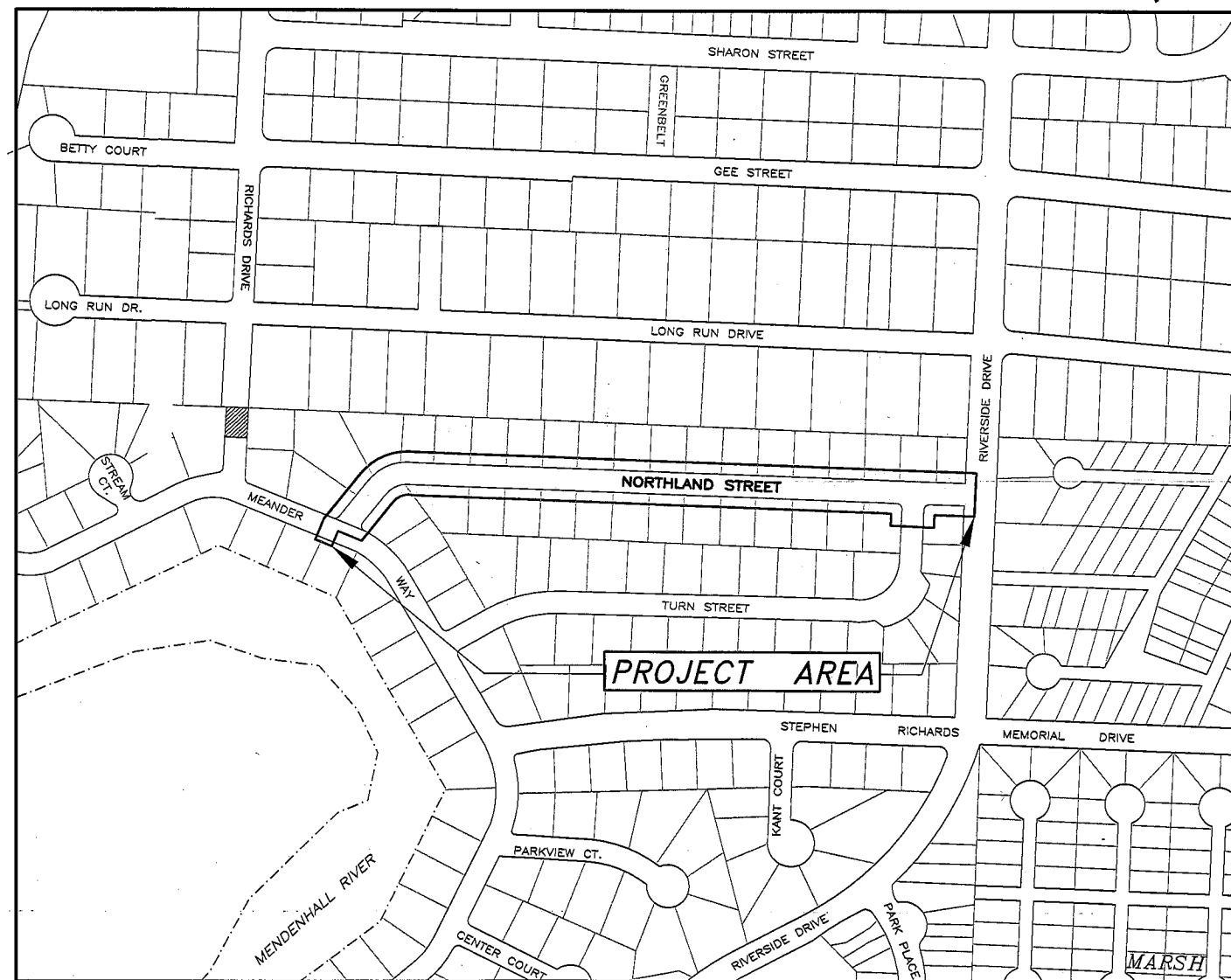


NORTHLAND STREET RECONSTRUCTION

CONTRACT NO. E12-224

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CITY AND BOROUGH OF JUNEAU
★ ALASKA'S CAPITAL CITY

ENGINEERING DEPARTMENT

SHEET NO.

1 of 14

LEGEND

DESCRIPTION	EXISTING	REMOVE	PROPOSED
BURIED ELECTRICAL UTILITIES			
CABLE TV			
POWER			
TELEPHONE			
CATCH BASIN			
CURB & GUTTER			
DETECTABLE WARNING TILE			
DRAINAGE SWALE OR DITCH			
FIRE HYDRANT			
MAILBOX			
PROJECT CENTERLINE			
PROPERTY LINE			
POWER POLE			
SANITARY SEWER			
SANITARY SEWER MANHOLE			
STORM DRAIN			
SURVEY MONUMENT			
VALLEY GUTTER			
WATER LINE			
WATER VALVE BOX			

TBM	DESCRIPTION	ELEV
1	SOUTH BOLT ON TOP FLANGE OF FIRE HYDRANT	33.77
2	N.E. BOLT ON TOP FLANGE OF FIRE HYDRANT	36.29
3	N.E. BOLT ON TOP FLANGE OF FIRE HYDRANT	38.35
4	SPIKE SET INTO BASE OF POWER POLE	38.63

ABBREVIATIONS

AC	ASPHALT PAVMENT
CB	CATCH BASIN
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED POLYETHYLENE PIPE
CONC	CONCRETE
CTE	CONNECT TO EXISTING
DI	DUCTILE IRON
DIA	DIAMETER
DT	DITCH
FG	FINISHED GRADE
INV	INVERT
LG	LIP OF GUTTER
LT	LEFT
MH	MANHOLE
NTS	NOT TO SCALE
PVC	POLYVINYL CHLORIDE PIPE
RT	RIGHT
SHLD	SHOULDER
STA	STATION
STD	STANDARD
TBC	TOP BACK CURB
TP	TOP OF PAVEMENT
TSW	TOP OF SIDEWALK

GENERAL NOTES

- LARGE BOULDERS, STUMPS, LOGS, ORGANICS AND GROUND WATER MAY BE ENCOUNTERED AT VARIOUS DEPTHS DURING EXCAVATION OPERATIONS.
- CONTRACTOR SHALL ASSURE GARBAGE PICKUP AND DAILY MAIL SERVICE WILL BE UNINTERRUPTED TO ALL RESIDENCES AFFECTED BY THIS PROJECT.
- CBJ ENGINEERING STANDARD DETAILS BOOK, 4TH EDITION, DATED AUGUST, 2011 IS MADE PART OF THIS CONTRACT, WITH CURRENT REVISIONS AS APPLICABLE.
- EXISTING PIPE LOCATIONS ARE DERIVED FROM CBJ AS-BUILTS OR FIELD LOCATED. ACTUAL LOCATIONS MAY VARY FROM THOSE SHOWN. DEPTH OF THE EXISTING PIPES SHOWN ON THE ELEVATIONS ARE ASSUMED. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EACH EXISTING SERVICE PIPE PRIOR TO INSTALLING THE RESPECTIVE SEWER, WATER OR STORM MAIN. DIAL BEFORE YOU DIG 586-1333.
- GRADING AND ALIGNMENT ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER.
- LOCATION OF STORM CURB INLETS, PIPING AND PIPE LENGTHS ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER.
- PROPERTY LINE LOCATIONS USED IN THESE PLANS ARE DERIVED FROM RECORD PLATS AND DO NOT REPRESENT BOUNDARY SURVEY. EXISTING RECORD PLATS DO NOT CLOSE WITH EACH OTHER IN SOME CASES. THE PROPERTY LINES SHOWN ON THESE PLANS ARE A BEST FIT APPROXIMATION OF CLOSURE.
- ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF AT AN APPROVED DISPOSAL SITE, EXCEPT AS NOTED IN THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL REFERENCE ALL EXISTING PROPERTY CORNER MONUMENTS (I.E. REBARS, CONCRETE NAILS, BRASS CAP MONUMENT AND ETC.) PRIOR TO CONSTRUCTION AND REMONUMENT AFTER SURFACING IS REPLACED. ALL WORK SHALL BE DONE BY, OR UNDER THE DIRECTION OF, AN ALASKA REGISTERED LAND SURVEYOR.
- ALL ASPHALT PAVEMENT TO BE REMOVED AND DISPOSED OF SHALL BE DELIVERED TO A STOCKPILE AREA AT THE LEMON CREEK CITY PIT TO BE DESIGNATED BY THE ENGINEER. CONTACT THE ENGINEER FOR THE EXACT LOCATION OF THE STOCKPILE.
- THE PLAN SHEETS DO NOT SHOW MOST OF THE TREES AND OTHER VEGETATION THAT WILL BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES. NO TREES OR OTHER VEGETATION ARE TO BE REMOVED OR DAMAGED, UNLESS SHOWN ON THE DRAWINGS OR DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL NOT STORE MATERIALS OR EQUIPMENT, OR OPERATIVE EQUIPMENT WITH ITS TRACKS OR WHEELS PLACED ON PRIVATE PROPERTY, WITHOUT WRITTEN APPROVAL OF THE PROPERTY OWNER.

