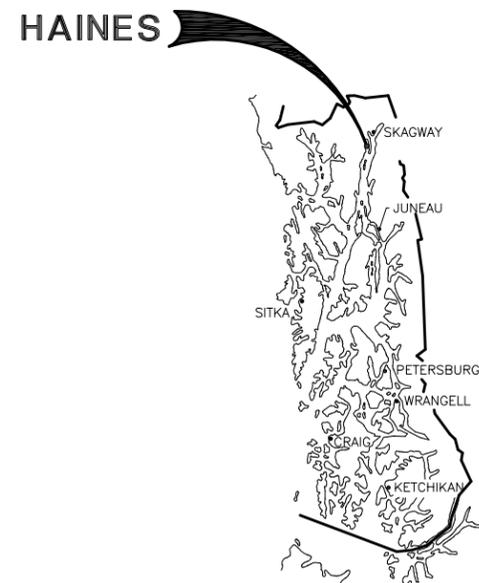
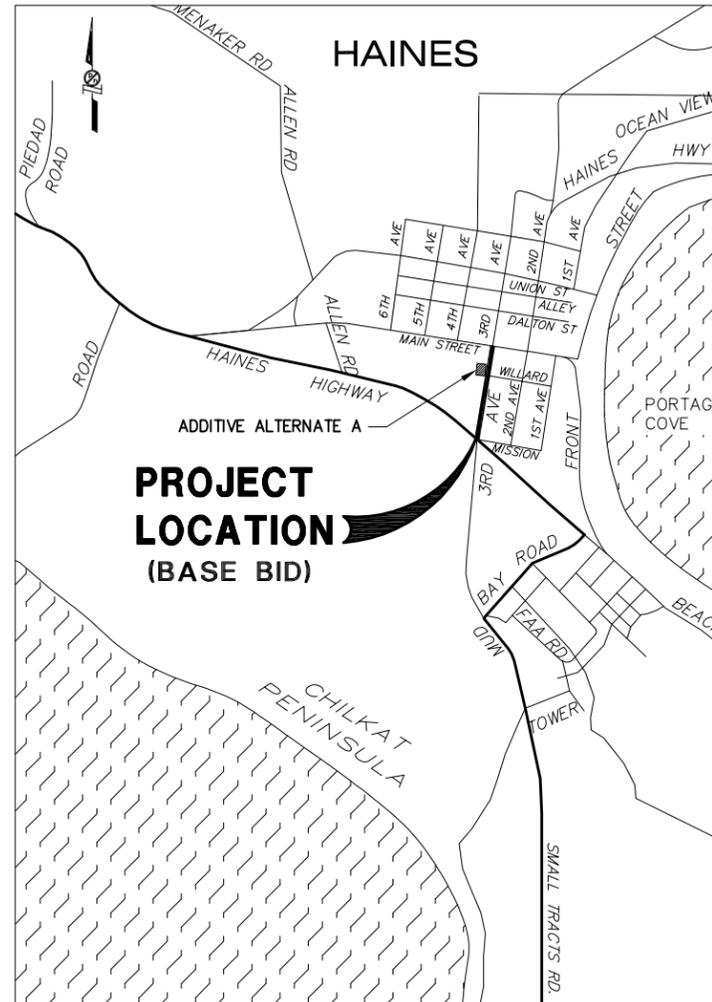


HAINES BOROUGH, ALASKA STREET IMPROVEMENTS - 3RD AVENUE 2014



SOUTHEAST ALASKA



VICINITY MAP

| PROJECT SCHEDULE | |
|------------------------|--------------------|
| ITEM | DATE |
| SUBSTANTIAL COMPLETION | SEPTEMBER 15, 2014 |
| FINAL COMPLETION | SEPTEMBER 30, 2014 |

| DRAWING INDEX | | |
|----------------------|-------|--|
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| 2 OF 20 | B1 | ESTIMATE OF QUANTITIES |
| 3 OF 20 | C1 | GENERAL NOTES, ABBREVIATIONS, LEGEND, SURVEY CONTROL |
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| 5 OF 20 | D2 | 3RD AVENUE DEMOLITION PLAN, STA. 6+25 TO HAINES HIGHWAY |
| 6 OF 20 | E1 | 3RD AVENUE PLAN AND PROFILE, MAIN STREET TO STA. 3+10 |
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| 12 OF 20 | F3 | ROAD ALIGNMENT AND LAYOUT TABLES |
| 13 OF 20 | G1 | TYPICAL SECTIONS |
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| 18 OF 20 | H4 | MISCELLANEOUS DETAILS |
| ADDITIVE ALTERNATE A | | |
| 19 OF 20 | J1 | ADDITIVE ALTERNATE A: HAINES BOROUGH PARKING LOT PLAN |
| 20 OF 20 | J2 | HAINES BOROUGH PARKING LOT TYPICAL SECTION |

MAJOR ITEMS OF WORK INCLUDE

- 3RD AVENUE MAIN STREET TO HAINES HIGHWAY (BASE BID)
- HAINES BOROUGH ADMINISTRATION PARKING LOT (ADDITIVE ALTERNATE A)

HAINES BOROUGH

| | |
|-------------------------|-----------------|
| MAYOR | STEPHANIE SCOTT |
| INTERIM BOROUGH MANAGER | JULIE COZZI |
| PUBLIC WORKS DIRECTOR | CARLOS JIMENEZ |



| REVISIONS | | | | | |
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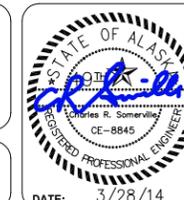


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**HAINES BOROUGH
STREET IMPROVEMENTS
3RD AVENUE**

SHEET TITLE:
**COVER, VICINITY MAP
AND DRAWING INDEX**

PND PROJECT NO.: 072071.04 DWG. FILE: A1.DWG

A1

SHEET
1 OF 20

**BASE BID ESTIMATE OF QUANTITIES
3RD AVENUE**

| ITEM NO. | ITEM | UNIT | QUANTITY |
|-----------|--|-------------|--------------|
| 201(3B) | CLEARING AND GRUBBING | LUMP SUM | ALL REQUIRED |
| 201(6) | SELECTIVE TREE REMOVAL | EACH | 30 |
| 202(1) | REMOVAL OF STRUCTURES AND OBSTRUCTIONS | LUMP SUM | ALL REQUIRED |
| 202(2) | REMOVAL OF PAVEMENT | SQUARE YARD | 4,500 |
| 202(3) | REMOVAL OF SIDEWALK | SQUARE YARD | 160 |
| 202(4) | REMOVAL OF CULVERT PIPE | LUMP SUM | ALL REQUIRED |
| 203(3) | UNCLASSIFIED EXCAVATION | CUBIC YARD | 4,000 |
| 204(2) | HAULING AND DISPOSAL OF CONTAMINATED SOILS | CYVM | 80 |
| 301(1) | AGGREGATE BASE COURSE, GRADING D-1 | TON | 1,900 |
| 304(2) | SUBBASE, GRADING A | CUBIC YARD | 3,100 |
| 401(1) | ASPHALT CONCRETE, TYPE II, CLASS B | TON | 710 |
| 401(2) | ASPHALT CEMENT, GRADE PG 58-28 | TON | 43 |
| 603(1-18) | 18-INCH CSP | LINEAR FOOT | 245 |
| 603(1-24) | 24-INCH CSP | LINEAR FOOT | 945 |
| 604(4) | ADJUST EXISTING MANHOLE | EACH | 4 |
| 604(8) | STORM SEWER CATCH BASIN, TYPE IV W/ FRAME & GRATE | EACH | 4 |
| 604(9) | STORM SEWER CATCH BASIN, TYPE V W/ FRAME & GRATE | EACH | 6 |
| 604(10) | STORM SEWER CATCH BASIN, TYPE V W/ AREA DRAIN | EACH | 1 |
| 608(1B) | CONCRETE SIDEWALK, 6 INCHES THICK | SQUARE YARD | 600 |
| 609(2-R) | CURB AND GUTTER, TYPE IV ROLLED | LINEAR FOOT | 1,210 |
| 609(2-S) | CURB AND GUTTER, TYPE I STANDARD | LINEAR FOOT | 280 |
| 609(2-SA) | CURB AND GUTTER, TYPE IA STANDARD | LINEAR FOOT | 40 |
| 615(7) | SIGN REMOVAL AND RELOCATION | LUMP SUM | ALL REQUIRED |
| 618(4) | SEEDING | LUMP SUM | ALL REQUIRED |
| 627(3) | INSTALL VALVE BOX | EACH | 1 |
| 627(8) | WATER SERVICE CONNECTION | EACH | 1 |
| 627(10) | ADJUSTMENT OF VALVE BOX OR CLEANOUT | EACH | 4 |
| 627(11) | FIRE HYDRANT REPLACEMENT | EACH | 1 |
| 633(1) | SILT FENCE | LINEAR FOOT | 700 |
| 640(1) | MOBILIZATION AND DEMOBILIZATION | LUMP SUM | ALL REQUIRED |
| 641(1) | EROSION AND POLLUTION CONTROL ADMINISTRATION | LUMP SUM | ALL REQUIRED |
| 641(2) | TEMPORARY EROSION AND POLLUTION CONTROL | LUMP SUM | ALL REQUIRED |
| 641(3) | TEMPORARY EROSION AND POLLUTION CONTROL AMENDMENTS | CONTG SUM | ALL REQUIRED |
| 642(1) | CONSTRUCTION SURVEYING | LUMP SUM | ALL REQUIRED |
| 643(2) | TRAFFIC MAINTENANCE | LUMP SUM | ALL REQUIRED |

**ADDITIVE ALTERNATE A ESTIMATE OF QUANTITIES
HAINES BOROUGH ADMINISTRATION BUILDING PARKING LOT**

| ITEM NO. | ITEM | UNIT | QUANTITY |
|-----------|---|-------------|--------------|
| 201(3B) | CLEARING AND GRUBBING | LUMP SUM | ALL REQUIRED |
| 203(3) | UNCLASSIFIED EXCAVATION | CUBIC YARD | 650 |
| 301(1) | AGGREGATE BASE COURSE, GRADING D-1 | TON | 320 |
| 303(3) | DITCH RECONDITIONING | LINEAR FOOT | 300 |
| 304(2) | SUBBASE, GRADING A | CUBIC YARD | 410 |
| 401(1) | ASPHALT CONCRETE, TYPE II, CLASS B | TON | 150 |
| 401(2) | ASPHALT CEMENT, GRADE PG 58-28 | TON | 9 |
| 501(9) | CLASS A CONCRETE CURB WALL | LUMP SUM | ALL REQUIRED |
| 603(1-18) | 18-INCH CSP | LINEAR FOOT | 90 |
| 604(8) | STORM SEWER CATCH BASIN, TYPE IV WITH FRAME & GRATE | EACH | 1 |
| 605(6) | 4-INCH PERFORATED CPP PIPE FOR UNDERDRAIN | LF | 125 |
| 608(1B) | CONCRETE SIDEWALK, 6 INCHES THICK | SQUARE YARD | 60 |
| 609(2-R) | CURB AND GUTTER, TYPE IV ROLLED | LINEAR FOOT | 190 |
| 615(7) | SIGN REMOVAL AND RELOCATION | LUMP SUM | ALL REQUIRED |
| 618(4) | SEEDING | LUMP SUM | ALL REQUIRED |
| 627(10) | ADJUSTMENT OF VALVE BOX OR CLEANOUT | EACH | 1 |
| 633(1) | SILT FENCE | LINEAR FOOT | 200 |
| 640(1) | MOBILIZATION AND DEMOBILIZATION | LUMP SUM | ALL REQUIRED |
| 641(1) | EROSION AND POLLUTION CONTROL ADMINISTRATION | LUMP SUM | ALL REQUIRED |
| 641(2) | TEMPORARY EROSION AND POLLUTION CONTROL | LUMP SUM | ALL REQUIRED |
| 641(3) | TEMPORARY EROSION AND POLLUTION CONTROL AMENDMENTS | CONTG SUM | ALL REQUIRED |
| 642(1) | CONSTRUCTION SURVEYING | LUMP SUM | ALL REQUIRED |
| 643(2) | TRAFFIC MAINTENANCE | LUMP SUM | ALL REQUIRED |
| 670(13) | PARKING STRIPING | LUMP SUM | ALL REQUIRED |

BASIS OF ESTIMATE

| ITEM | PAY ITEM | ESTIMATING FACTOR |
|--------|------------------------------------|----------------------|
| 301(1) | AGGREGATE BASE COURSE, GRADING D-1 | 2.2 TON/CY |
| 401(1) | ASPHALT CONCRETE, TYPE II, CLASS B | 125 LB/SY/IN |
| 401(2) | ASPHALT CEMENT, GRADE PG 58-28 | 6.0% OF ITEM 401 (1) |



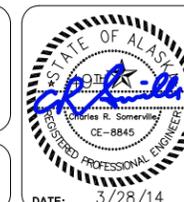
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DATE: 3/28/14

**HAINES BOROUGH
STREET IMPROVEMENTS
3RD AVENUE**

SHEET TITLE:

**ESTIMATE OF
QUANTITIES**

PND PROJECT NO.: 072071.04 DWG. FILE: B1.DWG

B1

SHEET
2 OF **20**

GENERAL NOTES

- SEE BASE BID AND ADDITIVE ALTERNATES.
- SITE INFORMATION CONTAINED IN THESE DOCUMENTS HAS BEEN COMPILED FROM EXISTING INFORMATION PROVIDED BY THE HAINES BOROUGH. FIELD VERIFY ALL EXISTING SITE CONDITIONS AND DIMENSIONS.
- SUMMARY TABLES ARE FOR BIDDING INFORMATION ONLY. ALL MANHOLES, VALVE BOXES, ETC. SHALL BE FIELD LOCATED AND ADJUSTED PRIOR TO PAVEMENT.
- MATCH EXISTING FINISH GRADES AT BEGINNING AND END OF PROJECTS AND WHERE REQUIRED TO MATCH EXISTING ROADS, CONCRETE CURB, GUTTERS, SIDEWALKS AND ADJACENT FEATURES.
- ALL EXCAVATED 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.
- 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:

WATER AND WASTEWATER: (907) 766-2237 OR 766-2200
 POWER & LIGHT, AP&T: (907) 766-2331
 CATV: (907) 766-2137
 TELEPHONE, GTE ALASKA: (907) 766-2311

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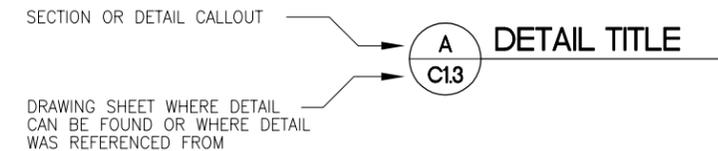
- ALL WORK UNDER THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 2004 EDITION AND SUPPLEMENTAL SPECIAL PROVISIONS.

ABBREVIATIONS

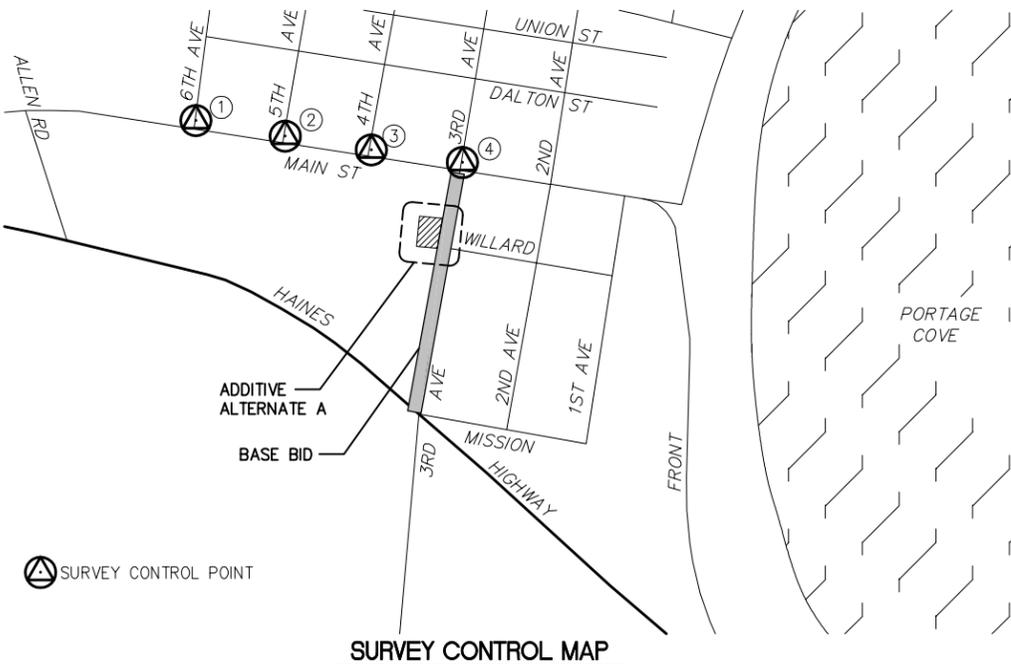
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|----------|--|-------|---|
| ACP | ASPHALT CONCRETE PAVEMENT | IE | INVERT ELEVATION |
| APPROX | APPROXIMATE | INV | INVERT |
| ASTM | AMERICAN SOCIETY FOR TESTING MATERIALS | LB | POUND |
| AVE | AVENUE | LF | LINEAR FOOT |
| BK | BACK | LS | LUMP SUM |
| BLDG | BUILDING | LT | LEFT |
| BOP | BEGINNING OF PROJECT | LVC | LENGTH OF VERTICAL CURVE |
| BVCE | BEGIN VERTICAL CURVE ELEVATION | MAT'L | MATERIAL |
| BVCS | BEGIN VERTICAL CURVE STATION | MH | MANHOLE |
| CB | CATCH BASIN | MIN | MINIMUM |
| C&G | CURB AND GUTTER | N | NORTH |
| CIP | CAST IN PLACE | NFS | NON-FROST SUSCEPTIBLE |
| CL | CENTERLINE | NO | NUMBER |
| CLR | CLEAR | OC | ON CENTER |
| CMP | CORRUGATED METAL PIPE | OD | OUTSIDE DIAMETER |
| CO | CLEANOUT | OSHA | OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION |
| CONC | CONCRETE | PC | POINT OF CURVATURE |
| CPP | CORRUGATED POLYETHYLENE PIPE | PND | PND ENGINEERS, INC. |
| CSP | CORRUGATED STEEL PIPE | PP | POWER POLE |
| CY | CUBIC YARD | PT | POINT OF TANGENCY |
| D/DIA | DIAMETER | PCPP | PERFORATED CORRUGATED POLYETHYLENE PIPE |
| DOT&PF | DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES | PVC | POLYVINYL CHLORIDE |
| DR | DRIVE | PVI | POINT OF VERTICAL INTERSECTION |
| E | EAST | R | RADIUS |
| EA | EACH | RD | ROAD |
| EL/ELEV | ELEVATION | REQ'D | REQUIRED |
| EOP | END OF PROJECT | ROW | RIGHT OF WAY |
| EP | EXISTING PAVEMENT | RT | RIGHT |
| EVCS EVC | END VERTICAL CURVE STATION ELEVATION | S | SOUTH |
| EXIST | EXISTING | SDWK | SIDEWALK |
| HB | HAINES BOROUGH | SPEC | SPECIFICATION |
| IN | INCH | SY | SQUARE YARD |
| FT | FOOT | SSMH | SANITARY SEWER MANHOLE |
| H/V | HORIZONTAL/VERTICAL | ST | STREET |
| HYD | FIRE HYDRANT | STA | STATION |
| | | STD | STANDARD |
| | | TYP | TYPICAL |
| | | VC | VERTICAL CURVE |
| | | W | WEST |
| | | W/ | WITH |
| | | WV | WATER VALVE |

