10851.64'	117.50	CONCRETE CONTROL JOINT/GRADE BREAK
212	10857.38'	8972.69'	MATCH EXIST	SPEEDBUMP. SEE TYPICAL DETAILS.
213	10864.69'	8963.88'	117.50	CONCRETE CONTROL JOINT/GRADE BREAK
214	10856.92'	8951.34'	117.70	CONCRETE CONTROL JOINT/GRADE BREAK
215	10863.54'	8946.66'	MATCH EXIST	CORNER CONCRETE
216	10871.81'	8957.85'	MATCH EXIST	TBC
217	10872.97'	8959.49'	MATCH EXIST	SPEED BUMP. SEE TYPICAL DETAILS.
218	10887.96'	8979.73'	MATCH EXIST	SPEED BUMP. SEE TYPICAL DETAILS.
219	10871.58'	8991.86'	MATCH EXIST	SPEED BUMP. SEE TYPICAL DETAILS.
220	10853.90'	9004.95'	MATCH EXIST	SPEED BUMP. SEE TYPICAL DETAILS.
221	10832.27'	9020.96'	MATCH EXIST	CORNER LOADING ZONE STRIPING
222	10829.51'	9009.38'	MATCH EXIST	CORNER LOADING ZONE STRIPING
223	10852.52'	8962.75'	117.25	RIM ELEV. WATER FEATURE. SEE NOTE 1.
224	10869.22'	8958.22'	—	BOLLARD. SEE NOTE 2.
225	10859.10'	8966.79'	—	BOLLARD. SEE NOTE 2.
226	10848.72'	8975.59'	—	BOLLARD. SEE NOTE 2.

NOTE:

1. USE ADS NYLOPLAST INLINE DRAIN OR COMPARABLE. SEE TYPICAL DETAILS.
SEE ARCHITECTURAL SHEETS FOR ORNAMENTAL GRATE DETAILS.
2. SEE ARCHITECTURAL SHEETS FOR TYPICAL BOLLARD DETAILS.

STORM DRAIN PIPE SUMMARY

PIPE NO.	DIA (IN)	TYPE	LENGTH (FT)	FROM	PIPE I.E.	TO	PIPE I.E.	REMARKS
P1	4"	HDPE	75	WF	FIELD DET.	S1	FIELD DET.	SEE NOTE 1

CPP = CORRUGATED POLYETHYLENE PIPE
S = SMOOTH INNER WALL
HDPE = HIGH DENSITY POLYETHYLENE PIPE
WF = WATER FEATURE

NOTES
1. FIELD DETERMINE INVERT ELEVATIONS AND EXISTING 8" STORMDRAIN AT I-STREET.
RUN 4"Ø HDPE BENEATH STRUCTURAL FOOTINGS AT ENTRANCE PLAZA STAIRCASE.

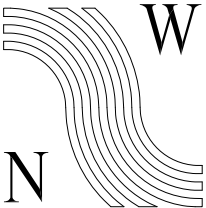
STORM DRAIN STRUCTURE SUMMARY

STRUCTURE NO.	TYPE	CASTING	NORTHING	EASTING	RIM EL.	REMARKS
S1	CB, TYPE III	CBFTI	10803.5	9016.00	113.25	FIELD DETERMINE. SEE NOTE 1

CB = CATCH BASIN
FTI = FRAME AND TOP INTAKE

SDMH = STORMDRAIN MANHOLE
MHFSL = MANHOLE FRAME W/SOLID LID

NOTES
1. FIELD DETERMINE STRUCTURE LOCATION AND DEPTH BASED ON FIELD DETERMINED LOCATION OF EXISTING 8" STORMDRAIN LINE. MATCH STRUCTURE RIM AT EXISTING VALLEY GUTTER AS REQ'D.



NorthWind
Architects LLC

119A 2ND ST.
JUNEAU, AK 99801
PH #907.586.6150
FX #907.586.6181
WWW.NORTHWINDARCH.COM

P N D
ENGINEERS, INC.
9360 Glacier Highway, Ste 100
Juneau, Alaska 99801
Phone: 907.586.2093
Fax: 907.586.2099
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GASTINEAU ELEMENTARY SCHOOL

RENOVATION

CB/ Contract No. E11-157
JUNEAU, ALASKA

SHEET TITLE:
LAYOUT SUMMARY
TABLES
BASEBID

DATE: NOV. 15, 2010
REVISION:
CHECKED BY: CMG
DRAWN: NAM

SHEET #
C1.17

SITE DEMOLITION SUMMARY-ADDITIVE ALTERNATE

<i>POINT</i>	<i>NORTHING</i>	<i>EASTING</i>	<i>ELEV.</i>	<i>DESCRIPTION</i>
300	10734.53'	8884.46'	EXIST	CORNER ACP
301	10696.53'	8897.02'	EXIST	CORNER ACP
302	10693.84'	8904.88'	EXIST	CORNER ACP
303	10816.30'	9026.32'	EXIST	CORNER ACP
304	10917.87'	9031.84'	EXIST	CORNER C&G
305	10960.32'	8987.48'	EXIST	CORNER C&G
306	11052.43'	8889.37'	EXIST	CORNER C&G
307	11054.48'	8886.84'	EXIST	CORNER ACP
308	11103.60'	8833.23'	EXIST	CORNER C&G/CORNER ACP
309	11202.43'	8719.87'	EXIST	CORNER ACP SIDEWALK/CONCRETE SIDEWALK
310	11207.37'	8712.90'	EXIST	CORNER CLEAR AND GRUB
311	11291.88'	8638.61'	EXIST	CORNER C&G
312	11336.30'	8593.60'	EXIST	CORNER C&G
313	11318.80'	8598.55'	EXIST	CORNER CLEAR AND GRUB
314	11267.55'	8535.69'	EXIST	FENCE DEMO LIMITS
315	11271.44'	8552.01'	EXIST	CORNER CLEAR AND GRUB
316	11184.16'	8640.79'	EXIST	CORNER CLEAR AND GRUB
317	11195.53'	8651.04'	EXIST	CORNER CLEAR AND GRUB
318	11171.16'	8676.97'	EXIST	CORNER CLEAR AND GRUB
319	11153.32'	8662.17'	EXIST	DEMO FENCE
320	11146.35'	8655.80'	EXIST	CORNER CONCRETE
321	11137.85'	8616.89'	EXIST	FENCE DEMO LIMITS

DRIVEWAY LAYOUT-ADDITIVE ALTERNATE

<i>POINT</i>	<i>STATION</i>	<i>OFFSET</i>	<i>ELEV.</i>	<i>DESCRIPTION</i>
458	1+06.60	38.30 LT	MATCH EXIST	PC, CORNER BACK OF SIDEWALK
460	1+23.13	20.00 LT	SEE NOTE 1	PRC, BACK OF SIDEWALK @ RETAINING WALL
461	1+24.50	12.00 LT	SEE NOTE 1	PRC ACP,
462	1+08.75	23.50 RT	MATCH EXIST	PC ACP
463	1+23.50	6.00 RT	SEE NOTE 1	PCC ACP
464	1+41.00	20.00 LT	SEE NOTE 1	BACK OF SIDEWALK @ CORNER RETAINING WALL
465	1+49.47	20.00 LT	SEE NOTE 1	BACK OF SIDEWALK @ CORNER CONCRETE
473	2+12.00	12.00 LT	SEE NOTE 1	BEGIN CURB CUT, ACP
474	2+73.30	12.00 LT	SEE NOTE 1	PC ACP
475	2+90.46	14.12 LT	SEE NOTE 1	PRC ACP
476	2+97.30	6.00 RT	SEE NOTE 1	PC ACP
477	3+10.78	14.50 RT	SEE NOTE 1	TRANSITION CURB TYPE, ACP
478	2+94.47	19.67 RT	MATCH EXIST	CORNER BACK OF SIDEWALK
479	2+95.40	25.81 RT	MATCH EXIST	CORNER ACP
480	2+98.14	25.40 RT	MATCH EXIST	PT ACP
481	3+20.78	15.05 LT	SEE NOTE 1	PT ACP
482	3+35.66	15.00 LT	SEE NOTE 1	PC ACP, TRANSITION CURB TYPIE
483	3+56.14	23.08 LT	111.30	BEGIN CURB CUT, ACP
484	3+59.43	26.70 LT	111.35	PT ACP
485	3+62.57	30.77 LT	MATCH EXIST	CORNER ACP
486	3+57.12	35.65 LT	MATCH EXIST	CORNER BACK OF SIDEWALK
487	1+00.00	0.00	SEE NOTE 2	CENTERLINE DRIVEWAY ALIGNMENT

NOTES:
1. SEE DRIVEWAY PROFILE AND TYPICAL SECTIONS FOR DRIVEWAY ELEVATIONS.

STORM DRAIN PIPE SUMMARY

<i>PIPE NO.</i>	<i>DIA (IN)</i>	<i>TYPE</i>	<i>LENGTH (FT)</i>	<i>FROM</i>	<i>PIPE I.E.</i>	<i>TO</i>	<i>PIPE I.E.</i>	<i>REMARKS</i>
P1	4"	HDPE	75	WF	FIELD DET.	S1	FIELD DET.	SEE NOTE 1
P2	24	CPP–S	75	S1	105.50	S2	102.15	REMOVE EXIST CMP

CPP = CORRUGATED POLYETHYLENE PIPE
S = SMOOTH INNER WALL
HDPE = HIGH DENSITY POLYETHYLENE PIPE
WF = WATER FEATURE

NOTES
1. FIELD DETERMINE INVERT ELEVATIONS AND EXISTING 8" STORMDRAIN AT I–STREET.
RUN 4"Ø HDPE BENEATH STRUCTURAL FOOTINGS AT ENTRANCE PLAZA STAIRCASE.