CATCH BASIN No.	EAST JORDAN IRON WORKS, OLYMPIC FOUNDRY CO., CBJ STANDARD No., OR APPROVED EQUAL
CB-1	REUSE FRAME AND GRATE
CB-2	OF MH 34SC
CB-3	EJIW 7701 T2 HOOD W/ 7700 M2 GRATE
CB-4	OF SM18
CB-5	OF SM18
CB-6	EJIW 7701 T2 HOOD W/ 7700 M2 GRATE
CB-7	OF SM18
CB-8	EJIW 7701 T2 HOOD W/ 7700 M2 GRATE
CB-9	OF SM18
CB-10	EJIW 7701 T2 HOOD W/ 7700 M2 GRATE
CB-11	OF SM18
CB-12	EJIW 7701 T2 HOOD W/ 7700 M2 GRATE
CB-13	OF SM18
CB-14	OF SM18
CB-15	EJIW 7701 T2 HOOD W/ 7700 M2 GRATE
CB-16	REUSE FRAME AND GRATE

CATCH BASIN TOP SLAB OPENINGS SHALL BE DIMENSIONED TO FIT THE FRAME DIMENSIONS. ALL COVERS SHALL BE HEAVY DUTY CONSTRUCTION AND BICYCLE SAFE. ALL FRAMES AND GRATES SHALL BE DUCTILE IRON.

NO.	LOCATION	MUTCD DESIGNATION OR DESCRIPTION	LEGEND AND COMMENTS
1	11+25, RT	R7-1	"NO PARKING NOV 1-APRIL 1" W/ DOUBLE ARROW (12"x18")
2	13+25, RT	R7-1	"NO PARKING NOV 1-APRIL 1" W/ DOUBLE ARROW (12"x18")
3	15+25, RT	R7-1	"NO PARKING NOV 1-APRIL 1" W/ DOUBLE ARROW (12"x18")
4	17+00, RT	R7-1	"NO PARKING NOV 1-APRIL 1" W/ DOUBLE ARROW (12"x18")
5	19+25, RT	R7-1	"NO PARKING NOV 1-APRIL 1" W/ DOUBLE ARROW (12"x18")
6	21+50, RT	R7-1	"NO PARKING NOV 1-APRIL 1" W/ DOUBLE ARROW (12"x18")
7	24+05, RT	R7-1	"NO PARKING NOV 1-APRIL 1" W/ DOUBLE ARROW (12"x18")
8	11+25, LT	R7-1	"NO PARKING ANY TIME" W/ DOUBLE ARROW (12"x18")
9	13+25, LT	R7-1	"NO PARKING ANY TIME" W/ DOUBLE ARROW (12"x18")
10	15+25, LT	R7-1	"NO PARKING ANY TIME" W/ DOUBLE ARROW (12"x18")
11	17+00, LT	R7-1	"NO PARKING ANY TIME" W/ DOUBLE ARROW (12"x18")
12	19+25, LT	R7-1	"NO PARKING ANY TIME" W/ DOUBLE ARROW (12"x18")
13	21+50, LT	R7-1	"NO PARKING ANY TIME" W/ DOUBLE ARROW (12"x18")
14	24+25, LT	R7-1	"NO PARKING ANY TIME" W/ DOUBLE ARROW (12"x18")

A) ALL SIGNS TO BE CONSTRUCTED IN ACCORDANCE WITH THE CITY & BOROUGH STANDARD DETAIL NO. 127.
 B) ALL SIGNS TO BE LOCATED AS DIRECTED BY THE ENGINEER.
 C) ALL STOP SIGNS SHALL BE HIGH INTENSITY.
 D) SALVAGE ALL SIGN PANELS AND DELIVER TO CBJ STREETS MAINTENANCE SHOP. DISPOSE OF ALL EXISTING POSTS AND POST SOCKETS.
 E) ALL POSTS SHALL BE "TELSPAR", OR APPROVED EQUAL.
 F) POSTS SHALL BE PRE-PUNCHED WITH ALL KNOCKOUTS REMOVED.

Date	Description	Intls.



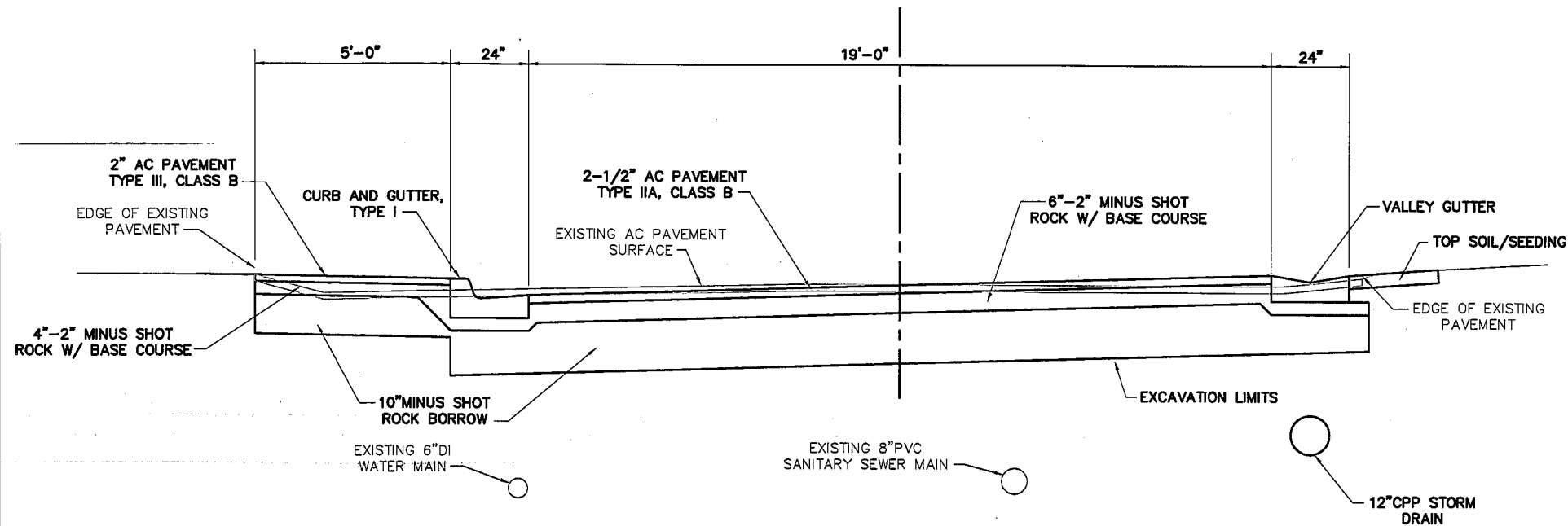
5-10-12
 Prepared by:
 CITY AND BOROUGH OF JUNEAU
 ★ ALASKA'S CAPITAL CITY
 ENGINEERING DEPARTMENT

**NORTHLAND STREET
 RECONSTRUCTION
 CONTRACT NO. E12-224**

**LEGEND, ABBREVIATIONS
 AND GENERAL NOTES**

DATE: 4/30/12 DRAWN BY: STAFF SCALE: AS SHOWN

SHEET:
 2 of 14

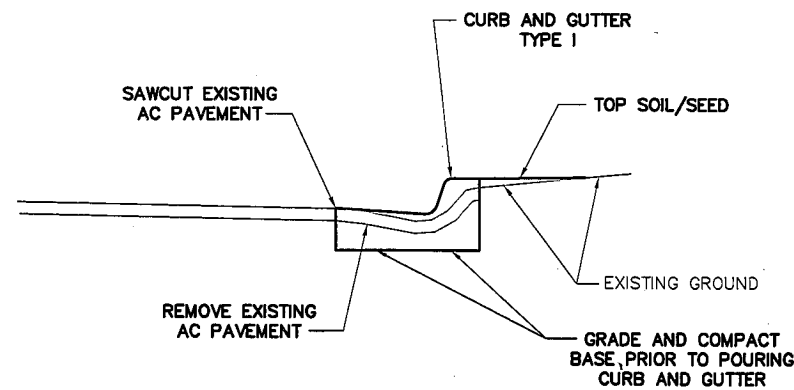


TYPICAL SECTION

NTS

TYPICAL SECTION NOTES

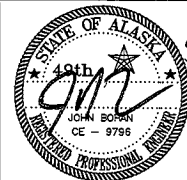
1. SEE HORIZONTAL AND VERTICAL CONTROL, CURB AND GUTTER LAYOUT AND GRADE DRAWINGS FOR GRADING DETAILS.
2. UNDERGROUND ELECTRICAL AND WATER AND SEWER SERVICES NOT SHOWN. SEE PLAN SHEETS FOR LOCATIONS.
3. DRIVEWAYS DISTURBED DURING CONSTRUCTION SHALL BE RECONSTRUCTED TO EQUAL, OR BETTER CONDITION WITH SUBGRADE REPLACED IN LAYERS TO MATCH THOSE REMOVED EXCEPT:
 - A) PAVED DRIVEWAYS SHALL BE SUBCUT TO 24-1/4 INCHES BELOW FINISH GRADE AND REPLACED WITH 18 INCHES OF SHOT ROCK BORROW, 4 INCHES OF BASE COURSE, GRADING D-1, AND 2-1/4 INCHES OF A.C. PAVEMENT FOR SIDEWALKS AND DRIVEWAYS.
 - B) CONCRETE DRIVEWAYS SHALL BE SUBCUT TO 24 INCHES BELOW FINISH GRADE AND REPLACED WITH 14 INCHES OF SHOT ROCK BORROW, 4 INCHES OF BASE COURSE, GRADING D-1, AND 6 INCHES OF CONCRETE.
 - C) ORGANICS, ROOTS, WOOD OR OTHER DELETERIOUS MATERIALS ENCOUNTERED IN THE DRIVEWAYS DURING EXCAVATION OPERATIONS SHALL NOT BE REPLACED, BUT SHALL BE DISPOSED OF AT AN APPROVED DISPOSAL SITE. BACKFILL VOIDS BELOW THE REQUIRED SUBBASE LAYER WITH USABLE MATERIAL FROM EXCAVATION.
4. ACCESS RAMPS SHALL CONFORM TO CBJ STANDARD 105 REGARDING CROSS SLOPES AND TRANSITIONS FOR THE DEPRESSED SIDEWALK, EXCEPT THE BACK OF SIDEWALK SHALL BE DEPRESSED TO PROVIDE A MAXIMUM 2% CROSS SLOPE.
5. TOP OF A.C. PAVEMENT SHALL BE 1/4 INCH TO 1/2 INCH ABOVE THE TOP EDGE OF CONCRETE GUTTER OR TOP OF CURB. TOP OF PAVEMENT GRADES GIVEN ON THE PLANS ARE 1/4 INCH BELOW ACTUAL FINISH PAVEMENT SURFACE.
6. 6-INCH THICK CONCRETE ACCESS RAMP PADS WITH 24"x48" DETECTABLE TILES SHALL BE CONSTRUCTED AT THE LOCATIONS AND TO THE LIMITS SHOWN ON THE DRAWINGS.
7. SANITARY SEWER, WATER AND STORM DRAIN SERVICES ARE NOT SHOWN ON TYPICAL SECTIONS. SEE PLAN VIEW DRAWINGS FOR DETAILS.
8. GRADE TOP OF CURB AT 2%.
9. THE BASE COURSE LAYER SHALL BE 4" TO 5" OF 2-INCH MINUS SHOT ROCK WITH 1" TO 2" TOP LAYER OF BASE COURSE, GRADING D-1 FOR A TOTAL THICKNESS OF 6". THE 2" MINUS SHOT ROCK SHALL BE WELL COMPACTED PRIOR TO PLACING THE BASE COURSE GRADING D-1.
10. BASE COURSE, GRADING D-1, MAY BE USED FOR THE FULL DEPTH OF THE BASE COURSE UNDER THE SIDEWALK AS A NO COST SUBSTITUTION.