LEGEND

| EXISTING | PROPOSED | |
|----------|----------|------------------------------------|
| | | ACP |
| | | WATER SERVICE |
| | | SANITARY SEWER SERVICE |
| | | COMMUNICATION (UNDERGROUND) |
| | | POWER AND COMMUNICATION (OVERHEAD) |
| | | EDGE PAVEMENT |
| | | PROPERTY LINE |
| | | SWALE |
| | | CONCRETE C&G |
| | | SILT FENCE |
| | | STORM SEWER PIPE |
| | | WATER VALVE |
| | | CONCRETE AREA DRAIN |
| | | STORM SEWER INLET |
| | | RADIUS |
| | | RIGHT OF WAY |
| | | GUY WIRE |
| | | SIGN |
| | | SURVEY CONTROL POINT |
| | | UTILITY/POWER POLE |
| | | SANITARY SEWER MANHOLE |
| | | FIRE HYDRANT |
| | | TEST PIT |
| | | TP-# |
| | | ROAD LAYOUT POINT |
| | | ADA TACTILE STRIP |



| SURVEY CONTROL | | | | |
|----------------|------------|------------|-------|--------------------------------|
| POINT | NORTHING | EASTING | ELEV. | DESCRIPTION |
| ① | 15938.6857 | 53253.2963 | 61.58 | BC MON. AT 6TH AVE. & MAIN ST. |
| ② | 15880.0333 | 53623.6488 | 66.63 | BC MON. AT 5TH AVE. & MAIN ST. |
| ③ | 15821.2518 | 53993.9482 | 71.43 | BC MON. AT 4TH AVE. & MAIN ST. |
| ④ | 15762.4044 | 54364.1557 | 78.38 | BC MON. AT 3RD AVE. & MAIN ST. |



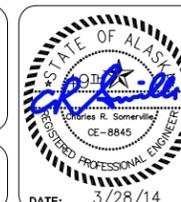
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**HAINES BOROUGH
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 3RD AVENUE**

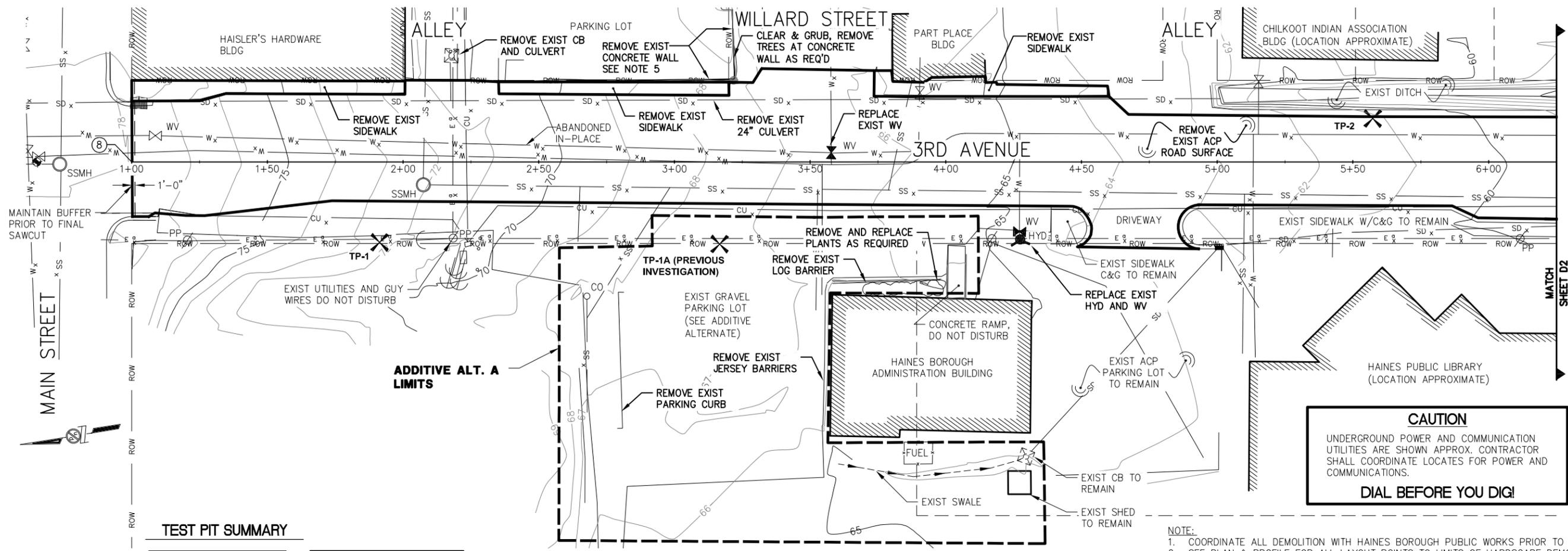
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**GENERAL NOTES, ABBREVIATIONS,
 LEGEND, SURVEY CONTROL**

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3 OF 20





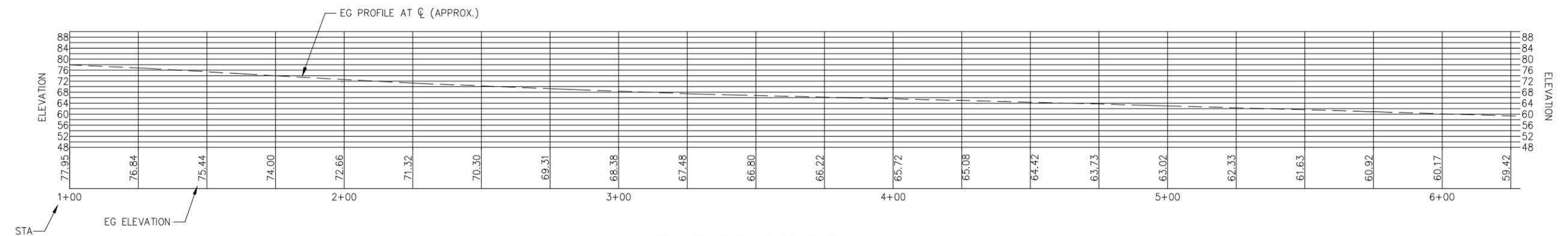
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 UNDERGROUND POWER AND COMMUNICATION UTILITIES ARE SHOWN APPROX. CONTRACTOR SHALL COORDINATE LOCATES FOR POWER AND COMMUNICATIONS.
DIAL BEFORE YOU DIG!

- NOTE:**
- COORDINATE ALL DEMOLITION WITH HAINES BOROUGH PUBLIC WORKS PRIOR TO START OF WORK.
 - SEE PLAN & PROFILE FOR ALL LAYOUT POINTS TO LIMITS OF HARDSCAPE DEMOLITION.
 - EXIST CONTOURS SHOWN AT 1' INTERVALS. FIELD VERIFY CONDITIONS.
 - COORDINATE ALL TRAFFIC CONTROL W/ ADJACENT OWNERS AND RESIDENTS.
 - COORDINATE DEMOLITION OF EXIST CONCRETE WALL IN ITS ENTIRETY ALONG 3RD AVE AND WILLARD ST WITH HAINES BOROUGH. APPROX. 180' LF DEMO, FIELD VERIFY.

TEST PIT SUMMARY

| TP-1A | | TP-1 | | TP-2 | |
|---------|----------------------|-------|------------------|-------|------------------------------|
| DEPTH | SOIL DESCRIPTION | DEPTH | SOIL DESCRIPTION | DEPTH | SOIL DESCRIPTION |
| 0'-3' | GRAVEL FILL | 0'-2' | GRAVEL FILL | 0'-2' | GRAVEL FILL |
| 3'-4.5' | SAND WITH SOME FINES | 2'-6' | SAND | 2'-6' | SAND, POSSIBLE BOULDER AT 5' |

**MAIN STREET TO STA. 6+25
 DEMOLITION PLAN**



**3RD AVENUE ROAD PROFILE
 MAIN STREET TO STA. 6+25**



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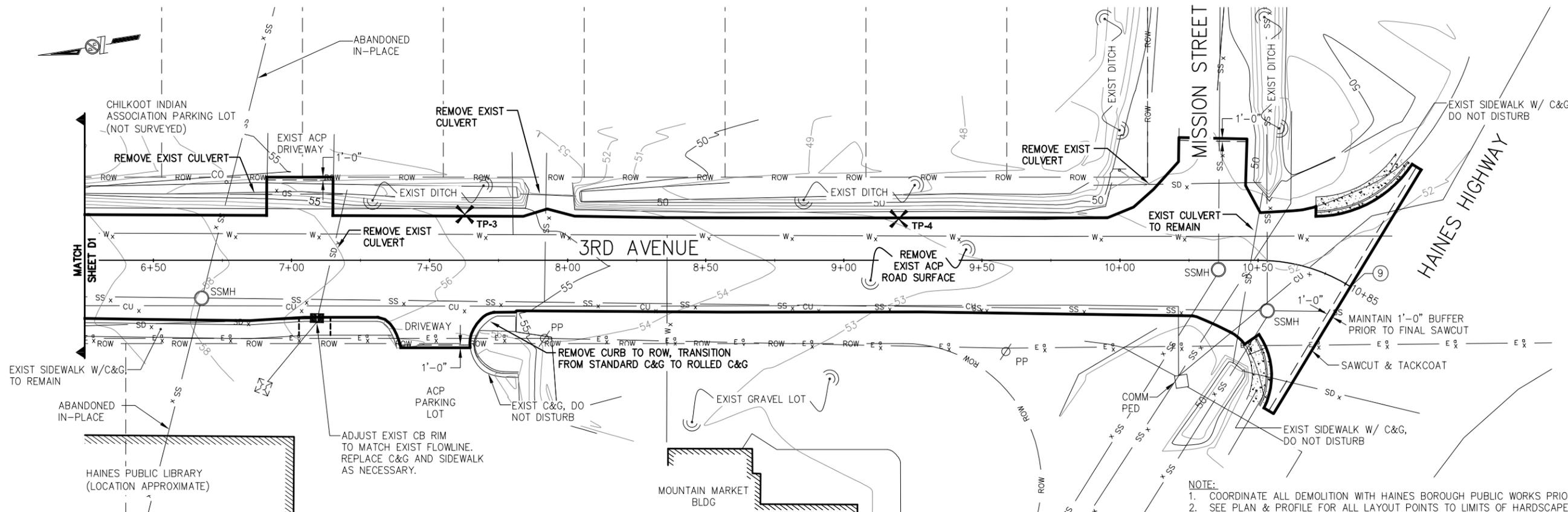


**HAINES BOROUGH
 STREET IMPROVEMENTS
 3RD AVENUE**

SHEET TITLE:
**3RD AVENUE DEMOLITION PLAN
 MAIN STREET TO STA. 6+25**

PND PROJECT NO.: 072071.04 DWG. FILE: D1-D2.DWG

D1
 SHEET
 4 OF 20



- NOTE:**
- COORDINATE ALL DEMOLITION WITH HAINE'S BOROUGH PUBLIC WORKS PRIOR TO START OF WORK.
 - SEE PLAN & PROFILE FOR ALL LAYOUT POINTS TO LIMITS OF HARDSCAPE DEMOLITION.
 - EXIST CONTOURS SHOWN AT 1' INTERVALS. FIELD VERIFY CONDITIONS.
 - COORDINATE ALL TRAFFIC CONTROL W/ ADJACENT OWNERS AND RESIDENTS.
 - COORDINATE DEMOLITION OF EXIST CONCRETE WALL ALONG WILLARD STREET WITH HAINE'S BOROUGH. APPROX. 100' LF DEMO FIELD VERIFY.

TEST PIT SUMMARY

| TP-3 | |
|-----------|------------------|
| DEPTH | SOIL DESCRIPTION |
| 0'-1.5' | GRAVEL FILL |
| 1.5'-4.5' | SAND |
| 4.5'-5.5' | CLAY W/ ORGANICS |

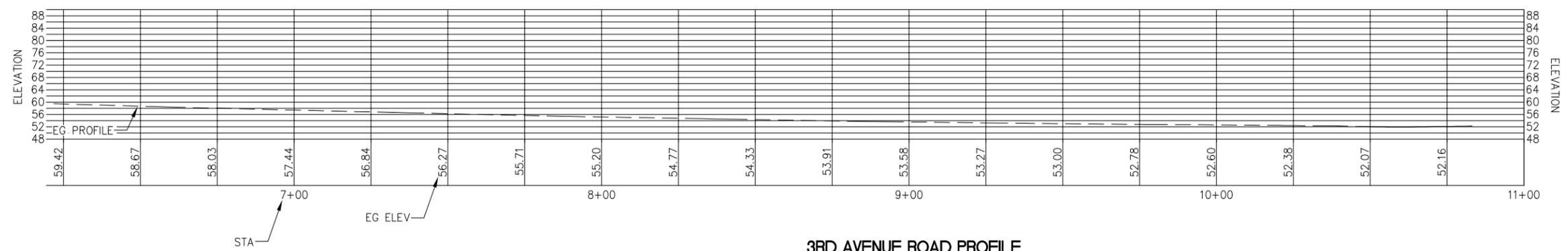
| TP-4 | |
|-------|-----------------------------|
| DEPTH | SOIL DESCRIPTION |
| 0'-2' | GRAVEL FILL |
| 2'-4' | SAND |
| 4'-6' | CLAY W/ ORGANICS, FUEL ODOR |

CAUTION

UNDERGROUND POWER AND COMMUNICATION UTILITIES ARE SHOWN APPROX. CONTRACTOR SHALL COORDINATE LOCATES FOR POWER AND COMMUNICATIONS.

DIAL BEFORE YOU DIG!

**STA. 6+25 TO HAINE'S HIGHWAY
DEMOLITION PLAN**



**3RD AVENUE ROAD PROFILE
STA. 6+25 TO HAINE'S HIGHWAY**



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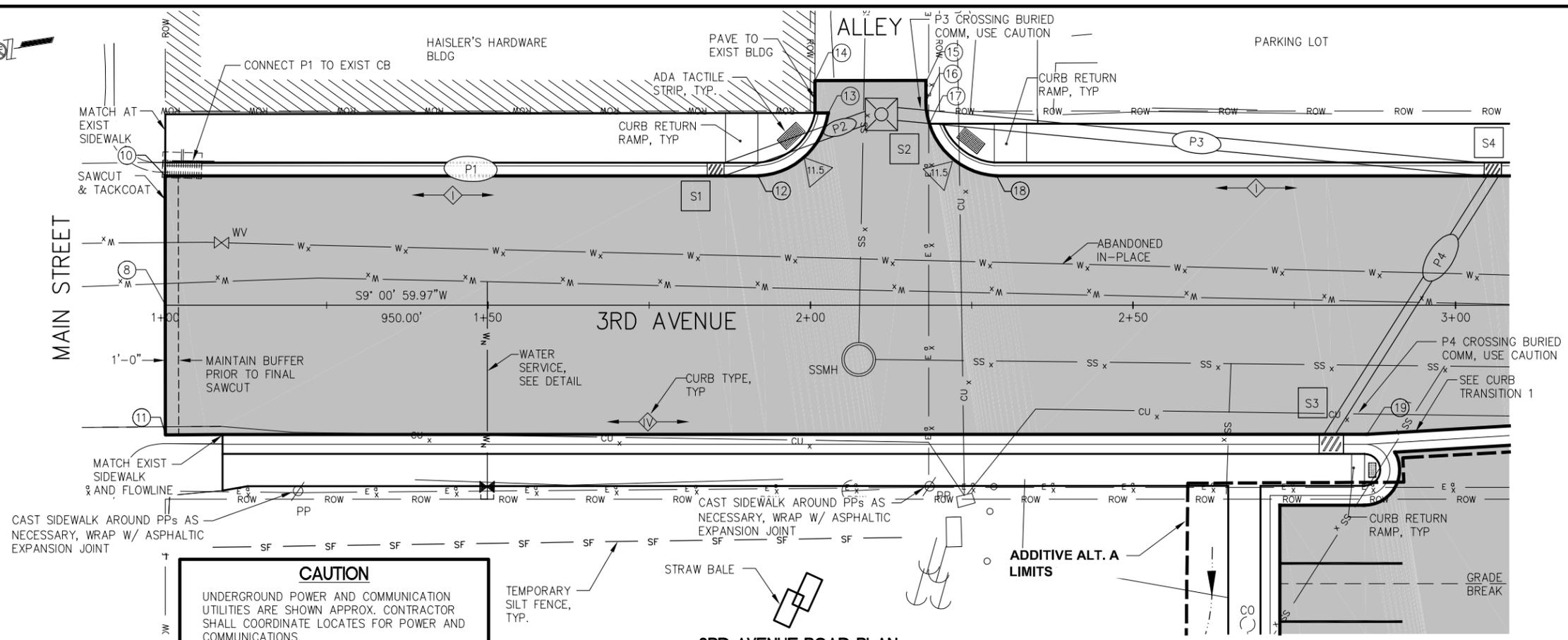


