# STREET AND DRAINAGE PLANS FOR

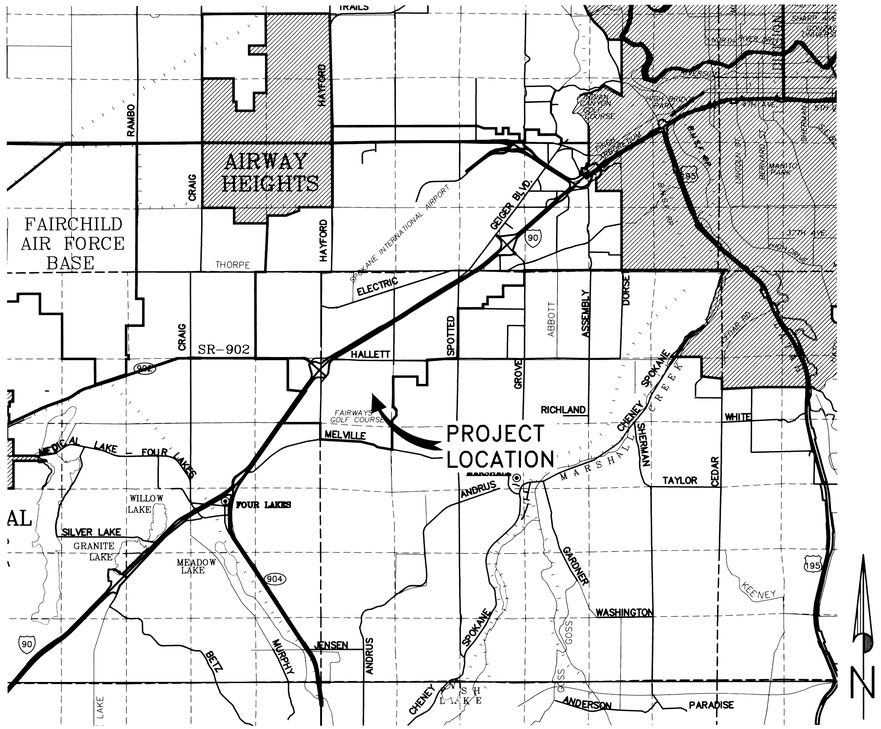
# WEST TERRACE THIRD ADDITION

## PLANNED UNIT DEVELOPMENT

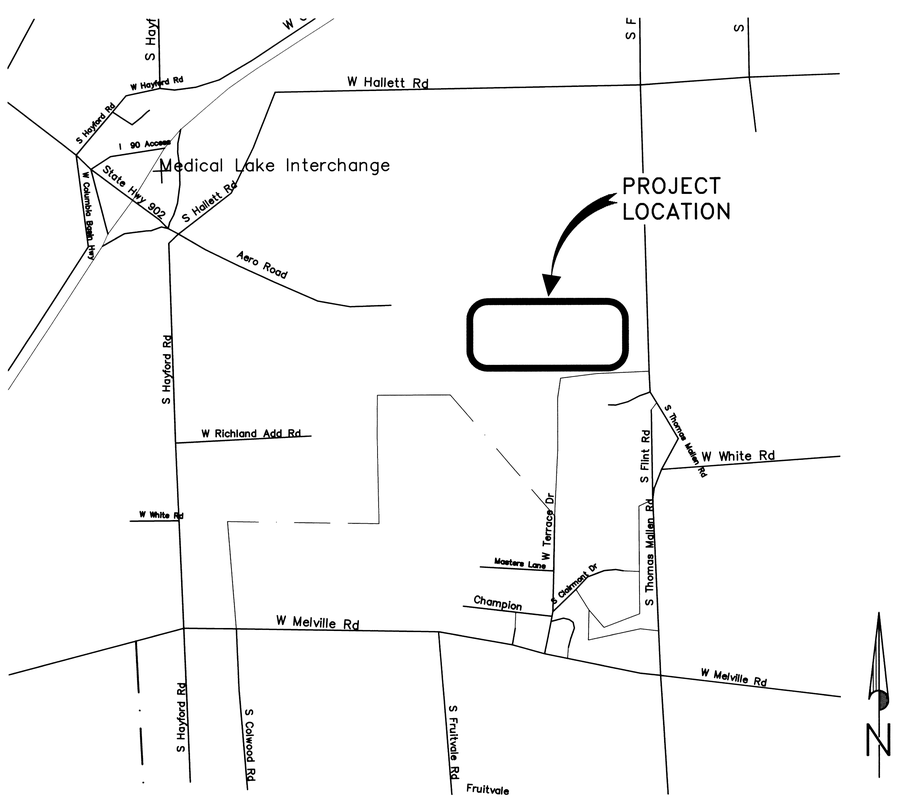
A PORTION O F THE SE1/4 OF SECTION 7, TOWNSHIP 24N, RANGE 42E W.M.

