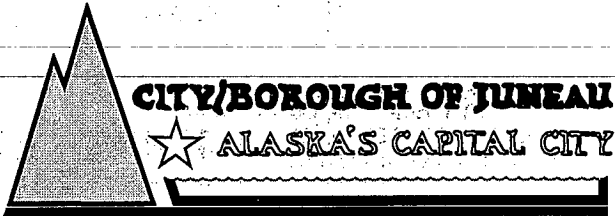
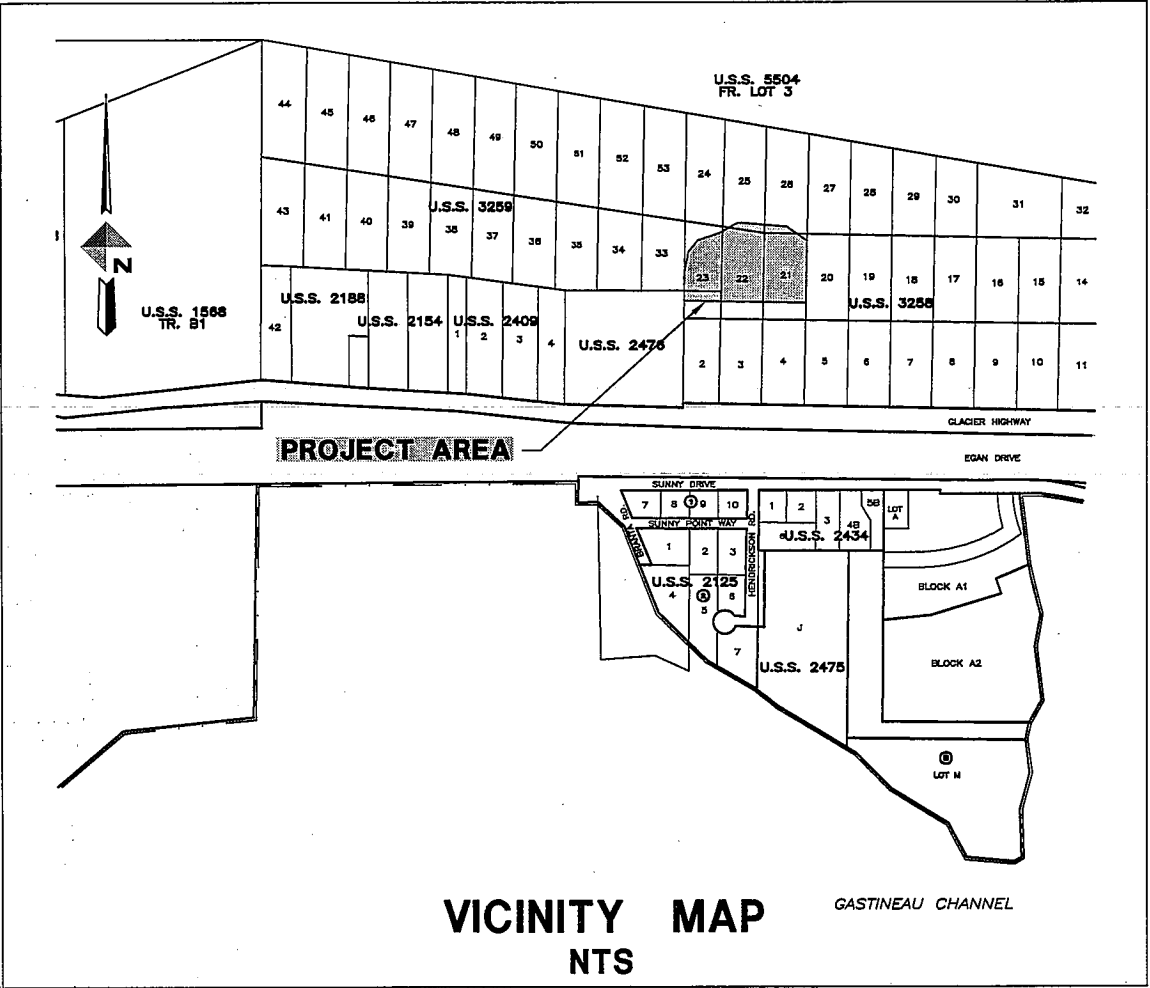


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CONSOLIDATED PUBLIC  
WORKS FACILITY, PHASE III  
CONTRACT NO. E12-011



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APPROVED BY	DATE
DIRECTOR OF PUBLIC WORKS	6/27/11
SIGNATURE	DATE
CHIEF CIP ENGINEER	6/27/11
SIGNATURE	DATE

SHEET NO.  
1 of 15

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## LEGEND

DESCRIPTION	EXISTING	REMOVE	PROPOSED
BURIED ELECTRICAL UTILITIES			
CATCH BASIN			
CONTROL POINT			
CURB & GUTTER			
CUT LIMITS			
DRAINAGE SWALE OR DITCH			
FILL LIMITS			
FIRE HYDRANT			
PROJECT CONTROL LINE			
PROPERTY LINE			
SANITARY SEWER PIPE			
SANITARY SEWER MANHOLE			
STORM DRAIN PIPE			
STORM DRAIN MANHOLE			
ALUMINUM PRIMARY MONUMENT			
BLM/GLO BRASS CAP MONUMENT			
WATER LINE PIPE			
WATER VALVE BOX			

CATCH BASIN FRAME AND GRATE TABLE:

CATCH BASIN No.	EAST JORDAN IRON WORKS, OLYMPIC FOUNDRY CO., CBJ STANDARD NO., OR APPROVED EQUAL
CB-1	EJIW 7701 T2 HOOD W/ 7700 M3 GRATE
CB-2	OFCO MH34SC FRAME AND SLOTTED COVER.
CB-3	OFCO MH34SC FRAME AND SLOTTED COVER.
CB-4	OFCO MH34SC FRAME AND SLOTTED COVER.
CB-5	OFCO MH34SC FRAME W/ MH34 SOLID COVER WITH "DRAIN" FOR LETTERING.
CB-6	OFCO MH34SC FRAME W/ MH34 SOLID COVER WITH "DRAIN" FOR LETTERING.
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.	

## ABBREVIATIONS

CB	CATCH BASIN
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED POLYETHYLENE PIPE
CONC	CONCRETE
CTE	CONNECT TO EXISTING
DI	DUCTILE IRON
DIA	DIAMETER
FG	FINISHED GRADE
INV	INVERT
LT	LEFT
MH	MANHOLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PVC	POLYVINYL CHLORIDE PIPE
RAP	RECYCLED ASPHALT PAVEMENT
RT	RIGHT
SHLD	SHOULDER
STA	STATION
STD	STANDARD

ABBREVIATIONS TO BE USED WITHOUT PERIODS

## QUANTITIES BREAKDOWN ESTIMATE (SEE NOTE BELOW)

OVERBURDEN (IF ASSUMED 12" THICK)	4,600 CY
PEAT (ASSUMING 12" THICK OVERBURDEN)	10,000 CY
WET, SILTY SANDS AND GRAVELS	12,500 CY *
SANDS AND GRAVELS FROM FORMER ADOT/PF STORAGE AREA	1,000 CY *
TOTAL EXCAVATION	28,100 CY
*THESE MATERIALS WILL BE CONSIDERED TO BE USABLE MATERIALS FROM EXCAVATION	

## ON-SITE USAGE FOR USABLE MATERIALS FROM EXCAVATION (SEE NOTE BELOW)

AS SELECTED BORROW BENEATH SHOT ROCK BORROW	4,400 CY
AS LEVELING COURSE OVER SHOT ROCK BORROW WITHIN FUTURE BUILDING PADS	160 CY
FOR EXPANSION OF FORMER ADOT/PF STORAGE AREA	2,100 CY
FOR TEMPORARY RAMP TO FORMER ADOT/PF STORAGE AREA	1,000 CY
TOTAL USABLE MATERIAL FROM EXCAVATION TO BE USED ON-SITE	7,660 CY
TOTAL USABLE MATERIAL FROM EXCAVATION TO BE WASTED OFF-SITE	5,840 CY

NOTE: THE QUANTITIES SHOWN ABOVE ARE ESTIMATES ONLY AND SHALL BE USED FOR INFORMATIONAL PURPOSES ONLY. THE ONLY PAY ITEM WITHIN THESE TABLES IS ITEM NO. 2202.1, EXCAVATION, WHICH WILL BE MEASURED BASED ON ACTUAL BOTTOM OF SUBCUT REMEASURE SURVEY, OR THE NEAT LINE SUBCUT LIMITS, WHICHEVER IS APPLICABLE.

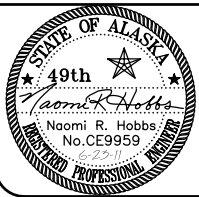
## GENERAL NOTES

- LARGE BOULDERS, STUMPS, LOGS, ORGANICS AND GROUND WATER MAY BE ENCOUNTERED AT VARIOUS DEPTHS DURING EXCAVATION OPERATIONS.
- CBJ ENGINEERING STANDARD DETAILS BOOK DATED APRIL, 2000 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.
- GRADING AND ALIGNMENT ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER.
- LOCATION OF PROPOSED STORM DRAINAGE FACILITIES ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER.
- PROPERTY LINE LOCATIONS USED IN THESE PLANS ARE DERIVED FROM RECORD PLATS AND DO NOT REPRESENT A BOUNDARY SURVEY.
- PROVIDE KNOCKOUTS IN CATCH BASINS FOR ALL PIPES SHOWN ON THE PLANS.
- 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. BRASS CAP MONUMENTS, REBARS, CONCRETE NAILS, ALUMINUM CAP MONUMENTS AND ETC) PRIOR TO CONSTRUCTION AND REMONUMENT AFTER SURFACING IN REPLACED. ALL WORK SHALL BE DONE BY, OR UNDER THE DIRECTION OF AND ALASKA REGISTERED LAND SURVEYOR.
- ONLY HORIZONTAL ELBOW FITTINGS (BENDS) ARE SHOWN (NOT ALL ARE LABELED) ON PLANS. ADDITIONAL FITTINGS WILL BE REQUIRED FOR VERTICAL DEFLECTIONS NEAR CONNECTIONS TO EXISTING PIPES, AND AT OTHER LOCATIONS REQUIRING GRADE CHANGES TO AVOID CONFLICTS.
- THE PLAN SHEETS DO NOT SHOW ALL TREES AND OTHER VEGETATION THAT WILL BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES. NO TREES OR OTHER VEGETATION ARE TO BE REMOVED OR DAMAGED BEYOND THE DESIGNATED CLEARING LIMITS UNLESS APPROVED OR DIRECTED BY THE ENGINEER.
- THE USE OF GROUT AND QUICKSET CEMENT PRODUCTS WITH ADJUSTING RINGS, BRICKS, WOOD, STONES AND OTHER SIMILAR GRADE ADJUSTMENT DEVICES TO SUPPORT CATCH BASIN FRAMES OVER CATCH BASINS AND MANHOLES WILL NOT BE PERMITTED ON THIS PROJECT.
- ALL CONTOURS SHOWN ON THE DRAWINGS ARE EXISTING CONTOURS. FINISH GRADES SHALL BE AS INDICATED ON THE DRAWINGS, AND AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL ARRANGE FOR UTILITY LOCATES PRIOR TO BEGINNING EXCAVATION OPERATIONS. UNDERGROUND UTILITIES MAY EXIST THAT ARE NOT SHOWN ON THE DRAWINGS. DIAL BEFORE YOU DIG AT 586-1333.

## TRAFFIC CONTROL NOTES:

- ALL TRAFFIC SHALL BE CONTROLLED PER THE REQUIREMENTS OF THE ALASKA TRAFFIC MANUAL (U.S. DEPARTMENT OF TRANSPORTATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE ALASKA SUPPLEMENT).
- ALL DETOURS SHALL BE AS APPROVED BY THE ENGINEER.