TURN STREET CURB AND GUTTER

NTS

Revisions		
Date	Description	Intls.



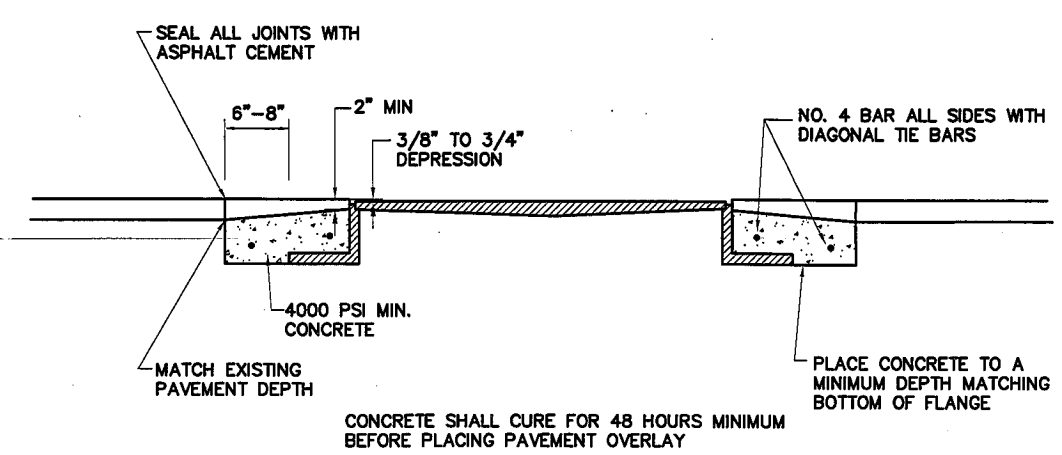
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 ENGINEERING DEPARTMENT

NORTHLAND STREET RECONSTRUCTION
 CONTRACT NO. E12-224

TYPICAL SECTION AND DETAILS

DATE: 3/13/12 DRAWN BY: STAFF SCALE: AS SHOWN

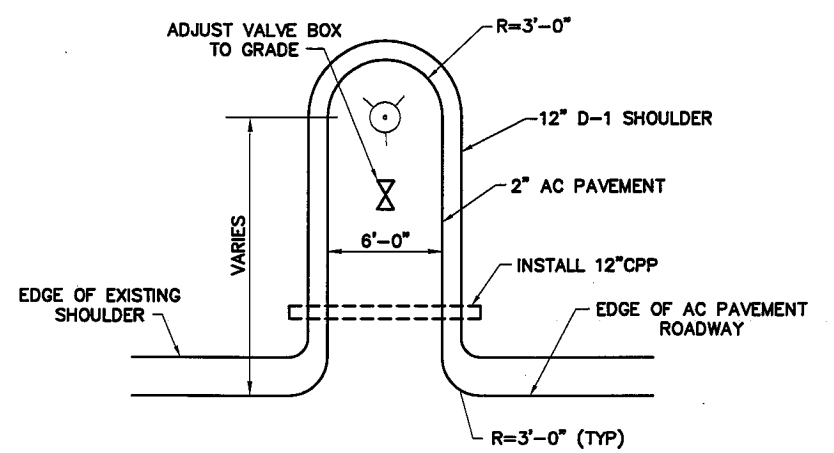
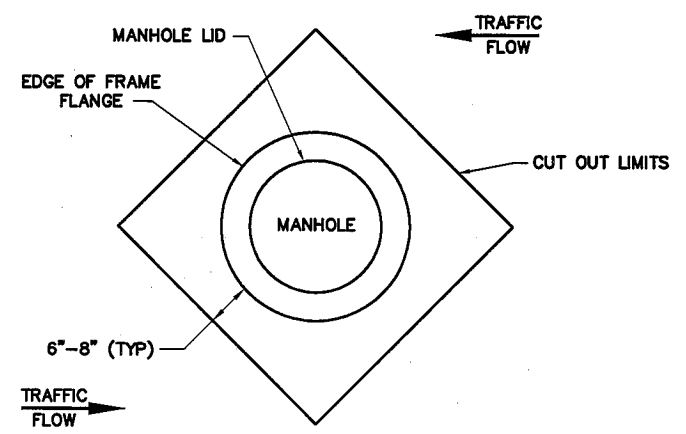
SHEET:
 3 of 14



CONCRETE TRANSITION SLAB DETAILS

NTS

MANHOLE FRAME SHALL BE RAISED TO FINISH GRADE PRIOR TO PAVING OPERATIONS. IF NOT WITHIN ALLOWABLE TOLERANCES AFTER PAVING OPERATION THE ABOVE DETAILS SHALL BE USED. TO BE COMPLETED AT CONTRACTORS EXPENSE.



CONSTRUCT HYDRANT ACCESS PAD WITH USABLE EXCAVATION AS NECESSARY, 4 INCHES BASE COURSE, GRADING D-1 AND 2" AC PAVEMENT.

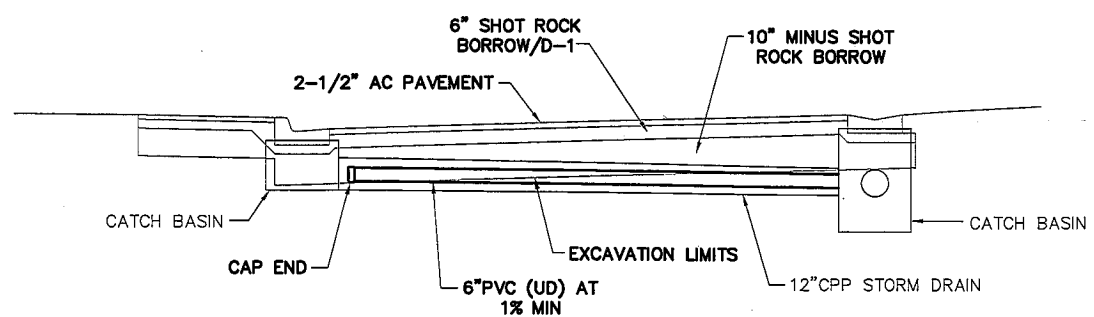
GUARD POSTS SHALL BE REUSED IN AREAS THEY EXIST. NEW GUARD POSTS ARE NOT REQUIRED WHERE THEY DO NOT CURRENTLY EXIST.

MAXIMUM ALLOWABLE GRADE IN ANY DIRECTION SHALL BE 2%.

CONTRACTORS ARE ENCOURAGED TO VISIT THE PROJECT SITE PRIOR TO BIDDING TO SEE THE EXTENT OF THE WORK FOR THE HYDRANT PADS.

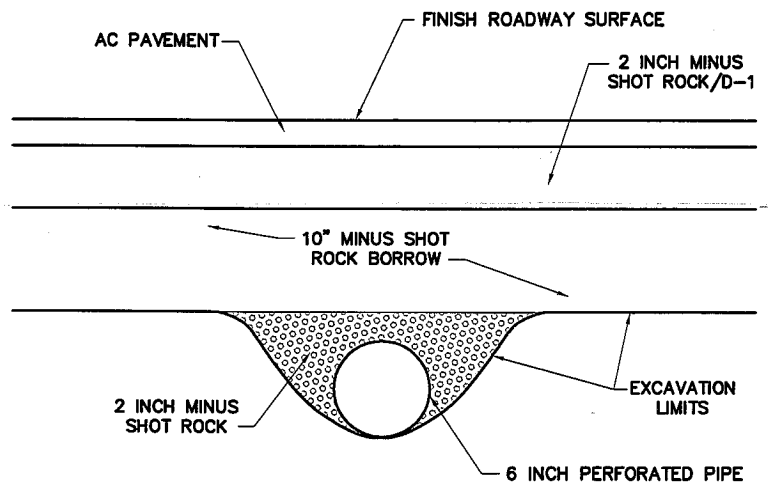
FIRE HYDRANT ACCESS PAD

NTS



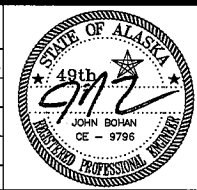
6 INCH CPP UNDERDRAIN

NTS



*ADJUST DEPTH AS REQUIRED TO MAINTAIN 1% MINIMUM GRADIENT

Revisions		
Date	Description	Intls.