## SPOKANE COUNTY, WASHINGTON

FEBRUARY, 2005




LOCATION MAP




VICINITY MAP

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## STANDARD NOTES FOR CONSTRUCTION PLANS

THE FOLLOWING STANDARD NOTES ARE TO BE INCLUDED IN A ROAD AND DRAINAGE PLAN SET, FOR PRIVATELY SPONSORED DEVELOPMENTS. THESE NOTES ARE APPLICABLE TO BOTH PUBLIC AND PRIVATE ROADS.

1) ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION" 2001, AND AS AMENDED.

2) LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.

3) THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE APPROVED ROAD AND DRAINAGE PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

4) IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER AND THE SPOKANE COUNTY ENGINEER'S OFFICE.

5) PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG.

6) FOR ANY CURB GRADES LESS THAN 0.8% (0.008 FT/FT), A WASHINGTON STATE PROFESSIONAL LAND SURVEYOR SHALL VERIFY THAT THE CURB FORMS ARE AT THE GRADES NOTED ON THE APPROVED PLANS, PRIOR TO PLACEMENT OF CURB MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING AND COORDINATING WORK WITH THE PROFESSIONAL LAND SURVEYOR.

7) THE CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO VERIFY THAT THE CROSS-GUTTER FORMS ARE AT THE CORRECT PLANE GRADE PRIOR TO CONCRETE PLACEMENT. THE CROSS-GUTTERS SHALL BE CONSTRUCTED PRIOR TO PAVING, AND THE PAVEMENT SHALL THEN MATCH THE EDGE OF CONCRETE GUTTER.

## LEGEND

- EXISTING ASPHALT PAVING
- PROPOSED GRAVEL DRIVE
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- PROPOSED DRAINAGE RETENTION OR DETENTION POND
- GOLF COURSE FEATURE (FAIRWAY, GREEN, TEE, ETC.)
- STANDARD SPOKANE COUNTY WHEELCHAIR RAMP
- PROPOSED DRAIN PIPE
- STORM SEWER MANHOLE
- RIP-RAP DRAINAGE OUTLET

## ABBREVIATIONS

| | |
|---|---|
| ACP | ASPHALTIC CONCRETE PAVEMENT |
| C.S.T.C. | CRUSHED SURFACE BASE COURSE |
| CL | CENTERLINE |
| DR | DRIVE |
| ELEV. OR EL. | ELEVATION |
| EXIST. | EXISTING |
| FL | FLOW LINE (ELEVATION) |
| FT. | FEET |
| GALV. | GALVANIZED |
| I.E. | INVERT ELEVATION |
| IN. | INCHES |
| L.F. | LINEAR FEET |
| LT. | LEFT |
| M.H. | MANHOLE |
| MAX. | MAXIMUM |
| MIN. | MINIMUM |
| N.T.S. | NOT TO SCALE |
| O.C. | ON CENTER |
| P.T. | PRESSURE TREATED |
| PT. | POINT |
| R/W | RIGHT-OF-WAY |
| RD. | ROAD |
| RT. | RIGHT |
| SDMH | STORM DRAIN MANHOLE |
| TYP. | TYPICAL |

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1856
DATE ACCEPTED: 3-7-05
ACCEPTANCE EXPIRES: 3-7-07
PROJECT LANE MILES PUBLIC: 2.32
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO THE APPLICABLE EDITIONS OF THE SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION AND THE SPOKANE COUNTY GUIDELINES FOR STORM WATER MANAGEMENT. THE SPOKANE COUNTY ENGINEER HAS APPROVED ALL DESIGN DEVIATIONS. I APPROVE THESE PLANS FOR CONSTRUCTION.