SITE LAYOUT-ADDITIVE ALTERNATE

<i>POINT</i>	<i>NORTHING</i>	<i>EASTING</i>	<i>ELEV.</i>	<i>DESCRIPTION</i>
400	10806.09'	8975.06'	118.15	CORNER CONCRETE @ BLDG
401	10803.60'	8972.56'	118.10	GRADE BREAK CONCRETE
402	10799.04'	8977.18'	118.00	CORNER CONCRETE
403	10796.20'	8977.20'	116.50	CORNER ACP
404	10793.32'	8982.96'	116.80	CONTROL JOINT, TBC
405	10787.65'	8988.78'	116.50	CONTROL JOINT, TBC
406	10786.86'	8986.66'	116.00	PC ACP
407	10795.47'	8996.19'	115.50	PRC ACP
408	10797.53'	8996.27'	115.45	PT ACP
409	10803.76'	8983.82'	117.95	CONTROL JOINT, TOP OF STEPS
410	10808.41'	8990.34'	117.90	CONTROL JOINT, STOP OF STEPS
411	10810.05'	8994.22'	116.85	CORNER, BOTTOM OF STEPS
412	10810.26'	8992.94'	117.85	CORNER CONCRETE, TOP STEPS
413	10812.66'	8991.23'	117.85	CORNER CONCRETE @ FACE OF WALL
414	10819.67'	8997.96'	117.45	CONTROL JOINT, EDGE CONCRETE
415	10825.94'	9002.90'	117.15	CONTROL JOINT, EDGE CONCRETE
416	10832.93'	9006.74'	116.80	CONTROL JOINT, EDGE CONCRETE
417	10840.25'	9010.17'	116.55	PATH OVERLAY @ FACE OF WALL
418	10841.25'	9006.30'	116.60	CORNER CONCRETETEL
419	10829.09'	9037.89'	MATCH	PC ACP @ EXIST TBC
420	10831.08'	9031.41'	112.50	PRC ACP
421	10830.98'	9029.35'	112.60	PT ACP
422	10831.96'	9027.51'	113.10	TBC @ TBC
423	10833.63'	9025.71'	113.15	CORNER CONCRETE
424	10850.94'	9024.21'	MATCH	EDGE PATH OVERLAY
425	10856.23'	9021.26'	MATCH	EDGE PATH OVERLAY
426	10847.58'	9007.46'	116.60	CORNER CONCRETE
427	10849.65'	8995.28'	116.80	CORNER CONCRETE
428	10848.95'	8993.86'	116.80	JOINT LAYOUT, CORNER CONCRETE
429	10849.52'	8996.60'	117.00	TOP SLOPE @ FACE BENCH WALL
430	10860.41'	8994.44'	116.70	CONTROL JOINT @ SCUPPER
431	10870.31'	8990.15'	116.60	CONTROL JOINT @ SCUPPER
432	10878.26'	8982.86'	116.70	CONTROL JOINT @ SCUPPER
433	10884.90'	8973.11'	117.00	TOP SLOPE @ FACE BENCH WALL
434	10882.22'	8972.22'	116.80	CORNER CONCRETE
435	10883.54'	8972.99'	116.80	CORNER CONCRETE
436	10890.32'	8972.89'	116.80	CORNER CONCRETE, TOP STEPS
437	10891.17'	8962.56'	116.65	CONTROL JOINT, TOP STEPS
438	10888.52'	8958.69'	116.70	CORNER CONCRETE, CONTROL JOINT
439	10891.47'	8958.93'	116.65	CONTROL JOINT, TOP STEPS
440	10894.31'	8958.50'	116.60	CORNER CONCRETE
441	10903.29'	8959.91'	112.10	CONTROL JOINT, CORNER WALL
442	10893.91'	8955.57'	116.60	CONTROL JOINT, TOP OF SLOPE
443	10888.79'	8949.97'	–	FLAG POLE
444	10892.14'	8948.79'	116.65	CONTROL JOINT, TOP OF SLOPE
445	10890.69'	8945.21'	116.70	PC CONCRETE
446	10892.07'	8941.10'	116.67	PCC CONCRETE
447	10886.61'	8938.77'	116.70	CORNER CONCRETE, GRADE BREAK
448	10886.63'	8937.94'	117.70	TBC
449	10885.11'	8936.77'	116.73	CONTROL JOINT
450	10882.19'	8933.48'	116.80	CORNER CONCRETE
451	10882.61'	8933.19'	117.80	TBC
452	10857.08'	8951.31'	117.60	CONSTRUCTION JOINT, HIGH POINT
453	10864.13'	8958.66'	117.55	CONSTRUCTION JOINT, HIGH POINT

SITE LAYOUT-ADD. ALTERNATE (CONT'D)

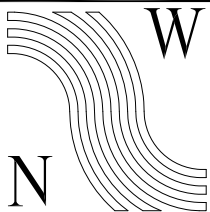
454	10864.16'	8966.73'	117.55	CONSTRUCTION JOINT, HIGH POINT
455	10859.21'	8973.06'	117.55	CONSTRUCTION JOINT, HIGH POINT
456	10851.44'	8974.99'	117.55	CONSTRUCTION JOINT, HIGH POINT
457	10843.96'	8971.57'	117.55	CONSTRUCTION JOINT, HIGH POINT
459	10917.85'	9031.81'	MATCH	CORNER BACK OF SIDEWALK
466	10894.75'	8932.54'	116.60	END CURB, PC CONCRETE
467	10903.61'	8925.90'	116.40	PRC CONCRETE
468	10917.57'	8916.59'	116.10	PRC CONCRETE
469	10933.02'	8910.50'	115.80	PRC CONCRETE
470	10952.15'	8903.21'	115.30	PRC CONCRETE
471	10956.00'	8908.21'	115.25	CORNER CONCRETE
472	10976.73'	8891.50'	115.25	CORNER CONCRETE
488	10878.58'	9059.57'	MATCH	CORNER PATH OVERLAY
489	10866.08'	9061.32'	MATCH	CORNER PATH OVERLAY
490	10748.27'	8929.79'	120.30	CORNER ACP @ EXIST STOOP
491	10754.81'	8913.63'	120.30	CORNER ACP
492	10738.34'	8925.54'	120.30	GRADE BREAK ACP
493	10718.56'	8900.36'	120.30	GRADE BREAK ACP
494	10734.53'	8884.46'	MATCH	CORNER ACP
495	10696.53'	8897.02'	MATCH	CORNER ACP
496	10693.84'	8904.88'	MATCH	CORNER ACP
497	11145.56'	8655.13'	120.60	CORNER CONCRETE
498	11149.74'	8666.31'	120.50	CORNER CONCRETE
499	11153.26'	8662.76'	120.50	GRADE BREAK CONCRETE
500	11177.01'	8686.22'	118.00	CORNER CONCRETE/ACP, GRADE BRK
501	11173.45'	8689.81'	118.00	GRADE BREAK CONCRETE
502	11177.73'	8694.03'	117.95	CONCRETE, TOP OF STEPS
503	11189.25'	8705.44'	117.95	CONCRETE, TOP OF STEPS
504	11203.11'	8719.11'	MATCH	CORNER CONCRETE/ACP, GRADE BRK
505	11181.77'	8640.48'	116.60	CORNER ACP
506	11193.28'	8655.86'	116.40	CORNER ACP
507	11195.35'	8653.78'	116.40	CORNER ACP
508	11200.23'	8662.77'	116.35	CORNER ACP
509	11203.08'	8665.56'	116.30	CORNER ACP
510	11208.36'	8657.44'	116.15	GRADE BREAK ACP
511	11225.20'	8640.25'	115.70	GRADE BREAK ACP
512	11203.17'	8618.75'	116.00	GRADE BREAK ACP
513	11208.93'	8669.20'	115.70	CORNER ACP
514	11211.38'	8666.70'	115.50	PC ACP
515	11217.75'	8666.63'	115.30	PT ACP
516	11228.13'	8676.80'	114.40	CORNER ACP
517	11283.04'	8620.71'	109.90	EXIST INLET. ADJUST RIM TO FG
518	11287.59'	8616.07'	110.10	CORNER ACP
519	11273.67'	8602.42'	111.10	PC ACP
520	11282.14'	8600.92'	110.40	PT ACP
521	11291.59'	8610.19'	109.80	PC ACP
522	11291.81'	8638.54'	MATCH	PT ACP
523	11336.83'	8593.06'	MATCH	PC ACP
524	11308.62'	8593.27'	109.30	PT ACP
525	11268.56'	8552.06'	112.00	CORNER ACP
526	11274.09'	8542.02'	–	FENCE
527	11266.03'	8533.78'	–	FENCE

STORM DRAIN STRUCTURE SUMMARY

<i>STRUCTURE NO.</i>	<i>TYPE</i>	<i>CASTING</i>	<i>NORTHING</i>	<i>EASTING</i>	<i>RIM EL.</i>	<i>REMARKS</i>
S1	CB, TYPE III	CBFTI	10803.5	9016.00	113.25	FIELD DETERMINE I.E. ADJUST STRUCTURE SIZE/TYPE AS REQ'D.
S2	SDMH	MHFSL	11281.90	8557.87	115.60	DO NOT UNDERMINE LIFT STATION FOUNDATION DURING EXCAVATION
S3	EXIST	FTI	11282.25	8620.85	109.90	EXIST STRUCTURE. ADJUST RIM EL.
S4	CB, TYPE III	CBFTI	11313.56	8589.90	109.10	TIE INTO EXIST 8"PVC LINE