5-1270
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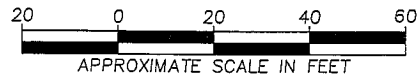
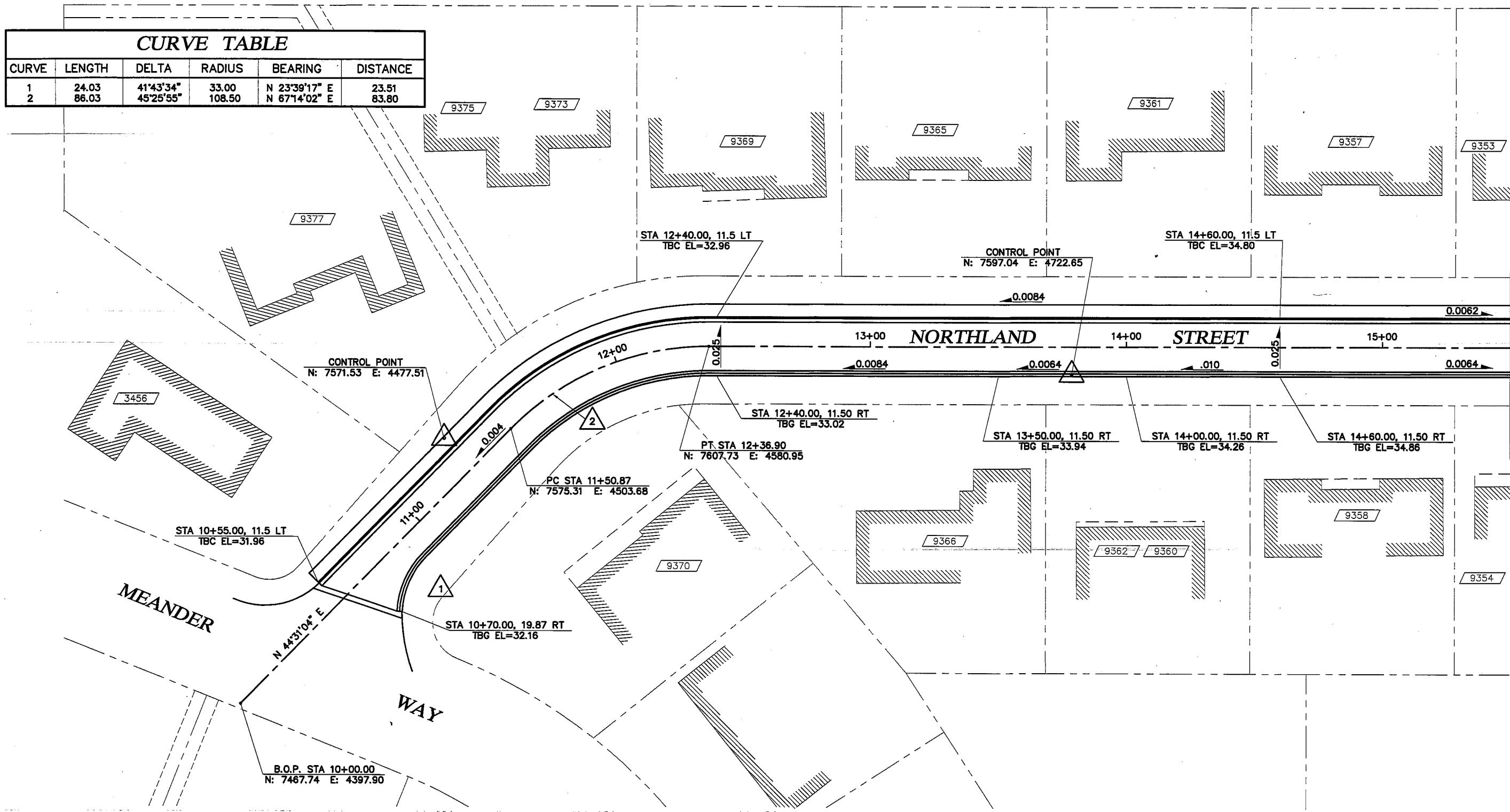
**NORTHLAND STREET
 RECONSTRUCTION**
 CONTRACT NO. E12-224

DETAILS

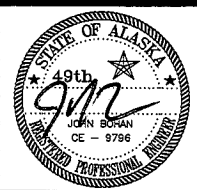
DATE: 4/30/12 DRAWN BY: STAFF SCALE: AS SHOWN

SHEET:
 4 of 14

CURVE TABLE					
CURVE	LENGTH	DELTA	RADIUS	BEARING	DISTANCE
1	24.03	41°43'34"	33.00	N 23°39'17" E	23.51
2	86.03	45°25'55"	108.50	N 67°14'02" E	83.80



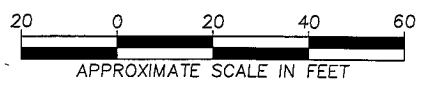
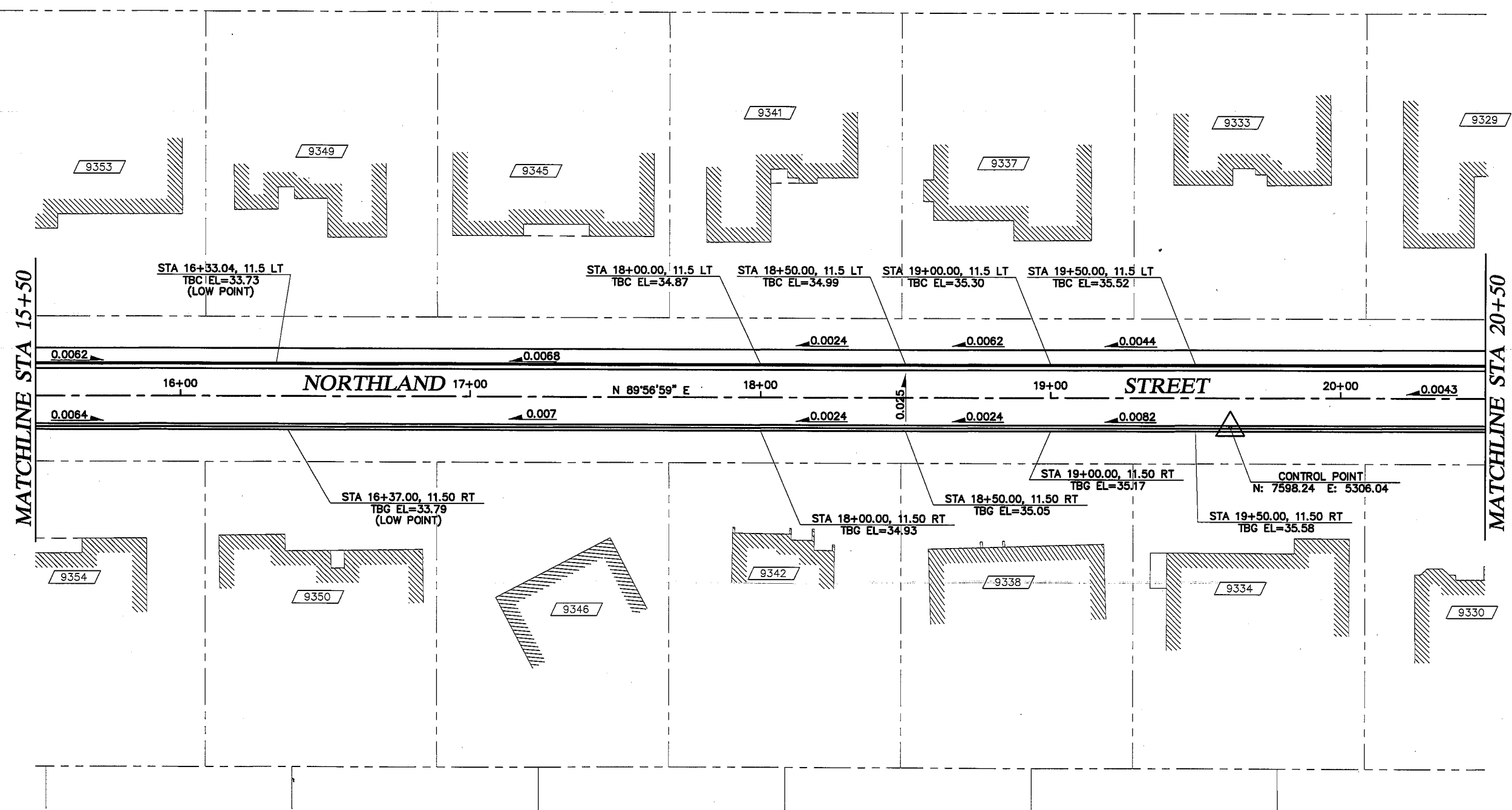
Revisions		
Date	Description	Intls.



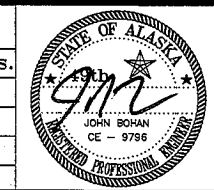
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 ENGINEERING DEPARTMENT

**NORTHLAND STREET
 RECONSTRUCTION
 CONTRACT NO. E12-224**

**HORIZONTAL AND VERTICAL CONTROL
 CURB AND GUTTER LAYOUT AND GRADES
 B.O.P. TO STA 15+50**
 DATE: 4/20/12 DRAWN BY: STAFF SCALE: AS SHOWN



Revisions		
Date	Description	Intls.