DAVID N. RANDALL, P.E. – PROJECT ENGINEER — DATE 2/4/05

DEVELOPER'S APPROVAL:

NORTH DIVISION COMPLEX, LLC
ROBERT L. HEITMAN, JR.
MEMBER — DATE 2-4-05

DAVID N. RANDALL — STATE OF WASHINGTON — 26984 — REGISTERED PROFESSIONAL ENGINEER — 2/4/05
EXPIRES 7-04-06

SHEET 1 of 21

## BENCH MARK DATUM

ELEVATION: 2412.43' (NAVD 88)
LOCATION: 3 1/2" BRASS CAP MARKED "U.S. COAST & GEODETIC SURVEY, ELEV. FEET W354, ABOVE MEAN SEA LEVEL, BENCHMARK"

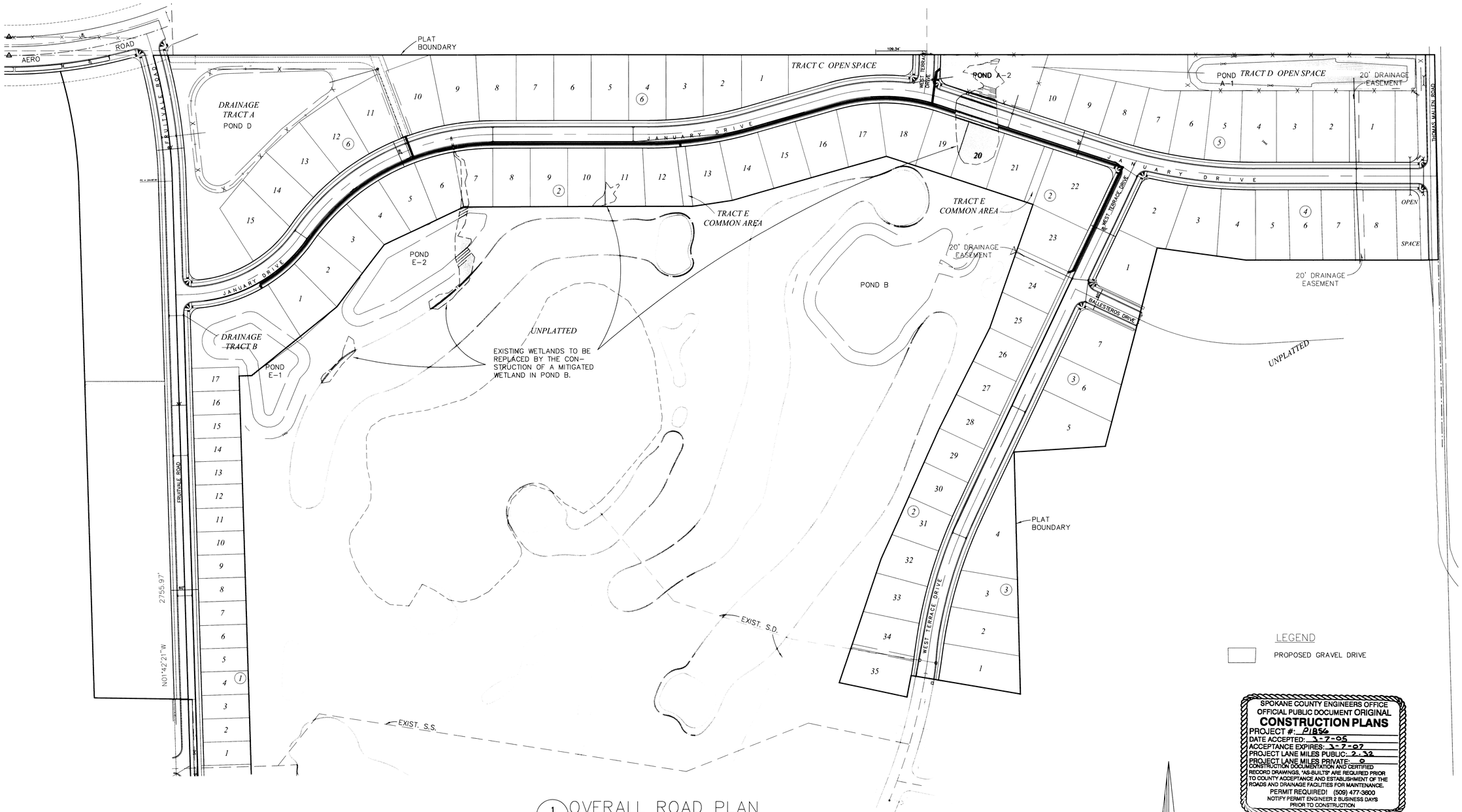
| NW | NE |
|---|---|
| SW | SE |

7-24-42

CALL BEFORE YOU DIG: 456-8000


AC
Adams & Clark, Inc.
1720 W. Fourth Ave.
Spokane, Wa. 99204
(509) 747-4600 F(509)747-8913
Project No. 2003-01-015