CB = CATCH BASIN
FTI = FRAME AND TOP INTAKE

SDMH = STORMDRAIN MANHOLE
MHFSL = MANHOLE FRAME W/SOLID LID



NorthWind
Architects LLC

119A 2ND ST.
JUNEAU, AK 99801
PH #907.586.6150
FX #907.586.6181
WWW.NORTHWINDARCH.COM

P N D
ENGINEERS, INC.
9360 Glacier Highway, Ste 100
Juneau, Alaska 99801
Phone: 907.586.2093
Fax: 907.586.2099
PND # 092078

GASTINEAU ELEMENTARY SCHOOL

RENOVATION

CBJ Contract No. E11-157
JUNEAU, ALASKA

SHEET TITLE:
LAYOUT SUMMARY
TABLES
ADD. ALTERNATE

DATE: NOV. 15, 2010

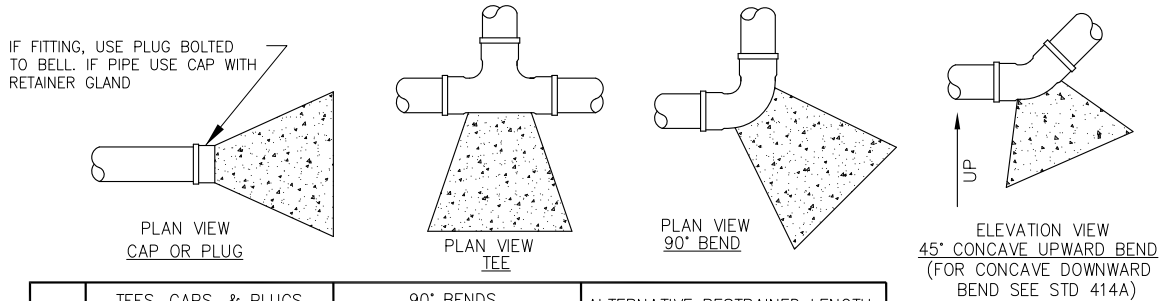
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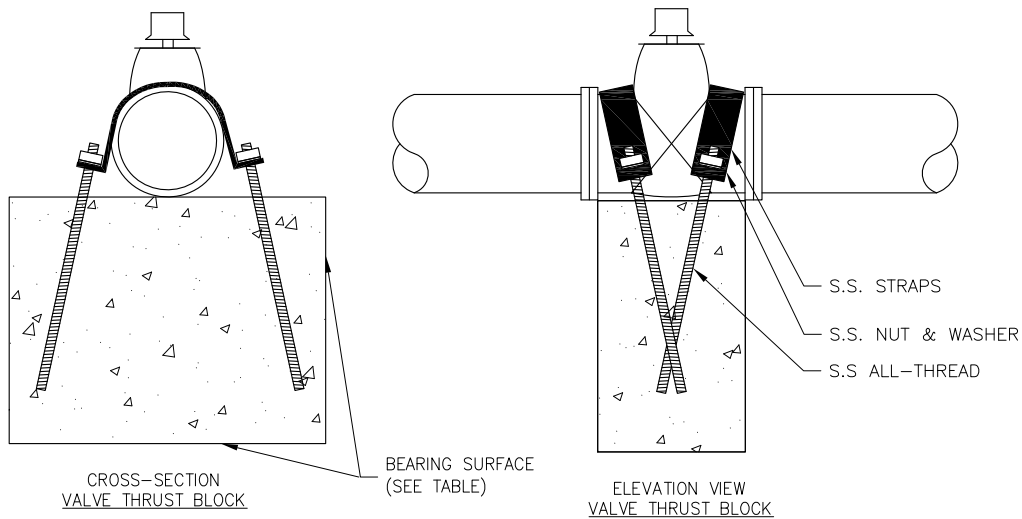
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PIPE SIZE	TEES, CAPS, & PLUGS		90° BENDS		ALTERNATIVE RESTRAINED LENGTH IN ALL DIRECTIONS (FEET) – SEE NOTE 5		
	MIN. CONCRETE VOL. (YD;)	MIN. BEARING AREA (FT ²)	MIN. CONCRETE VOL. (YD;)	MIN. BEARING AREA (FT ²)	TEES	90° BENDS	CAPS & PLUGS
6"	0.2	3.5	0.4	4.9	15	23	47

- NOTES:
- CENTER OF MASS OF THRUST BLOCK MUST LAY OPPOSITE TO AND ALIGNED AGAINST THE DIRECTION OF THRUST.
 - THRUST BLOCKS SHALL BE POURED SO THAT JOINTS OF FITTINGS, INCLUDING ALL NUTS AND FOLLOWERS REMAIN ACCESSIBLE.
 - CONCRETE THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED EARTH. UNSTABLE OR UNSUITABLE MATERIALS SHALL BE REMOVED, REPLACED AND/OR COMPACTED AS DETERMINED BY THE ENGINEER.
 - VOLUME AND BEARING SURFACE OF 2500 P.S.I. CONCRETE THRUST BLOCKS ARE BASED ON 150 P.S.I. WATER PRESSURE AND SOIL BEARING CAPACITY OF 2000 P.S.F. ALL OTHER PRESSURE AND/OR SOIL CONDITIONS ARE SUBJECT TO THE ENGINEER'S REVIEW AND APPROVAL.
 - THRUST BLOCKS MAY BE OMITTED IF ALL JOINTS WITHIN MINIMUM DISTANCE GIVEN BY ABOVE TABLE ARE RESTRAINED AND PIPE IS BEDDED IN SAND. THE DISTANCES APPEARING IN THE TABLE ASSUME THAT THE PIPE IS BURIED AT LEAST 5' DEEP AND THAT SOIL CONDITIONS ARE AS LISTED IN NOTE 4. THE INFORMATION IN THE TABLE IS BASED ON DIPRA'S "THRUST RESTRAINT FOR DUCTILE IRON PIPE" WHICH SHOULD BE CONSULTED IF THESE ASSUMPTIONS ARE NOT MET.
 - THRUST BLOCKS ARE REQUIRED FOR ALL BENDS, TEES, PLUGS, AND CAPS IN PIPE 4" AND LARGER EXCEPT AS LISTED IN NOTE 5.
 - REGARDLESS OF SIZE OF THRUST BLOCKS ALL JOINTS AT CAPS, PLUGS, BENDS, AND TEES MUST BE RESTRAINED.
 - FIELD-LOCK GASKETS, MEGA-LUG AND UNIFLANGE COUPLINGS ARE THE ONLY APPROVED MEANS OF RESTRAINING PIPE.

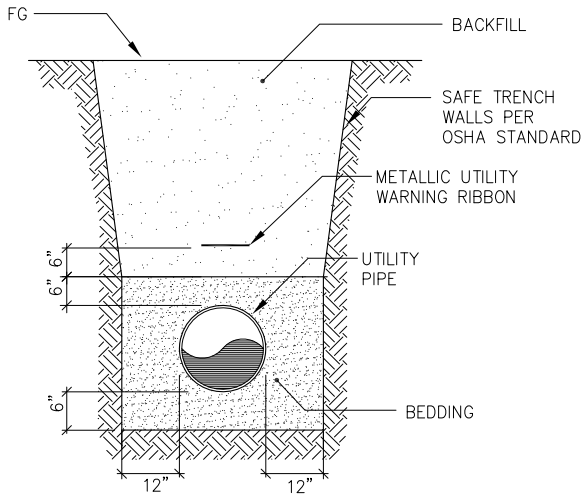
1 HORIZONTAL AND CONCAVE UPWARD THRUST BLOCKS



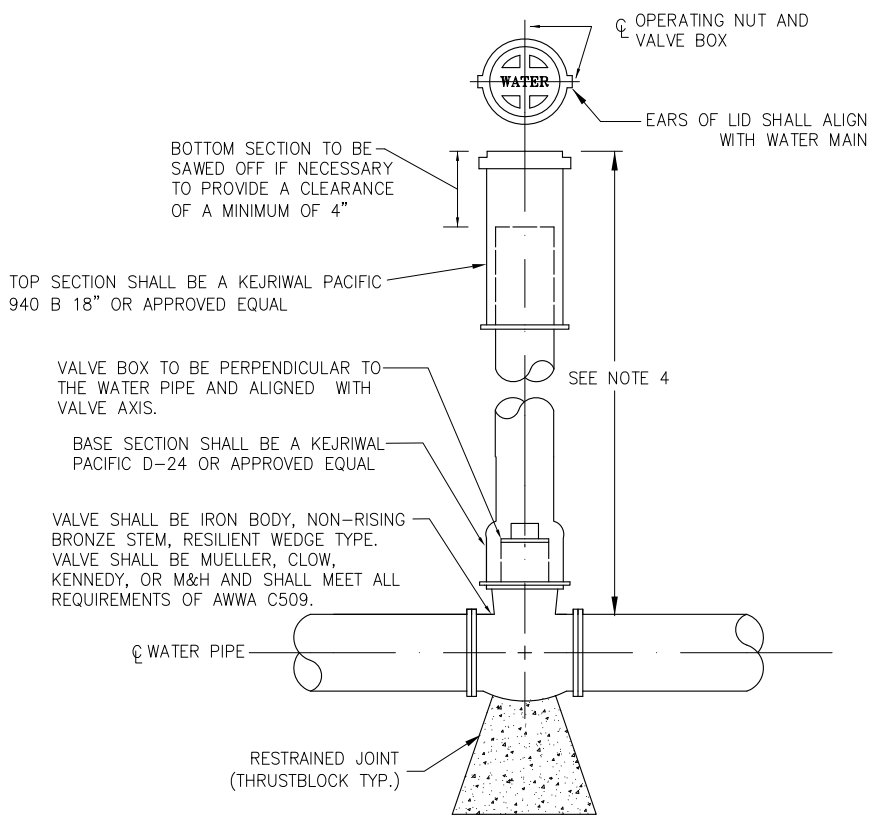
PIPE SIZE	MIN. BEARING AREA (FT ²)	MIN. VOLUME (CU. YRDS.)	MIN. STRAP/ALL-THREAD CROSS-SECT. (IN ²)	MIN. DISTANCE "D" TO UNRESTRAINED JOINT (FT)
6"	3.5	0.3	0.35	47