51270
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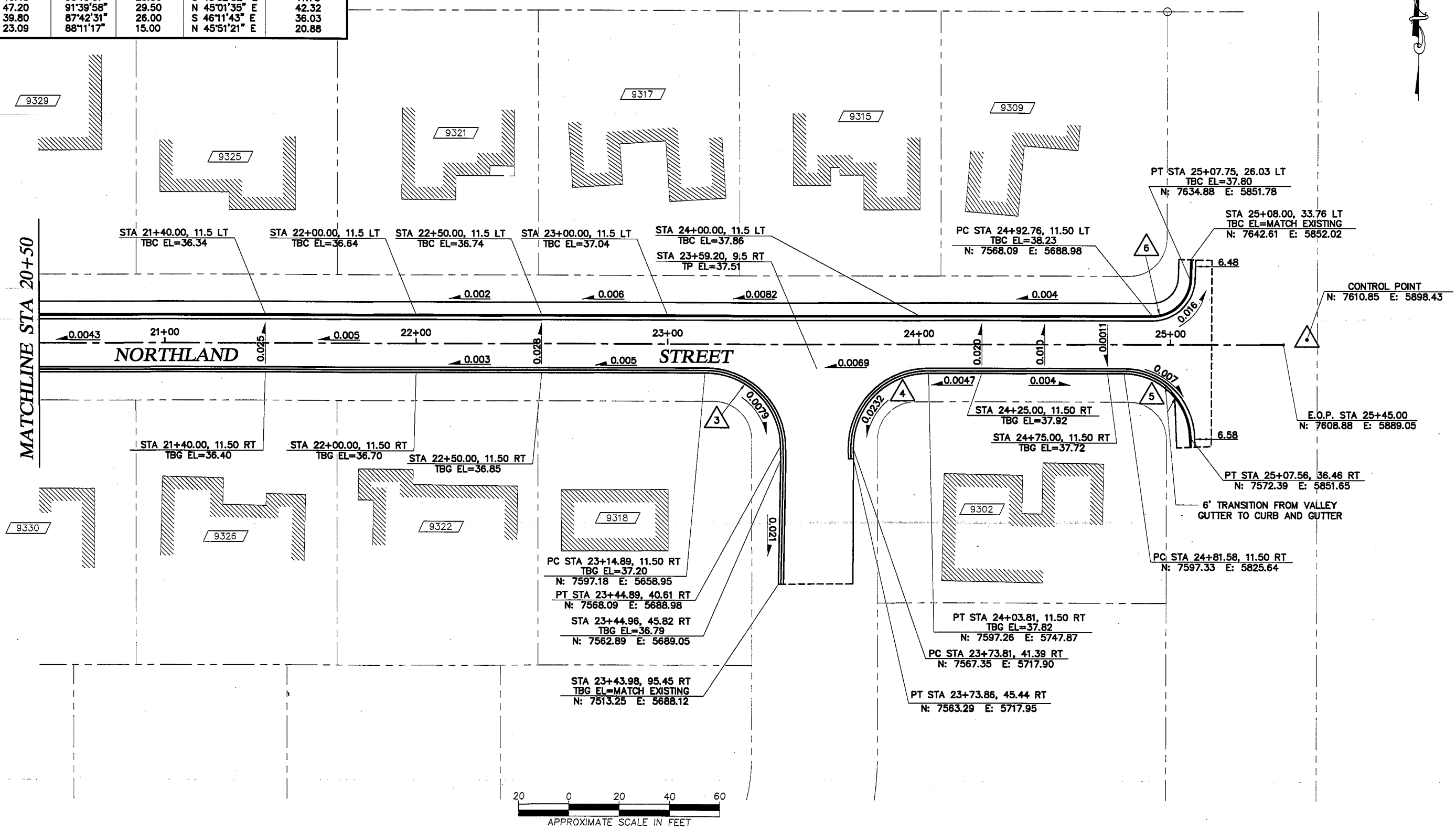
**NORTHLAND STREET
 RECONSTRUCTION**
 CONTRACT NO. E12-224

**HORIZONTAL AND VERTICAL CONTROL
 CURB AND GUTTER LAYOUT AND GRADES
 STA 15+50 TO STA 20+50**

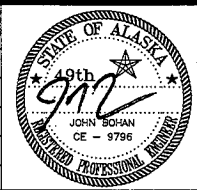
DATE: 4/30/12 DRAWN BY: STAFF SCALE: AS SHOWN

CURVE TABLE

CURVE	LENGTH	DELTA	RADIUS	BEARING	DISTANCE
3	46.43	90°10'07"	29.50	S 45°52'32" E	41.78
4	47.20	91°39'58"	29.50	N 45°01'35" E	42.32
5	39.80	87°42'31"	26.00	S 46°11'43" E	36.03
6	23.09	88°11'17"	15.00	N 45°51'21" E	20.88



Revisions		
Date	Description	Intls.

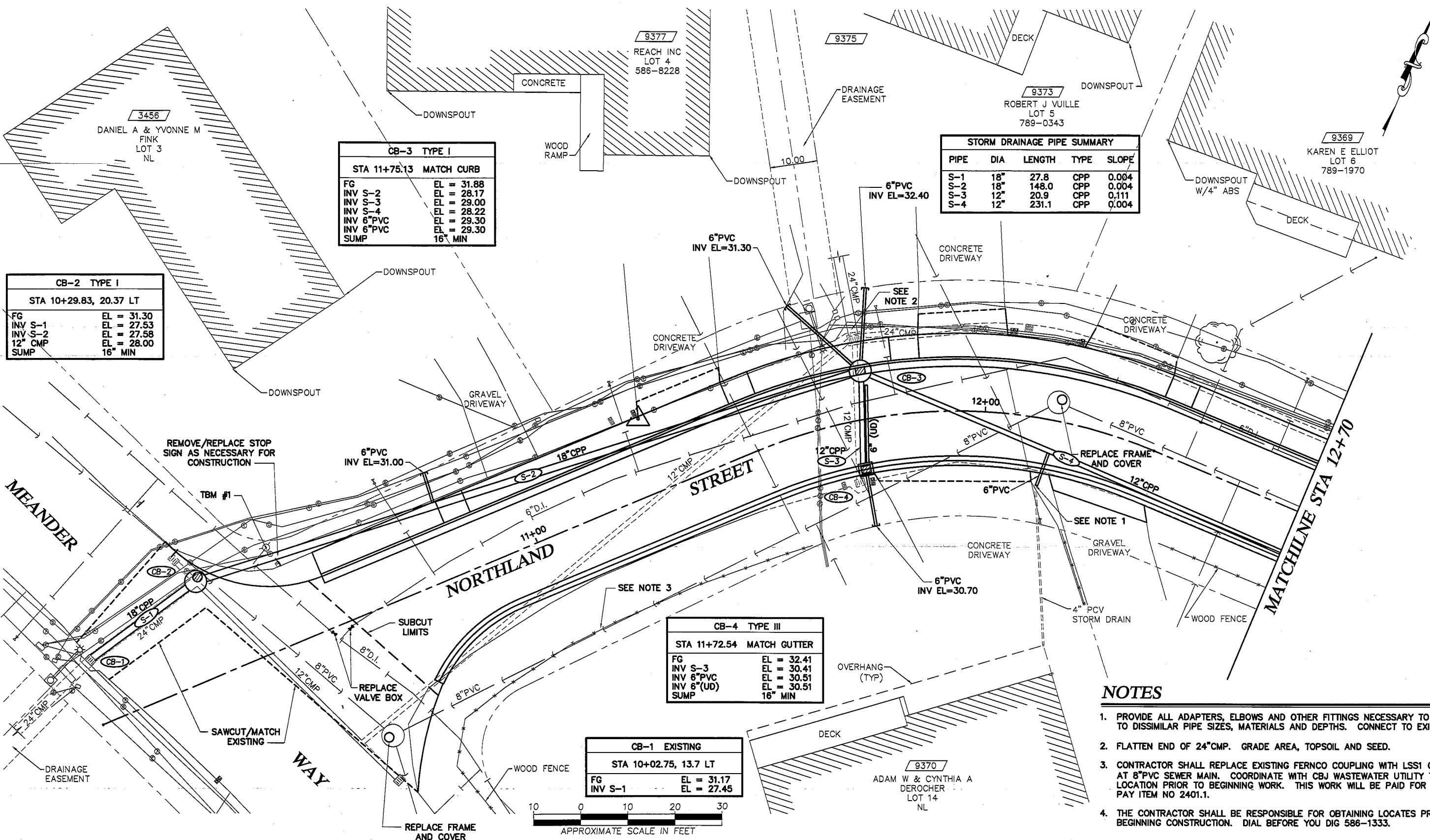


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**NORTHLAND STREET
 RECONSTRUCTION
 CONTRACT NO. E12-224**

**HORIZONTAL AND VERTICAL CONTROL
 CURB AND GUTTER LAYOUT AND GRADES
 STA 20+50 TO E.O.P.**

DATE: 4/30/12 DRAWN BY: STAFF SCALE: AS SHOWN



CB-3 TYPE I	
STA 11+75.13 MATCH CURB	
FG	EL = 31.88
INV S-2	EL = 28.17
INV S-3	EL = 29.00
INV S-4	EL = 28.22
INV 6" PVC	EL = 29.30
INV 6" PVC	EL = 29.30
SUMP	16" MIN

CB-2 TYPE I	
STA 10+29.83, 20.37 LT	
FG	EL = 31.30
INV S-1	EL = 27.53
INV S-2	EL = 27.58
12" CMP	EL = 28.00
SUMP	16" MIN

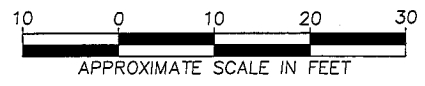
STORM DRAINAGE PIPE SUMMARY				
PIPE	DIA	LENGTH	TYPE	SLOPE
S-1	18"	27.8	CPP	0.004
S-2	18"	148.0	CPP	0.004
S-3	12"	20.9	CPP	0.111
S-4	12"	231.1	CPP	0.004

CB-4 TYPE III	
STA 11+72.54 MATCH GUTTER	
FG	EL = 32.41
INV S-3	EL = 30.41
INV 6" PVC	EL = 30.51
INV 6" (UD)	EL = 30.51
SUMP	16" MIN

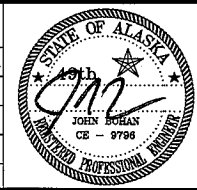
CB-1 EXISTING	
STA 10+02.75, 13.7 LT	
FG	EL = 31.17
INV S-1	EL = 27.45

NOTES

1. PROVIDE ALL ADAPTERS, ELBOWS AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS AND DEPTHS. CONNECT TO EXISTING
2. FLATTEN END OF 24" CMP. GRADE AREA, TOPSOIL AND SEED.
3. CONTRACTOR SHALL REPLACE EXISTING FERNCO COUPLING WITH LSS1 COUPLING AT 8" PVC SEWER MAIN. COORDINATE WITH CBJ WASTEWATER UTILITY TO VERIFY LOCATION PRIOR TO BEGINNING WORK. THIS WORK WILL BE PAID FOR UNDER PAY ITEM NO 2401.1.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATES PRIOR TO BEGINNING CONSTRUCTION. DIAL BEFORE YOU DIG 586-1333.