P-1856 Eng Red Drawing




1 OVERALL ROAD PLAN

SCALE: 1" = 100'-0"

LEGEND

PROPOSED GRAVEL DRIVE

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
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NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

N

0 100 200 400

SCALE: 1"= 100'

DAVID N. RANDALL · STATE OF WASHINGTON · 26984 · REGISTERED PROFESSIONAL ENGINEER
2/4/05
EXPIRES 7-04-06

**NOTE:**
ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH 2002 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PROMULGATED JOINTLY BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT), THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA) AND THE CITY OF SPOKANE SUPPLEMENTAL SPECIFICATIONS.

DEVELOPER'S APPROVAL:
NORTH DIVISION COMPLEX, LLC
ROBERT L. HEITMAN, JR.
MEMBER
DATE 2-4-05

The Engineer's Seal was removed during the As-Built process
The information of record is as follows:

| Proj. No. | Engineer's Name | Eng. No. | Date on Plan |
|---|---|---|---|
| | | | |


Adams & Clark, Inc.
1720 W. Fourth Ave.
Spokane, WA 99204
(509) 747-4600 F(509) 747-8913


| BY | REVISIONS | DATE |
|---|---|---|
| | | |

| PROJ. | E.F.N. | FROM | TO | ACCEPT | FROM | TO | ORD. NO. | DATE | FILE NO. |
|---|---|---|---|---|---|---|---|---|---|
| | AS BUILT | | | | GRADE ORDINANCE LIST | | | | |

| | |
|---|---|
| LOCATION | U.S.C.&G.S. BM W354, A 3-1/2" BRASS CAP |
| TBM | HORIZONTAL AS NOTED |
| ELEVATION 2412.34' (NAVD88) | VERTICAL AS NOTED |
| DATUM | SCALE |

BAR SCALE IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

| DRAFTING STANDARD CCSWIN2K | | |
|---|---|---|
| DATE | | |
| 02/04 | DRAWN | MF/RH |
| 02/04 | CHECKED | DNR |
| | APPROVED | |

# OVERALL ROAD/DRAINAGE PLAN

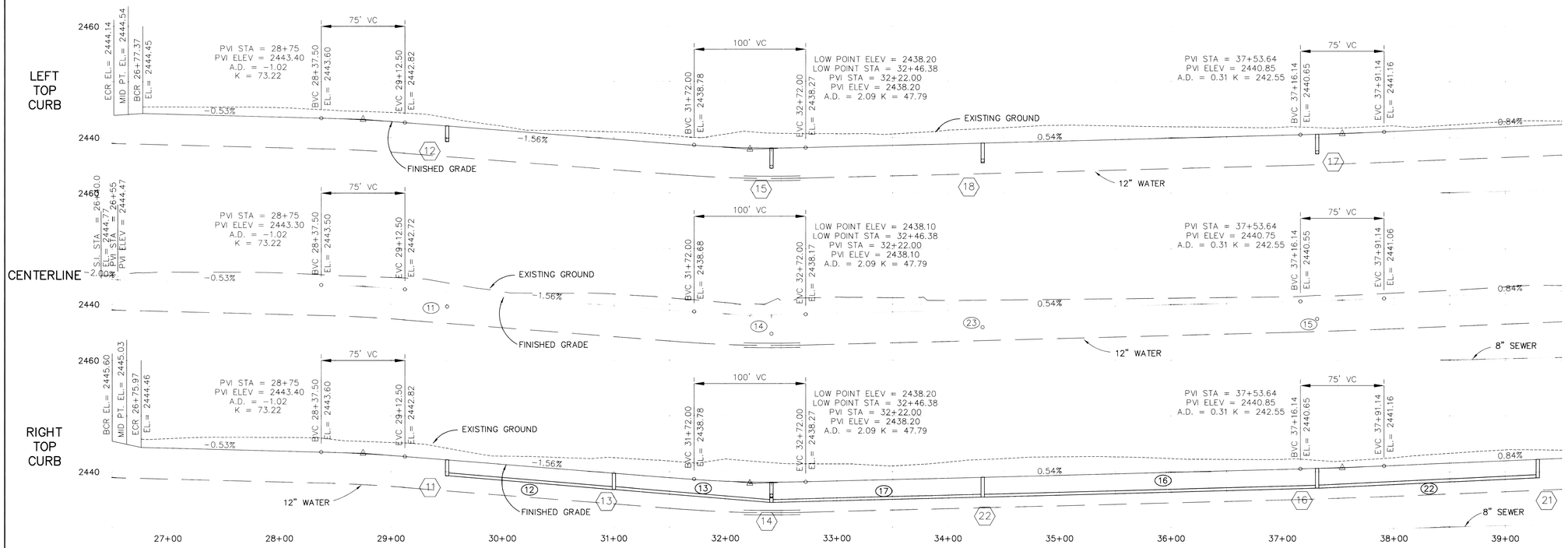
JANUARY DR., BALLESTEROS CT., FRUITVALE RD.
WEST TERRACE DR., THOMAS MALLEN ROAD
WEST TERRACE THIRD ADDITION P.U.D.