- NOTES:
- THRUST BLOCKS SHALL BE POURED SO THAT JOINTS OF FITTINGS, INCLUDING ALL NUTS AND FOLLOWERS REMAIN ACCESSIBLE.
 - CONCRETE THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED EARTH. UNSTABLE OR UNSUITABLE MATERIALS SHALL BE REMOVED, REPLACED AND/OR COMPACTED AS DETERMINED BY THE ENGINEER.
 - VOLUME AND BEARING SURFACE OF 2500 P.S.I. CONCRETE THRUST BLOCKS ARE BASED ON 150 P.S.I. WATER PRESSURE AND SOIL BEARING CAPACITY OF 2000 P.S.F. ALL OTHER PRESSURE AND/OR SOIL CONDITIONS ARE SUBJECT TO THE ENGINEER'S REVIEW AND APPROVAL.
 - MORE THAN 1 STRAP PER SIDE IS PERMISSIBLE IF NECESSARY TO ATTAIN THE CROSS-SECTIONAL AREA GIVEN IN THE TABLE.
 - ALL HARDWARE SHALL BE STAINLESS STEEL.
 - WHEN DESIGNED BY A LICENSED ENGINEER, ALTERNATE METHODS FOR APPLYING THRUST RESISTANCE TO VALVES ARE ROUTINELY APPROVED; IN PARTICULAR IF ALL JOINTS WITHIN MINIMUM DISTANCE "D" (SEE TABLE ABOVE) ARE RESTRAINED, THRUST BLOCKS MAY BE OMITTED IF PIPE IS BEDDED IN SAND, BURIED AT LEAST 5' DEEP, AND ASSUMPTIONS LISTED IN NOTE 3 ARE MET.
 - REGARDLESS OF THE SIZE OF THRUST BLOCK, JOINTS AT VALVE MUST BE RESTRAINED.
 - FIELD-LOCK GASKETS, MEGA-LUG COUPLINGS, AND FORD UNIFLANGE COUPLINGS ARE THE ONLY APPROVED MEANS OF RESTRAINING PIPE.

3 VALVE THRUST BLOCK

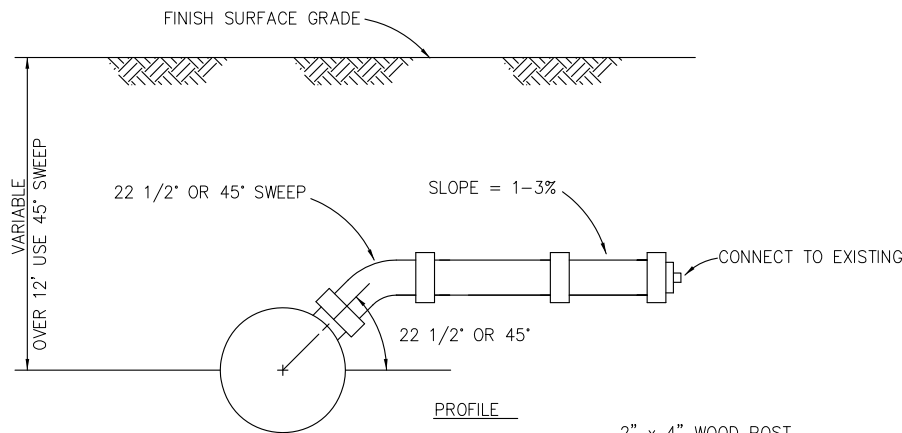


4 PIPE UTILITY TRENCH

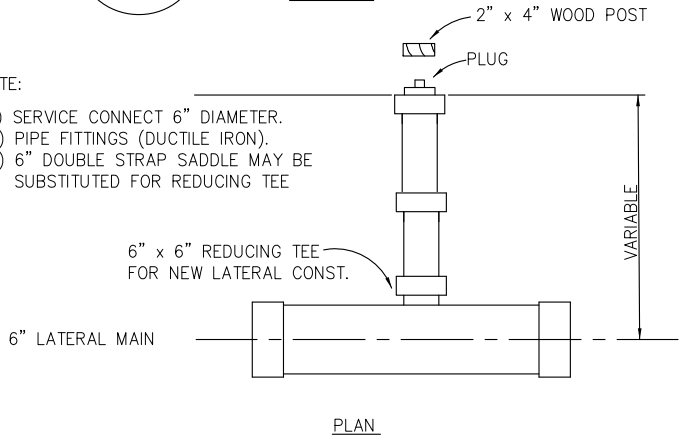


- NOTES:
- MAINLINE VALVES REQUIRE THRUST BLOCKS. SEE TYPICAL THRUST BLOCK DETAIL
 - IF REQUIRED BY THE ENGINEER, PLACE CONCRETE COLLAR AROUND TOP SECTION PER STANDARD 126.
 - IF WATER PIPE IS MORE THAN 6' DEEP, USE 4" I.D. CAST IRON SOIL PIPE WITH TOP SECTION OF APPROVED CAST IRON VALVE BOX.
 - ON UNPAVED ROADS, RECESS TOP OF VALVE BOX 6" TO 8"

2 VALVE BOX

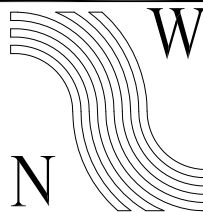


- NOTE:
- SERVICE CONNECT 6" DIAMETER.
 - PIPE FITTINGS (DUCTILE IRON).
 - 6" DOUBLE STRAP SADDLE MAY BE SUBSTITUTED FOR REDUCING TEE



PLAN

5 SANITARY SEWER SERVICE



NorthWind Architects LLC

119A 2ND ST.
JUNEAU, AK 99801
PH #907.586.6150
FX #907.586.6181
WWW.NORTHWINDARCH.COM

PND
ENGINEERS, INC.
9360 Glacier Highway, Ste 100
Juneau, Alaska 99801
Phone: 907.586.2093
Fax: 907.586.2099
PND # 092078

GASTINEAU ELEMENTARY SCHOOL

RENOVATION

CBJ Contract No. E11-157
JUNEAU, ALASKA

SHEET TITLE:

WATER LINE & SANITARY SEWER DETAILS

DATE: NOV. 15, 2010

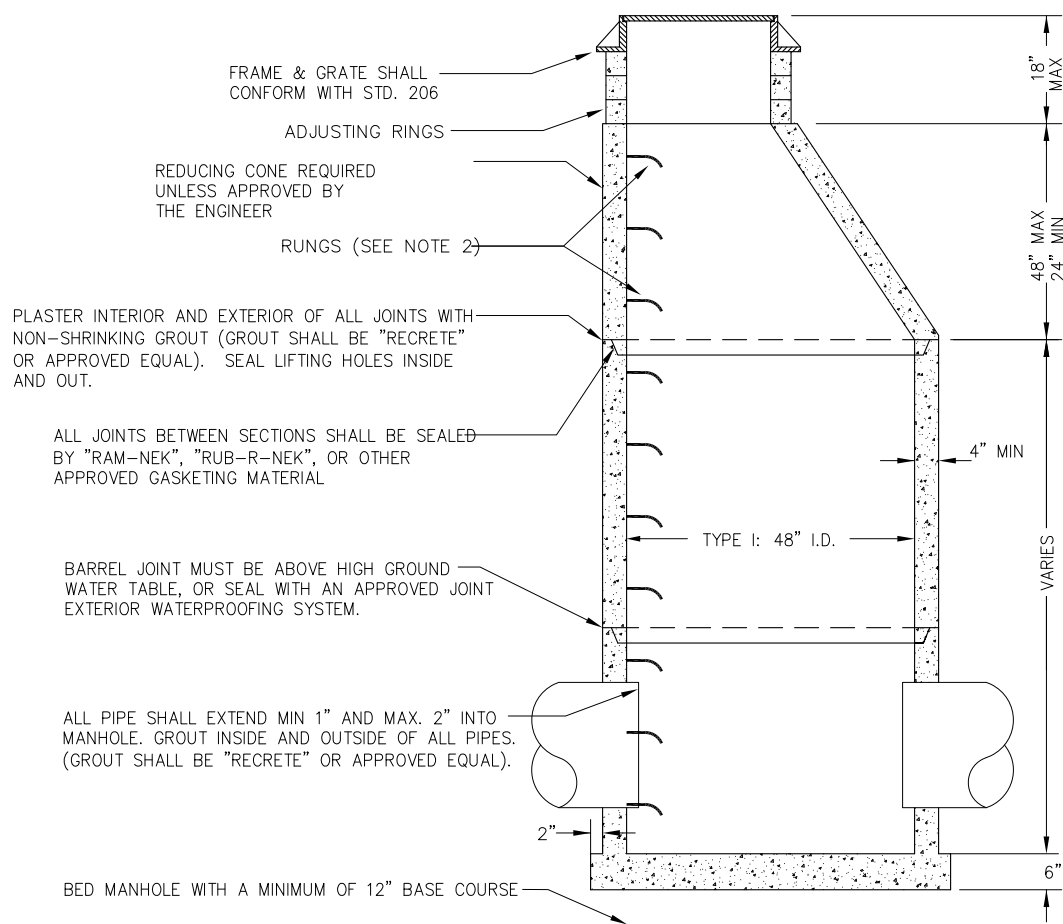
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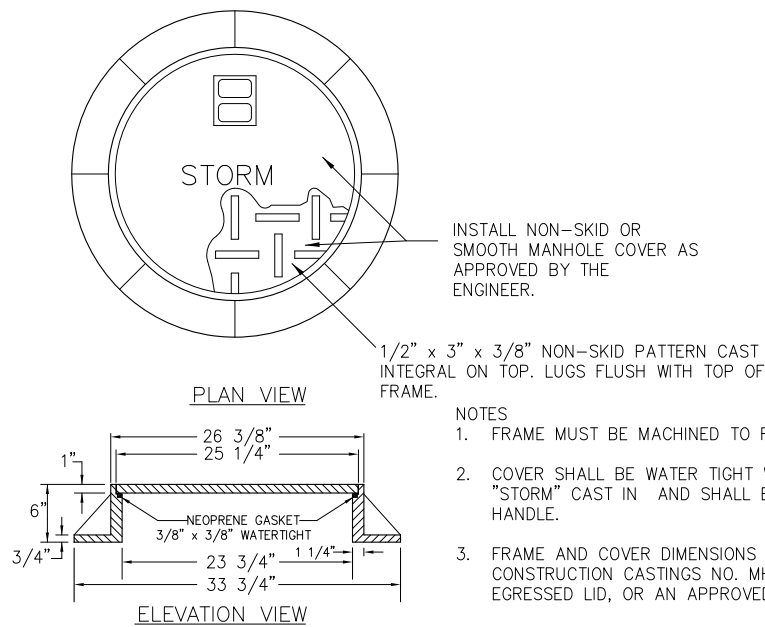
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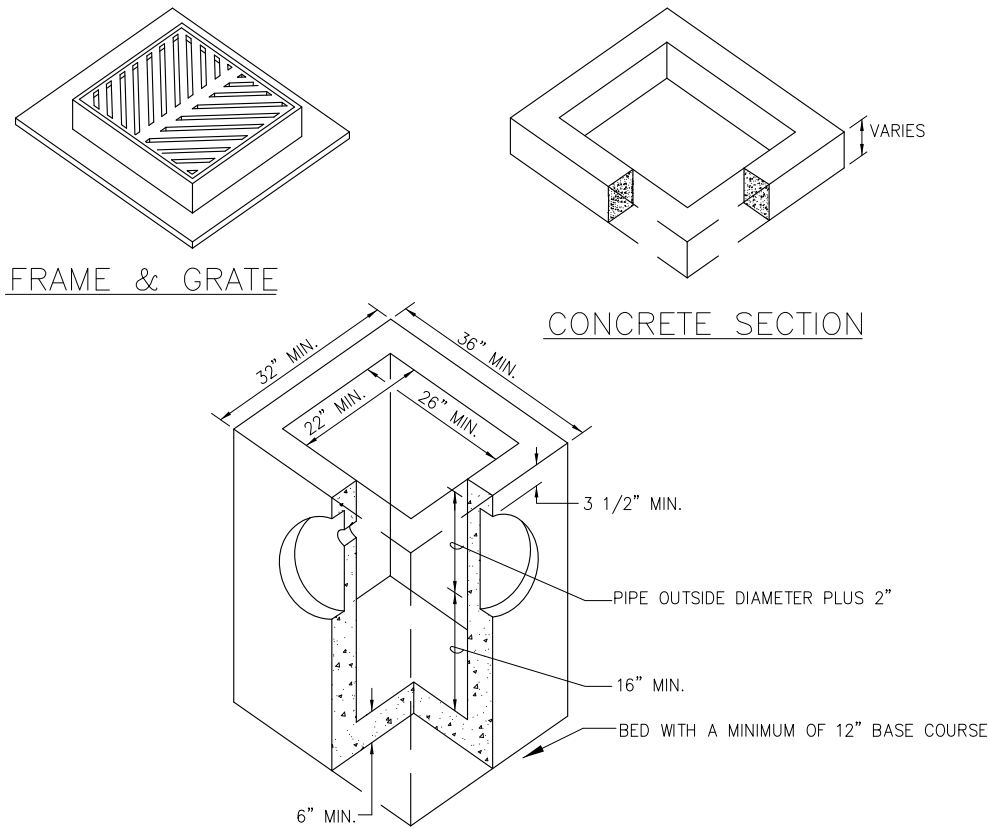
1 TYPE I STORMDRAIN MANHOLE

NOTES

- RUNGS TO BE PLACED 12" O.C. ON UNOBSTRUCTED SIDE OF MANHOLE. LAST RUNG SHALL BE 18" MAX FROM BOTTOM OF MANHOLE, AND TOP RUNG SHALL BE 6" MAXIMUM FROM TOP OF CONE. IF UNOBSTRUCTED SIDE NOT AVAILABLE, LAST RUNG SHALL BE PLACED 6" OVER SMALLEST PIPE.
- REFER TO A.S.T.M. C-478 FOR DESIGN REQUIREMENTS AND C-478-69 FOR MINIMUM STEEL FOR BARREL. BARREL SHALL BE IMBEDDED IN BASE SO THAT FIRST BARREL SECTION IS CONNECTED WITH BASE.
- BLOCKOUTS MUST BE FORMED.



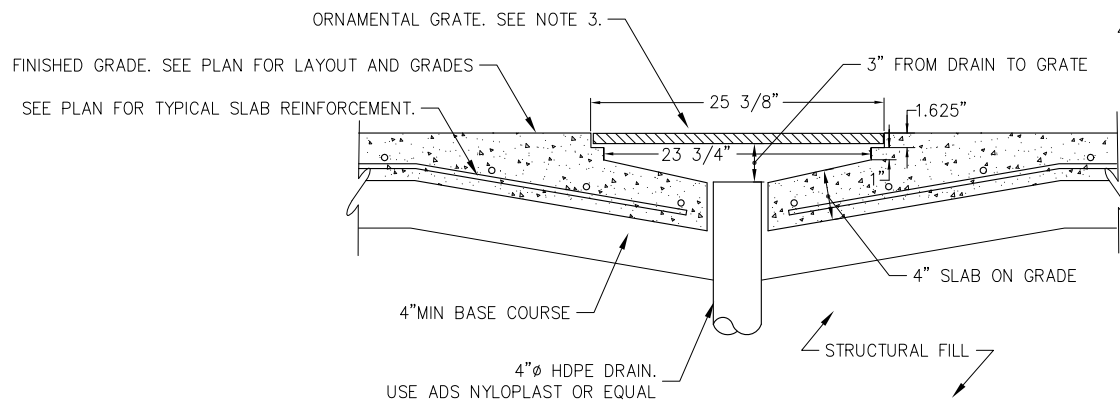
4 STORMDRAIN MAHOLE COVER AND LID



2 TYPE III CATCHBASIN

NOTES

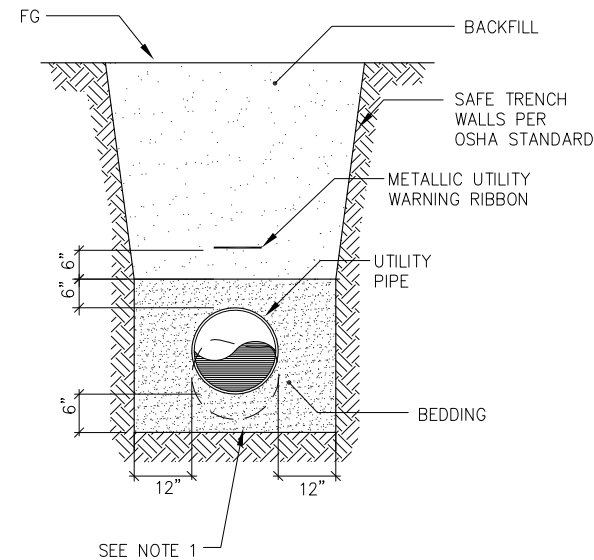
- ENTIRE KNOCKOUT IS TO BE REMOVED AND SEALED SHUT AROUND PIPE. ALL PIPES ARE TO EXTEND MIN 1" AND MAX 3" INTO CATCH BASIN. GROUT INTERIOR AND EXTERIOR BETWEEN FRAME, SECTIONS, AND CATCH BASIN.
- FRAME AND GRATE SHALL BE DUCTILE IRON. FRAME MAY BE CAST INTO THE TOP UNIT. FRAME AND GRATE MUST BE OF A TYPE THAT WILL NOT CREATE A HAZARD FOR BICYCLE TRAFFIC.
- CATCH BASIN SHALL MEET HIGHWAY STANDARD-20 LOAD REQUIREMENTS.
- MINIMUM STEEL SHALL BE SPECIFIED BY ASTM C-478-69.
- ADJUSTING RING SHALL BE THE SAME SIZE AS THE CATCH BASIN.



5 WATER FEATURE GRATE AND DRAIN - SECTION

NOTE:

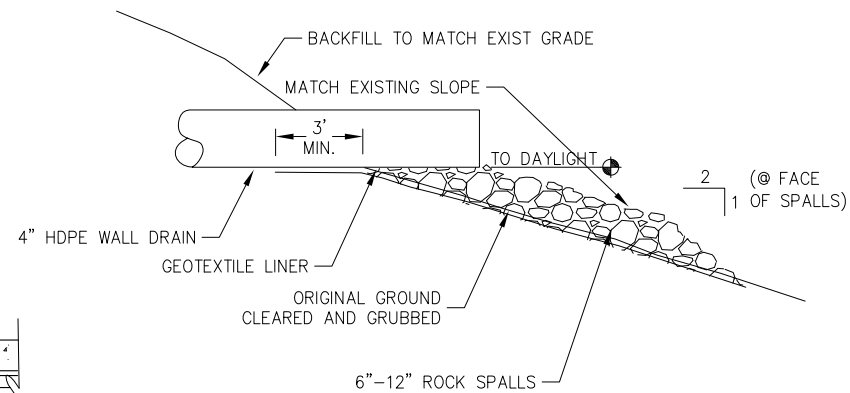
- FIELD DETERMINE LOCATION AND INVERT ELEVATION OF NEW 4" STORMDRAIN. SEE PLAN.
- CONNECT TO NEW STORMDRAIN WITH HDPE TEE. SEE PLAN.
- GRATE SHALL BE 25"Ø MISO ORNAMENTAL GRATE (PRODUCT ID ME25) BY EAST JORDAN IRON WORKS. SEE SPECIFICATIONS FOR DETAILS. SEE LANDSCAPE SHEETS FOR FURTHER GRATE DETAILS.