Revisions		
Date	Description	Intls.



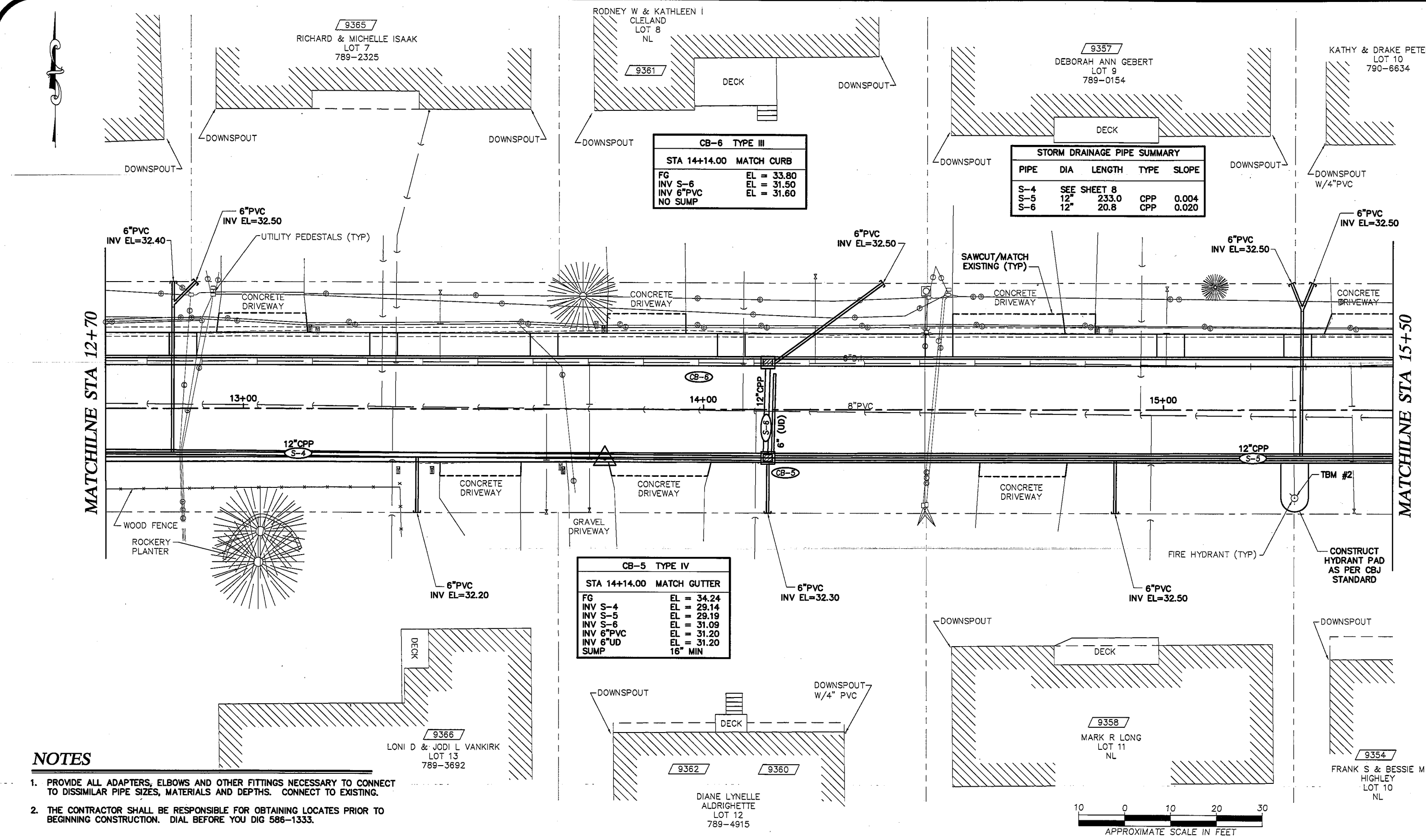
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 CITY AND BOROUGH OF JUNEAU
 ALASKA'S CAPITAL CITY
 ENGINEERING DEPARTMENT

**NORTHLAND STREET
 RECONSTRUCTION
 CONTRACT NO. E12-224**

**PLAN - NORTHLAND STREET
 B.O.P. TO STA 12+70**

DATE: 4/30/12 DRAWN BY: STAFF SCALE: AS SHOWN

SHEET:
 8 of 14



CB-6 TYPE III
STA 14+14.00 MATCH CURB

FG	EL = 33.80
INV S-6	EL = 31.50
INV 6\"PVC	EL = 31.60
NO SUMP	

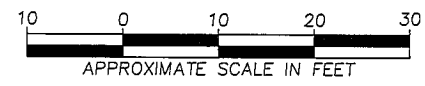
STORM DRAINAGE PIPE SUMMARY

PIPE	DIA	LENGTH	TYPE	SLOPE
S-4	SEE SHEET 8			
S-5	12"	233.0	CPP	0.004
S-6	12"	20.8	CPP	0.020

CB-5 TYPE IV
STA 14+14.00 MATCH GUTTER

FG	EL = 34.24
INV S-4	EL = 29.14
INV S-5	EL = 29.19
INV S-6	EL = 31.09
INV 6\"PVC	EL = 31.20
INV 6\"UD	EL = 31.20
SUMP	16\" MIN

- NOTES**
1. PROVIDE ALL ADAPTERS, ELBOWS AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS AND DEPTHS. CONNECT TO EXISTING.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATES PRIOR TO BEGINNING CONSTRUCTION. DIAL BEFORE YOU DIG 586-1333.



Revisions		
Date	Description	Intls.

Prepared by:
 CITY AND BOROUGH OF JUNEAU
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 ENGINEERING DEPARTMENT

5-10-72

**NORTHLAND STREET
 RECONSTRUCTION**
 CONTRACT NO. E12-224

**PLAN - NORTHLAND STREET
 STA 12+70 TO STA 15+50**

DATE: 4/30/12 DRAWN BY: STAFF SCALE: AS SHOWN

SHEET:
 9 of 14

STORM DRAINAGE PIPE SUMMARY				
PIPE	DIA	LENGTH	TYPE	SLOPE
S-5	SEE SHEET 9			
S-7	12"	320.5	CPP	0.004
S-8	12"	20.8	CPP	0.020

9353
KATHY & DRAKE PETERSON
LOT 10
790-6634

9349
RONALD J SMITH
LOT 11
789-1273

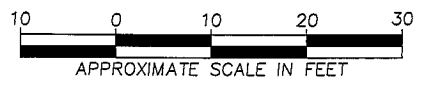
9345
ALLAN G SCHLICHT
LOT 12
586-2952

9341
REMIGIO JR & CHRISTINA
MAIQUIS
LOT 13
789-2866

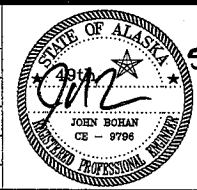
CB-8 TYPE III	
STA 16+33.04 MATCH CURB	
FG	EL = 33.17
INV S-8	EL = 31.08
INV 6" PVC	EL = 31.20
NO SUMP	

CB-7 TYPE IV	
STA 14+04.00 MATCH GUTTER	
FG	EL = 33.62
INV S-5	EL = 30.12
INV S-7	EL = 30.17
INV S-8	EL = 30.67
INV 6" PVC	EL = 31.50
INV 6" UD	EL = 31.50
SUMP 16" MIN	

- NOTES**
1. PROVIDE ALL ADAPTERS, ELBOWS AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS AND DEPTHS. CONNECT TO EXISTING.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATES PRIOR TO BEGINNING CONSTRUCTION. DIAL BEFORE YOU DIG 586-1333.



Revisions		
Date	Description	Intls.