SHEET 2 of 21

CALL BEFORE YOU DIG 456-8000

| TYPE OF IMPROVEMENT: | STREET |
|---|---|
| PROJECT NUMBER | PLAN NUMBER |
| | |

P-1856 Eng Road-Drainage




1 ROAD PROFILE STA. 26+40 TO 39+60

SCALE: 1" = 50'-0"

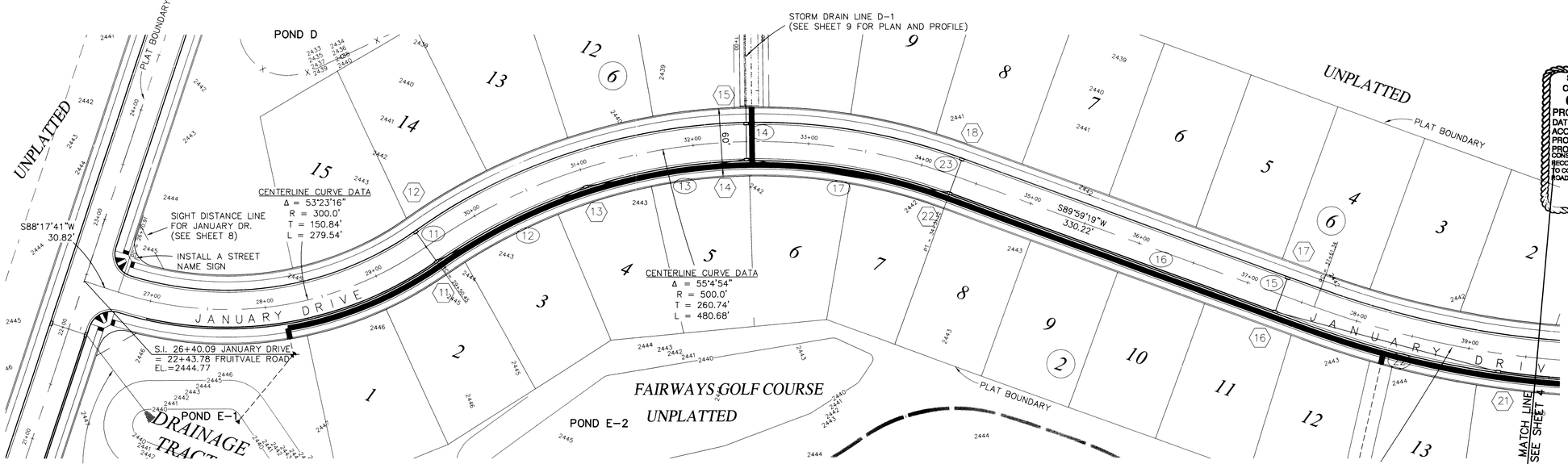
## DRAINAGE STRUCTURE TABLE

| (ID) | STATION/OFFSET | RIM EL. | STRUCTURE/ TYPE | GRATE TYPE |
|---|---|---|---|---|
| 11 | 29+50.44/16.5' RT. | 2441.61 | WSDOT | 2 |
| 12 | 29+50.44/16.5' LT. | 2441.61 | COUNTY/1 | 2 |
| 13 | 31+00.00/16.5' RT. | 2439.24 | COUNTY/1 | 2 |
| 14 | 32+46.30/16.5' RT. | 2437.60 | WSDOT | 2 |
| 15 | 32+46.30/16.5' LT. | 2437.60 | WSDOT | 2 |
| 16 | 37+31.12/16.5 RT. | 2440.13 | WSDOT | 2 |
| 17 | 37+31.12/16.5 LT. | 2440.13 | WSDOT | 2 |
| 18 | 34+31.12/16.5' LT. | 2438.52 | WSDOT | 2 |
| 21 | 39+28.15/16.5' RT. | 2441.72 | COUNTY/1 | 2 |
| 22 | 34+31.12/16.5' RT. | 2438.52 | COUNTY/1 | 2 |