**HAINE'S BOROUGH
STREET IMPROVEMENTS
3RD AVENUE**

SHEET TITLE:
**3RD AVENUE DEMOLITION PLAN
STA. 6+25 TO HAINE'S HIGHWAY**

PND PROJECT NO.: 072071.04 DWG. FILE: D1-D2.DWG

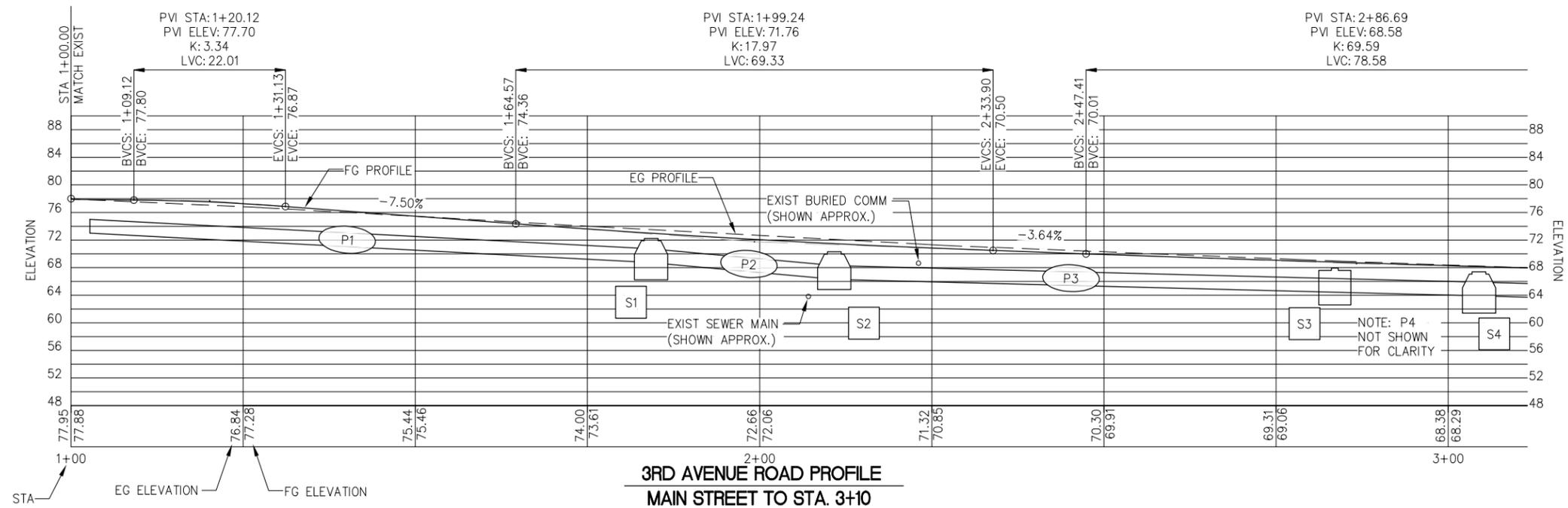
D2
SHEET
5 OF 20



CAUTION
 UNDERGROUND POWER AND COMMUNICATION UTILITIES ARE SHOWN APPROX. CONTRACTOR SHALL COORDINATE LOCATES FOR POWER AND COMMUNICATIONS.
DIAL BEFORE YOU DIG!

3RD AVENUE ROAD PLAN
 MAIN STREET TO STA. 3+10

TYPICAL SECTION A ALLEY B



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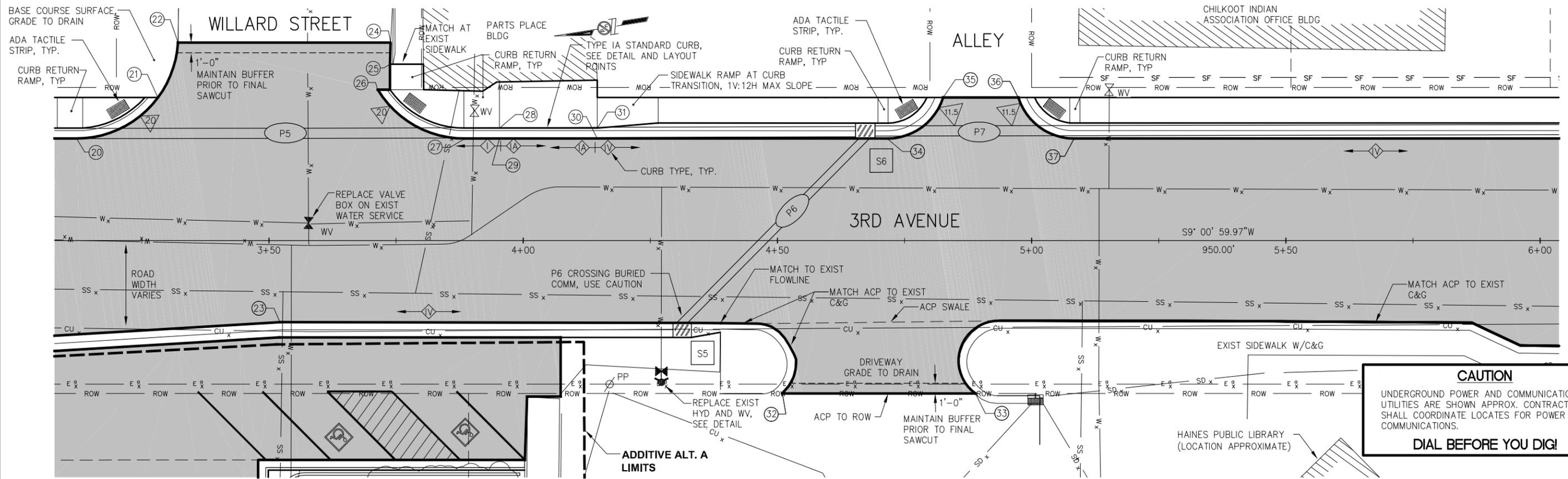
HAINES BOROUGH
STREET IMPROVEMENTS
3RD AVENUE

SHEET TITLE:
3RD AVENUE PLAN AND PROFILE
 MAIN STREET TO STA. 3+10

E1

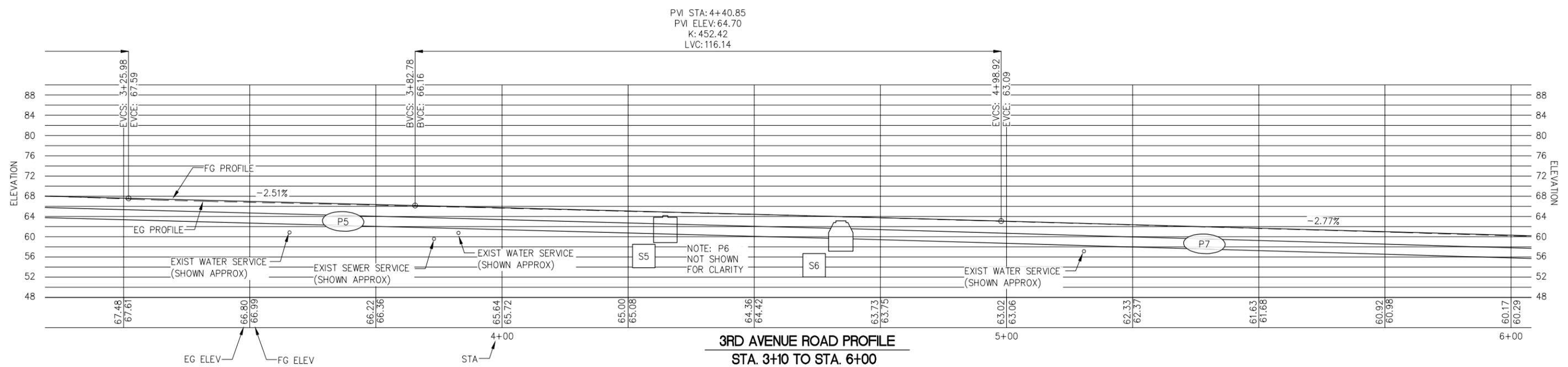
SHEET
6 OF 20

PND PROJECT NO.: 072071.04 DWG. FILE: E1-E4,K1-J1.DWG



3RD AVENUE ROAD PLAN
STA. 3+10 TO STA. 6+00

| | | | | | |
|-----------------|--------------|---|---|-------|---|
| TYPICAL SECTION | INTERSECTION | C | D | ALLEY | E |
|-----------------|--------------|---|---|-------|---|



3RD AVENUE ROAD PROFILE
STA. 3+10 TO STA. 6+00



| REVISIONS | | | | | |
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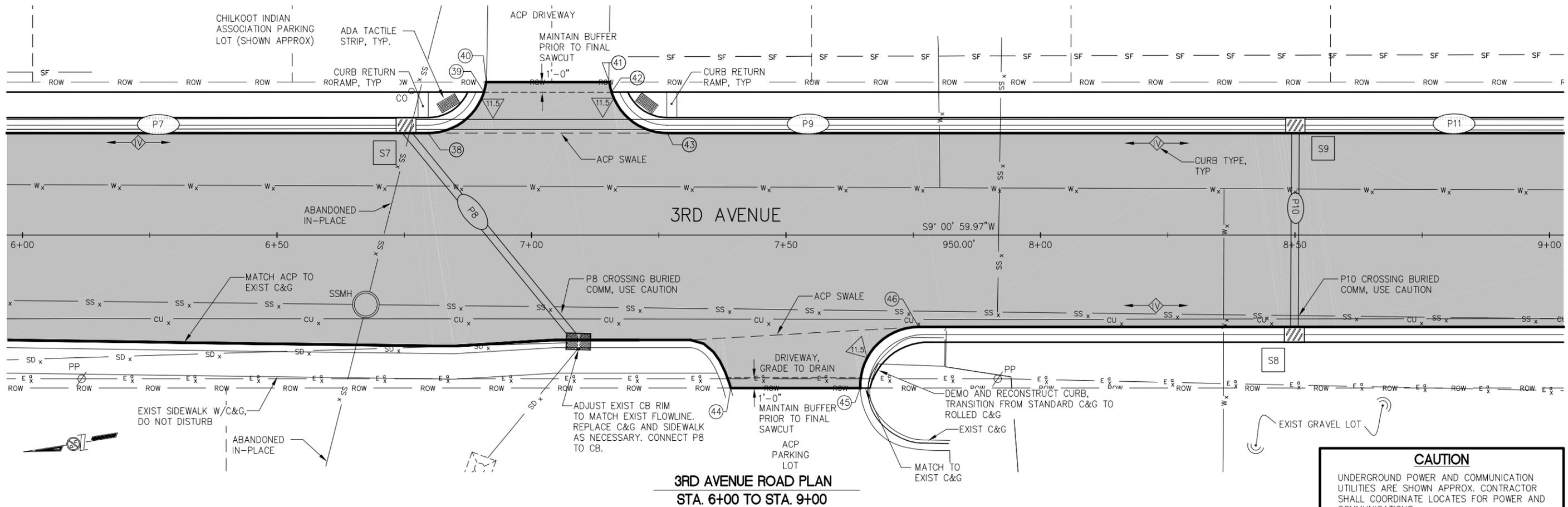


**HAINES BOROUGH
STREET IMPROVEMENTS
3RD AVENUE**

SHEET TITLE:
**3RD AVENUE PLAN AND PROFILE
STA. 3+10 TO STA. 6+00**

PND PROJECT NO.: 072071.04 DWG. FILE: E1-E4,K1-J1.DWG

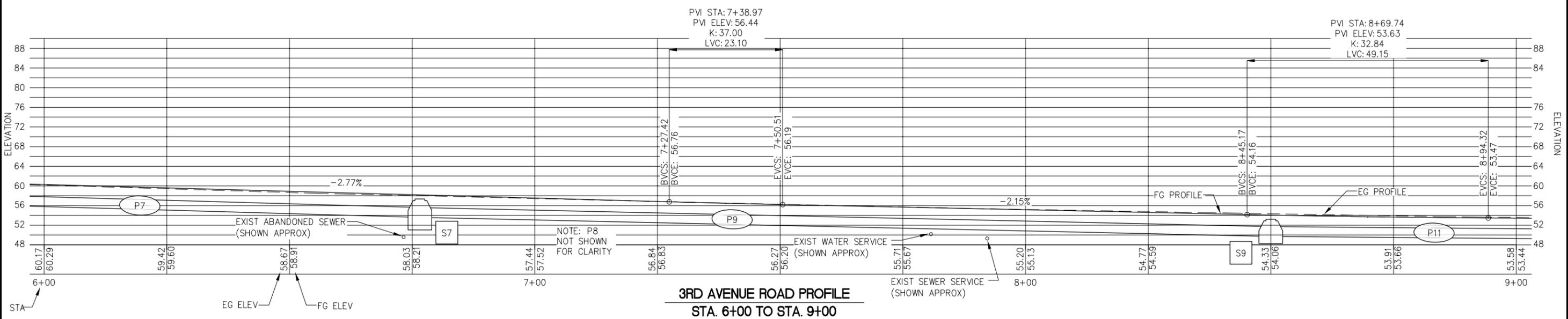
E2
SHEET
7 OF 20



CAUTION
 UNDERGROUND POWER AND COMMUNICATION UTILITIES ARE SHOWN APPROX. CONTRACTOR SHALL COORDINATE LOCATES FOR POWER AND COMMUNICATIONS.
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**3RD AVENUE ROAD PLAN
 STA. 6+00 TO STA. 9+00**

TYPICAL SECTION **E** **DRIVEWAYS** **F**



**3RD AVENUE ROAD PROFILE
 STA. 6+00 TO STA. 9+00**



| REVISIONS | | | | | |
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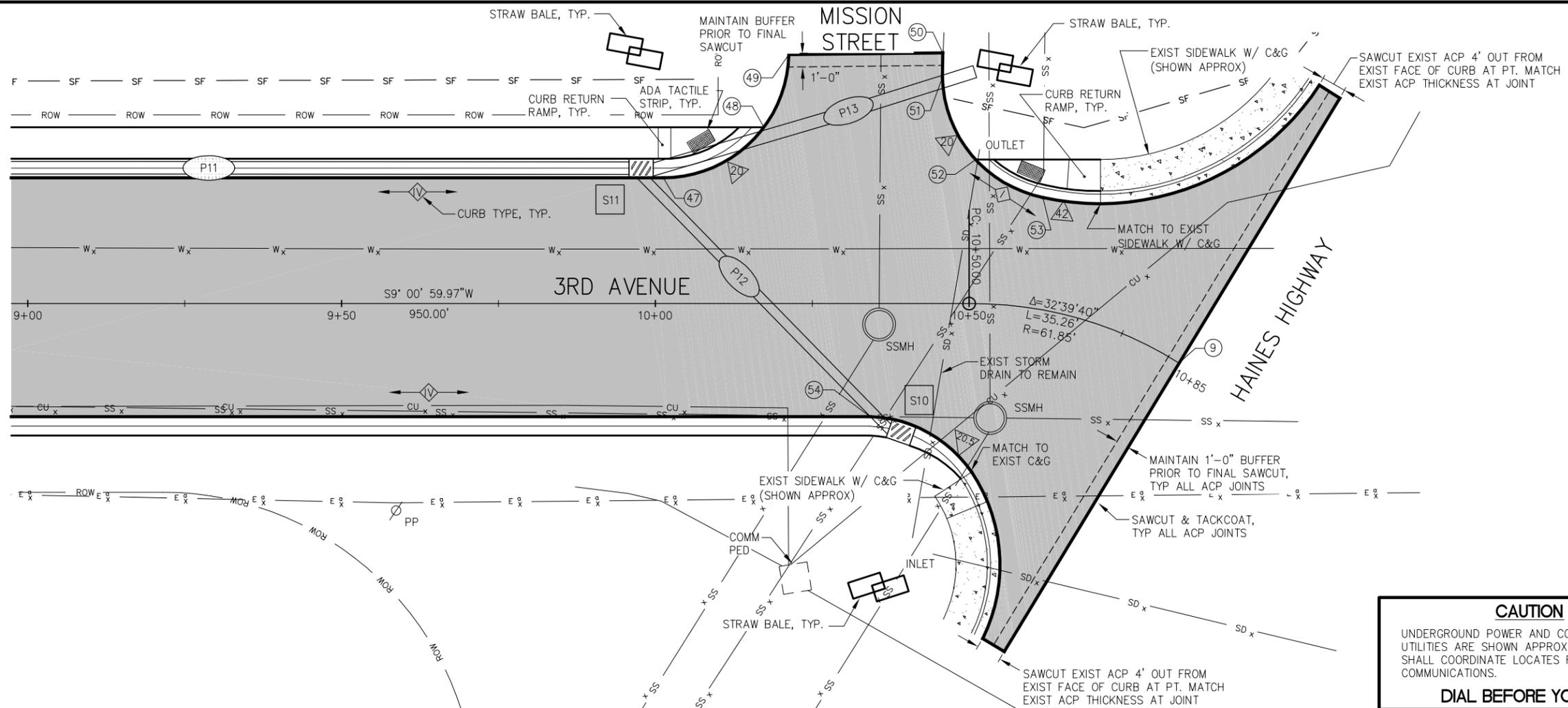


**HAINES BOROUGH
 STREET IMPROVEMENTS
 3RD AVENUE**

SHEET TITLE:
**3RD AVENUE PLAN AND PROFILE
 STA. 6+00 TO STA. 9+00**
 PND PROJECT NO.: 072071.04 DWG. FILE: E1-E4,K1-J1.DWG

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CAUTION

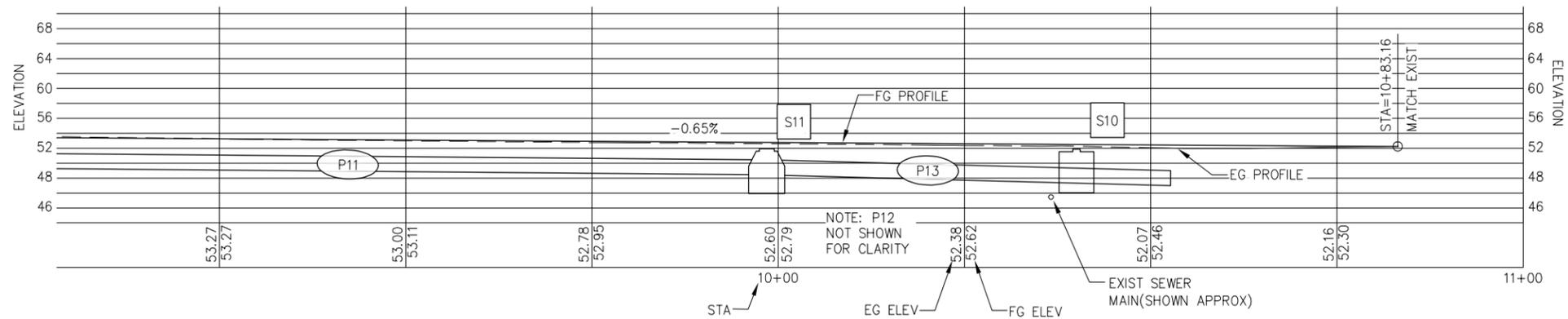
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DIAL BEFORE YOU DIG!