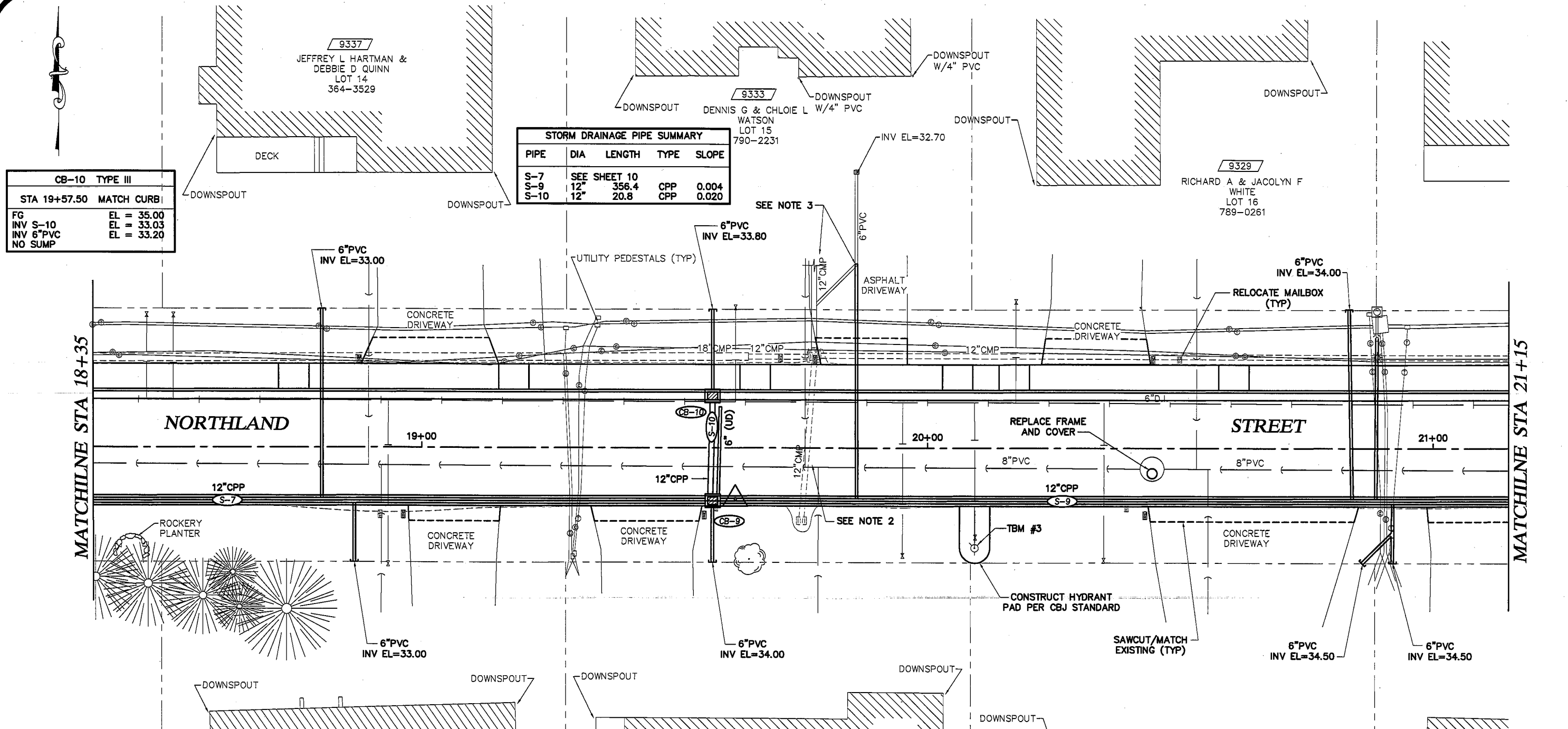
Prepared by:
CITY AND BOROUGH OF JUNEAU
★ ALASKA'S CAPITAL CITY
ENGINEERING DEPARTMENT

**NORTHLAND STREET
RECONSTRUCTION
CONTRACT NO. E12-224**

**PLAN - NORTHLAND STREET
STA 15+50 TO STA 18+35**

DATE: 4/30/12 DRAWN BY: STAFF SCALE: AS SHOWN

SHEET:
10 of 14



STORM DRAINAGE PIPE SUMMARY

PIPE	DIA	LENGTH	TYPE	SLOPE
S-7	SEE SHEET 10			
S-9	12"	356.4	CPP	0.004
S-10	12"	20.8	CPP	0.020

CB-10 TYPE III

STA 19+57.50 MATCH CURB I

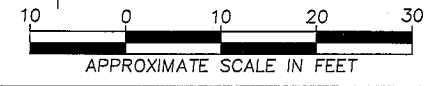
FG	EL = 35.00
INV S-10	EL = 33.03
INV 6\"/>	
NO SUMP	EL = 33.20

- NOTES**
1. PROVIDE ALL ADAPTERS, ELBOWS AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS AND DEPTHS. CONNECT TO EXISTING
 2. CONTRACTOR SHALL REPAIR LEAKING SEWER SERVICE AT MAIN. COORDINATE WITH CBJ WASTEWATER UTILITY TO VERIFY LOCATION PRIOR TO BEGINNING WORK. THIS WORK WILL BE PAID FOR UNDER PAY ITEM NO 2401.1.
 3. LOCATION OF 6\"/>
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATES PRIOR TO BEGINNING CONSTRUCTION. DIAL BEFORE YOU DIG 586-1333.

CB-9 TYPE IV

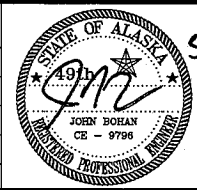
STA 19+57.50 MATCH GUTTER

FG	EL = 35.44
INV S-7	EL = 31.45
INV S-9	EL = 31.55
INV S-10	EL = 32.62
INV 6\"/>	
INV 6\"/>	
SUMP	16\"/>



Revisions

Date	Description	Intls.



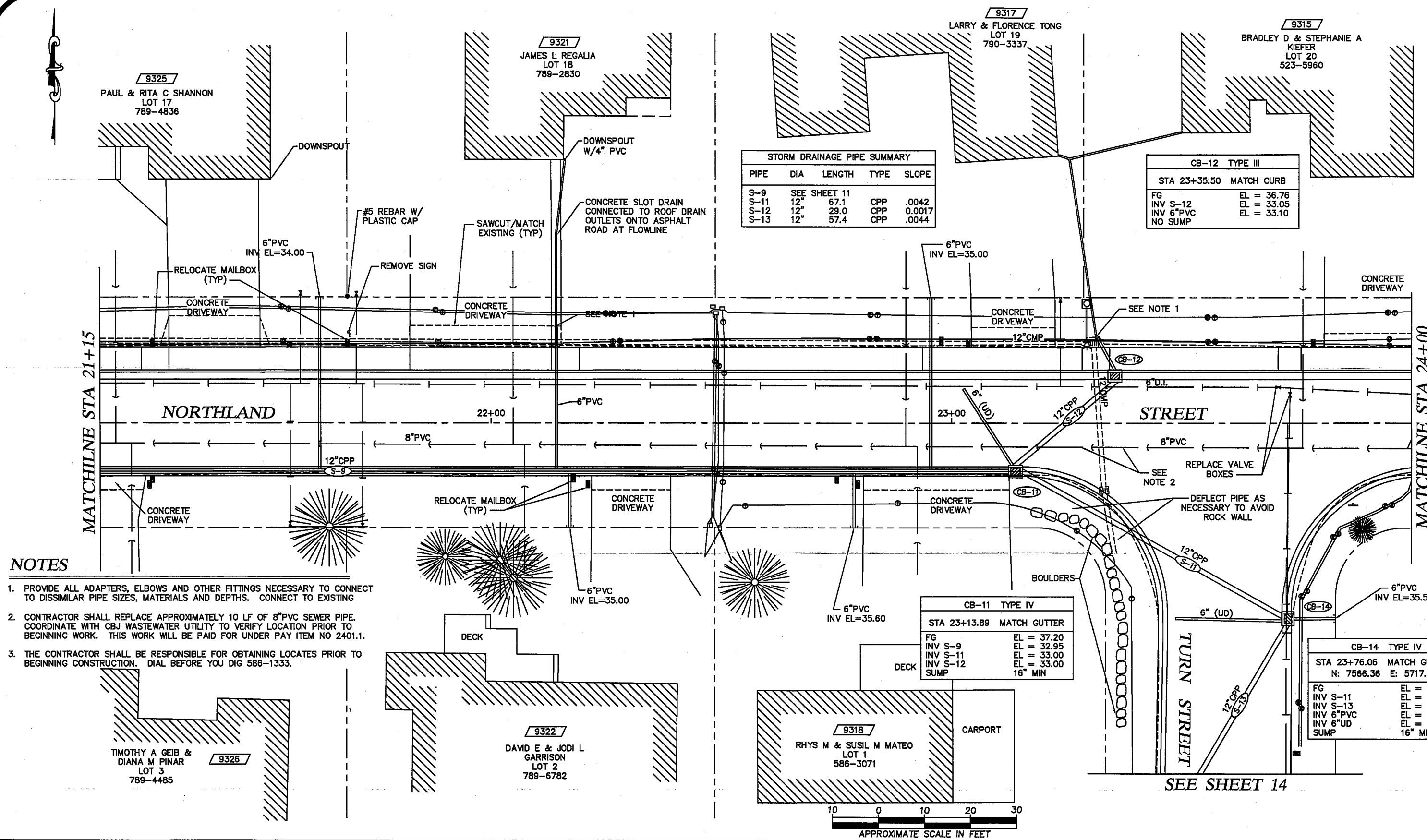
Prepared by:
 CITY AND BOROUGH OF JUNEAU
 ★ ALASKA'S CAPITAL CITY
 ENGINEERING DEPARTMENT