## STORM DRAIN PIPE TABLE

| (ID) | LENGTH | SIZE | FL IN | FL OUT | SLOPE |
|---|---|---|---|---|---|
| 11 | 29.00' | 10" | 2439.85 | 2439.57 | 0.97% |
| 12 | 140.54' | 12" | 2438.57 | 2436.70 | 1.33% |
| 13 | 137.10' | 12" | 2436.10 | 2435.10 | 0.73% |
| 14 | 29.00' | 24" | 2434.00 | 2433.86 | 0.50% |
| 15 | 29.00' | 10" | 2438.40 | 2438.09 | 1.07% |
| 16 | 296.10' | 18" | 2436.90 | 2435.28 | 0.55% |
| 17 | 174.54' | 18" | 2435.28 | 2434.26 | 0.58% |
| 22 | 195.91' | 12" | 2439.00 | 2437.40 | 0.81% |
| 23 | 29.00' | 10" | 2436.77 | 2436.48 | 1.00% |

NOTE:
STORM DRAIN PIPING WILL BE N-12 ADS OR EQUAL.




2 ROAD PLAN STA. 26+40 TO 39+60

SCALE: 1" = 50'-0"

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PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

DEVELOPER'S APPROVAL:
NORTH DIVISION COMPLEX, LLC
ROBERT L. HEITMAN, JR.
MEMBER
DATE 2-4-05

DAVID N. RANDALL
STATE OF WASHINGTON
26984
REGISTERED PROFESSIONAL ENGINEER
2/4/05
EXPIRES 7-04-06

SHEET 3 of 21

CALL BEFORE YOU DIG 456-8000

The Engineer's Seal was removed during the As-Built process
The information of record is as follows:

| Proj. No. | Engineer's Name | Eng. No. | Date on Plan |
|---|---|---|---|
| | | | |

Adams & Clark, Inc.
1720 W. Fourth Ave.
Spokane, WA 99204
(509) 747-4600 F(509) 747-8913

| BY | REVISIONS | DATE | PROJ. | E.F.N. | FROM | TO | ACCEPT | FROM | TO | ORD. NO. | DATE | FILE NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | AS BUILT | | | | GRADE ORDINANCE LIST | | | | |

LOCATION U.S.C.&G.S. BM W354, A 3-1/2" BRASS CAP
TBM
ELEVATION 2412.34' (NAVD88)
DATUM
HORIZONTAL AS NOTED
VERTICAL AS NOTED
SCALE

BAR SCALE IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAFTING STANDARD CCSMN2K
DATE 02/04 DRAWN MF/RH
02/04 CHECKED DNR
APPROVED