TYPICAL SECTION



**3RD AVENUE ROAD PLAN
STA. 9+00 TO HAINES HIGHWAY**



**3RD AVENUE ROAD PROFILE
STA. 9+00 TO HAINES HIGHWAY**

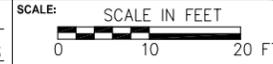


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**HAINES BOROUGH
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3RD AVENUE**

SHEET TITLE:
**3RD AVENUE PLAN AND PROFILE
STA. 9+00 TO HAINES HIGHWAY**

PND PROJECT NO.: 072071.04 DWG. FILE: E1-E4,K1-J1.DWG

E4

SHEET
9 OF **20**

603 (1) CULVERT SUMMARY

| PIPE | PIPE INLET | | PIPE OUTLET | | LENGTH (FT) | SIZE/TYPE | REMARKS |
|------|------------|-------------|-------------|-------------|-------------|-----------|---|
| | STRUCTURE | INVERT ELEV | STRUCTURE | INVERT ELEV | | | |
| P1 | EXIST | 73.00 | S1 | 68.64 | 80 | 24" CSP | CONNECT TO EXIST CB AT STA 1+00, 20 FT LT |
| P2 | S1 | 68.64 | S2 | 66.30 | 25 | 24" CSP | |
| P3 | S2 | 66.30 | S4 | 63.82 | 90 | 24" CSP | |
| P4 | S3 | 64.97 | S4 | 63.82 | 45 | 18" CSP | |
| P5 | S4 | 63.82 | S6 | 59.57 | 160 | 24" CSP | |
| P6 | S5 | 61.17 | S6 | 59.57 | 50 | 18" CSP | MAY REQUIRE 45-DEG FITTING ON INLET |
| P7 | S6 | 59.57 | S7 | 53.60 | 210 | 24" CSP | |
| P8 | EXIST | 54.15 | S7 | 53.60 | 55 | 18" CSP | CONNECT TO EXIST CB AT STA 7+09, 22 FT RT. MAY REQUIRE 45-DEG FITTING ON INLET. |
| P9 | S7 | 53.60 | S9 | 49.71 | 175 | 24" CSP | |
| P10 | S8 | 50.27 | S9 | 49.71 | 40 | 18" CSP | |
| P11 | S9 | 49.71 | S11 | 48.45 | 145 | 24" CSP | |
| P12 | S10 | 49.00 | S11 | 48.45 | 55 | 18" CSP | |
| P13 | S11 | 48.45 | DAYLIGHT | 47.00 | 60 | 24" CSP | DAYLIGHT OUTLET AT DITCH |
| P14 | S12 | 61.50 | EXIST | 60.96 | 90 | 18" CSP | ADDITIVE ALTERNATE A. CONNECT TO EXIST AREA DRAIN |

- NOTE:
 1. FIELD VERIFY ALL EXISTING INVERT ELEVATIONS.
 2. ALL PIPE LENGTHS ARE APPROXIMATE. ADJUST LENGTHS AS REQ'D IN FIELD.

604 (5) STORM SEWER STRUCTURE SUMMARY

| STRUCTURE | LOCATION | | | STRUCTURE INLET | | STRUCTURE OUTLET | | SIZE/TYPE | REMARKS |
|-----------|-------------------|-----------|----------|-----------------|-------------|------------------|-------------|-----------|----------------------|
| | STATION | OFFSET | RIM ELEV | PIPE | INVERT ELEV | PIPE | INVERT ELEV | | |
| S1 | 3RD AVE. 1+84.25 | 39.00 LT | 72.14 | P1 | 68.64 | P2 | 68.64 | TYPE V | |
| S2 | 3RD AVE. 2+10.80 | 29.5 LT | 70.30 | P2 | 66.30 | P3 | 66.30 | TYPE V | AREA DRAIN |
| S3 | 3RD AVE. 2+82.90 | 21.5 RT | 67.97 | -- | -- | P4 | 64.97 | TYPE IV | |
| S4 | 3RD AVE. 3+07.40 | 21.5 LT | 67.32 | P3 P4 | 63.82 | P5 | 63.82 | TYPE V | |
| S5 | 3RD AVE. 4+32.40 | 17.50 RT | 64.17 | -- | -- | P6 | 61.17 | TYPE IV | |
| S6 | 3RD AVE. 4+68.80 | 21.5 LT | 63.07 | P5 P6 | 59.57 | P7 | 59.57 | TYPE V | |
| S7 | 3RD AVE. 6+76.70 | 21.5 LT | 57.32 | P7 P8 | 53.60 | P9 | 53.60 | TYPE V | |
| S8 | 3RD AVE. 8+50.00 | 19.5 RT | 53.27 | -- | -- | P10 | 50.27 | TYPE IV | |
| S9 | 3RD AVE. 8+50.00 | 21.5 LT | 53.21 | P9 P10 | 49.71 | P11 | 49.71 | TYPE V | |
| S10 | 3RD AVE. 10+39.90 | 20.6 RT | 51.80 | -- | -- | P12 | 49.00 | TYPE IV | |
| S11 | 3RD AVE. 9+99.50 | 21.5 LT | 51.95 | P11 P12 | 48.45 | P13 | 48.45 | TYPE V | |
| S12 | 3RD AVE. 3+45.00 | 122.42 RT | 65.16 | -- | -- | P14 | 61.50 | TYPE IV | ADDITIVE ALTERNATE A |

- NOTES:
 1. ALL EXIST STRUCTURE RIM ELEVATIONS ARE REFERENCED TO ORIGINAL GRADE. SEE STRUCTURE ADJUSTMENT TABLE FOR FINISHED GRADE ELEVATION.
 2. ALL EXIST PIPE LENGTHS AND LOCATIONS PROVIDED ARE APPROXIMATE. FIELD VERIFY.

605 (6) UNDERDRAIN SUMMARY

| PIPE | PIPE INLET | | PIPE OUTLET | | LENGTH (FT) | SIZE/TYPE | REMARKS |
|------|-------------|-------------|-------------|-------------|-------------|-----------|-------------------------------------|
| | STRUCTURE | INVERT ELEV | STRUCTURE | INVERT ELEV | | | |
| P15 | SEE REMARKS | 62.50 | S12 | 61.50 | 125 | 4" PCPP | PIPE INLET AT STA 3+99, 45 FT RIGHT |

- NOTE:
 1. FIELD VERIFY ALL EXISTING INVERT ELEVATIONS.
 2. ALL PIPE LENGTHS ARE APPROXIMATE. ADJUST LENGTHS AS REQ'D IN FIELD.



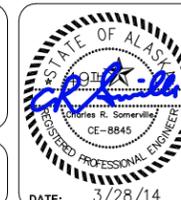
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**HAINES BOROUGH
 STREET IMPROVEMENTS
 3RD AVENUE**

SHEET TITLE:

SUMMARY TABLES

PND PROJECT NO.: 072071.04 DWG. FILE: F1-F3.DWG

F1

SHEET
10 OF 20

| 202 (2) REMOVAL OF PAVEMENT | | | | |
|-----------------------------|----------------|-------------|-------|-----------------------------------|
| | STATION | OFFSET (FT) | | REMARKS |
| | | LEFT | RIGHT | |
| START | 3RD AVE. 1+00 | ALL | ALL | SEE ROAD LAYOUT POINTS FOR LIMITS |
| END | 3RD AVE. 10+85 | ALL | ALL | SEE ROAD LAYOUT POINTS FOR LIMITS |

| 202 (3) REMOVAL OF SIDEWALK | | | | |
|-----------------------------|---------------|-------------|-------|-----------------------------------|
| | STATION | OFFSET (FT) | | REMARKS |
| | | LEFT | RIGHT | |
| START | 3RD AVE. 1+00 | ALL | | SEE ROAD LAYOUT POINTS FOR LIMITS |
| END | 3RD AVE. 2+25 | ALL | | SEE ROAD LAYOUT POINTS FOR LIMITS |
| START | 3RD AVE. 2+75 | ALL | | SEE ROAD LAYOUT POINTS FOR LIMITS |
| END | 3RD AVE. 3+30 | ALL | | SEE ROAD LAYOUT POINTS FOR LIMITS |
| START | 3RD AVE. 3+75 | ALL | | SEE ROAD LAYOUT POINTS FOR LIMITS |
| END | 3RD AVE. 4+60 | ALL | | SEE ROAD LAYOUT POINTS FOR LIMITS |

| 202 (4) REMOVAL OF CULVERT PIPE | | | | | | | | |
|---------------------------------|-----------|--------|----------------|-----------|--------|-------------|-----------|-------------------------------------|
| INLET | | | OUTLET | | | LENGTH (FT) | SIZE/TYPE | REMARKS |
| STATION | ELEVATION | OFFSET | STATION | ELEVATION | OFFSET | | | |
| 3RD AVE. 1+02 | 73.00 | 22 LT | 3RD AVE. 5+01 | 59.98 | 23 LT | 400 | 24" MP | TO BE REPLACED. SEE CULVERT SUMMARY |
| 3RD AVE. 2+17 | -- | 37 LT | 3RD AVE. 2+17 | -- | 22 LT | 15 | - | TO BE REPLACED. SEE CULVERT SUMMARY |
| 3RD AVE. 7+10 | 54.17 | 22 RT | 3RD AVE. 7+20 | 52.51 | 25 LT | 50 | 12" CMP | TO BE REPLACED. SEE CULVERT SUMMARY |
| 3RD AVE. 6+78 | 53.35 | 24 LT | 3RD AVE. 7+18 | 52.13 | 24 LT | 21 | 18" CPP | TO BE REPLACED. SEE CULVERT SUMMARY |
| 3RD AVE. 7+83 | 50.56 | 24 LT | 3RD AVE. 8+03 | 50.51 | 23 LT | 20 | 18" CMP | TO BE REPLACED. SEE CULVERT SUMMARY |
| 3RD AVE. 9+90 | 47.19 | 27 LT | 3RD AVE. 10+51 | 47.15 | 28 LT | 61 | 18" CMP | TO BE REPLACED. SEE CULVERT SUMMARY |

| 604 (4) ADJUST EXISTING MANHOLE | | | | |
|---------------------------------|-------------|-------|------|---------|
| STATION | OFFSET (FT) | | TYPE | REMARKS |
| | LEFT | RIGHT | | |
| 3RD AVE. 2+07 | | 8.36 | SS | |
| 3RD AVE. 6+67 | | 13.63 | SS | |
| 3RD AVE. 10+36 | | 3.36 | SS | |
| 3RD AVE. 10+55 | | 18.12 | SS | |

NOTE: FRAMES SHALL BE ADJUSTED TO MIN 3/8", MAX 3/4" BELOW FINISH GRADE PRIOR TO PAVING. IF FRAMES ARE NOT WITHIN THE ALLOWABLE TOLERANCES, SAWCUT SURROUNDING ACP AND CONSTRUCT CONCRETE COLLAR PER STANDARD DETAIL 126, CITY AND BOROUGH OF JUNEAU STANDARD DETAILS, 4TH EDITION.

| 627 (3) INSTALL VALVE BOX | | | |
|---------------------------|-------------|-------|-------------------------|
| STATION | OFFSET (FT) | | REMARKS |
| | LEFT | RIGHT | |
| 3RD AVE. 3+58 | 4 | | REPLACE EXIST VALVE BOX |

NOTE: VALVE BOX TOP SECTIONS SHALL BE RAISED TO MIN 3/8", MAX 5/8" BELOW FINISH GRADE PRIOR TO PAVING. IF TOP SECTIONS ARE NOT WITHIN THE ALLOWABLE TOLERANCES AFTER PAVING, SAWCUT SURROUNDING ACP, ADJUST VALVE BOX AND REPLACE ACP PER STANDARD DETAIL 407, CITY AND BOROUGH OF JUNEAU STANDARD DETAILS, 4TH EDITION.

| 627 (8) WATER SERVICE CONNECTION | | | |
|----------------------------------|-------------|-------|---------|
| STATION | OFFSET (FT) | | REMARKS |
| | LEFT | RIGHT | |
| 3RD AVE. 1+50 | | 30 | |

NOTE: COORDINATE SERVICE LOCATIONS AND INSTALLATIONS WITH HAINES BOROUGH PUBLIC WORKS DEPARTMENT.

| 627 (10) ADJUSTMENT OF VALVE BOX OR CLEANOUT | | | |
|--|-------------|-------|-----------|
| STATION | OFFSET (FT) | | REMARKS |
| | LEFT | RIGHT | |
| 3RD AVE. 1+09 | 9.51 | | |
| 3RD AVE. 2+68 | | 49.31 | ADD ALT A |
| 3RD AVE. 3+90 | 25.43 | | |
| 3RD AVE. 5+15 | 29.57 | | |
| 3RD AVE. 6+76 | 28.26 | | |

NOTE: VALVE BOX TOP SECTIONS OR CLEANOUT CAPS SHALL BE ADJUSTED TO MIN 3/8", MAX 5/8" BELOW FINISH GRADE PRIOR TO PAVING. IF TOP SECTIONS OR CAPS ARE NOT WITHIN THE ALLOWABLE TOLERANCES AFTER PAVING, SAWCUT SURROUNDING ACP, ADJUST VALVE BOX AND REPLACE ACP PER STANDARD DETAIL 407, CITY AND BOROUGH OF JUNEAU STANDARD DETAILS, 4TH EDITION.

| 627 (11) FIRE HYDRANT REPLACEMENT | | | |
|-----------------------------------|-------------|-------|---------|
| STATION | OFFSET (FT) | | REMARKS |
| | LEFT | RIGHT | |
| 3RD AVE. 4+28 | | 28 | |

NOTE: COORDINATE SERVICE LOCATIONS AND INSTALLATIONS WITH HAINES BOROUGH PUBLIC WORKS DEPARTMENT.

| 633 (1) TEMPORARY SILT FENCE | | | | |
|------------------------------|----------------|-------------|-------|------------|
| | STATION | OFFSET (FT) | | REMARKS |
| | | LEFT | RIGHT | |
| START | 3RD AVE. 1+00 | | X | |
| END | 3RD AVE. 2+25 | | X | |
| START | 3RD AVE. 2+00 | | X | STRAW BALE |
| END | | | | |
| START | 3RD AVE. 2+50 | | X | ADD ALT A |
| END | 3RD AVE. 4+00 | | X | |
| START | 3RD AVE. 5+00 | X | | |
| END | 3RD AVE. 6+25 | X | | |
| START | 3RD AVE. 7+25 | X | | |
| END | 3RD AVE. 10+00 | X | | |
| START | 3RD AVE. 10+00 | X | | STRAW BALE |
| END | | | | |
| START | 3RD AVE. 10+50 | X | | |
| END | 3RD AVE. 10+83 | X | | |
| START | 3RD AVE. 10+55 | X | X | STRAW BALE |
| END | | | | |

NOTE: ALL STATIONS PROVIDED ARE APPROXIMATE AS SHOWN IN PLANS. FIELD VERIFY.

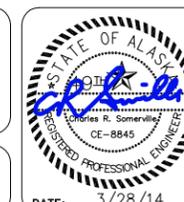


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**HAINES BOROUGH
STREET IMPROVEMENTS
3RD AVENUE**

SHEET TITLE:
SUMMARY TABLES

PND PROJECT NO.: 072071.04 DWG. FILE: F1-F3.DWG

F2
SHEET
11 OF 20

| 3RD AVENUE ROAD LAYOUT | | | | | |
|------------------------|-------------------|-------------|-------|-------|------------------------|
| POINT | STATION | OFFSET (FT) | | ELEV. | DESCRIPTION |
| | | LEFT | RIGHT | | |
| 10 | 3RD AVE. 1+00.00 | 20.00 | | MATCH | COR, ACP |
| 11 | 3RD AVE. 1+00.00 | | 20.00 | MATCH | COR, ACP |
| 12 | 3RD AVE. 1+91.86 | 20.00 | | -- | PC, ACP |
| 13 | 3RD AVE. 2+02.75 | 29.70 | | 71.10 | COR, ACP/CONC |
| 14 | 3RD AVE. 2+00.70 | 34.70 | | 71.06 | COR, ACP |
| 15 | 3RD AVE. 2+17.88 | 34.73 | | 70.60 | COR, ACP |
| 16 | 3RD AVE. 2+17.88 | 31.50 | | 70.64 | PC, ACP |
| 17 | 3RD AVE. 2+18.42 | 28.00 | | 70.70 | COR, CONC |
| 18 | 3RD AVE. 2+28.85 | 20.00 | | -- | PT, ACP |
| 19 | 3RD AVE. 2+85.88 | | 20.00 | -- | COR, ACP |
| 20 | 3RD AVE. 3+12.16 | 20.00 | | -- | PC, ACP |
| 21 | 3RD AVE. 3+28.19 | 28.04 | | 66.69 | COR, CONC |
| 22 | 3RD AVE. 3+32.12 | 38.81 | | MATCH | COR/PT, ACP |
| 23 | 3RD AVE. 3+52.38 | | 16.00 | -- | COR, ACP |
| 24 | 3RD AVE. 3+73.93 | 38.81 | | MATCH | COR, ACP |
| 25 | 3RD AVE. 3+73.81 | 34.57 | | MATCH | END SIDEWALK |
| 26 | 3RD AVE. 3+71.41 | 29.57 | | 65.56 | COR, ACP/CONC |
| 27 | 3RD AVE. 3+88.56 | 20.00 | | -- | PT, ACP |
| 28 | 3RD AVE. 3+95.33 | 22.00 | | 65.93 | TBC, BEGIN TYPE IA C&G |
| 29 | 3RD AVE. 3+95.33 | 20.00 | | 65.22 | EDGE, ACP |
| 30 | 3RD AVE. 4+14.58 | 20.00 | | 64.75 | EDGE, ACP |
| 31 | 3RD AVE. 4+14.58 | 22.00 | | 65.89 | TBC, END TYPE IA C&G |
| 32 | 3RD AVE. 4+50.92 | | 30.00 | MATCH | COR, ACP |
| 33 | 3RD AVE. 4+88.97 | | 30.00 | MATCH | COR, ACP |
| 34 | 3RD AVE. 4+71.63 | 20.00 | | -- | PC, ACP |
| 35 | 3RD AVE. 4+82.60 | 28.00 | | 63.30 | COR, ACP/CONC |
| 36 | 3RD AVE. 4+97.40 | 28.00 | | 62.60 | COR, ACP/CONC |
| 37 | 3RD AVE. 5+08.37 | 20.00 | | -- | PT, ACP |
| 38 | 3RD AVE. 6+79.71 | 20.00 | | -- | PC, ACP |
| 39 | 3RD AVE. 6+90.67 | 28.00 | | 57.34 | COR, CONC |
| 40 | 3RD AVE. 6+91.11 | 30.00 | | MATCH | COR, ACP |
| 41 | 3RD AVE. 7+15.31 | 30.00 | | MATCH | COR, ACP |
| 42 | 3RD AVE. 7+15.74 | 28.00 | | 56.65 | COR, CONC |
| 43 | 3RD AVE. 7+26.71 | 20.00 | | -- | PT, ACP |
| 44 | 3RD AVE. 7+39.16 | | 30.00 | MATCH | COR, ACP |
| 45 | 3RD AVE. 7+64.60 | | 30.00 | MATCH | COR, ACP |
| 46 | 3RD AVE. 7+76.10 | | 18.00 | -- | PT, ACP |
| 47 | 3RD AVE. 10+01.26 | 20.00 | | -- | PC, ACP |
| 48 | 3RD AVE. 10+17.29 | 28.00 | | 51.70 | COR, CONC |
| 49 | 3RD AVE. 10+21.26 | 39.61 | | MATCH | COR/PT, ACP |
| 50 | 3RD AVE. 10+45.81 | 39.88 | | MATCH | COR, ACP |
| 51 | 3RD AVE. 10+45.73 | 35.93 | | 50.87 | PC, ACP |
| 52 | 3RD AVE. 10+50.92 | 22.89 | | 51.76 | COR, CONC |
| 53 | 3RD AVE. 10+59.29 | 17.67 | | 51.80 | PCC, ACP |
| 54 | 3RD AVE. 10+34.25 | | 18.00 | -- | PC, ACP |