**NORTHLAND STREET
 RECONSTRUCTION
 CONTRACT NO. E12-224**

**PLAN - NORTHLAND STREET
 STA 18+35 TO STA 21+15**

DATE: 4/30/12 DRAWN BY: STAFF SCALE: AS SHOWN

SHEET:
 11 of 14



STORM DRAINAGE PIPE SUMMARY

PIPE	DIA	LENGTH	TYPE	SLOPE
S-9	SEE SHEET 11			
S-11	12"	67.1	CPP	.0042
S-12	12"	29.0	CPP	0.0017
S-13	12"	57.4	CPP	.0044

CB-12 TYPE III

STA 23+35.50	MATCH CURB
FG	EL = 36.76
INV S-12	EL = 33.05
INV 6" PVC	EL = 33.10
NO SUMP	

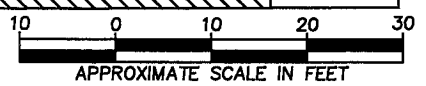
CB-11 TYPE IV

STA 23+13.89	MATCH GUTTER
FG	EL = 37.20
INV S-9	EL = 32.95
INV S-11	EL = 33.00
INV S-12	EL = 33.00
SUMP	16" MIN

CB-14 TYPE IV

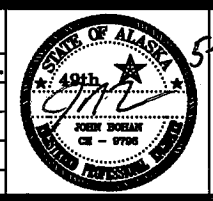
STA 23+76.06	MATCH GUTTER
N: 7566.36	E: 5717.19
FG	EL = 36.94
INV S-11	EL = 33.28
INV S-13	EL = 33.33
INV 6" PVC	EL = 35.00
INV 6" UD	EL = 35.00
SUMP	16" MIN

- NOTES**
1. PROVIDE ALL ADAPTERS, ELBOWS AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS AND DEPTHS. CONNECT TO EXISTING
 2. CONTRACTOR SHALL REPLACE APPROXIMATELY 10 LF OF 8" PVC SEWER PIPE. COORDINATE WITH CBJ WASTEWATER UTILITY TO VERIFY LOCATION PRIOR TO BEGINNING WORK. THIS WORK WILL BE PAID FOR UNDER PAY ITEM NO 2401.1.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATES PRIOR TO BEGINNING CONSTRUCTION. DIAL BEFORE YOU DIG 586-1333.



Revisions

Date	Description	Intls.

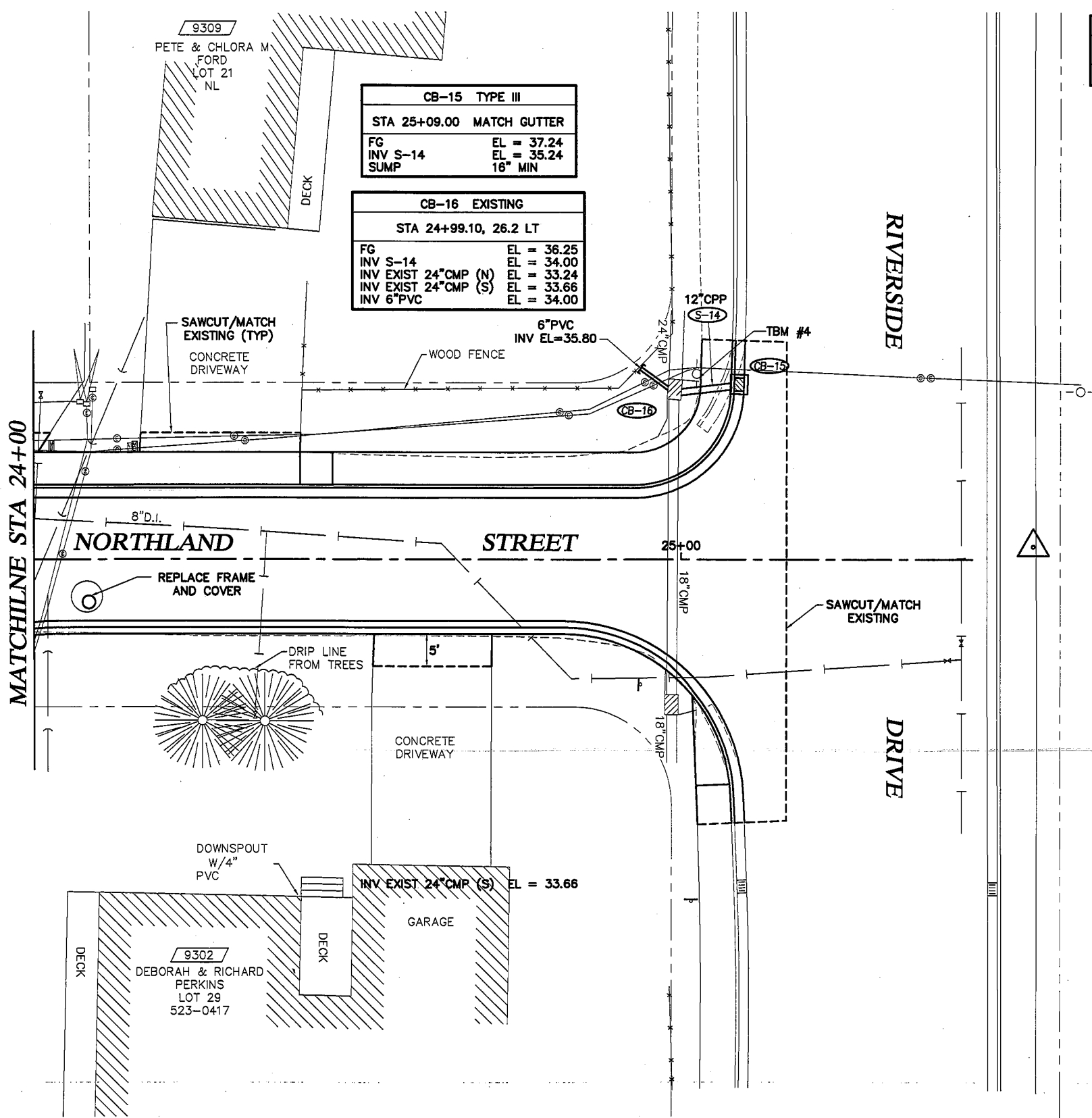


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CITY AND BOROUGH OF JUNEAU
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ENGINEERING DEPARTMENT

NORTHLAND STREET RECONSTRUCTION
 CONTRACT NO. E12-224

PLAN - NORTHLAND STREET
 STA 21+15 TO STA 24+00

DATE: 4/30/12 DRAWN BY: STAFF SCALE: AS SHOWN



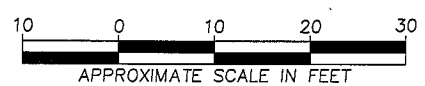
CB-15 TYPE III	
STA 25+09.00 MATCH GUTTER	
FG	EL = 37.24
INV S-14	EL = 35.24
SUMP	16" MIN

CB-16 EXISTING	
STA 24+99.10, 26.2 LT	
FG	EL = 36.25
INV S-14	EL = 34.00
INV EXIST 24" CMP (N)	EL = 33.24
INV EXIST 24" CMP (S)	EL = 33.66
INV 6" PVC	EL = 34.00

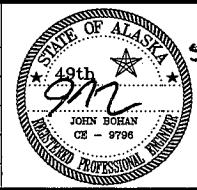
STORM DRAINAGE PIPE SUMMARY				
PIPE	DIA	LENGTH	TYPE	SLOPE
S-14	12"	10.0	CPP	0.124

NOTES

1. PROVIDE ALL ADAPTERS, ELBOWS AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS AND DEPTHS. CONNECT TO EXISTING.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATES PRIOR TO BEGINNING CONSTRUCTION. DIAL BEFORE YOU DIG 586-1333.



Revisions		
Date	Description	Intls.



Prepared by:
 CITY AND BOROUGH OF JUNEAU
 ALASKA'S CAPITAL CITY
 ENGINEERING DEPARTMENT

**NORTHLAND STREET
 RECONSTRUCTION
 CONTRACT NO. E12-224**

**PLAN - NORTHLAND STREET
 STA 24+10 TO E.O.P.**

DATE: 4/30/12 DRAWN BY: STAFF SCALE: AS SHOWN

SHEET:
 13 of 14

CB-13 TYPE III	
STA 23+45.90	MATCH GUTTER
FG	EL = 35.58
INV S-13	EL = 33.58
SUMP	16" MIN

9302
DEBORAH & RICHARD
PERKINS
LOT 29
523-0417

9321

9317

SEE SHEET 12

EXISTING EDGE OF PAVEMENT

STREET

BEGIN TYPE I CURB AND GUTTER

TOP SOIL AND SEED
ALONG BACK OF CURB
AS NEEDED

END TYPE I CURB
AND GUTTER

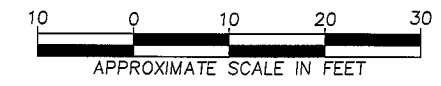
ABANDON EXISTING CATCH BASIN
SEE NOTE 2

SAWCUT EXISTING
ASPHALT

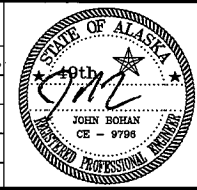
TURN

NOTES

1. PROVIDE ALL ADAPTERS, ELBOWS AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS AND DEPTHS. CONNECT TO EXISTING
2. REMOVE EXISTING FRAME AND GRATE AND RETURN TO VALLEY STREETS DEPARTMENT. FILL CATCH BASIN WITH 2 INCH MINUS SHOT ROCK.
3. CONTRATOR SHALL VERIFY GRADE NEEDED TO UNIFORMLY DRAIN ALONG FLOWLINE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATES PRIOR TO BEGINNING CONSTRUCTION. DIAL BEFORE YOU DIG 586-1333.



Revisions		
Date	Description	Intls.



5-10-12
Prepared by:
CITY AND BOROUGH OF JUNEAU
★ ALASKA'S CAPITAL CITY
ENGINEERING DEPARTMENT

**NORTHLAND STREET
RECONSTRUCTION
CONTRACT NO. E12-224**

DATE: 4/30/12
DRAWN BY: STAFF
SCALE: AS SHOWN

SHEET:
14 of 14