ONE INCH AT FULL  
SIZE  
1"  
IF NOT ONE INCH,  
SCALE ACCORDINGLY



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JOB NO: J70393 DRAWN BY: STAFF DESIGNED BY: N. HOBBS CHECKED BY: P. HILDRE DATE: JUNE 2011



CITY/BOROUGH OF JUNEAU  
ALASKA'S CAPITAL CITY

DEPARTMENT OF ENGINEERING

CONSOLIDATED PUBLIC  
WORKS FACILITY,  
PHASE III, E12-011

LEGEND, ABBREVIATIONS, GENERAL NOTES,  
EXCAVATION QUANTITIES BREAKDOWN  
TABLES, AND FRAME AND GRATE TABLE

SHEET NO.

2

TOTAL SHEETS

2 - 15

GENERAL NOTES

1. ALL INDIVIDUAL MINING PLANS SHALL BE APPROVED, IN WRITING, BY THE OWNER PRIOR TO CLEARING OR EXCAVATION.

2. ALL OVERBURDEN SHALL BE REMOVED TO A MINIMUM DISTANCE OF 15' FROM THE FINISHED WORKING FACE.

3. THE CUTBANK OF THE OVERBURDEN SHALL BE SLOPED TO THE NATURAL ANGLE OF REPOSE, BUT SHALL BE NO STEEPER THAN 1 TO 1.

4. ALL DEAD TREES AND SNAGS WHICH ARE SUFFICIENTLY TALL TO REACH THE WORK AREA SHALL BE FELLED.

5. ALL OVERBURDEN, CLEARING, MERCHANTABLE TIMBER AND GRUBBING DEBRIS SHALL BE DISPOSED OF OFF SITE, OR AS DIRECTED BY THE ENGINEER.

6. THE QUARRY SHALL BE LEFT IN A NEAT, ORDERLY AND WELL DRAINED CONDITION. ALL OVERHANGS AND LOOSE ROCK SHALL BE REMOVED.

7. AFTER EXCAVATION IS COMPLETE, THE AREA SHALL BE CLEANED UP AND LEFT AS SHOWN ON THE QUARRY USAGE PLAN.

8. ALL MATERIALS LEAVING THE QUARRY LIMITS SHALL BE CONTAINED WITHIN THE HAULING VEHICLE.

9. ALL DEBRIS AND OTHER BY-PRODUCTS OF TOPSOIL SCREENING OPERATIONS SHALL BE DISPOSED OF OFF SITE, OR AS APPROVED BY THE CITY.

10. APPROXIMATE LIMITS OF DEVELOPMENT SPECIFIC TO THIS PROJECT WILL BE FIELD STAKED BY THE CITY.

11. THE MATERIALS WITHIN THE QUARRY THAT ARE MADE AVAILABLE TO THE CONTRACTOR FOR THIS PROJECT, MAY NOT MEET THE MATERIAL SPECIFICATIONS FOR THIS PROJECT WITHOUT PROCESSING EFFORTS BY THE CONTRACTOR. THESE EFFORTS MAY INCLUDE, BUT ARE NOT LIMITED TO, SCREENING AND SORTING AND PRIMARY CRUSHING.

12. MATERIAL STOCKPILED OFF-SITE MUST HAVE PRIOR APPROVAL OF THE PROJECT MANAGER.

13. ALL THE REQUIREMENTS AND CONDITIONS OF CONDITIONAL USE PERMIT NUMBER USE200I-00022 AND VAR200I-00017, SHALL BE MET. IN PARTICULAR, NOTE THE CONDITIONS WITH REGARD TO THE EAGLE TREES, BLASTING, NOISE MANAGEMENT PLAN AND TRAFFIC CONTROL.

14. THE CONTRACTOR SHALL COORDINATE EXTRACTION ACTIVITY WITH OTHER CONTRACTORS WHO MAY BE USING THE SITE PER CONDITIONAL USE PERMIT NUMBER USE200I-00022 AND VAR200I-00017.

15. COMPRESSION BRAKES SHALL BE USED ONLY AS NECESSARY FOR SAFETY AND SHALL MEET THE REQUIREMENTS OF THE NOISE MANAGEMENT PLAN.

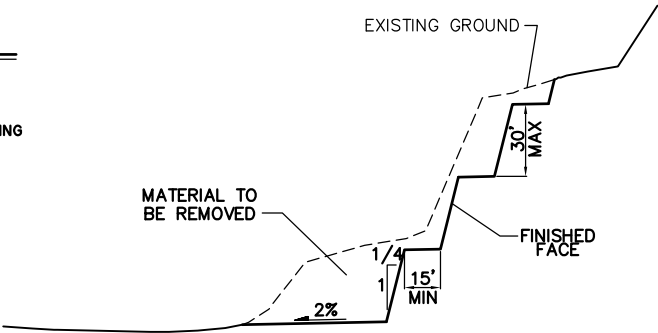
16. ALL QUARRY OPERATIONS SHALL BE RESTRICTED TO THE FOLLOWING TIME PERIODS:  
17. MONDAY THROUGH FRIDAY FROM 8:00 AM - 4:30 PM. BLASTING IS RESTRICTED TO 10:00 AM - 12:00 PM AND 1:00 PM - 3:00 PM, MONDAY THROUGH FRIDAY.

18. MARCH 1 THROUGH MAY 31 IS AN EAGLE NESTING PERIOD. NO BLASTING WITHIN 330'. BLASTING IS ALLOWED AFTER MAY 31 WITH AN EAGLE MONITOR PRESENT. IF NEST IS NOT OCCUPIED, A MONITOR IS NOT REQUIRED. DRILLING IS ALLOWED OUTSIDE OF THE 330' ZONE.

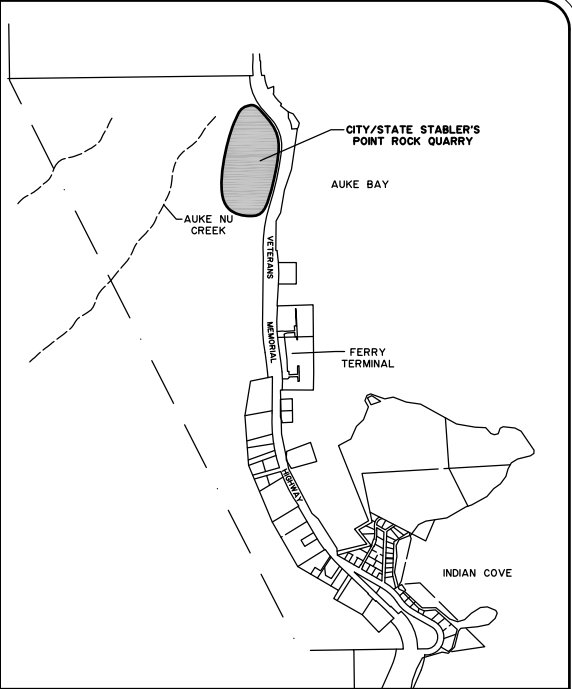
19. AREA SURVEYED JAN 2011.

19. THE CONTRACTOR SHALL SUBMIT A \$10,000 CASH BOND FOR ROCK OR TOPSOIL PROCESSING WITHIN THE QUARRY PROJECT MINING AREA.
20. ACCESS TO OTHER MINING AREAS MUST BE MAINTAINED THROUGH THE EXCAVATION MINING AREA.
21. ORGANIC OVERBURDEN FREE FROM LARGE WOODY DEBRIS MAY BE PLACED TO A DEPTH OF ONE FOOT ON THE FILL SLOPE OF THE LOWER ACCESS ROAD.
22. RELOCATE EQUIPMENT ACCESS IF REMOVAL IS NECESSARY.

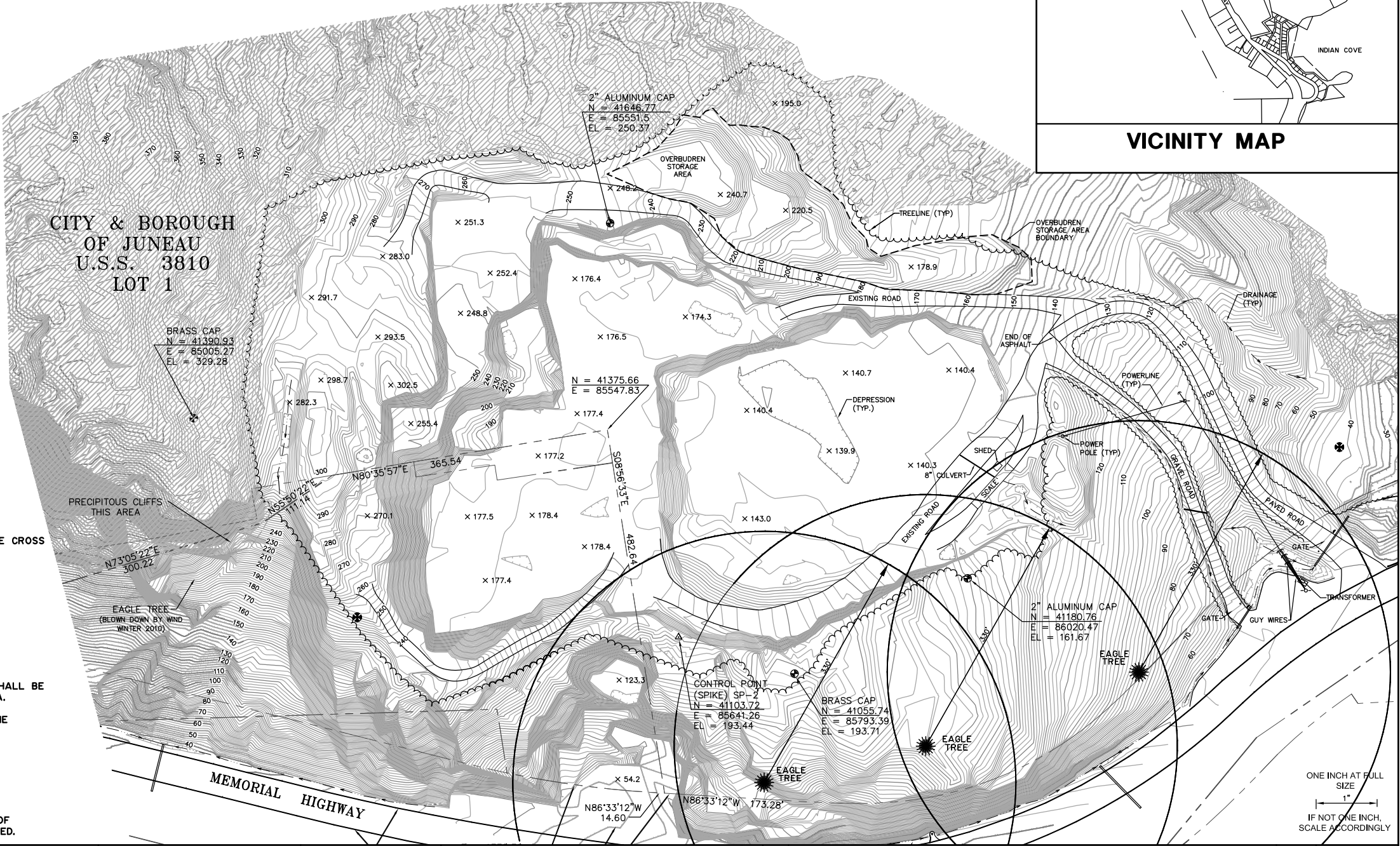
GENERAL LIMITS OF DEVELOPMENT  
AVAILABLE FOR THIS PROJECT WORK  
AREA WILL BE STAKED BY THE  
ENGINEER PRIOR TO CONSTRUCTION



SAMPLE SECTION A-A



VICINITY MAP



INDIVIDUAL MINING PLAN

- THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION TO THE OWNER PRIOR TO BEGINNING ANY OPERATIONS WITHIN THE QUARRY LIMITS.
- OPERATIONS SHALL NOT PROCEED UNTIL THE CONTRACTOR'S INDIVIDUAL MINING PLAN HAS BEEN APPROVED BY THE CITY.
- A. MINING PLAN - INCLUDE PLANNED TOTAL EXCAVATION QUANTITY, PLANNED SECTION (SEE SAMPLE CROSS SECTION A-A), EXCAVATION LIMITS, CLEARING AND GRUBBING LIMITS.