3 STORMDRAIN UTILITY TRENCH

NOTES

- AT COLLAPSED EXIST 8" STORMDRAIN. DEMOLISH COLLAPSED SECTION AS REQ'D IN FIELD. FIELD DETERMINE EXTENTS OF EXISTING DAMAGED PIPE. SEE PLANS FOR LOCATION.



6 RETAIN WALL DRAIN OUTLET



NorthWind Architects LLC
119A 2ND ST.
JUNEAU, AK 99801
PH #907.586.6150
FX #907.586.6181
WWW.NORTHWINDARCH.COM

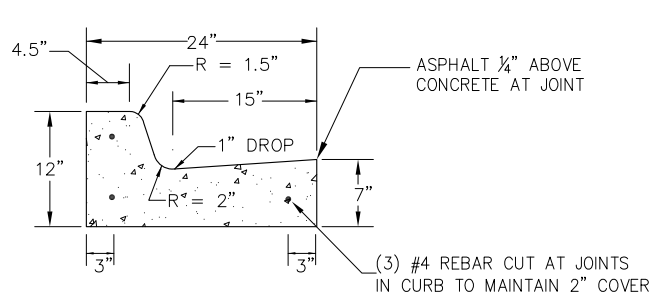
PND ENGINEERS, INC.
9360 Glacier Highway, Ste 100
Juneau, Alaska 99801
Phone: 907.586.2093
Fax: 907.586.2099
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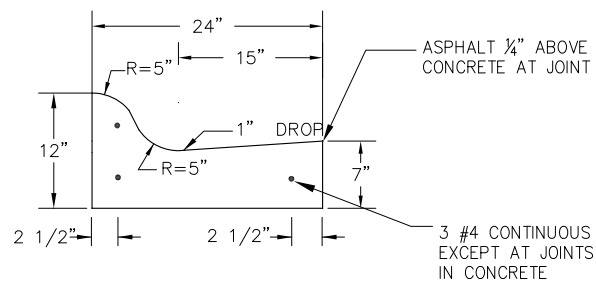
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STORMWATER DETAILS

DATE: NOV. 15, 2010
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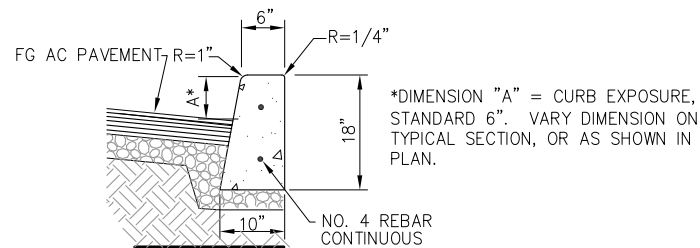
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1 TYPE I STANDARD CURB

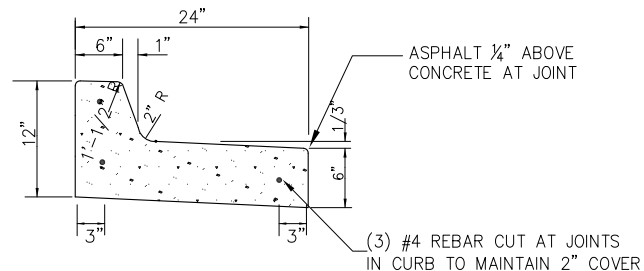


2 TYPE II ROLLED CURB

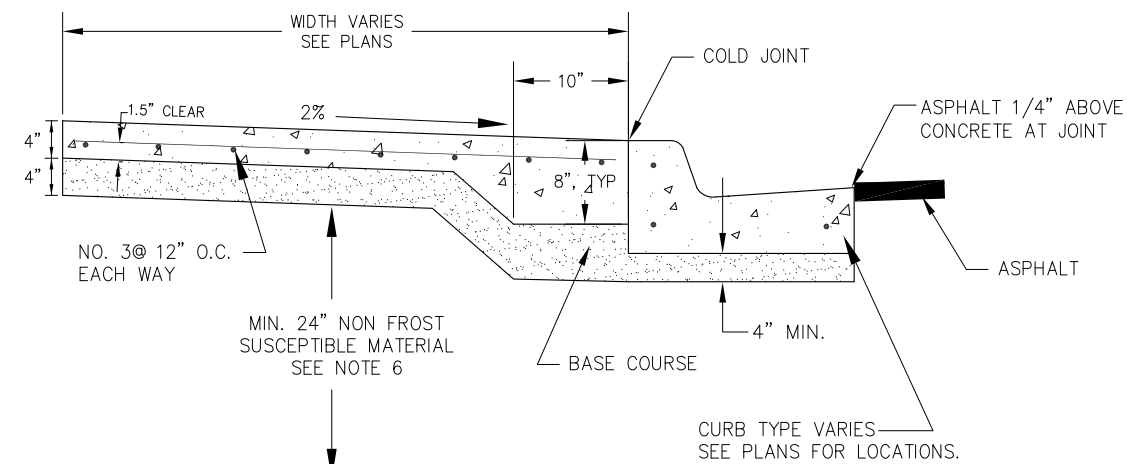


3 TYPE IV VERTICAL CURB

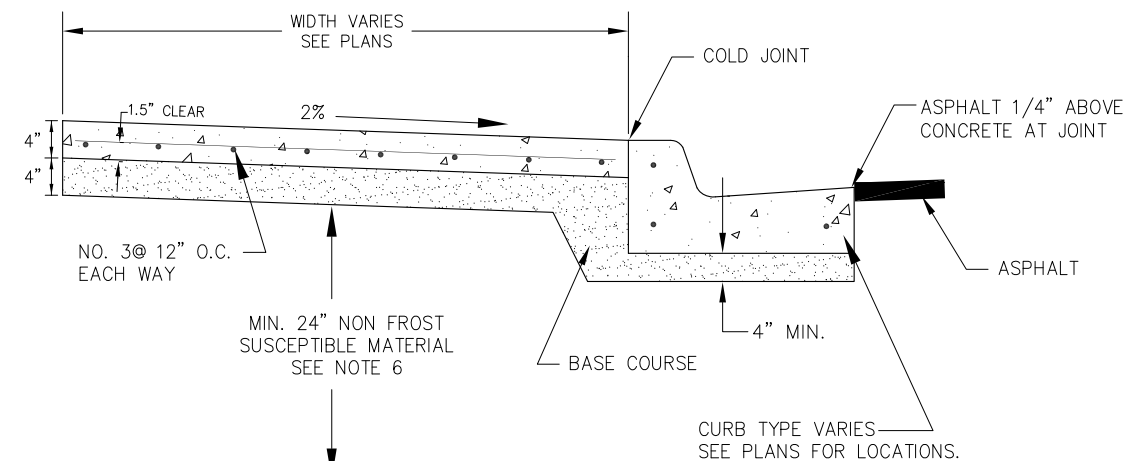
- NOTES:
1. SEE TYPICAL SIDEWALK DETAILS FOR
 2. PROVIDE MIN. 4" BASE COURSE BENEATH ALL CURBS.
 3. ALL STEEL MUST HAVE A MINIMUM OF 2" OF CONCRETE COVER. FIBER REINFORCING SHALL BE ALLOWED PER ENGINEER OR PLANS.
 4. ALL JOINTS AND SEAMS SHALL BE EDGED.
 5. EXPANSION JOINTS SHALL BE MAX 1/2" MIN 1/4" WITH NO GAPS FOR WATER PENETRATION. JOINTS SHALL BE MAX 30' O.C.
 6. STEEL TROWELING FINISH REQUIRED PRIOR TO BROOM FINISHING ON ALL SURFACES.
 7. CONCRETE INTERNATIONAL CORPORATION ASHFORD FORMULA OR APPROVED EQUAL SHALL BE APPLIED AS A CURING COMPOUND. APPLICATION SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS.