NOTE: WHERE ELEVATIONS ARE NOT PROVIDED, DETERMINE BY TYPICAL ROAD SECTIONS

| ADDITIVE ALTERNATE A LAYOUT | | | | | |
|-----------------------------|------------------|-------------|--------|-------|----------------------|
| POINT | STATION | OFFSET (FT) | | ELEV. | DESCRIPTION |
| | | LEFT | RIGHT | | |
| 55 | 3RD AVE. 2+72.76 | | 30.92 | 68.62 | COR, ACP |
| 56 | 3RD AVE. 2+85.82 | | 30.92 | 68.19 | PC, ACP |
| 57 | 3RD AVE. 2+72.76 | | 43.05 | 68.85 | GRADE BREAK, ACP |
| 58 | 3RD AVE. 2+72.76 | | 120.92 | 67.29 | COR, ACP |
| 59 | 3RD AVE. 3+47.90 | | 120.92 | 65.41 | COR, ACP |
| 60 | 3RD AVE. 3+49.90 | | 123.92 | 64.50 | TOE, BEGIN CURB WALL |
| 61 | 3RD AVE. 3+49.90 | | 45.03 | 64.50 | TOE, COR CURB WALL |
| 62 | 3RD AVE. 3+47.87 | | 43.03 | 67.00 | COR/GRADE BREAK, ACP |
| 63 | 3RD AVE. 4+00.30 | | 45.00 | 64.50 | TOE, END CURB WALL |
| 64 | 3RD AVE. 4+00.30 | | 43.00 | 65.62 | COR, ACP |
| 65 | 3RD AVE. 4+00.87 | | 30.68 | MATCH | COR, ACP |
| 66 | 3RD AVE. 4+07.16 | | 31.02 | MATCH | COR, ACP |
| 67 | 3RD AVE. 4+07.38 | | 19.00 | -- | COR, ACP |

NOTE: WHERE ELEVATIONS ARE NOT PROVIDED, DETERMINE BY TYPICAL ROAD SECTIONS

| HORIZONTAL ALIGNMENT | | | | |
|----------------------|----------|----------|-------|-------------------------------------|
| POINT | NORTHING | EASTING | ELEV. | DESCRIPTION |
| 8 | 15727.86 | 54358.70 | MATCH | 3RD AVE. BEGINNING POINT: STA. 1+00 |
| 9 | 14758.03 | 54195.22 | MATCH | 3RD AVE. END POINT: STA. 10+85.26 |

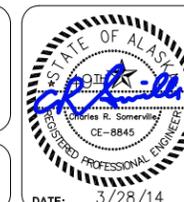


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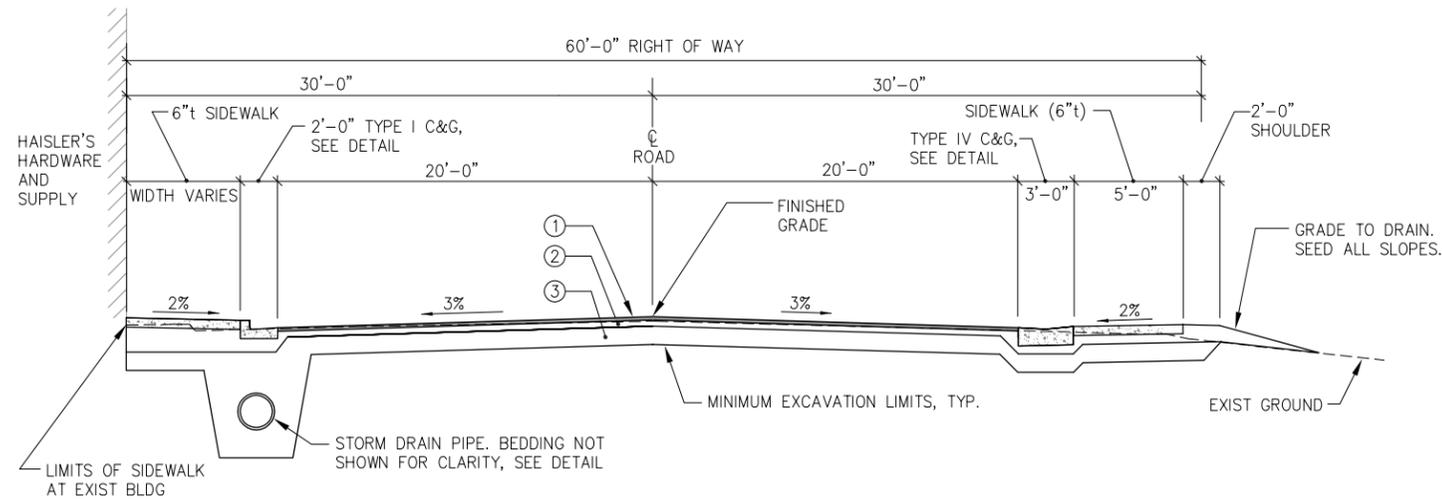


**HAINES BOROUGH
STREET IMPROVEMENTS
3RD AVENUE**

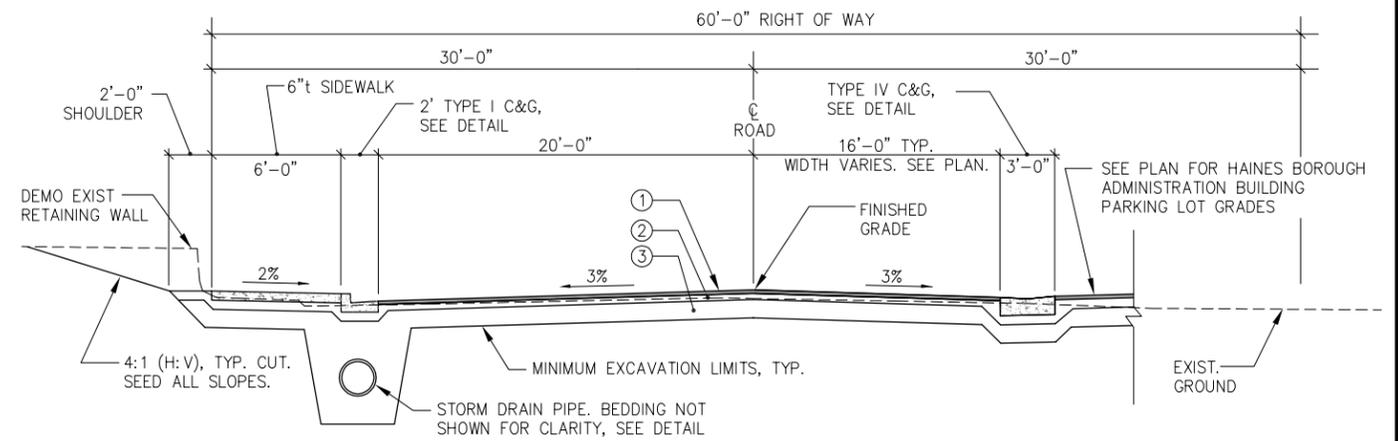
SHEET TITLE: **ROAD ALIGNMENT AND
LAYOUT TABLES**

PND PROJECT NO.: 072071.04 DWG. FILE: F1-F3.DWG

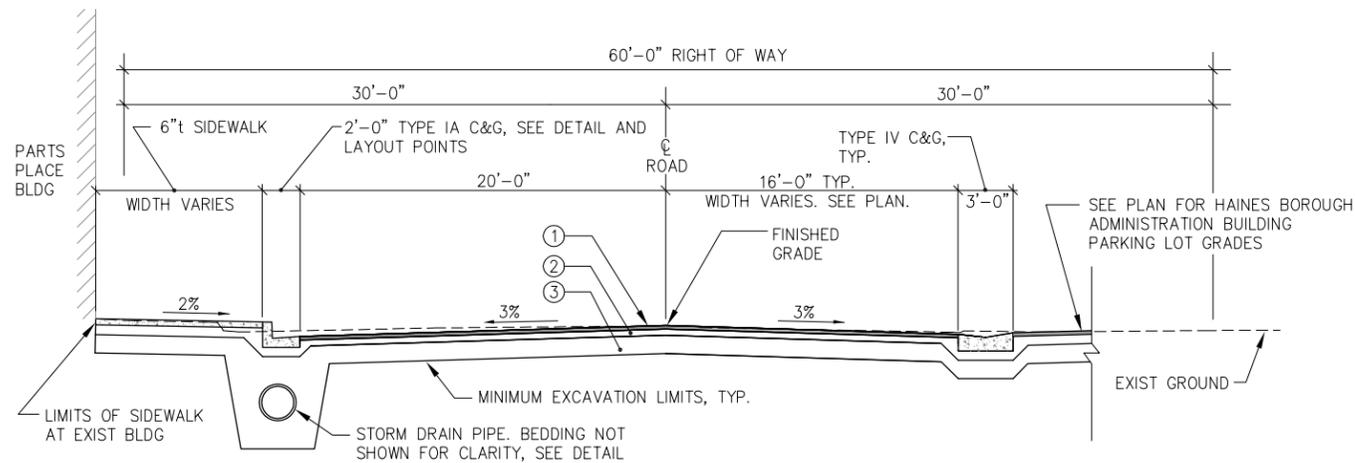
F3
SHEET
12 OF 20



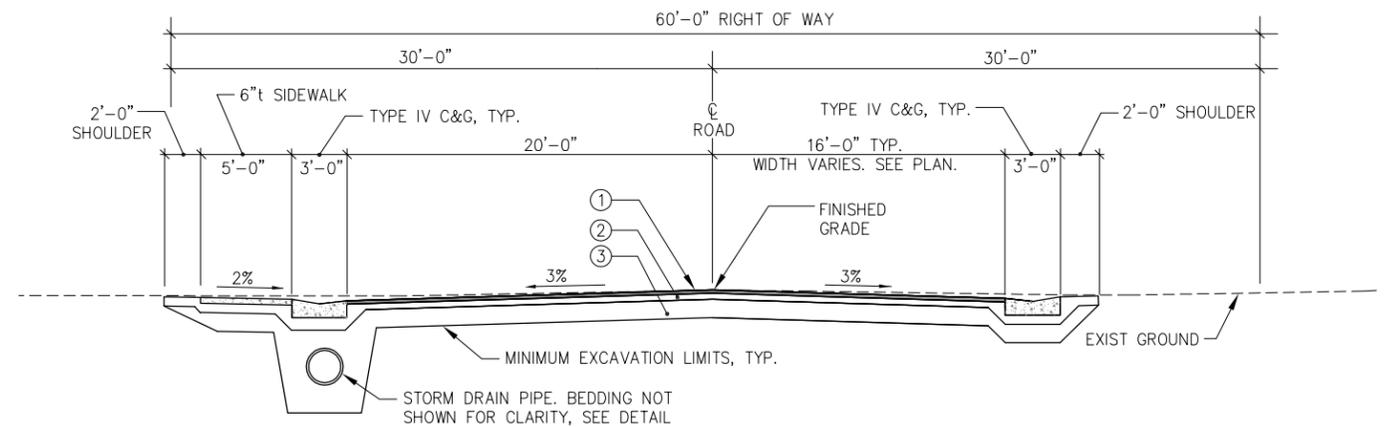
A
E1
TYPICAL ROAD SECTION - A



B
E1
TYPICAL ROAD SECTION - B



C
E1/E2
TYPICAL ROAD SECTION - C



D
E2
TYPICAL ROAD SECTION - D

| MATERIAL SCHEDULE | |
|-------------------|---|
| SYMBOL | MATERIAL DESCRIPTION |
| ① | 2 1/4" ACP, TYPE II, CLASS B |
| ② | 4" AGGREGATE BASE COURSE, GRADING D-1 |
| ③ | 12" MIN SUBBASE (TO COMPETENT MAT'L), GRADING A |

NOTES:

- SEE PLAN VIEW FOR TYPICAL SECTION APPROXIMATE STATION RANGES.
- SUB-EXCAVATE ALL AREAS DEEMED UNSUITABLE AND BACKFILL WITH SUBBASE. COMPACT SUBBASE IN LIFTS PRIOR TO INSTALLING BASE COURSE.
- DO NOT DISTURB EXISTING FENCES, UTILITIES, CONCRETE DRIVEWAYS, OR OTHER HARDSCAPES. ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

CAUTION

UNDERGROUND POWER AND COMMUNICATION UTILITIES ARE SHOWN APPROX. CONTRACTOR SHALL COORDINATE LOCATES FOR POWER AND COMMUNICATIONS.

DIAL BEFORE YOU DIG!



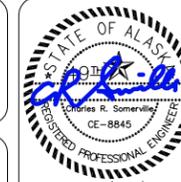
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**HAINES BOROUGH
STREET IMPROVEMENTS
3RD AVENUE**

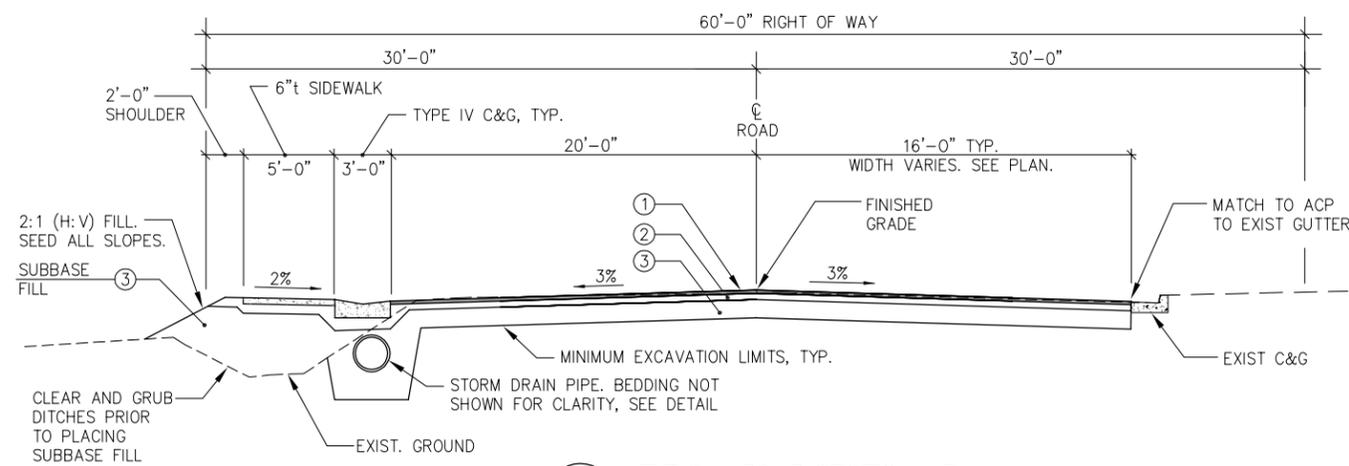
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TYPICAL SECTIONS

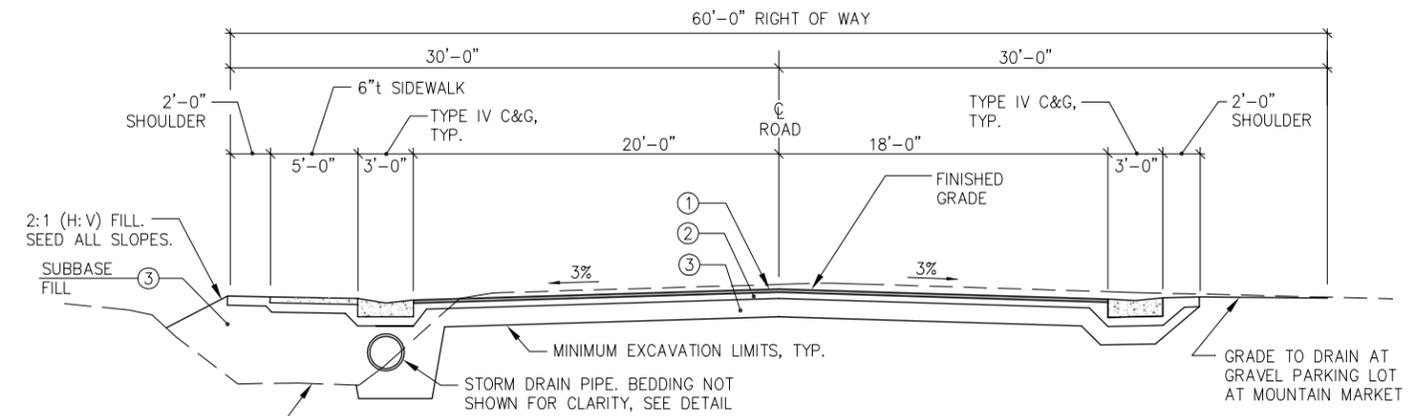
PND PROJECT NO.: 072071.04 DWG. FILE: G1-G2.DWG