B. NOISE CONTROL PLAN AND EQUIPMENT SOUND CERTIFICATIONS.

C. STRIPPING / OVERBURDEN DISPOSAL PLAN.

D. DRAINAGE AND POLLUTION PLAN.

E. RECLAMATION PLAN.

F. A TRAFFIC CONTROL PLAN APPROVED BY ADOT/PF.

G. ALL CONTRACTOR INDIVIDUAL MINING PLANS FOR REMOVAL OF MATERIAL FROM THE QUARRY SHALL BE PREPARED BY A REGISTERED CIVIL ENGINEER LICENSED TO PRACTICE IN THE STATE OF ALASKA.

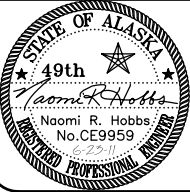
H. EACH TRUCK SHALL RECORD ITS LOAD WEIGHT ON A CBJ SCALE TICKET PRIOR TO LEAVING THE QUARRY.

I. THE MANAGEMENT FEE FOR MATERIAL IS \$1.60/TON.

J. ALL CONTRACTORS MUST BE IN GOOD STANDING WITH THE CITY AND BOROUGH OF JUNEAU.

K. ALL MATERIAL FEES SHALL BE PAID PRIOR TO FINAL PAYMENT.

L. IF THE CONTRACTOR ELECTS TO USE THIS MATERIAL SOURCE FOR THIS PROJECT, ESTIMATES OF QUANTITIES AND A MINING PLAN MUST BE SUBMITTED WITHIN TWO WEEKS OF NOTICE TO PROCEED.



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PHASE III, E12-011

STABLERS POINT  
QUARRY USAGE PLAN

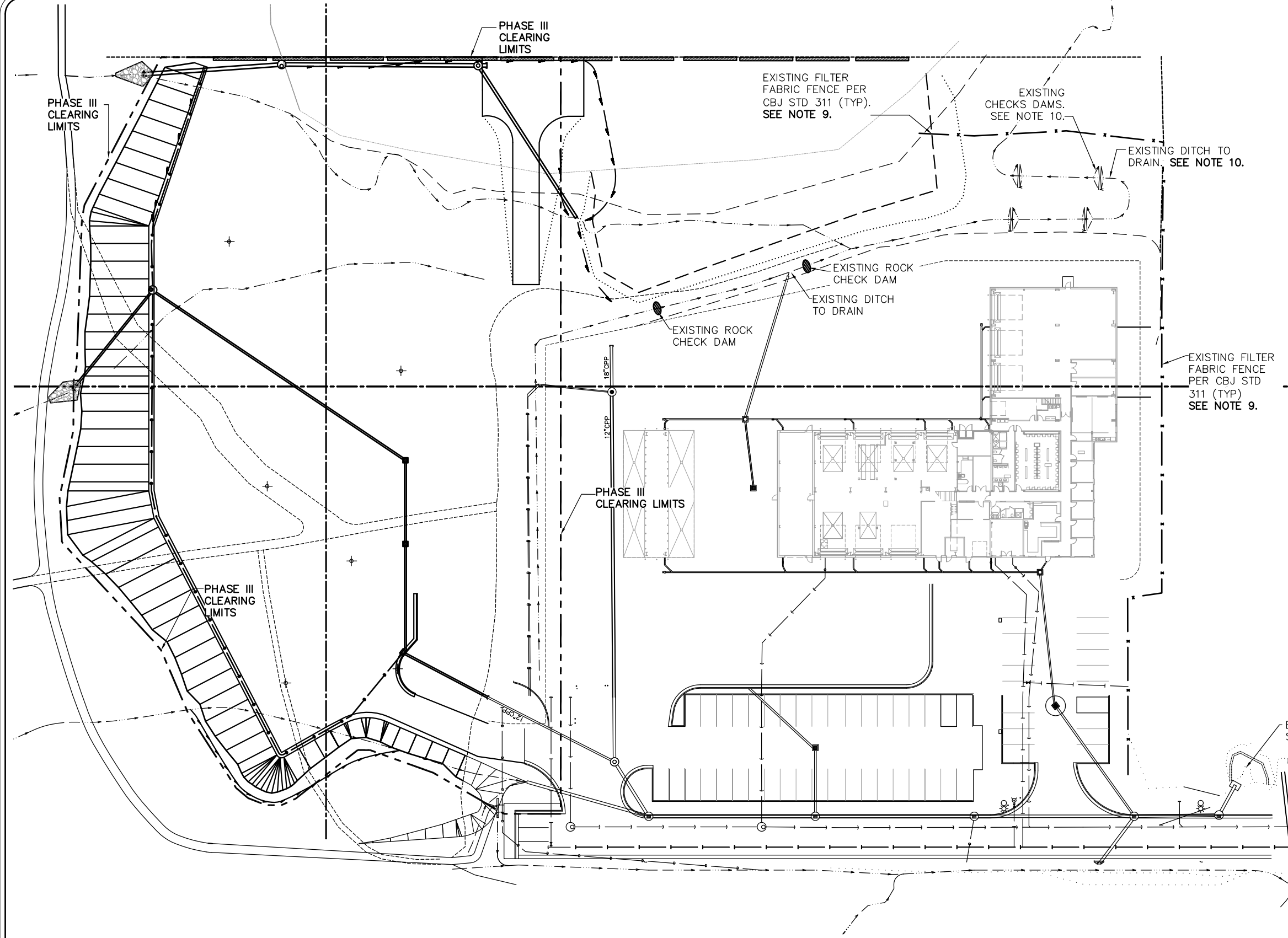
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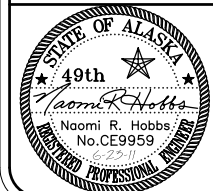
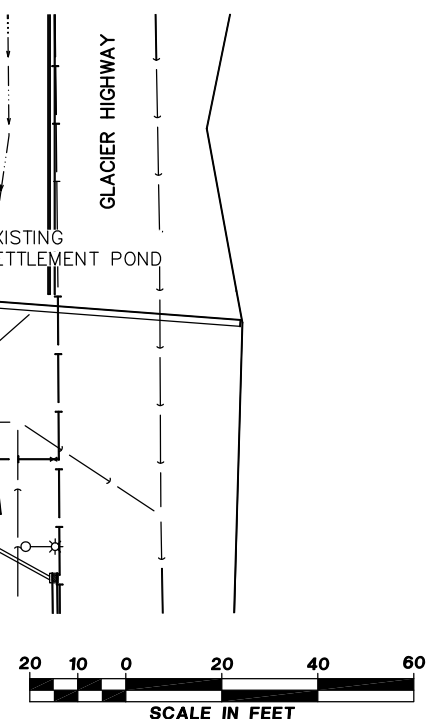
TOTAL SHEETS


3 - 15

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- ESCP CONSTRUCTION NOTES:**
1. NO RUNOFF FROM THE CONSTRUCTION AREA SHALL BE PERMITTED TO DISCHARGE FROM THE SITE WITHOUT PASSING THROUGH ONE OF THE TWO SETTLING BASINS. GRADE THE SITE AT ALL PHASES OF CONSTRUCTION AS NECESSARY.
  2. ALL WORK SHOWN ON THIS SHEET WILL BE PAID UNDER BID ITEM 1570.1, EROSION AND SEDIMENT CONTROL.
  3. A CONSTRUCTION GENERAL PERMIT (CGP) WITH ASSOCIATED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED FOR THIS PROJECT. THIS EROSION AND POLLUTION CONTROL PLAN REPRESENTS THE MINIMUM REQUIREMENTS FOR THE CGP AND SWPPP. THE CONTRACTOR SHALL PREPARE A SWPPP, APPLY FOR THE CGP, SUBMIT A NOTICE OF INTENT (N.O.I.) TO THE ENVIRONMENTAL PROTECTION AGENCY (EPA) AND IMPLEMENT AND MAINTAIN THE SWPPP, ALL IN ACCORDANCE WITH THEIR CONSTRUCTION METHODOLOGIES.
  4. ALL STORMWATER MANAGEMENT FACILITIES SHALL BE MAINTAINED BY THE CONTRACTOR AS NECESSARY TO FUNCTION PROPERLY.
  5. ALL APPLICABLE EPA AND ALASKA DEC STORM WATER PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AS PART OF BID ITEM 1570.1, EROSION AND SEDIMENT CONTROL.
  6. HYDROSEED EXPOSED SOIL SLOPES WHEN IN FINAL LOCATION AND SLOPE TO ESTABLISH VEGETATION AND MINIMIZE SLOPE EROSION.
  7. ADDITIONAL TEMPORARY ROCK CHECK DAMS SHALL BE INSTALLED DURING EXCAVATION OPERATIONS IN ACCORDANCE WITH THE CONTRACTOR'S CONSTRUCTION SEQUENCING AND METHODOLOGIES, SO AS TO MINIMIZE RUNOFF VELOCITIES AND SEDIMENT TRANSPORT.
  8. OTHER BEST MANAGEMENT PRACTICES (BMP'S) AS DETERMINED APPROPRIATE OR NECESSARY BY THE ENGINEER SHALL BE IMPLEMENTED BY THE CONTRACTOR.
  9. VERIFY CONDITION OF EXISTING FILTER FABRIC FENCE, REPLACE AS NECESSARY.
  10. MAINTAIN EXISTING DRAINAGE DITCHES AND ROCK CHECK DAMS IN WORKING CONDITION.

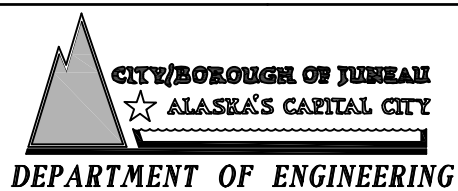




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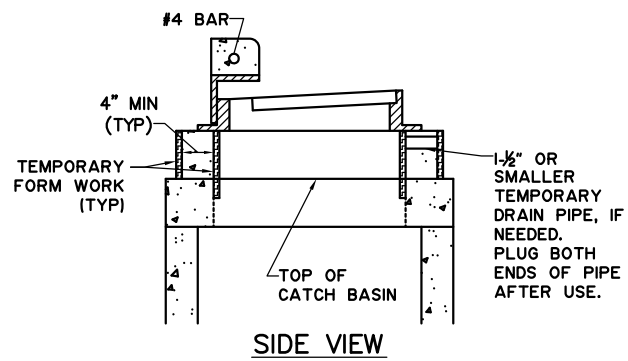
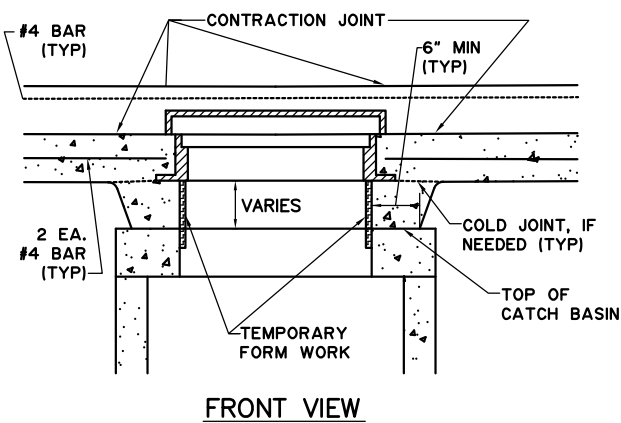
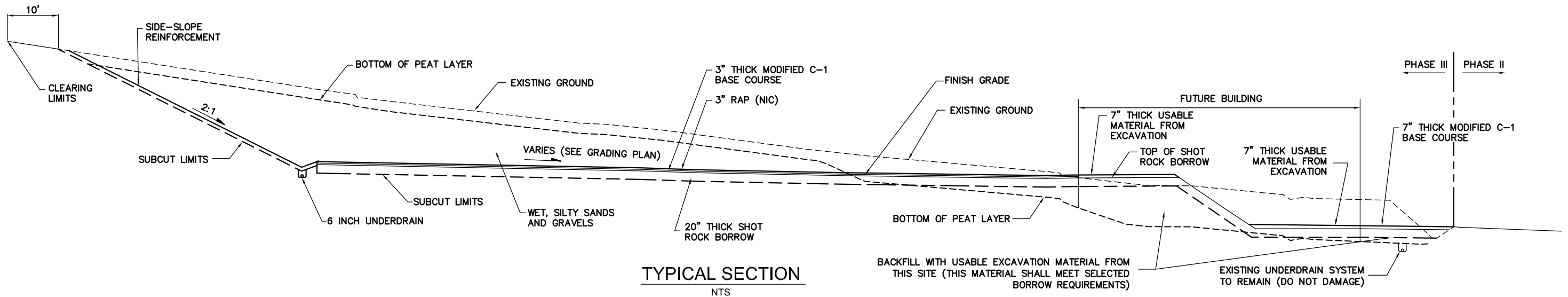