4 TYPE V SPILL CURB

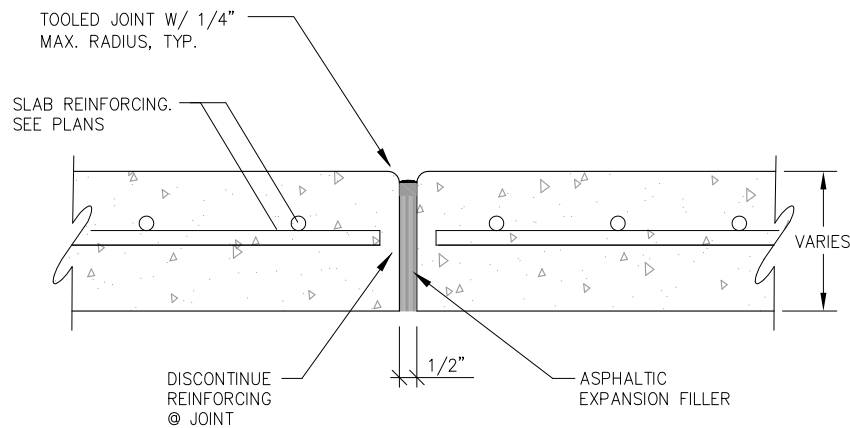


5 CONCRETE SIDEWALK W/THICKENED EDGE

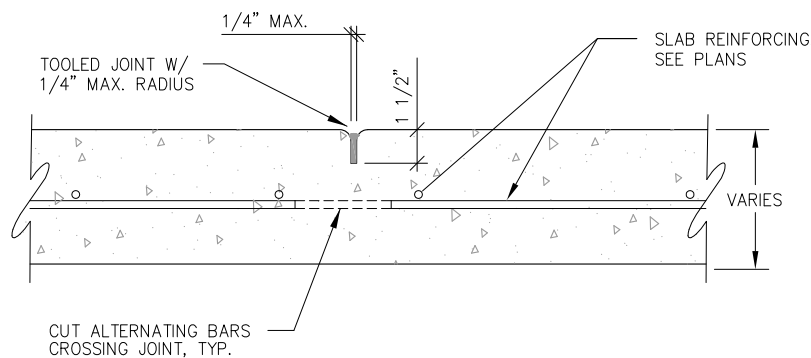


6 CONCRETE SIDEWALK

- NOTES:
1. ALL STEEL MUST HAVE A MINIMUM OF 1 1/2" OF CONCRETE COVER.
 2. ALL JOINTS AND SEAMS SHALL BE EDGED.
 3. STEEL TROWELING FINISH REQUIRED PRIOR TO BROOM FINISHING ON ALL SURFACES.
 4. CONCRETE INTERNATIONAL CORPORATION ASHFORD FORMULA OR APPROVED EQUAL SHALL BE APPLIED AS A CURING COMPOUND. APPLICATION SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS.
 5. NFS SUBBASE MATERIAL REQUIRED ONLY IN AREAS WHERE EXISTING SUBBASE IS UNSUITABLE. FIELD VERIFY SUITABLE EXISTING CONDITIONS TO BE FIRM GRAVELS AND SANDS.

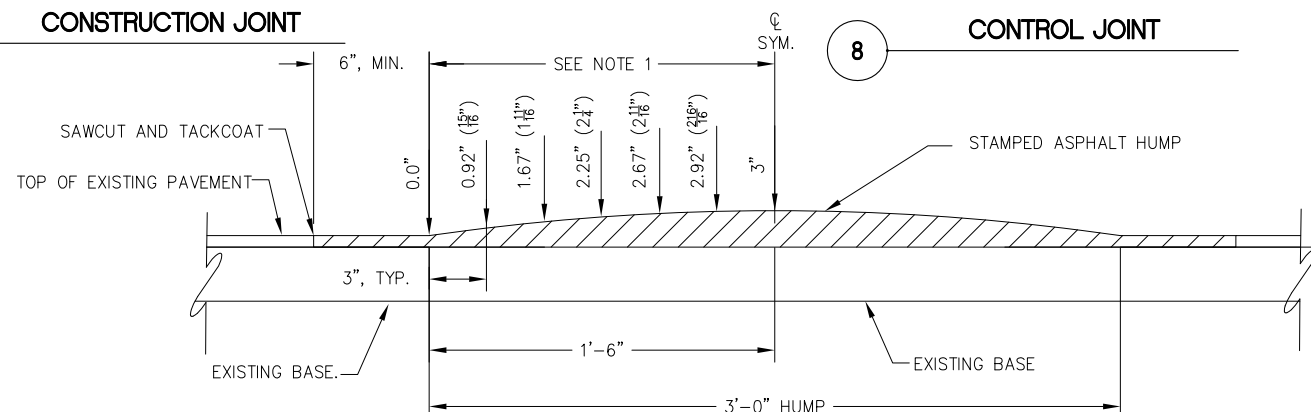


7 CONSTRUCTION JOINT

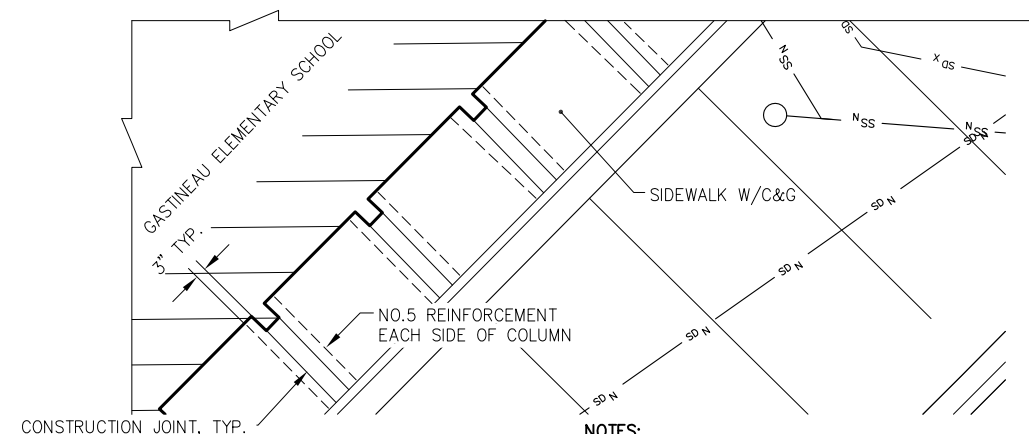


8 CONTROL JOINT

- NOTES:
1. THESE DISTANCES ARE SHOWN DIMENSIONED FROM THE SAWCUT TIE-IN POINT.
 2. TAPER SIDES OF SPEEDBUMP AT 4:1 (H:V) TO MATCH FINISH GRADE

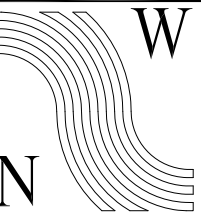


9 TRAFFIC CONTROL SPEED BUMP



10 CONSTRUCTION JOINT AT EXIST COLUMN

- NOTES:
1. INSTALL REINFORCEMENT AS SHOWN IN ADDITION TO TYPICAL SIDEWALK REINFORCEMENT PER TYPICAL DETAILS.