G1

SHEET
13 OF 20



E
E2/E3
TYPICAL ROAD SECTION - E



F
E3/E4
TYPICAL ROAD SECTION - F

| MATERIAL SCHEDULE | |
|-------------------|---|
| SYMBOL | MATERIAL DESCRIPTION |
| ① | 2 1/4" ACP, TYPE II, CLASS B |
| ② | 4" AGGREGATE BASE COURSE, GRADING D-1 |
| ③ | 12" MIN SUBBASE (TO COMPETENT MAT'L), GRADING A |



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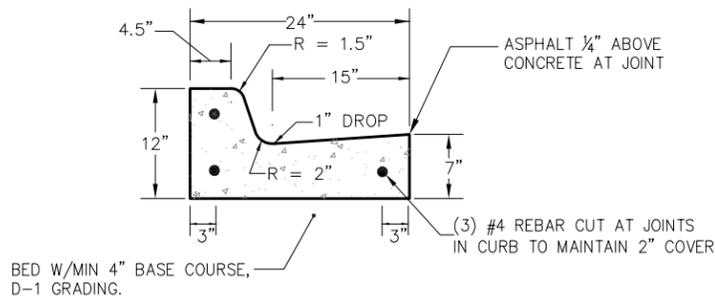


**HAINES BOROUGH
STREET IMPROVEMENTS
3RD AVENUE**

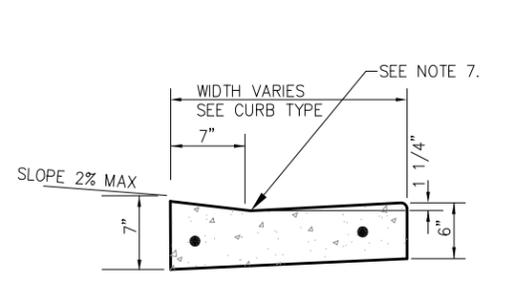
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TYPICAL SECTIONS

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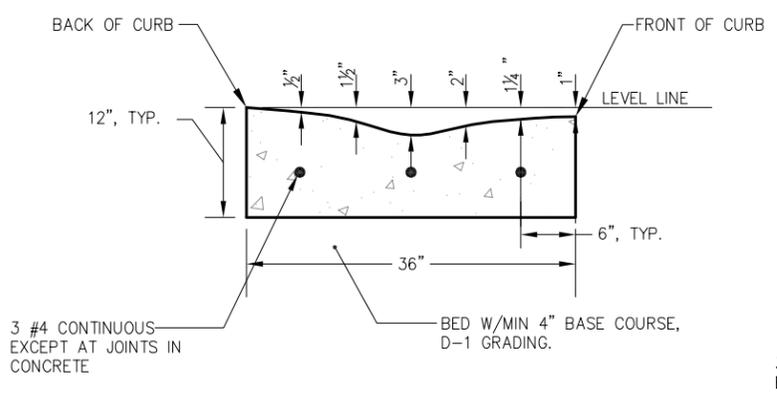
G2
SHEET
14 OF 20



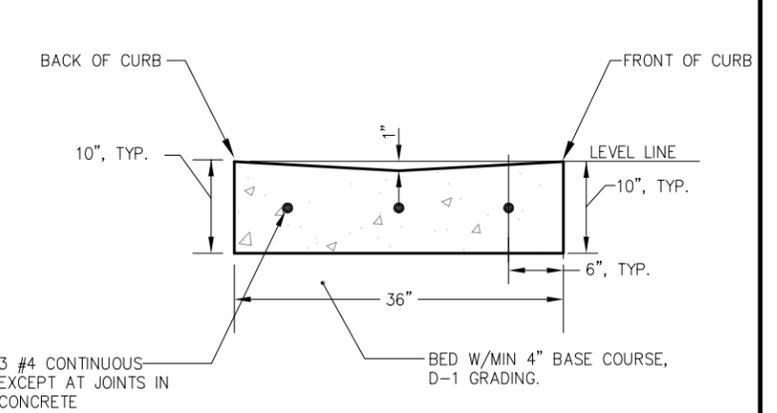
1 TYPE I STANDARD CURB AND GUTTER SECTION



2 TYPE I CURB CUT DETAIL

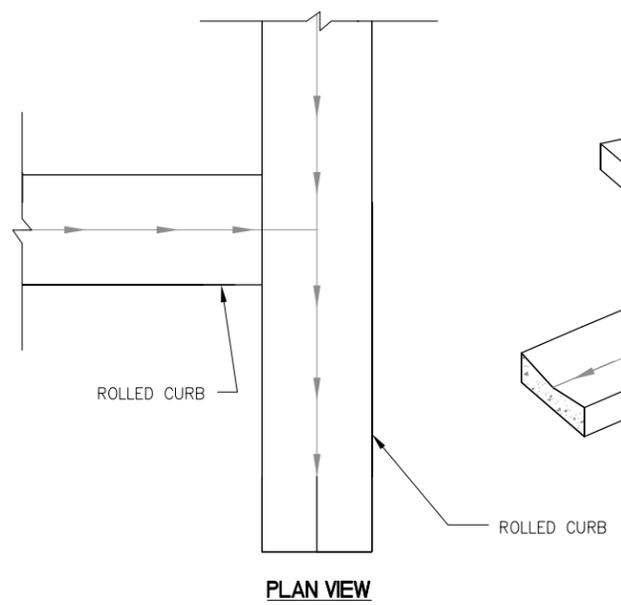


3 TYPE IV ROLLED CURB AND GUTTER SECTION

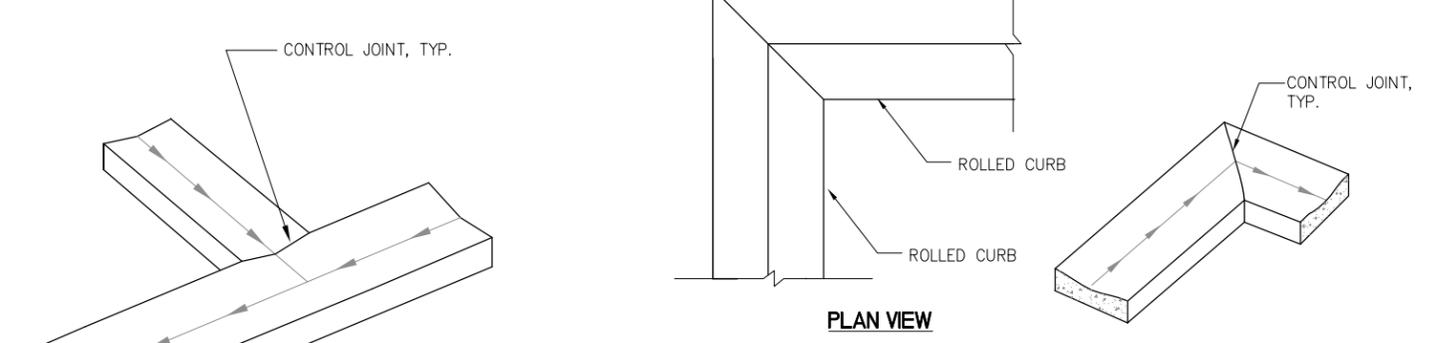


4 TYPE IV CURB CUT DETAIL

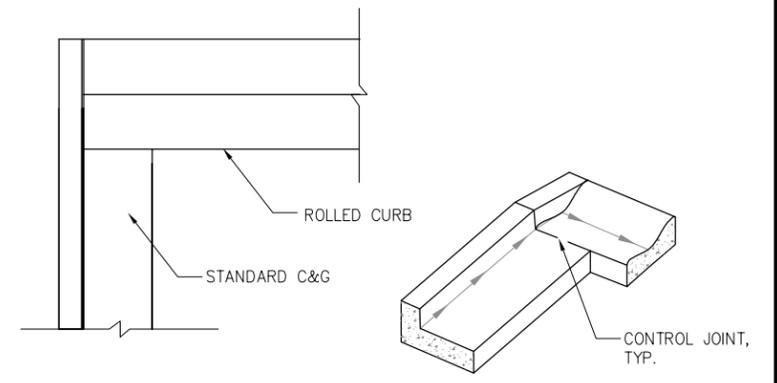
- NOTES
1. CURB AND GUTTER TRANSITION DESIGN TO BE APPROVED BY THE ENGINEER.
 2. ALL STEEL MUST HAVE A MINIMUM OF 2" OF CONCRETE COVER.
 3. ALL JOINTS AND SEAMS SHALL BE EDGED.
 4. EXPANSION JOINTS SHALL BE MAX 1/2", MIN 1/4", WITH NO GAPS FOR WATER INTRUSION. JOINTS SHALL BE A MAXIMUM OF 30' O.C.
 5. STEEL TROWELING FINISH REQUIRED PRIOR TO BROOM FINISHING OF ALL SURFACES.
 6. CONCRETE INTERNATIONAL CORPORATION ASHFORD FORMULA OR APPROVED EQUAL SHALL BE APPLIED AS A CURING COMPOUND. APPLICATION SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS.
 7. TRANSITION AT ADA CURB CUTS SHALL BE FLUSH (LEVEL) AND FREE OF ABRUPT CHANGES, AS SHOWN.



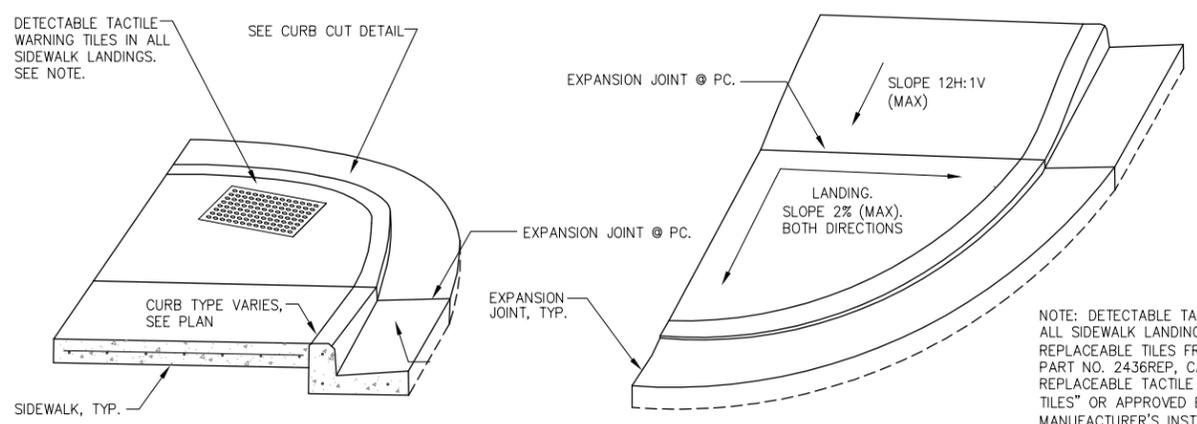
5 ROLLED CURB-TO-ROLLED CURB TRANSITION 1



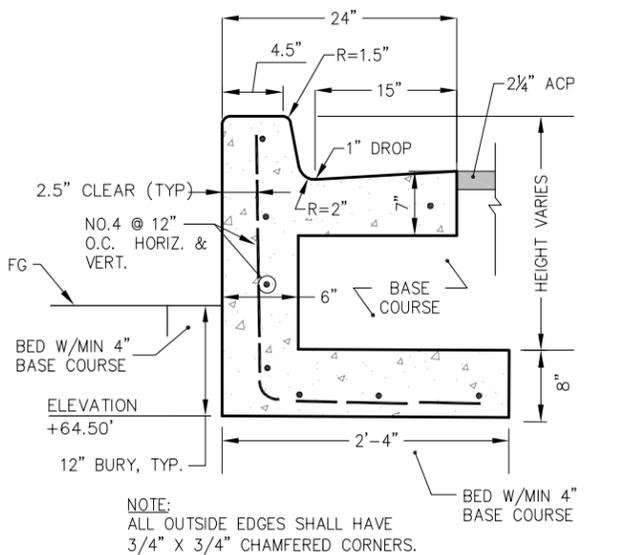
6 ROLLED CURB-TO-ROLLED CURB TRANSITION 2



7 STANDARD CURB-TO-ROLLED CURB TRANSITION 3



8 CURB RETURN RAMP



9 CURB WALL



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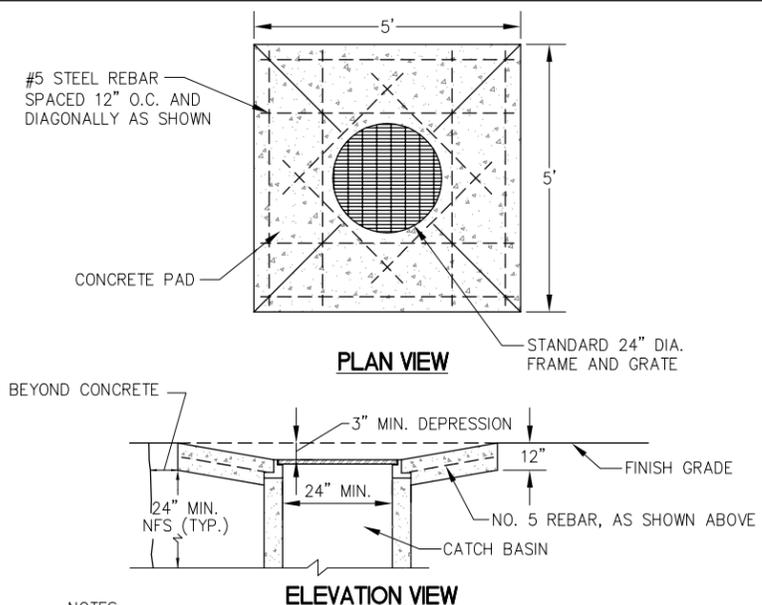


HAINES BOROUGH STREET IMPROVEMENTS 3RD AVENUE

SHEET TITLE: **MISCELLANEOUS DETAILS**

PND PROJECT NO.: 072071.04 DWG. FILE: H1-H4.DWG

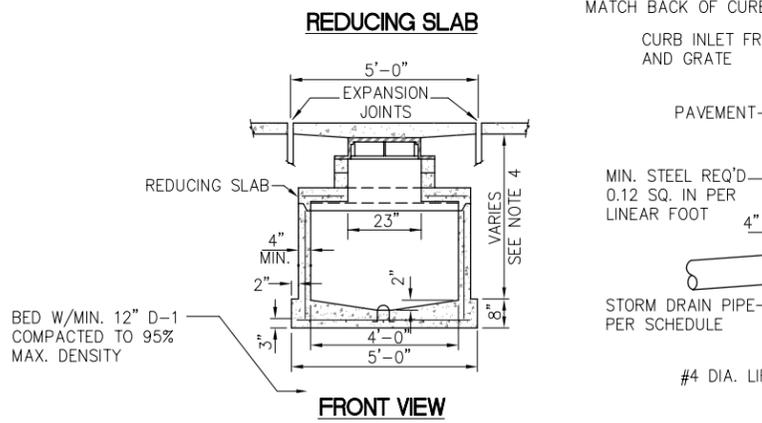
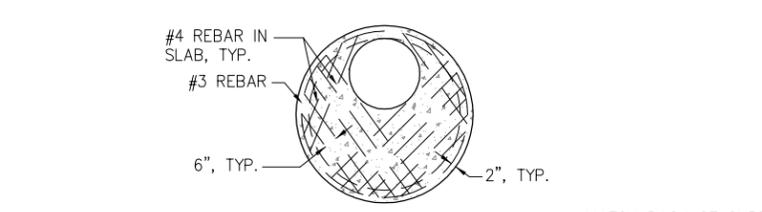
H1
SHEET 15 OF 20



PLAN VIEW
STANDARD 24" DIA. FRAME AND GRATE

ELEVATION VIEW
3" MIN. DEPRESSION
FINISH GRADE
24" MIN. N.F.S. (TYP.)
NO. 5 REBAR, AS SHOWN ABOVE
CATCH BASIN

NOTES:
1. FRAME AND GRATE MUST BE OF A TYPE THAT WILL NOT CREATE A HAZARD FOR BICYCLE TRAFFIC.
2. COMPACT BACKFILL TO 95% OF MAXIMUM DENSITY.

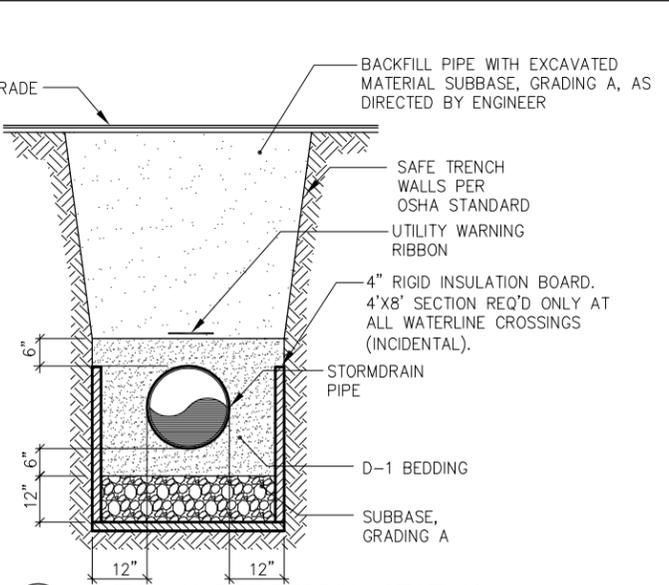


REDUCING SLAB
#4 REBAR IN SLAB, TYP.
#3 REBAR
6", TYP.
2", TYP.