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**EROSION AND SEDIMENT  
CONTROL PLAN AND  
CLEARING LIMITS**

SHEET NO.  
**4**

TOTAL SHEETS  
**4 - 15**

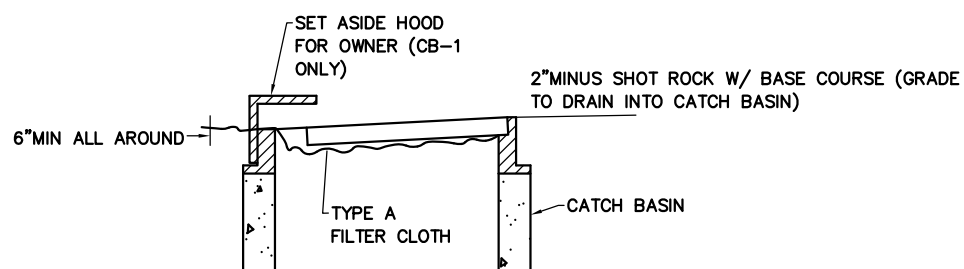


THESE DETAILS SHALL APPLY TO SUPPORT STRUCTURE BETWEEN THE CATCH BASIN STRUCTURE AND THE FRAME. CONCRETE CURB AND GUTTER NOT IN CONTRACT.

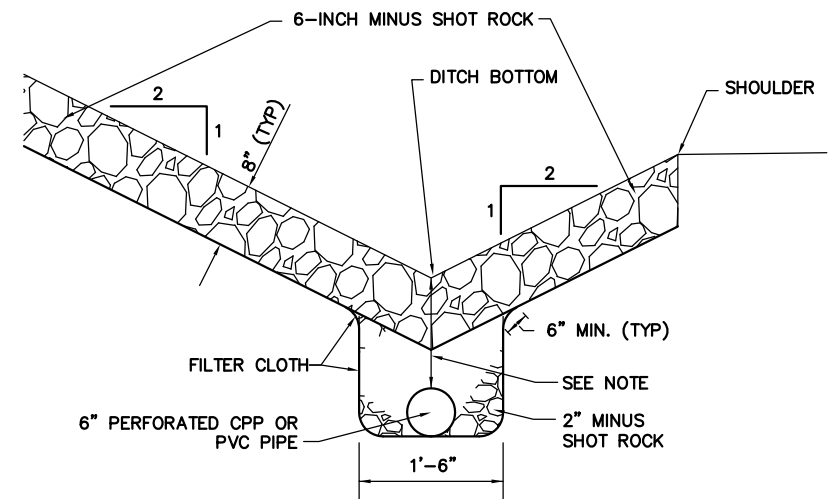
**CATCH BASIN FRAME SUPPORT DETAIL**  
NTS

**DETAILS NOTES:**

- A) ALL VOIDS BETWEEN THE TOP OF THE CATCH BASIN AND THE FRAME (EXCEPT A 1/4 INCH MAXIMUM THICKNESS GROUT BED MAY BE APPLIED IF TWO CONCRETE POURS MADE) SHALL BE FILLED WITH CONCRETE MEETING THE REQUIREMENTS OF SECTION 03302 - CONCRETE STRUCTURES. NO BRICKS, WOOD, STONES, ADJUSTING RINGS, OR OTHER GRADE ADJUSTMENT DEVICES SHALL BE USED.
- B) CBJ STANDARD DETAIL 303- STORM DRAIN MANHOLES TYPES I AND II IS REVISED AS FOLLOWS:
  - DELETE NOTE I
  - DELETE THE DRAWING NOTES THAT READ: "IF MANHOLE IS IN PAVED ROADWAY, INSTALL CONCRETE COLLAR PER STANDARD 126", "FRAME AND GRATE SHALL CONFORM TO STD 206", AND "ADJUSTING RINGS SEE NOTE I", AND REPLACE WITH "FRAME AND COVER SHALL CONFORM WITH STANDARD 306" AND "ASPHALT PAVEMENT SHALL BE USED FOR ADJUSTMENT OF FRAME TO FINISH GRADE".
- C) TEMPORARY FORM WORK SHALL BE CONSTRUCTED TO PROVIDE A SMOOTH INSIDE EXPOSED SURFACE. AFTER REMOVAL OF FORM WORK, THE EXPOSED SURFACES SHALL BE FINISHED AS REQUIRED TO PROVIDE A SURFACE FREE OF VOIDS AND PROJECTIONS.
- D) THIS DETAIL SHALL ALSO APPLY TO TYPE I MANHOLES. THE CONCRETE FRAME SUPPORT MAY BE CONSTRUCTED WITH A RECTANGULAR SHAPE TO MATCH THE FRAME (OVER A CIRCULAR MANHOLE OPENING), BUT MUST BE CONSTRUCTED WITH A CIRCULAR INSIDE SHAPE FOR INSTALLATION OF A CIRCULAR FRAME. GROUT SHALL BE USED AS NECESSARY TO SLOPE INSIDE LEVEL AREAS OF TOP SLAB FOR DRAINAGE.
- E) NOTES A-D APPLY FOR CATCH BASINS AND MANHOLES SET TO FINAL GRADE. THE NOTES AND DETAILS REGARDING SETTING THE FRAME ONTO THE CATCH BASIN SHALL APPLY FOR THE DETAIL SHOWN BELOW.



**CATCH BASIN SEDIMENT CONTROL DETAIL**  
NTS

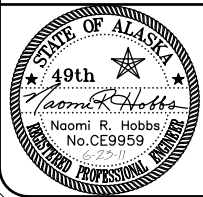


NOTE: DEPTH VARIES. SEE PLAN DRAWING FOR UNDERDRAIN GRADING

**6-INCH UNDERDRAIN AND SIDESLOPE ROCK STABILIZATION**  
NTS

ONE INCH AT FULL SIZE  
1"  
IF NOT ONE INCH, SCALE ACCORDINGLY

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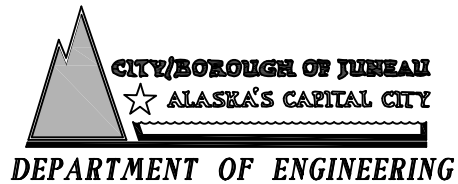


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DRAWN BY: STAFF
DESIGNED BY: N. HOBBS
CHECKED BY: P. HILDRE
DATE: JUNE 2011

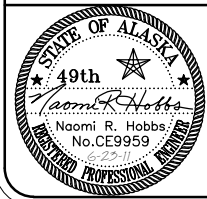
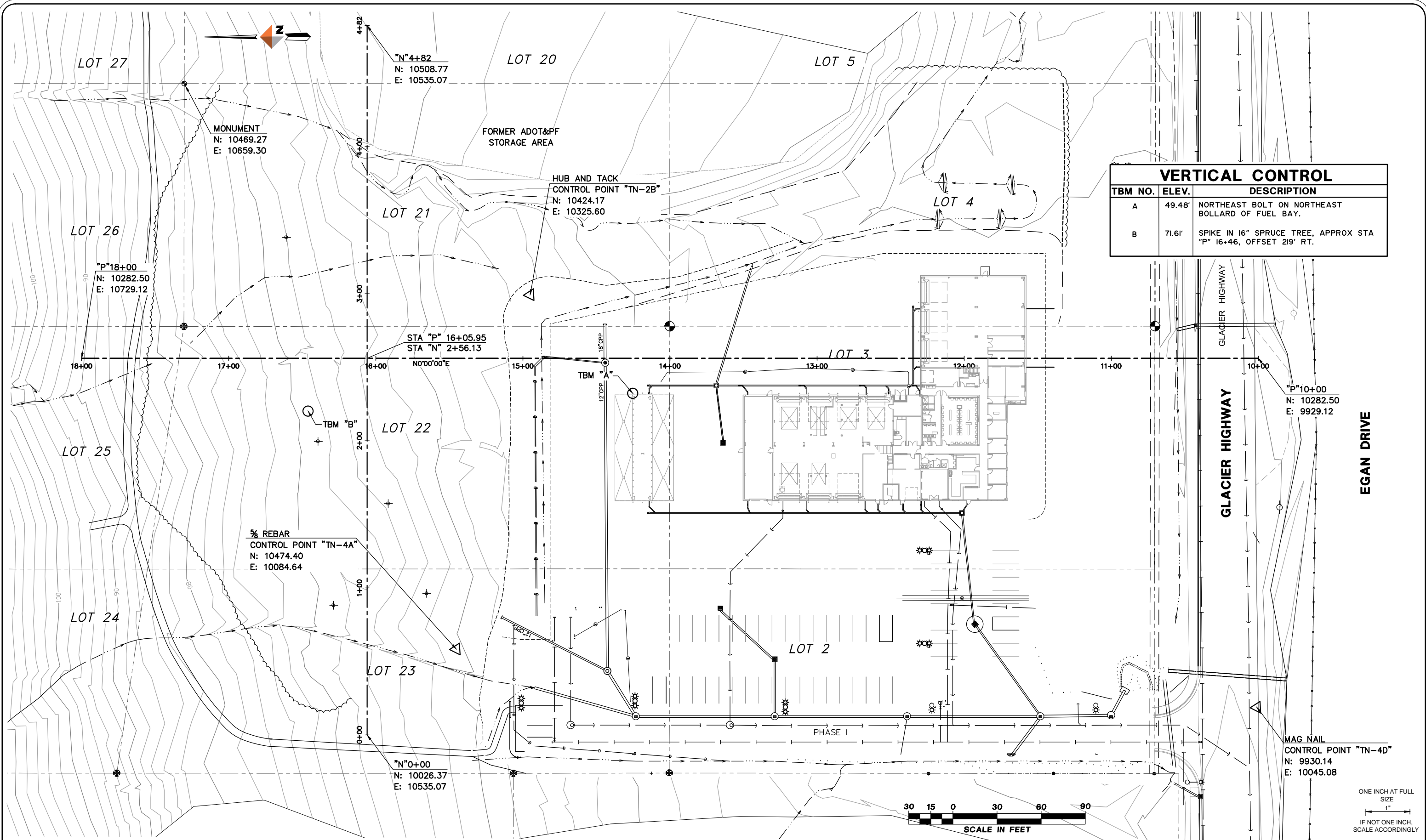


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**TYPICAL SECTION AND DETAILS**

SHEET NO.
5
TOTAL SHEETS
5 - 15

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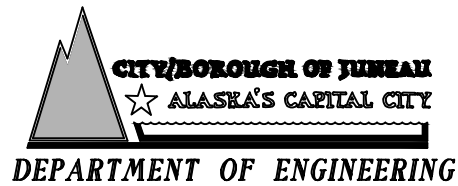