NorthWind Architects LLC

119A 2ND ST.
JUNEAU, AK 99801
PH #907.586.6150
FX #907.586.6181
WWW.NORTHWINDARCH.COM

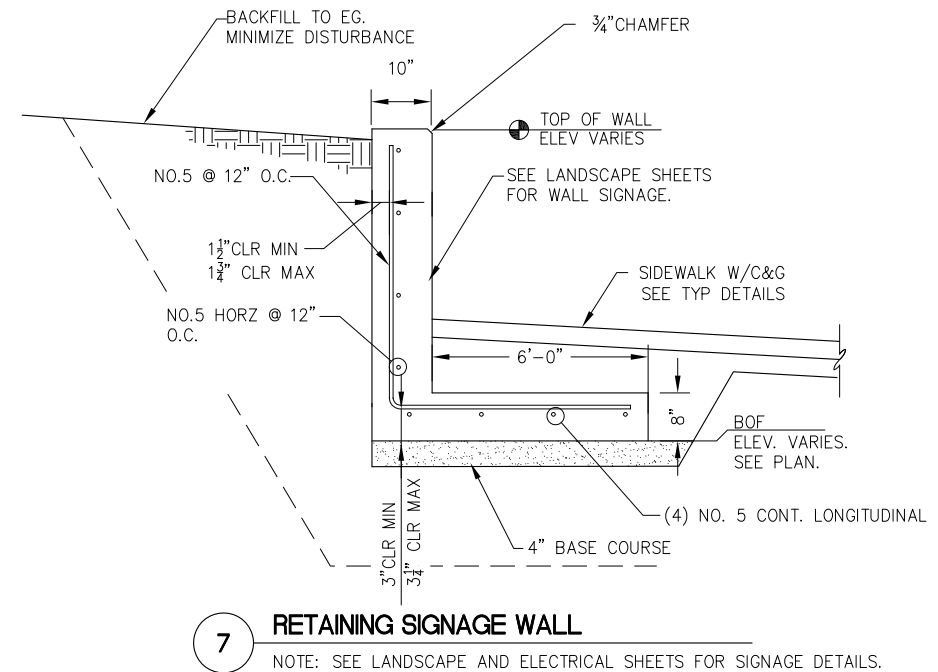
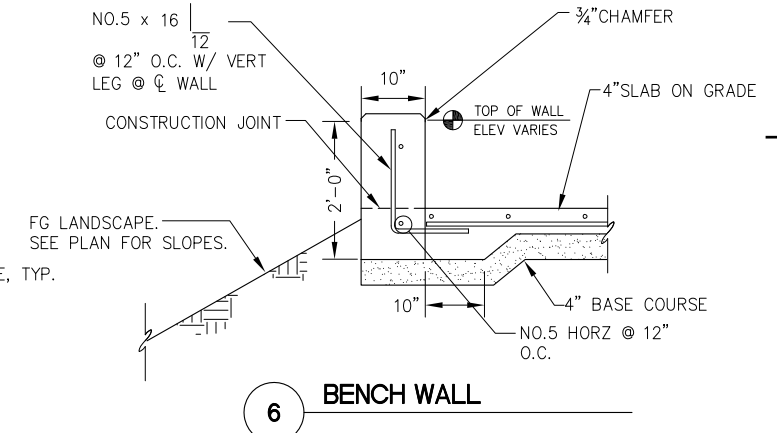
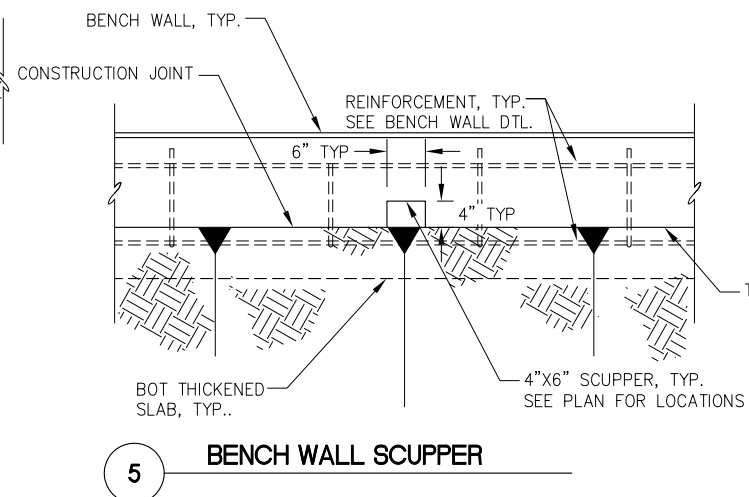
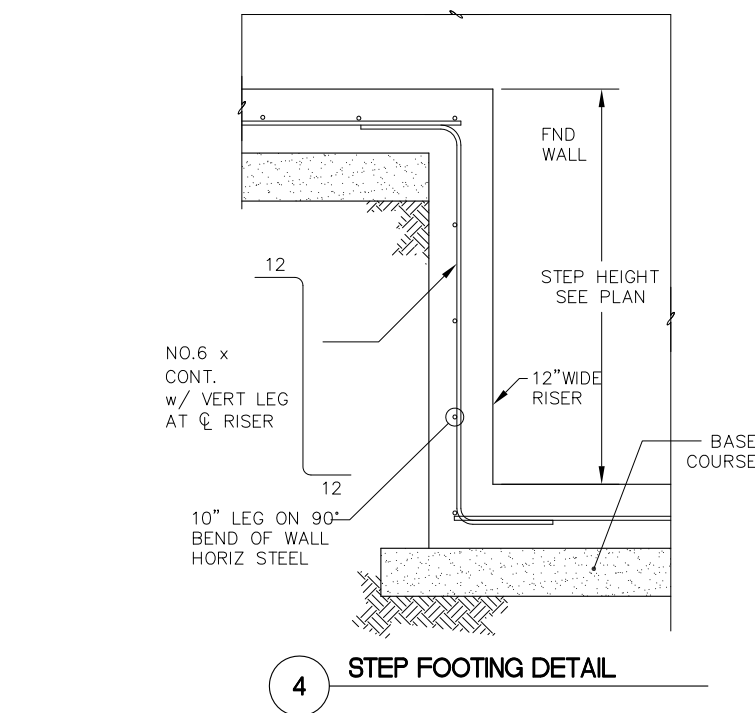
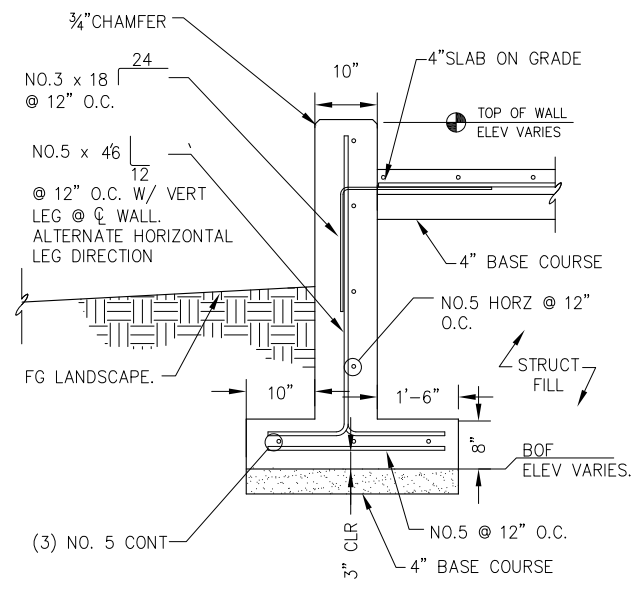
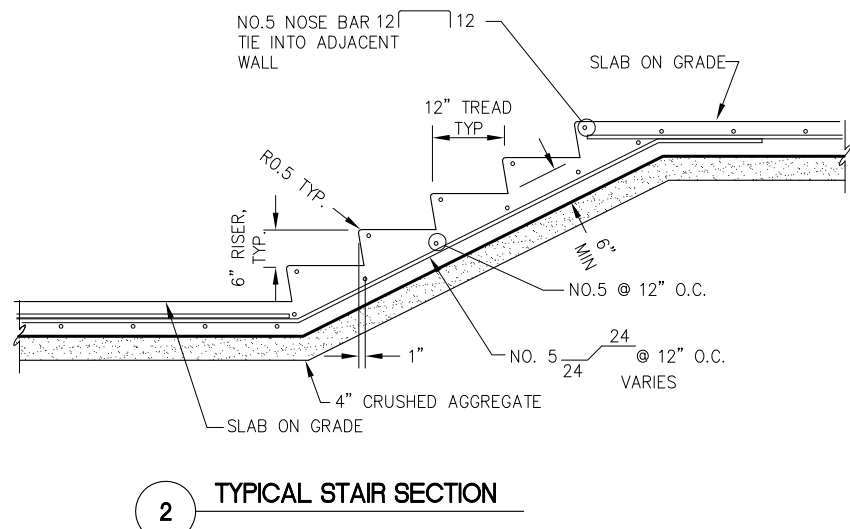
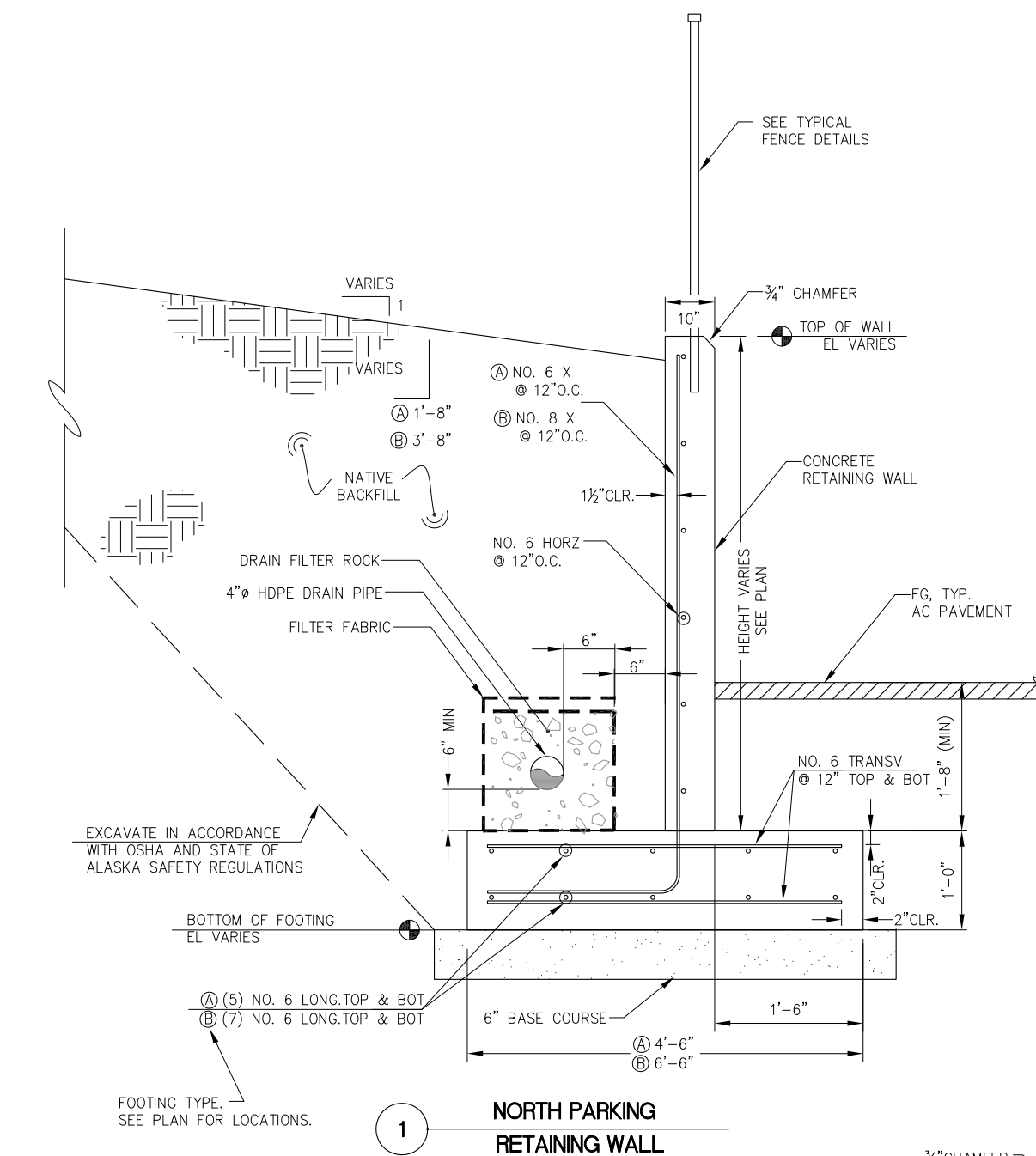
P N D
ENGINEERS, INC.
9360 Glacier Highway, Ste 100
Juneau, Alaska 99801
Phone: 907.586.2093
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SHEET TITLE:
TYPICAL DETAILS

DATE: NOV. 15, 2010
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A stylized logo consisting of the letters 'N' and 'W' in a serif font. The 'N' is positioned to the left of the 'W'. Between them are several concentric, curved lines that sweep from the top left towards the bottom right, creating a sense of motion or a stylized 'S' shape.

North Wind
Architects LLC

19A 2ND ST.
JUNEAU, AK 99801
PH #907.586.6150
Fx #907.586.6181
WWW.NORTHWINDARCH.COM

P N D
ENGINEERS, INC.
360 Glacier Highway, Ste 100
Juneau, Alaska 99801
Phone: 907.586.2093
Fax: 907.586.2099
E-MAIL: info@pnd-inc.com
PND # 092078

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