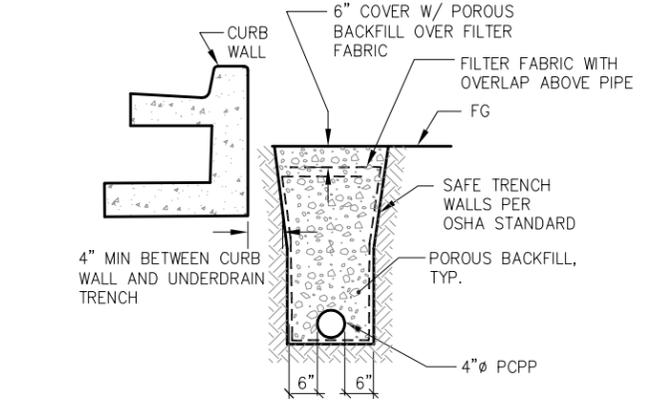
FRONT VIEW
5'-0" EXPANSION JOINTS
REDUCING SLAB
4" MIN.
2"
4'-0"
5'-0"
8"
VARIABLES SEE NOTE 4
BED W/MIN. 12" D-1 COMPACTED TO 95% MAX. DENSITY

NOTES:
1. COMPRESSIVE STRENGTH OF CONC. SHALL BE MINIMUM 4000 P.S.I., EXCEPT BASE SLAB WHICH MAY BE 3000 P.S.I. BASE AND BARREL SHALL BE CONNECTED BY CONTINUOUS STEEL.
2. SEE ASTM C-478-64T FOR DESIGN REQUIREMENTS.
3. AT CATCH BASIN, DELETE CONC. CURB AND GUTTER, PAVE TO FACE OF CATCH BASIN INLET.
4. PROVIDE MIN. 6" BEDDING AROUND BASE AND SIDES OF ALL DRAINAGE STRUCTURES.
5. BASE SHALL BEAR ON COMPETENT SUBGRADE.

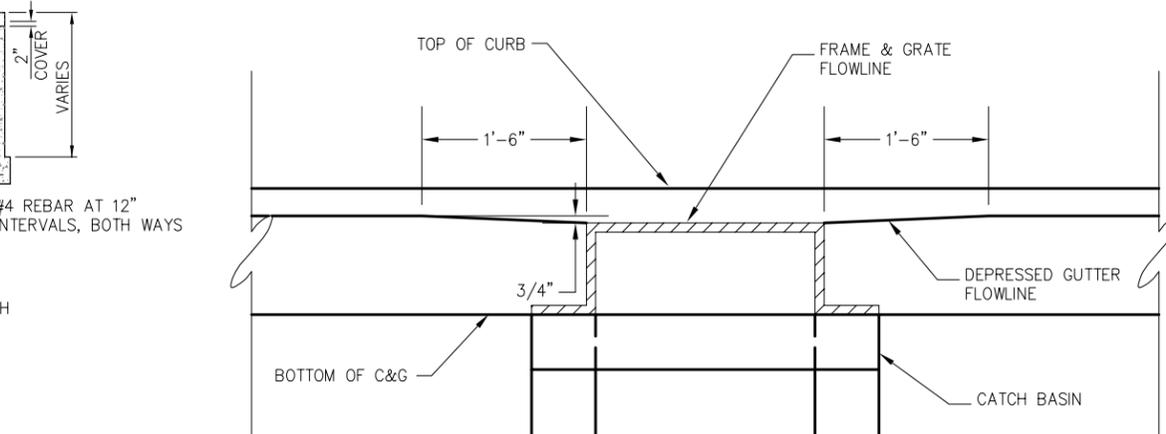
1 CONCRETE AREA DRAIN



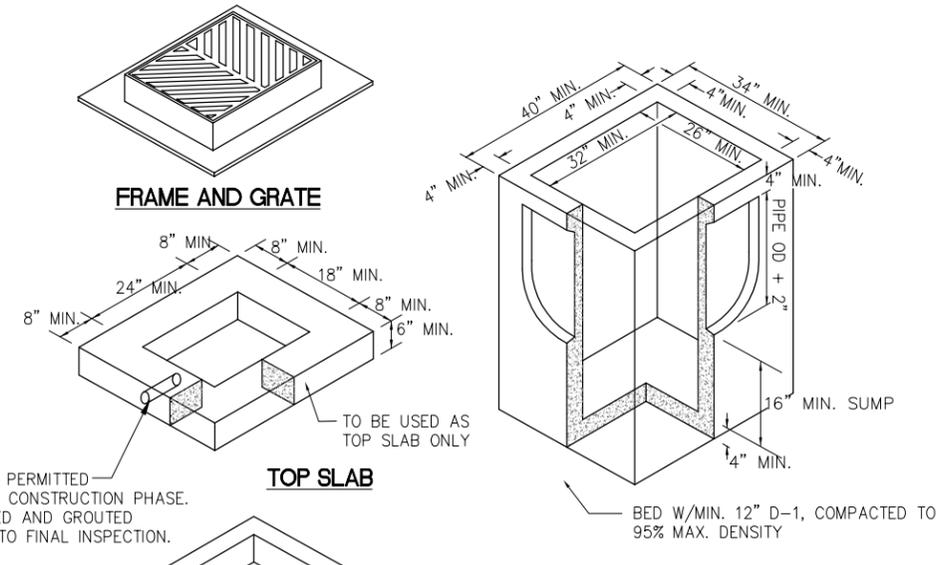
2 TYPICAL PIPE BEDDING SECTION



3 UNDERDRAIN AT BOROUGH ADMIN BUILDING PARKING LOT



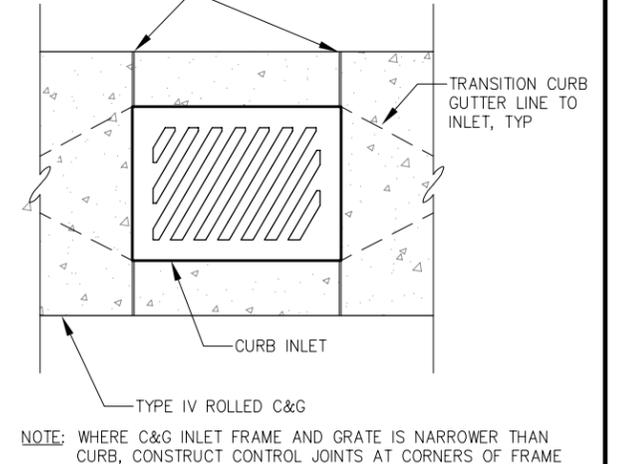
6 GUTTER DEPRESSION AT CATCH BASIN



FRAME AND GRATE
TOP SLAB
CATCH BASIN
ADJUSTING RING

NOTES:
1. ALL JOINTS BETWEEN SECTIONS AND BETWEEN FRAME AND CONCRETE SECTIONS SHALL BE GROUTED INSIDE AND OUTSIDE.
2. ENTIRE KNOCKOUT IS TO BE REMOVED AND SEALED SHUT AROUND PIPE. ALL PIPES ARE TO EXTEND MIN. 1" AND MAX. 2" INTO CATCH BASIN.
3. FRAME AND GRATE SHALL BE DUCTILE IRON. FRAME MAY BE CAST INTO THE TOP UNIT OF PLACED OVER THE OPENING AS APPROVED BY THE ENGINEER. FRAME AND GRATE MUST BE OF A TYPE THAT WILL NOT CREATE A HAZARD FOR BICYCLE TRAFFIC.
4. CATCH BASIN SHALL MEET HIGHWAY STANDARD-20 LOAD REQUIREMENTS.
5. MINIMUM STEEL REQUIRED AS PER ASTM C-478-69.
6. MINIMUM SUMP DEPTH SHALL BE 16".
7. ADJUSTING RING SHALL BE THE SAME SIZE AS THE CATCH BASIN.
8. NO BRICKS, WOOD, OR OTHER MATERIALS PERMITTED FOR ADJUSTING GRADE, SOLID RISER OR FORMED TYPE II ONLY.
9. FRAME AND GRATE SHALL MATCH CURB TYPE. SEE PLAN FOR CURB TYPES AND STRUCTURE LOCATIONS.

4 TYPE IV CATCH BASIN



7 ROLLED CURB INLET PLAN DETAIL

5 TYPE V CATCH BASIN W/REDUCING SLAB



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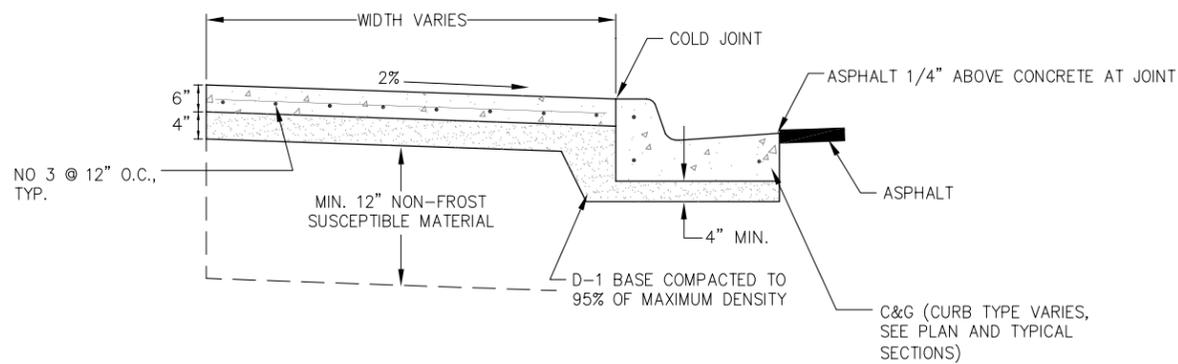


HAINES BOROUGH STREET IMPROVEMENTS 3RD AVENUE

SHEET TITLE: **MISCELLANEOUS DETAILS**

PND PROJECT NO.: 072071.04 DWG. FILE: H1-H4.DWG

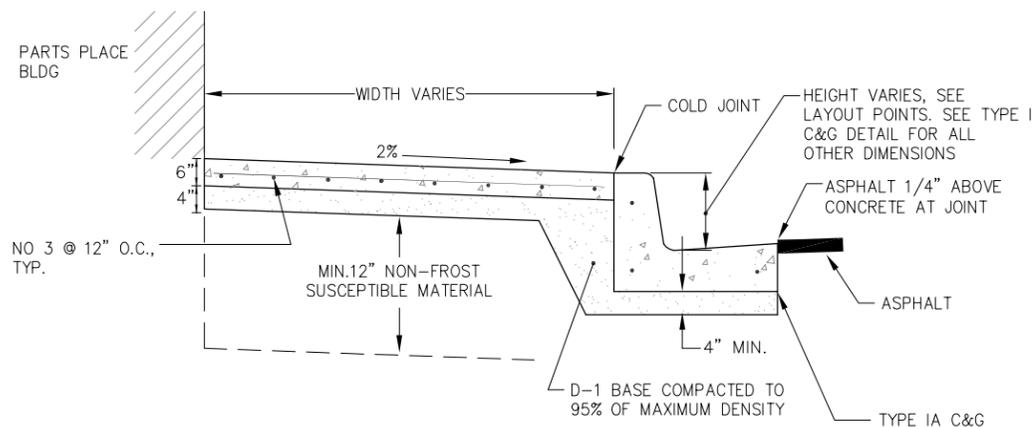
H2
SHEET 16 OF 20



NOTES:

1. ALL STEEL MUST HAVE A MINIMUM OF 2" OF CONCRETE COVER. FIBER REINFORCING SHALL BE ALLOWED PER ENGINEER OF PLANS.
2. ALL JOINTS AND SEAMS SHALL BE EDGED.
3. EXPANSION JOINTS SHALL BE MAX 1/2", MIN 1/4", WITH NO GAPS FOR WATER INTRUSION.
4. STEEL TROWELING FINISH REQUIRED PRIOR TO BROOM FINISHING ON ALL SURFACES.
5. CONCRETE INTERNATIONAL CORPORATION ASHFORD FORMULA OR APPROVED EQUAL SHALL BE APPLIED AS A CURING COMPOUND. APPLICATION SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATIONS.

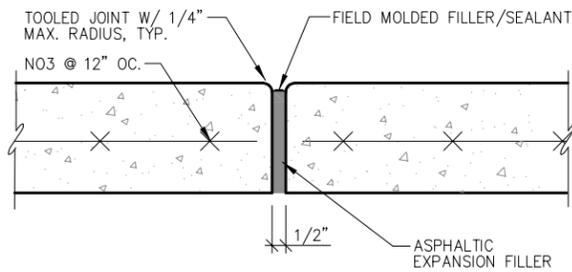
1 TYPICAL CONCRETE SIDEWALK



NOTES:

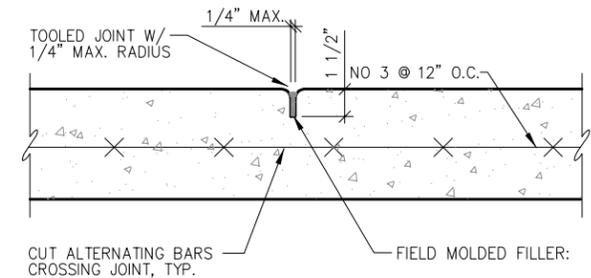
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4 TYPE IA CURB AND GUTTER AT PARTS PLACE BUILDING



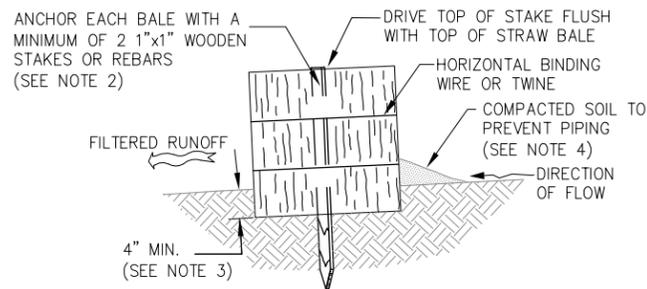
2 TYPICAL EXPANSION JOINT

NOTE: EXPANSION JOINT SPACING SHALL BE 30' MAX FOR SIDEWALK AND C&G.

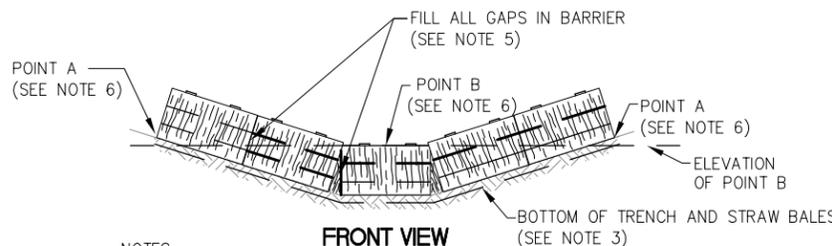


3 TYPICAL CONTROL JOINT

NOTE: CONTROL JOINT SPACING FOR C&G SHALL BE 10' MAX FOR C&G. MAX SPACING IN SIDEWALK SHALL BE EQUAL TO SIDEWALK WIDTH.



SIDE VIEW

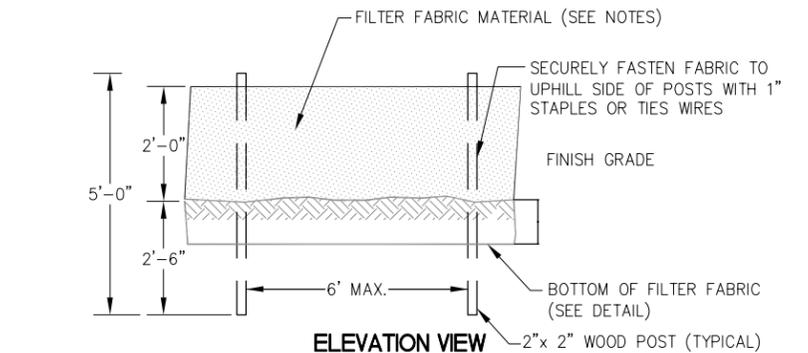


FRONT VIEW

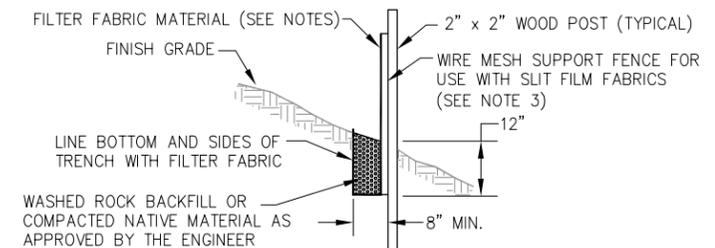
NOTES:

1. BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE ON THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.
2. DRIVE THE FIRST STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER.
3. TRENCH DEPTH SHALL BE A MINIMUM OF 4". ALL GRASS AND OTHER MATERIAL THAT WILL ALLOW UNDERFLOW SHALL BE REMOVED. TRENCH WIDTH SHALL BE EQUAL TO THE WIDTH OF THE BALES.
4. BACKFILL SHALL BE BUILT UP 4" AND COMPACTED ON UPHILL SIDE OF BARRIER.
5. FILL CHINKS BY WEDGING LOOSE STRAW BETWEEN BALES ON UPHILL SIDE PRIOR TO BACKFILLING AND COMPACTING.
6. POINT A SHALL BE HIGHER THAN POINT B.

5 STRAW BALE BARRIER



ELEVATION VIEW



SIDE VIEW

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 TYPE SHALL BE APPROVED BY THE ENGINEER.
3. MORE SUPPORT POSTS MAY BE SUBSTITUTED FOR WIRE MESH AS APPROVED BY THE ENGINEER.
4. FILTER FABRIC FENCE SHALL BE REMOVED AFTER UPSLOPE HAS BEEN STABILIZED. RETAINED MATERIALS SHALL BE REMOVED FROM SITE AND PROPERLY DISPOSED OF.