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**HORIZONTAL AND VERTICAL  
CONTROL  
AND EXISTING SITE PLAN**

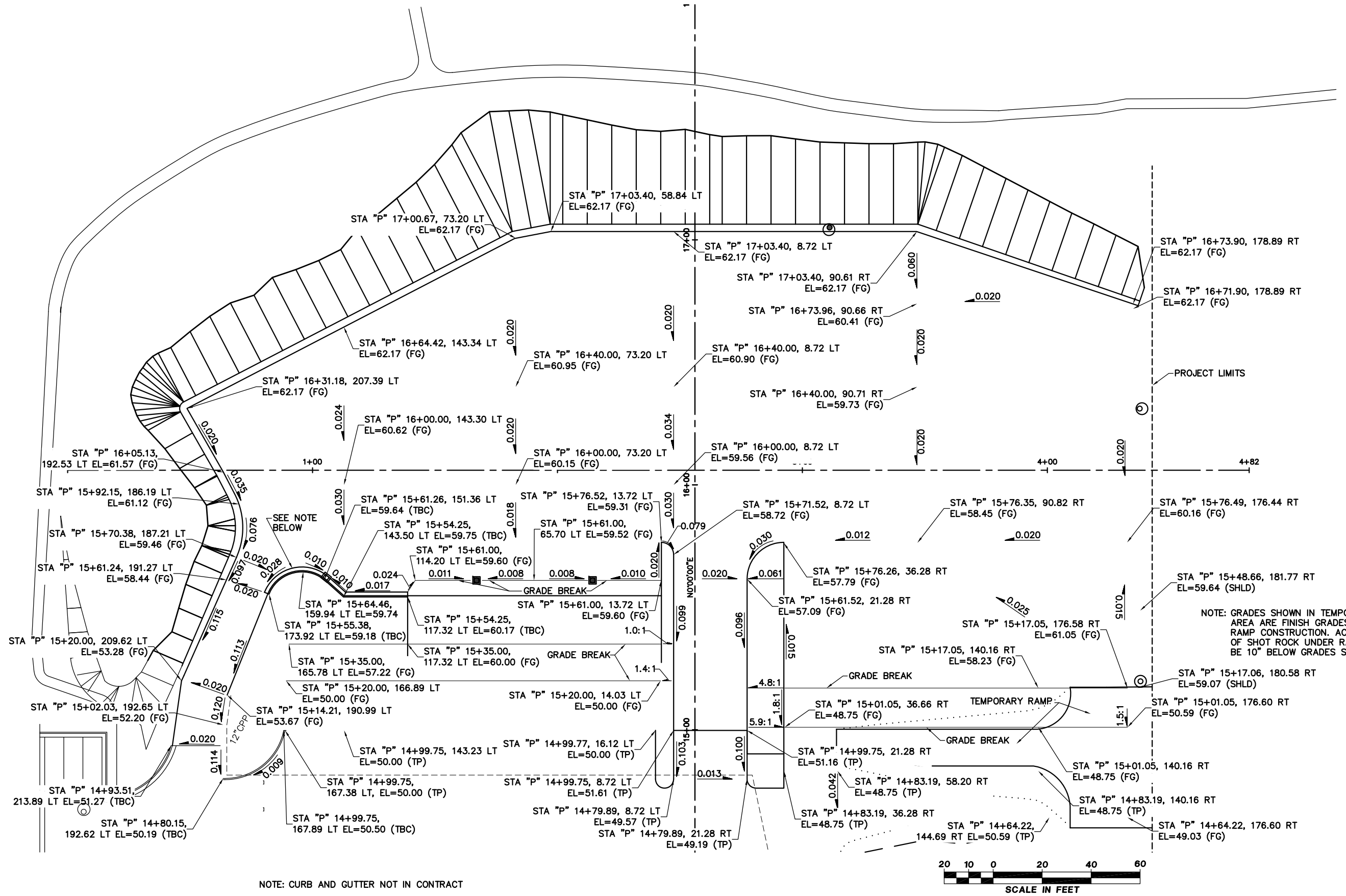
SHEET NO.

6

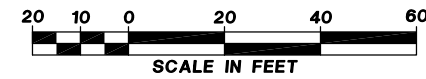
TOTAL SHEETS

6 - 15

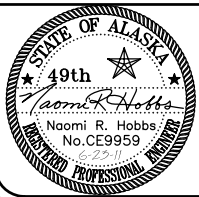
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NOTE: CURB AND GUTTER NOT IN CONTRACT



ONE INCH AT FULL  
SIZE  
IF NOT ONE INCH,  
SCALE ACCORDINGLY



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SITE GRADING PLAN

SHEET NO.

7

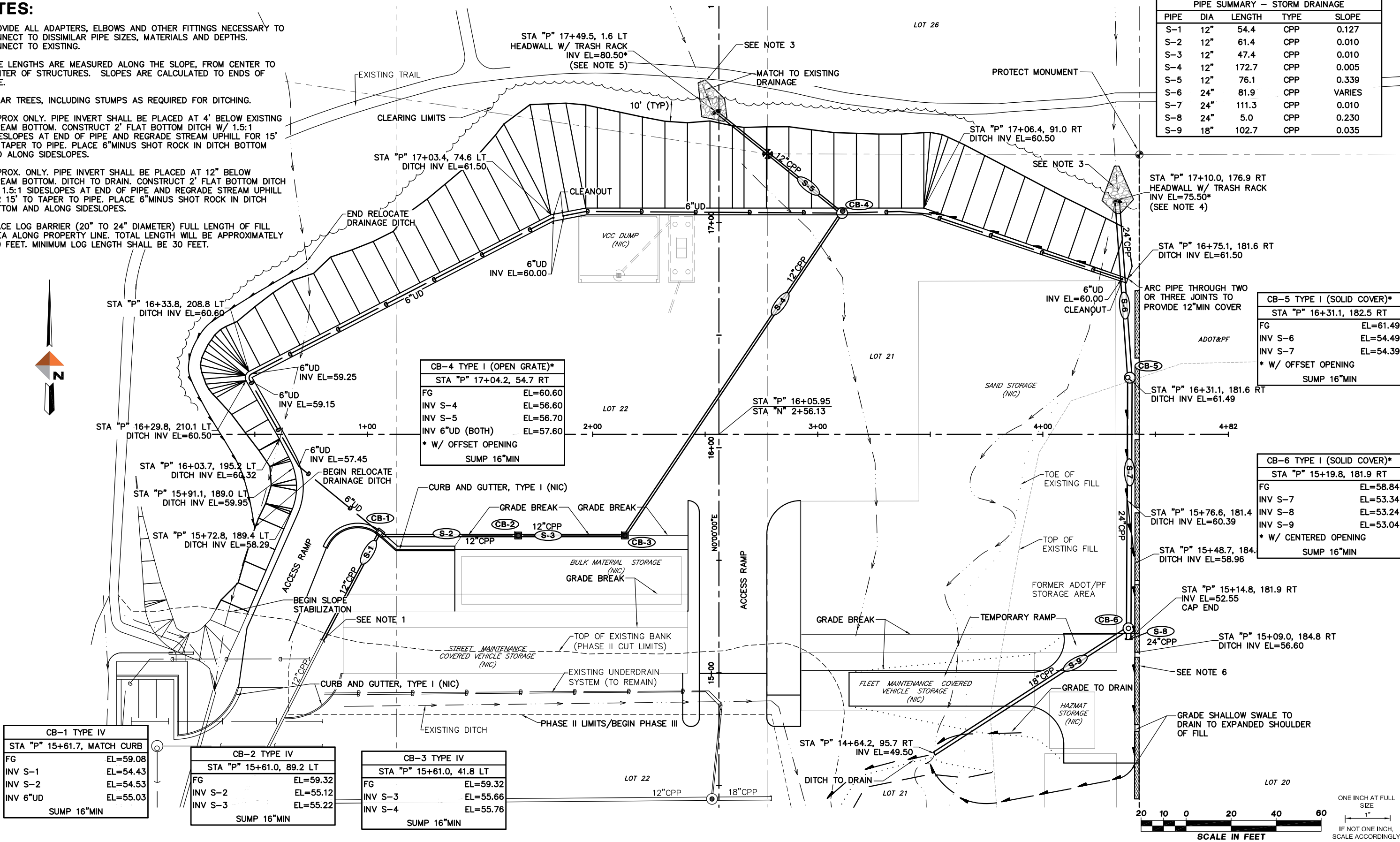
TOTAL SHEETS

7 - 15

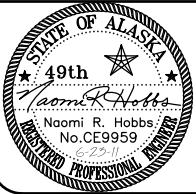
NOTES:

- 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. CLEAR TREES, INCLUDING STUMPS AS REQUIRED FOR DITCHING.
- 4. APPROX ONLY. PIPE INVERT SHALL BE PLACED AT 4' BELOW EXISTING STREAM BOTTOM. CONSTRUCT 2' FLAT BOTTOM DITCH W/ 1.5:1 SIDESLOPES AT END OF PIPE AND REGRADE STREAM UPHILL FOR 15' TO TAPER TO PIPE. PLACE 6"MINUS SHOT ROCK IN DITCH BOTTOM AND ALONG SIDESLOPES.
- 5. APPROX. ONLY. PIPE INVERT SHALL BE PLACED AT 12" BELOW STREAM BOTTOM. DITCH TO DRAIN. CONSTRUCT 2' FLAT BOTTOM DITCH W/ 1.5:1 SIDESLOPES AT END OF PIPE AND REGRADE STREAM UPHILL FOR 15' TO TAPER TO PIPE. PLACE 6"MINUS SHOT ROCK IN DITCH BOTTOM AND ALONG SIDESLOPES.
- 6. PLACE LOG BARRIER (20" TO 24" DIAMETER) FULL LENGTH OF FILL AREA ALONG PROPERTY LINE. TOTAL LENGTH WILL BE APPROXIMATELY 420 FEET. MINIMUM LOG LENGTH SHALL BE 30 FEET.

PIPE SUMMARY - STORM DRAINAGE				
PIPE	DIA	LENGTH	TYPE	SLOPE
S-1	12"	54.4	CPP	0.127
S-2	12"	61.4	CPP	0.010
S-3	12"	47.4	CPP	0.010
S-4	12"	172.7	CPP	0.005
S-5	12"	76.1	CPP	0.339
S-6	24"	81.9	CPP	VARIES
S-7	24"	111.3	CPP	0.010
S-8	24"	5.0	CPP	0.230
S-9	18"	102.7	CPP	0.035



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SITE PLAN

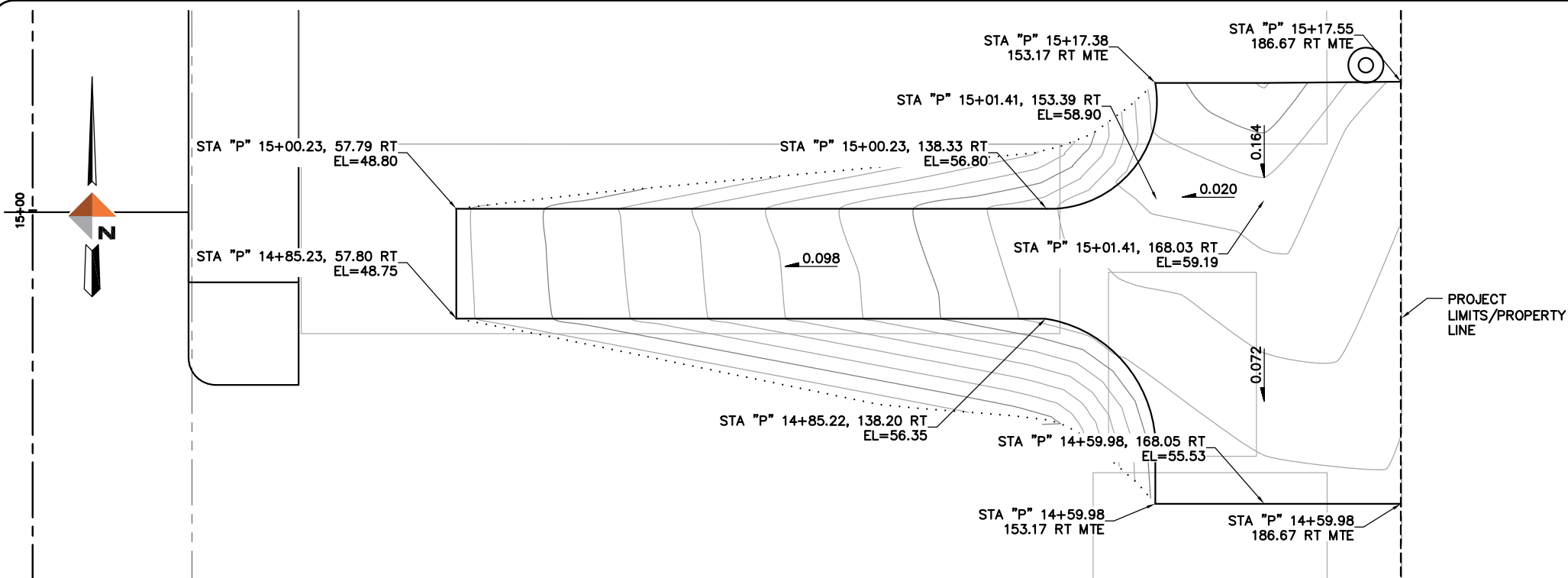
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8

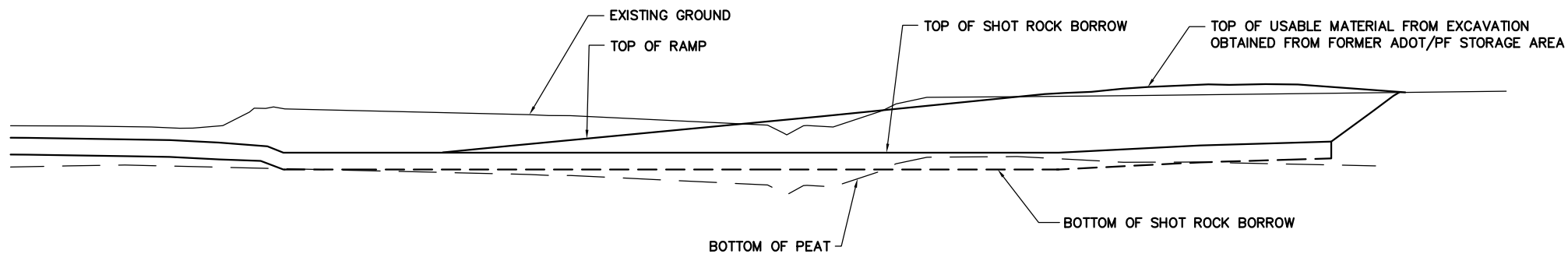
TOTAL SHEETS

8 - 15

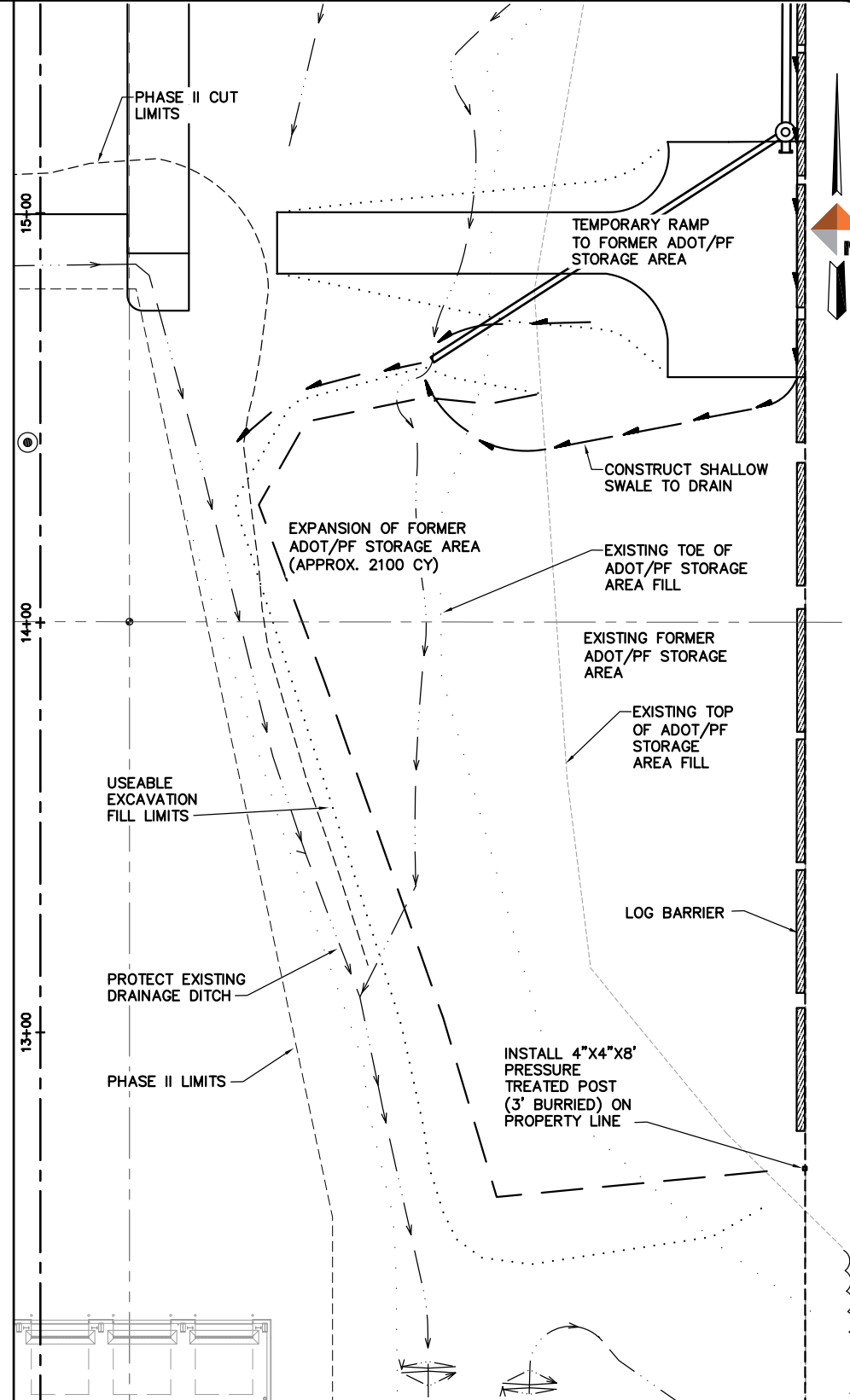
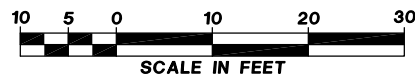
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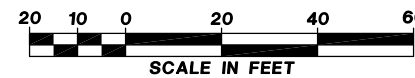
TEMPORARY DRIVEWAY RAMP  
PLAN VIEW



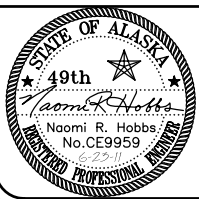
TEMPORARY DRIVEWAY RAMP  
PROFILE VIEW



USEABLE EXCAVATION FILL LIMITS  
PLAN VIEW



ONE INCH AT FULL  
SIZE  
IF NOT ONE INCH,  
SCALE ACCORDINGLY



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TEMPORARY DRIVEWAY RAMP  
PLAN & PROFILE VIEW AND  
USEABLE EXCAVATION FILL LIMITS

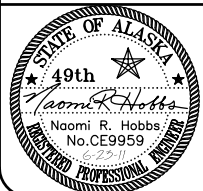
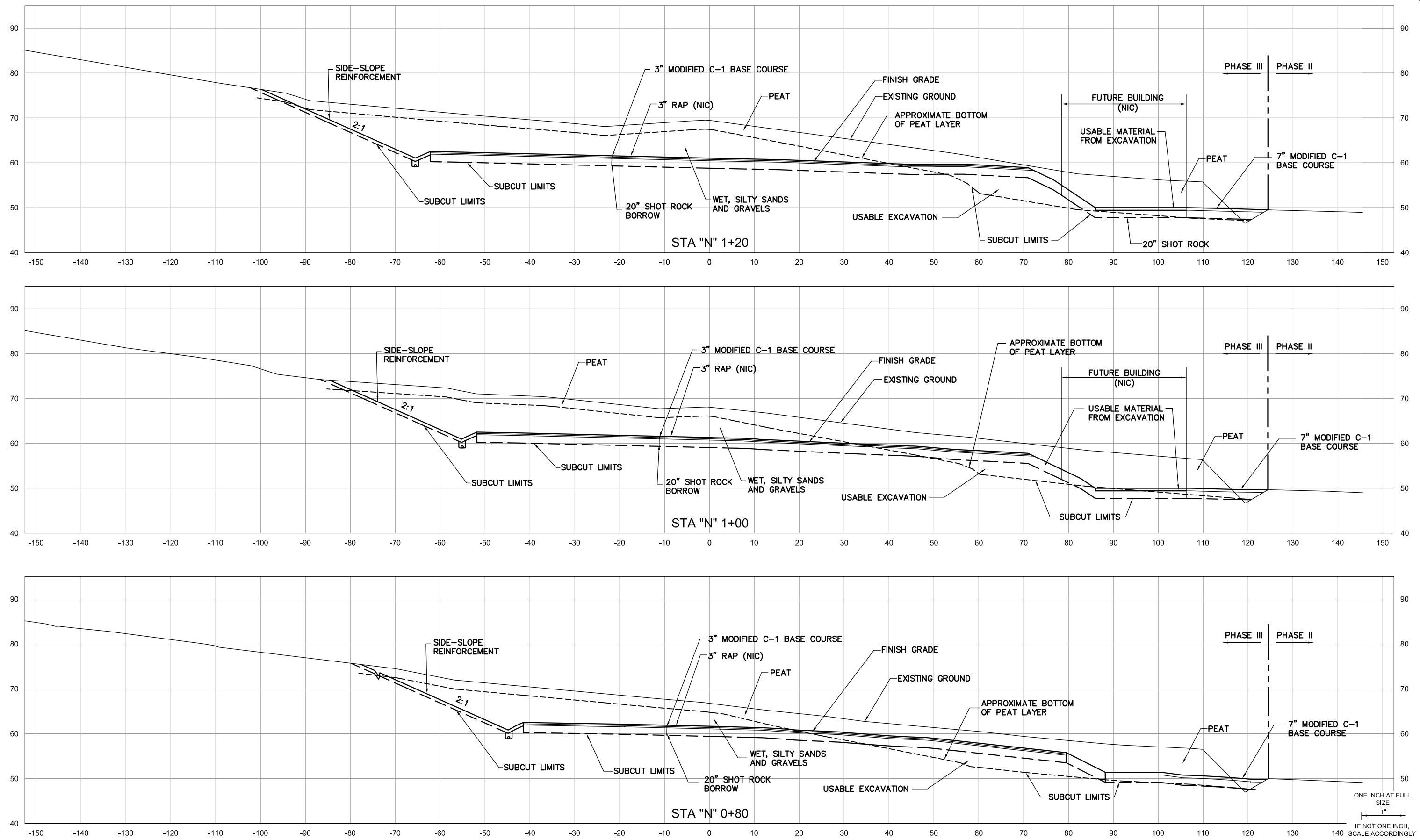
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TOTAL SHEETS