6 FILTER FABRIC FENCE



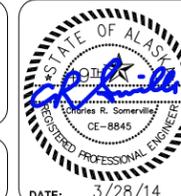
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**HAINES BOROUGH
STREET IMPROVEMENTS
3RD AVENUE**

SHEET TITLE:

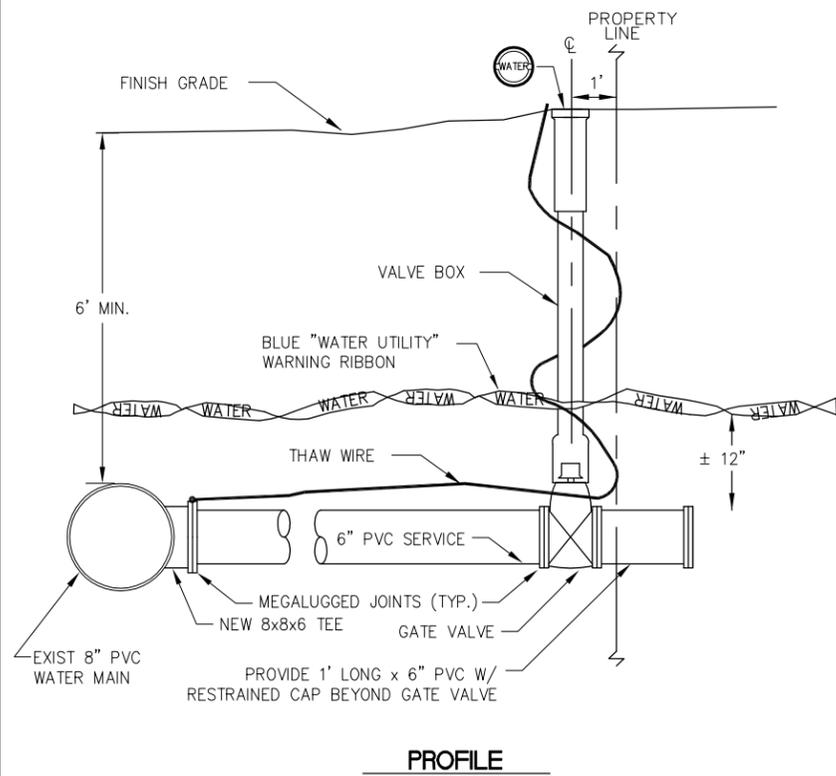
**MISCELLANEOUS
DETAILS**

PND PROJECT NO.: 072071.04

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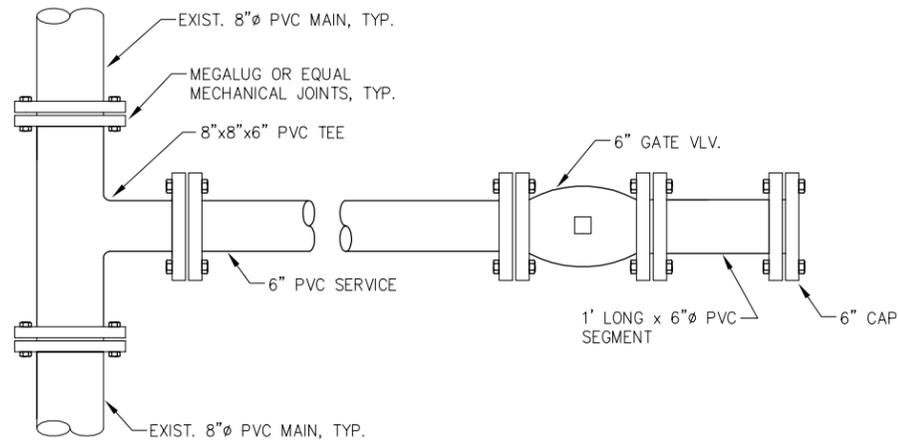
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SHEET
17 OF 20

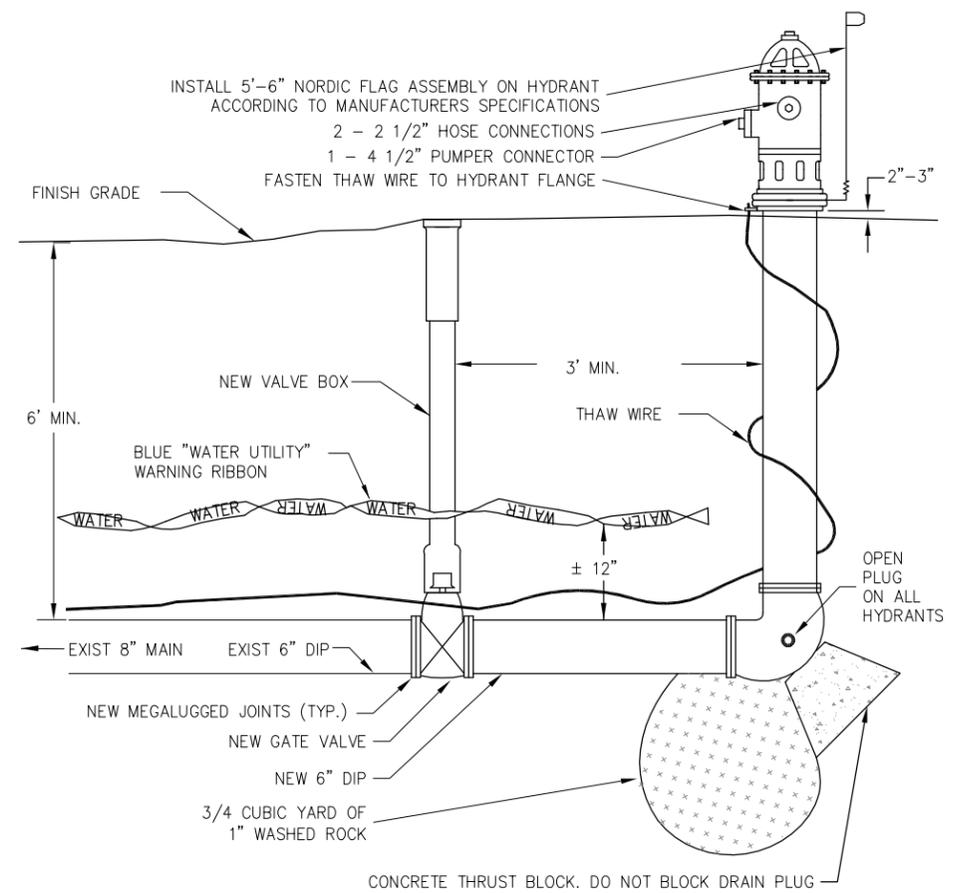


PROFILE

1 WATER SERVICE



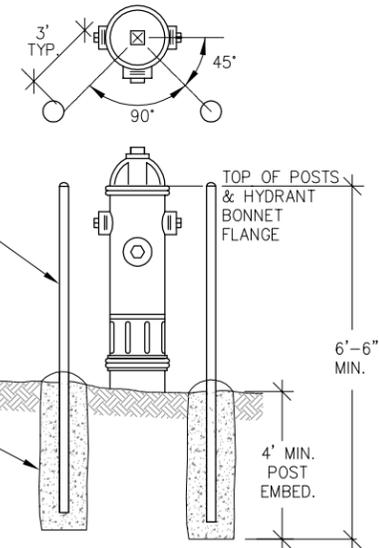
PLAN



2 FIRE HYDRANT REPLACEMENT

NOTES:

1. HYDRANT BARREL SHALL BE PLUMB.
2. CONNECTIONS SHALL BE MEGALUGGED OR CONNECTED WITH LOCKING FIELD GASKETS.
3. BENDS BETWEEN THE HYDRANT AND THE MAIN SHALL NOT EXCEED 11 1/4' UNLESS APPROVED BY ENGINEER.
4. ALL HYDRANTS SHALL BE PAINTED OSHA YELLOW, AND SHALL HAVE OPEN PLUGS. THE NUMBER OF FEET TO VALVE SHALL BE PRINTED IN BLACK 1/2" BLOCK LETTERS JUST BELOW TOP BONNET.
5. THAW WIRE SHALL BE #2 COPPER WITH TYPE THW INSULATION. THAW WIRE SHALL BE BOLTED OR CAD WELDED TO THE TEE AT THE MAIN.
6. HYDRANT SHALL BE MUELLER CENTURION.
7. PROVIDE BOLLARDS PER DETAIL 3 THIS SHEET.



3 FIRE HYDRANT BOLLARD



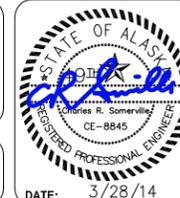
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DRAWN: SCS APPROVED: CRS

SCALE:



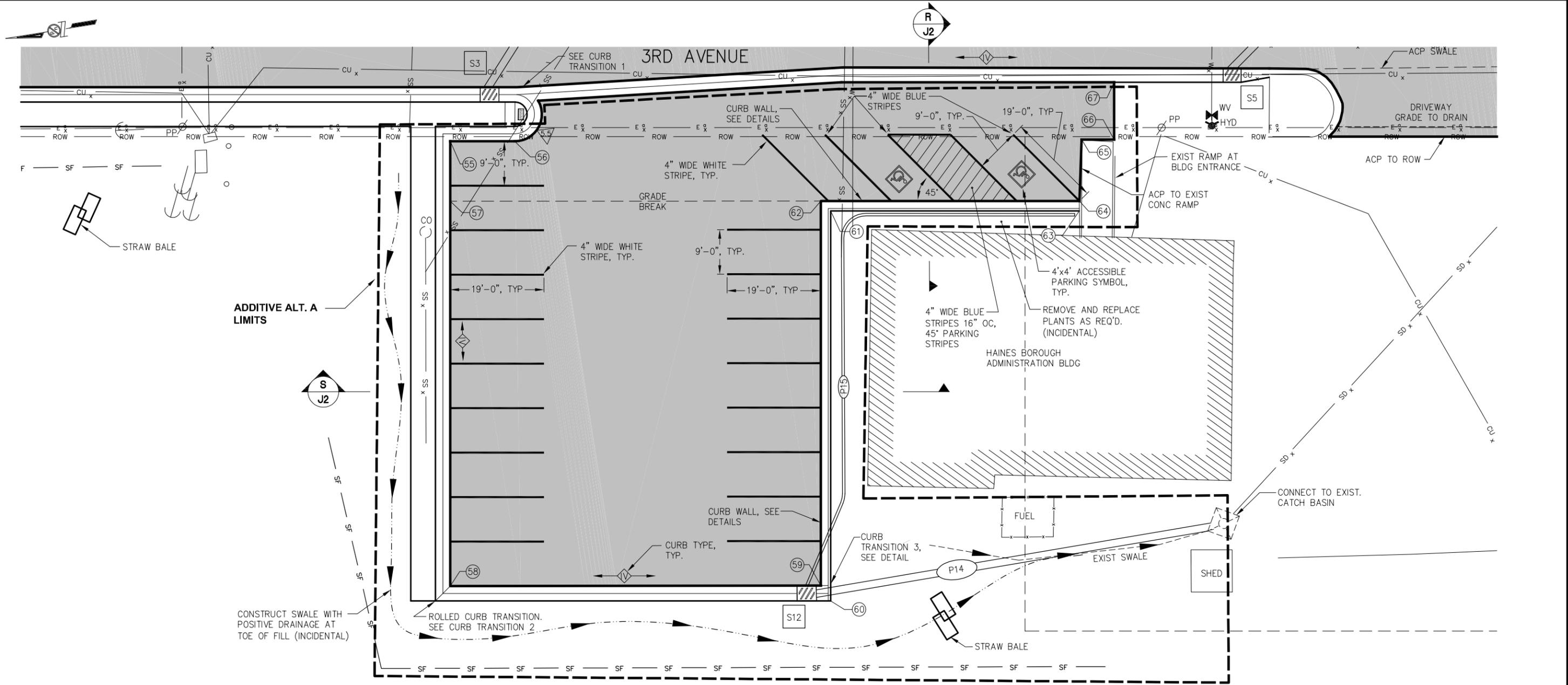
**HAINES BOROUGH
STREET IMPROVEMENTS
3RD AVENUE**

SHEET TITLE:
**MISCELLANEOUS
DETAILS**

PND PROJECT NO.: 072071.04 DWG. FILE: H1-H4.DWG

H4

SHEET
18 OF 20



**HAINES BOROUGH PARKING LOT PLAN
ADDITIVE ALTERNATE A**

CAUTION
UNDERGROUND POWER AND COMMUNICATION UTILITIES ARE SHOWN APPROX. CONTRACTOR SHALL COORDINATE LOCATES FOR POWER AND COMMUNICATIONS.
DIAL BEFORE YOU DIG!

- NOTES:**
- COORDINATE ALL DEMOLITION WITH HAINES BOROUGH PUBLIC WORKS PRIOR TO START OF WORK.
 - COORDINATE ALL TRAFFIC CONTROL AND TEMPORARY PARKING WITH HAINES BOROUGH.



| REVISIONS | | | | | |
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| REV. | DATE | DESCRIPTION | DWN. | CKD. | APP. |
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PND
ENGINEERS, INC.

9360 Glacier Highway Ste 100
Juneau, Alaska 99801
Phone: 907-586-2093
Fax: 907-586-2099
www.pndengineers.com

DESIGN: SCS CHECKED: CRS
DRAWN: SCS APPROVED: CRS

SCALE: SCALE IN FEET
0 10 20 FT.

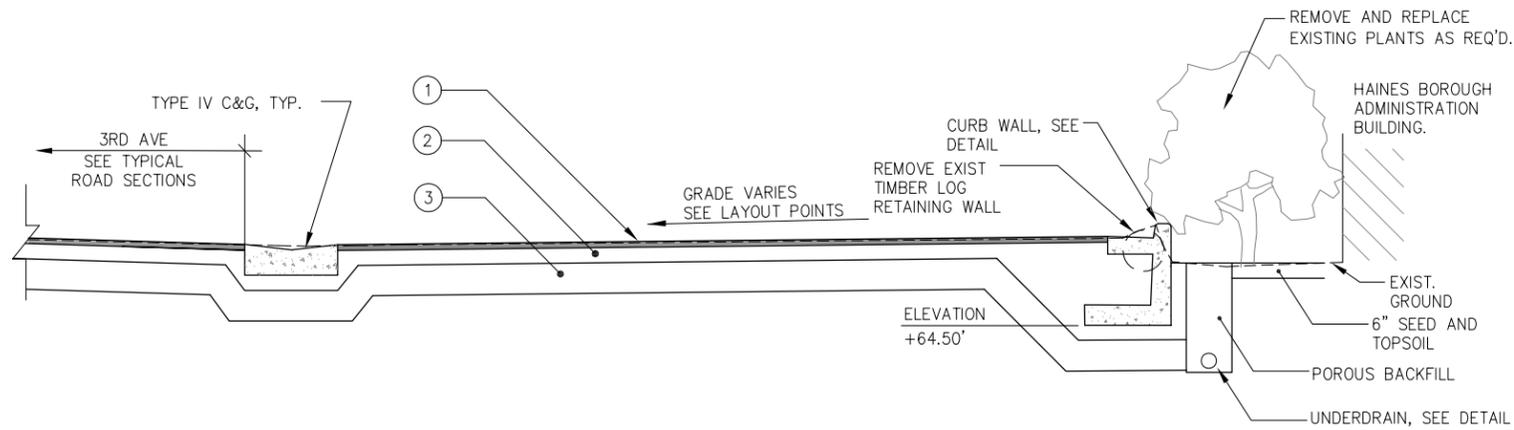


**HAINES BOROUGH
STREET IMPROVEMENTS
3RD AVENUE**

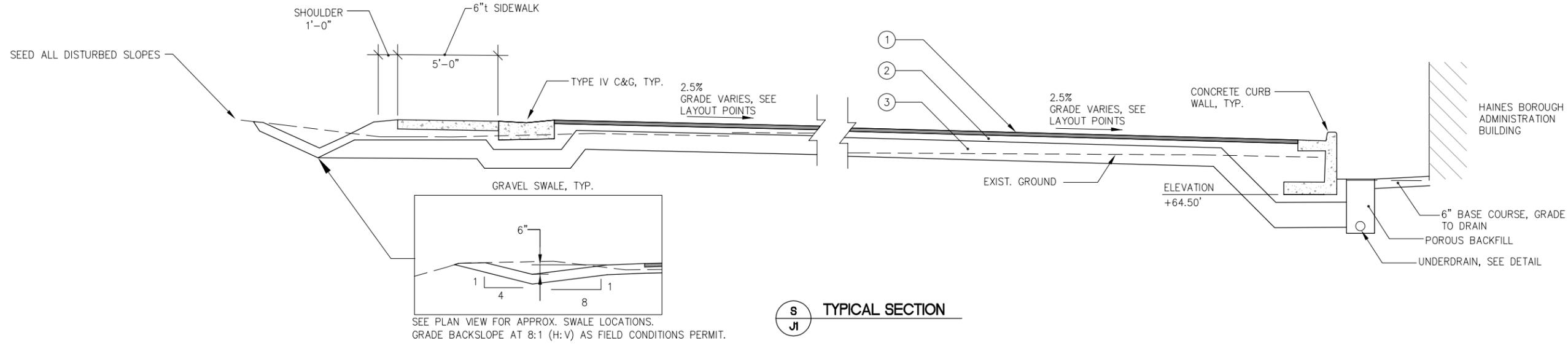
SHEET TITLE:
**ADDITIVE ALTERNATE A:
HAINES BOROUGH PARKING LOT PLAN**

PND PROJECT NO.: 072071.04 DWG. FILE: E1-E4,K1-J1.DWG

J1
SHEET
19 OF 20



R
J1
TYPICAL SECTION



S
J1
TYPICAL SECTION

| MATERIAL SCHEDULE | |
|-------------------|---|
| SYMBOL | MATERIAL DESCRIPTION |
| ① | 2 1/4" ACP, TYPE II, CLASS B |
| ② | 4" AGGREGATE BASE COURSE, GRADING D-1 |
| ③ | 12" MIN SUBBASE (TO COMPETENT MAT'L), GRADING A |

- NOTES:
- SEE PLAN VIEW FOR TYPICAL SECTION APPROXIMATE STATION RANGES.
 - SUB-EXCAVATE ALL AREAS DEEMED UNSUITABLE AND BACKFILL WITH SUBBASE AS SHOWN. COMPACT SUBBASE IN LIFTS PRIOR TO INSTALLING BASE COURSE.
 - SEE TYPICAL DETAILS FOR DITCH RECONDITIONING.
 - DO NOT DISTURB EXISTING FENCES, UTILITIES, CONCRETE DRIVEWAYS, OR OTHER HARDSCAPES. ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

CAUTION
UNDERGROUND POWER AND COMMUNICATION UTILITIES ARE SHOWN APPROX. CONTRACTOR SHALL COORDINATE LOCATES FOR POWER AND COMMUNICATIONS.
DIAL BEFORE YOU DIG!



| REVISIONS | | | | | |
|-----------|------|-------------|------|------|------|
| REV. | DATE | DESCRIPTION | DWN. | CKD. | APP. |
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DESIGN: SCS CHECKED: CRS SCALE: NTS
DRAWN: SCS APPROVED: CRS



HAINES BOROUGH STREET IMPROVEMENTS 3RD AVENUE

SHEET TITLE: **HAINES BOROUGH PARKING LOT TYPICAL SECTIONS**

PND PROJECT NO.: 072071.04 DWG. FILE: J2.DWG

J2
SHEET 20 OF 20