9 - 15

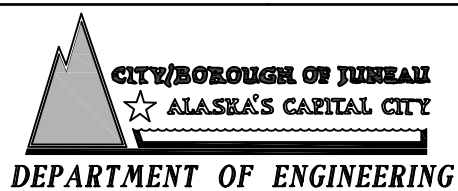
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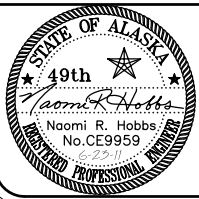
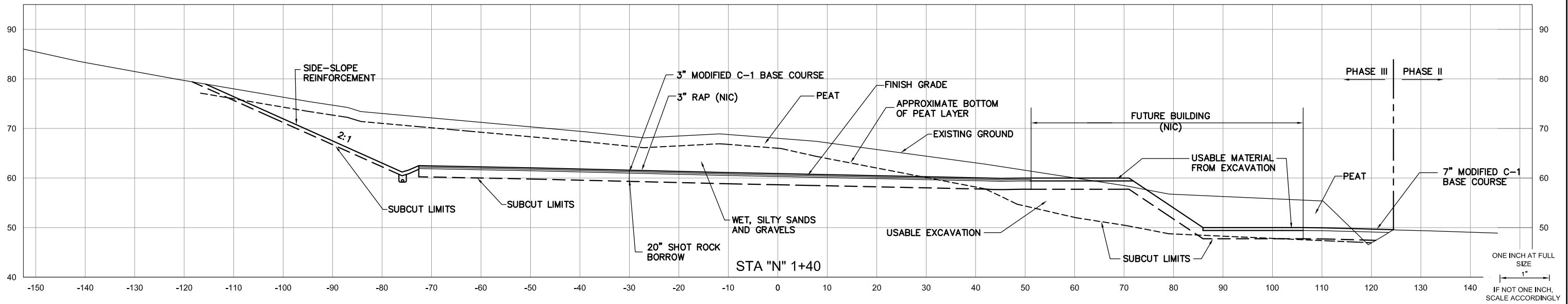
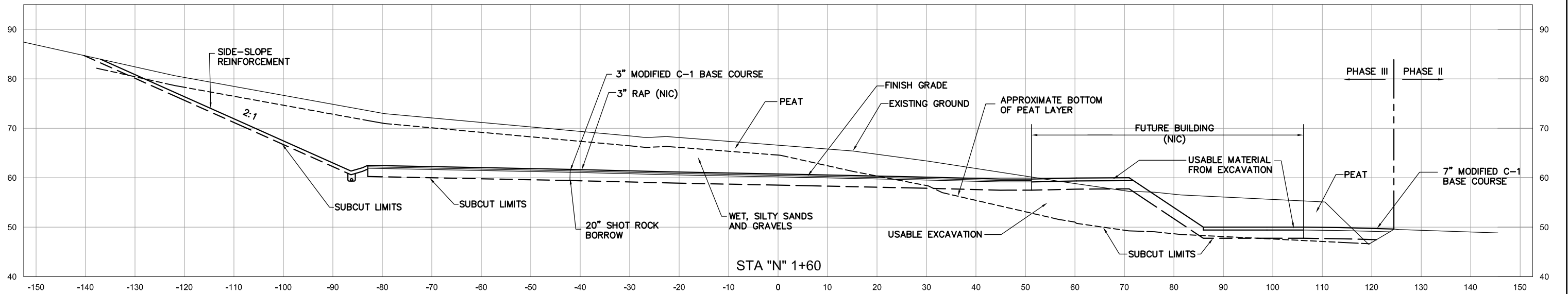
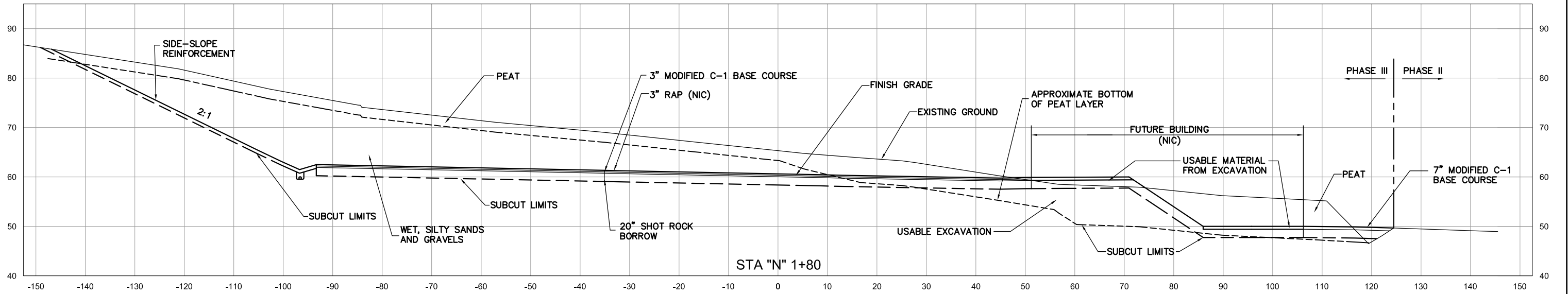
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**CROSS SECTIONS**

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**10**

TOTAL SHEETS  
**10 - 15**

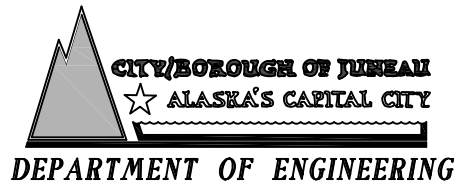
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CROSS SECTIONS

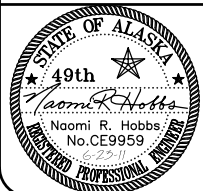
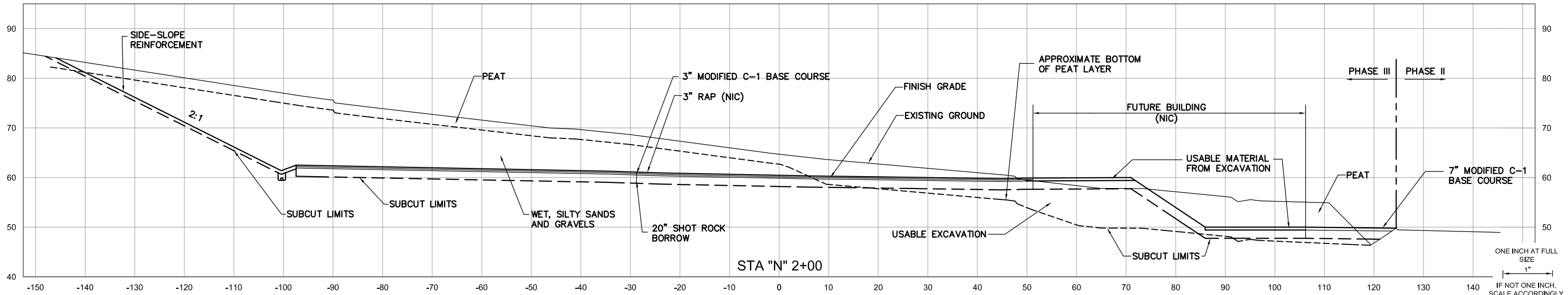
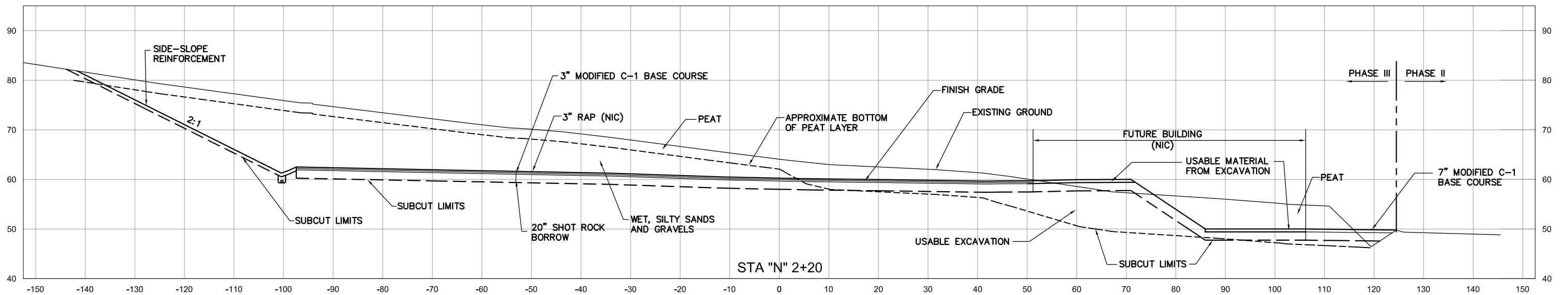
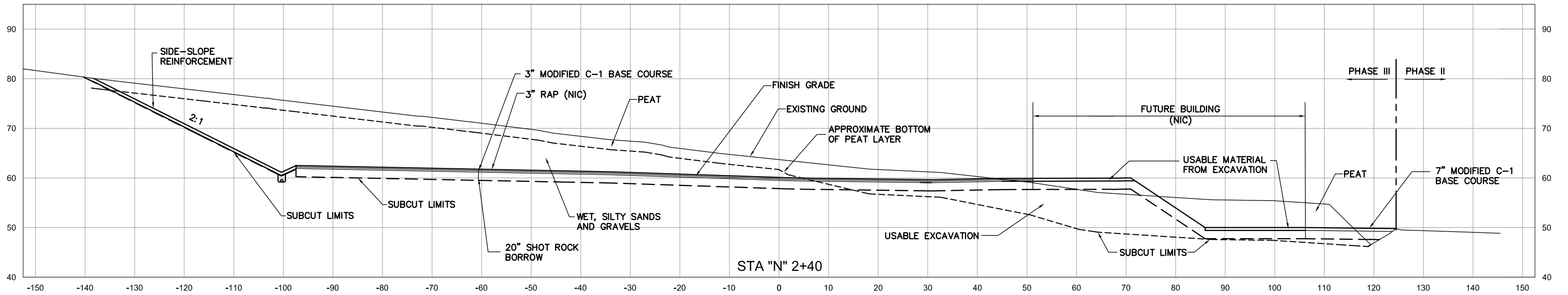
SHEET NO.

11

TOTAL SHEETS

11 - 15

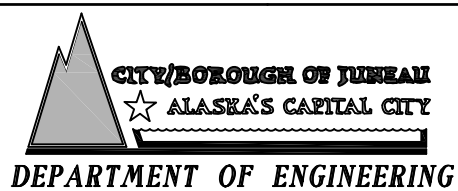
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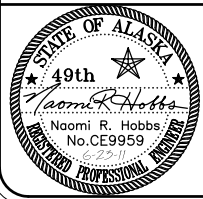
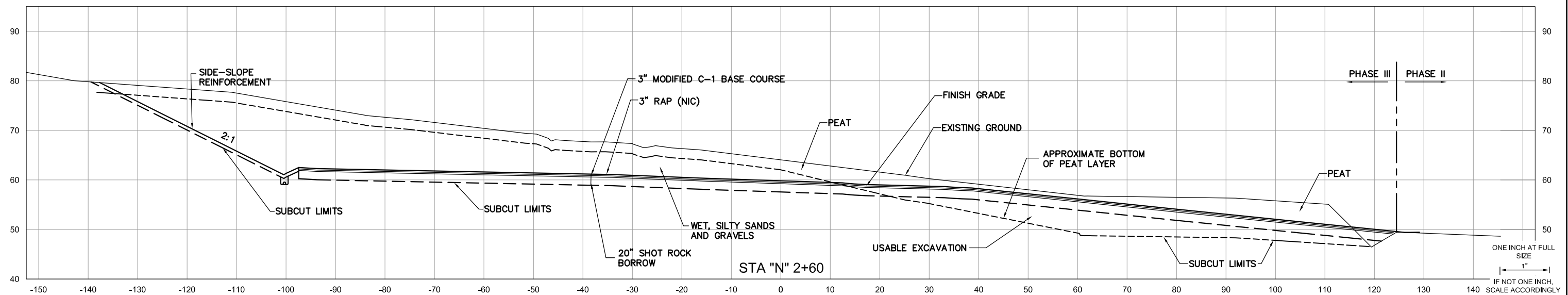
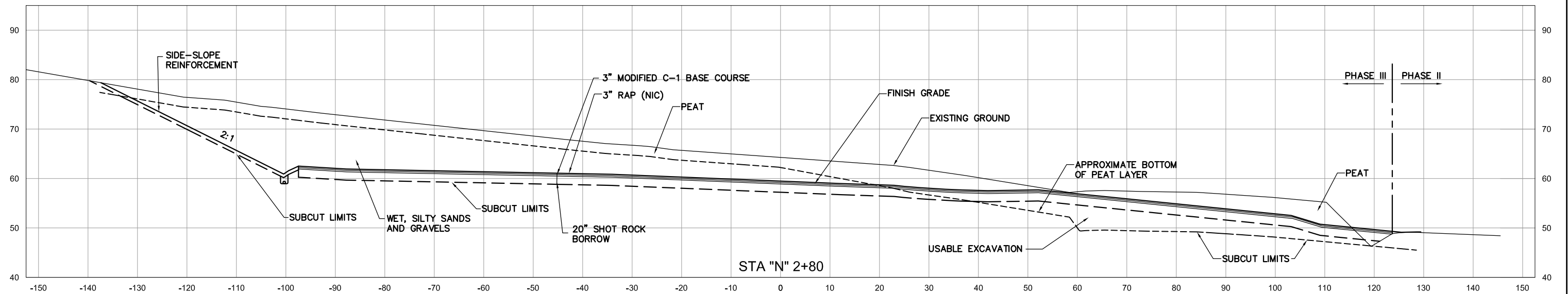
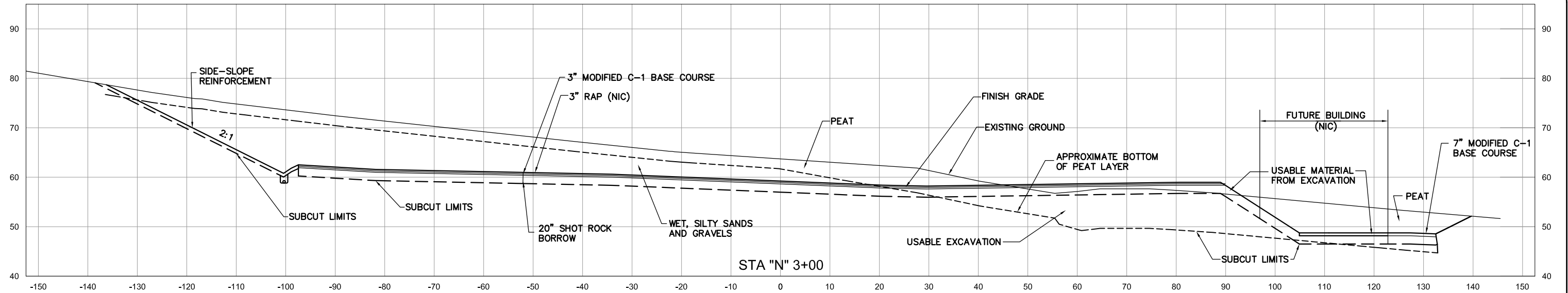
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CROSS SECTIONS	
SHEET NO.	12
TOTAL SHEETS	12 - 15

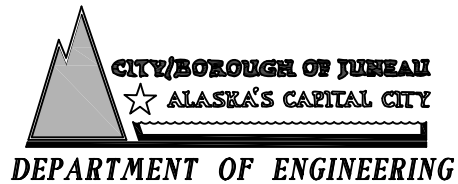
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CROSS SECTIONS

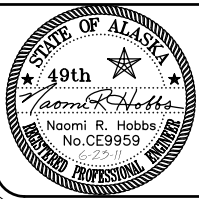
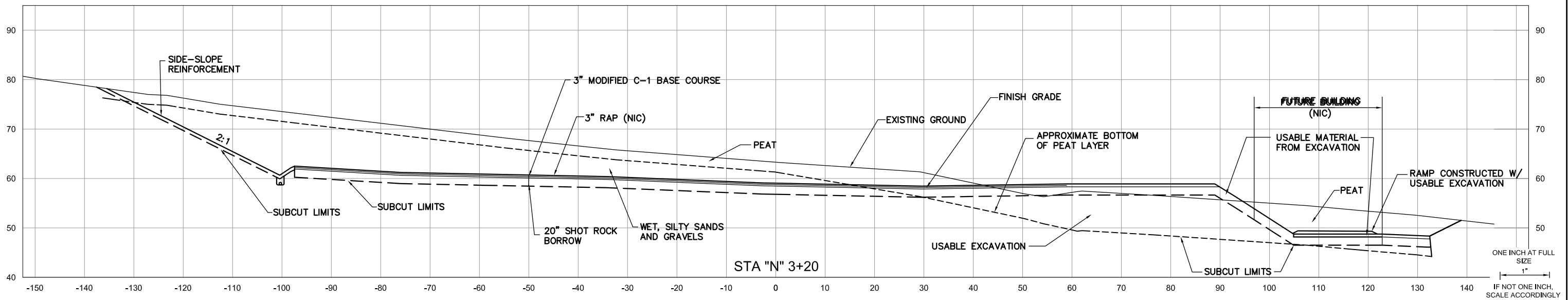
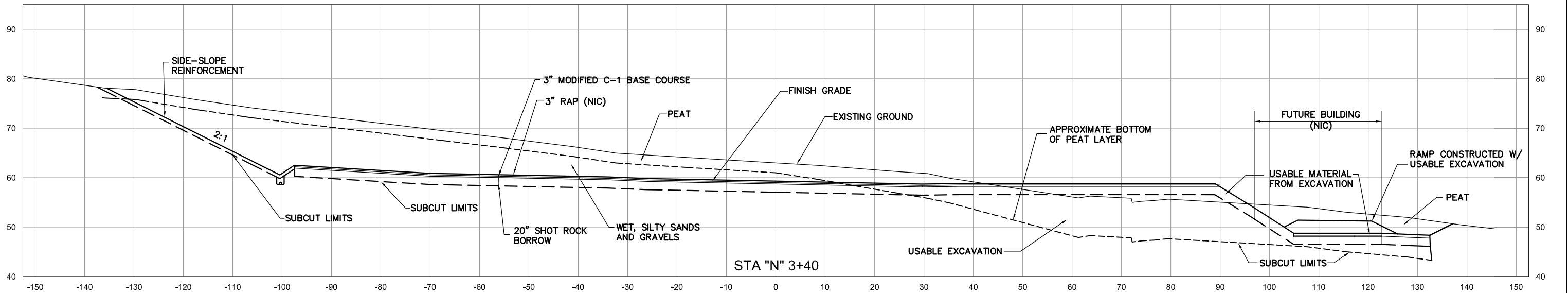
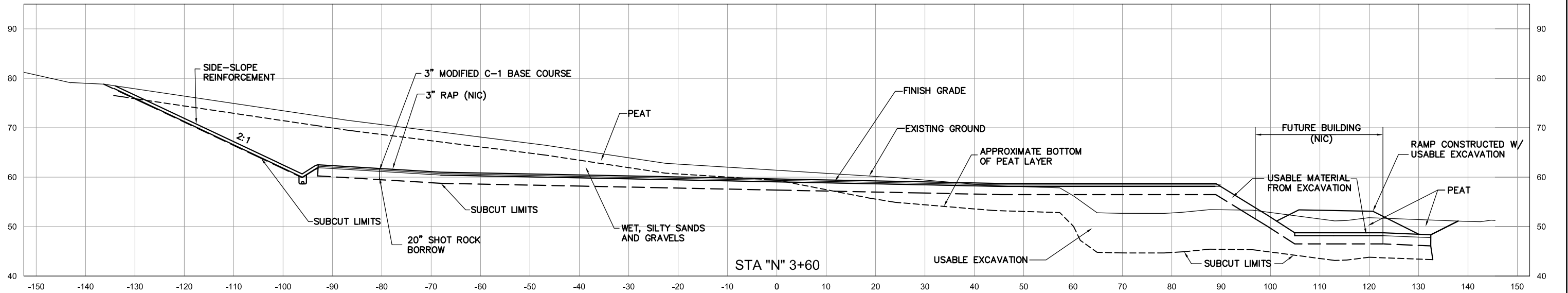
SHEET NO.

13

TOTAL SHEETS

13 - 15

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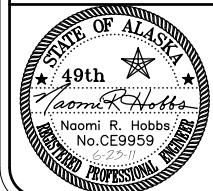
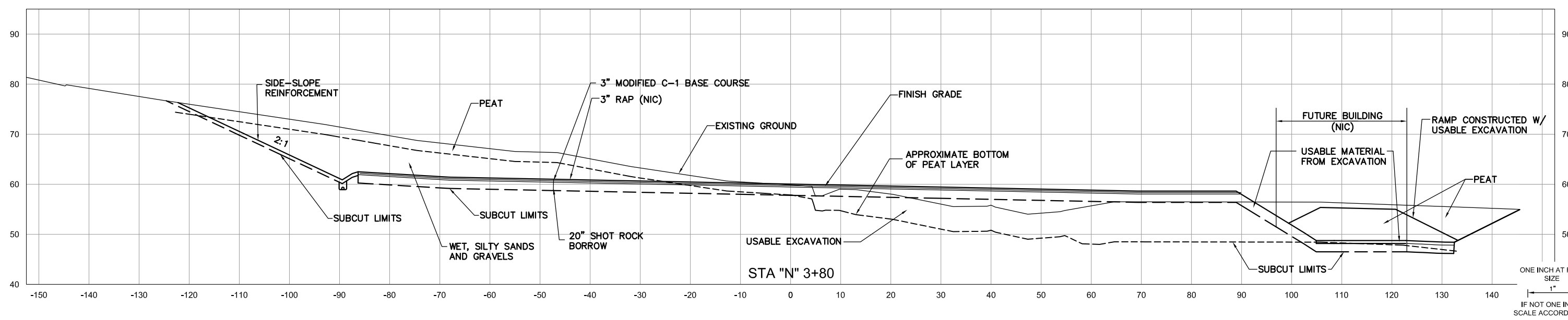
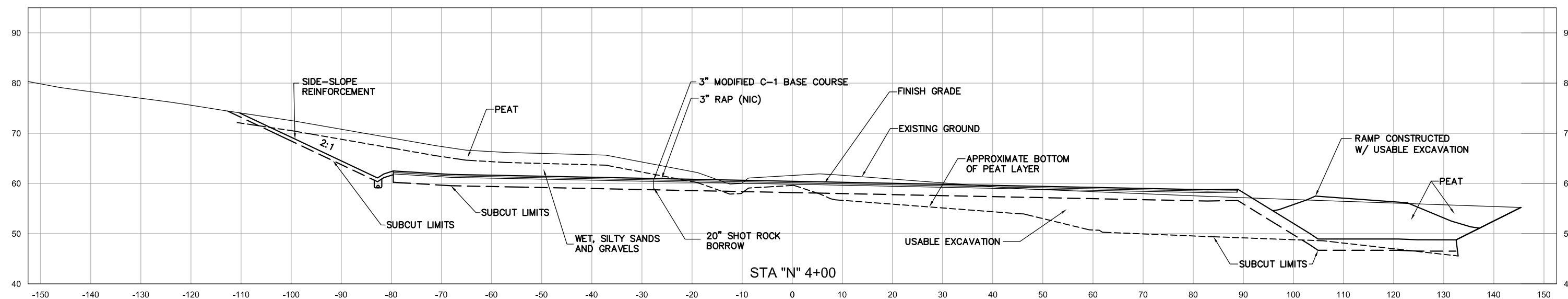
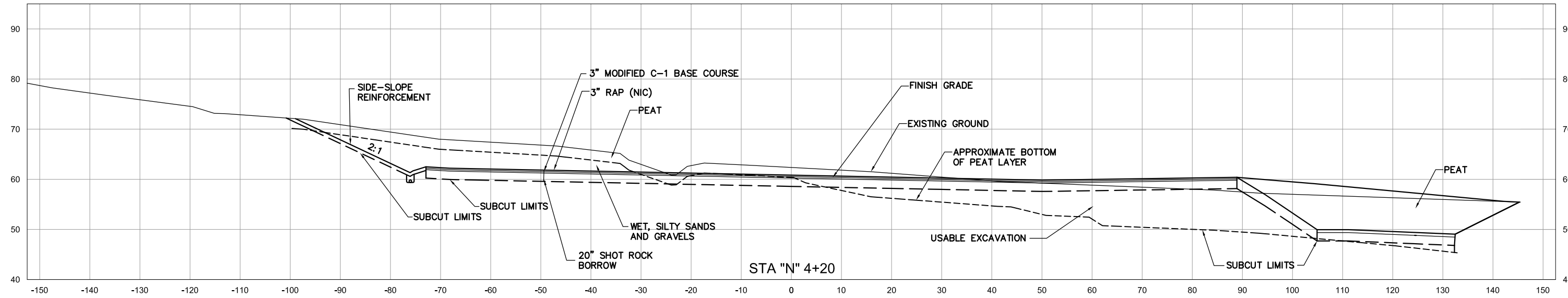
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14

TOTAL SHEETS

14 - 15

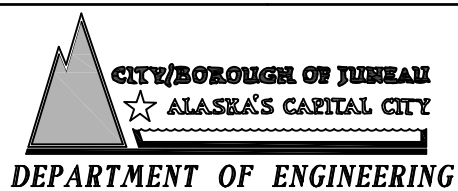
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CROSS SECTIONS	
SHEET NO.	15
TOTAL SHEETS	15 - 15