**JANUARY DRIVE**
ROAD PLAN STA 26+40 TO 39+60
PLAN AND PROFILE
WEST TERRACE THIRD ADDITION P.U.D.

TYPE OF IMPROVEMENT: STREET
PROJECT NUMBER
PLAN NUMBER

P-1856 Eng Bd Drawing

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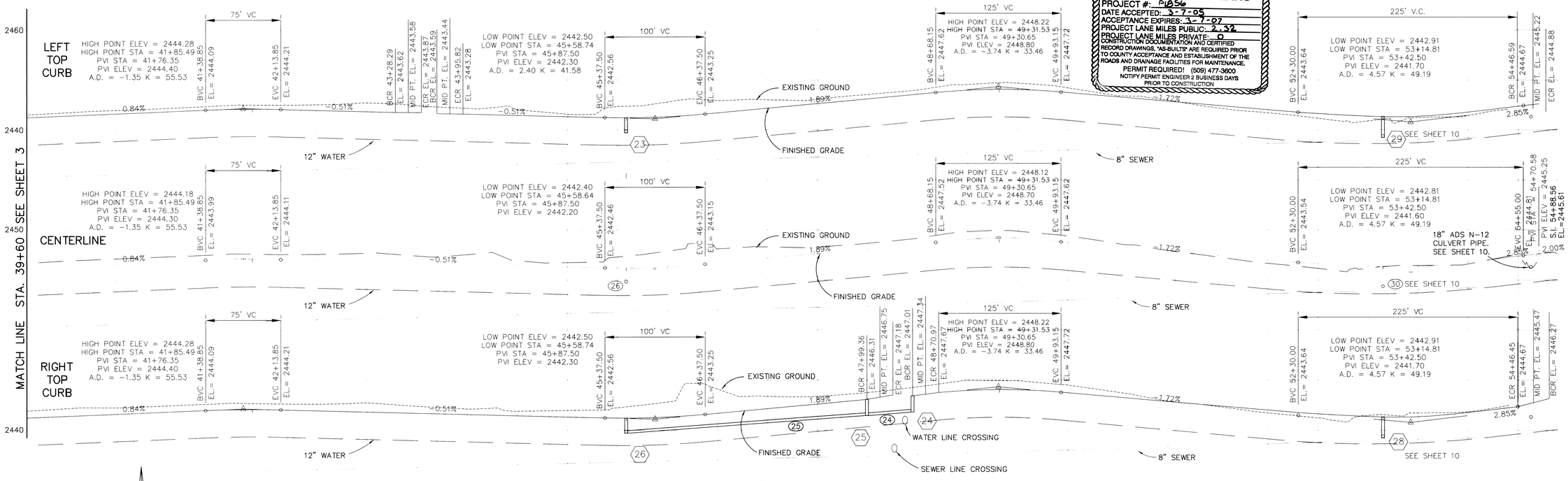



## 1 ROAD PROFILE STA. 39+60 TO 54+88.56

SCALE: 1" = 50'-0"

### DRAINAGE STRUCTURE TABLE

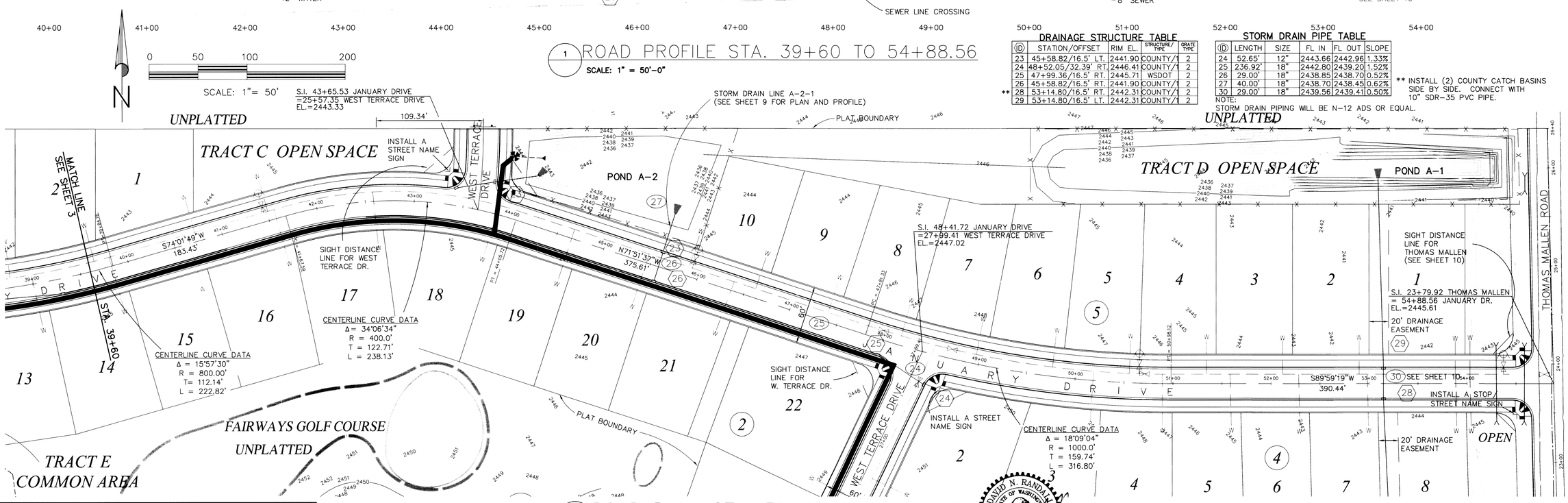
| ID | STATION/OFFSET | RIM EL. | STRUCTURE/TYPE | GRATE TYPE |
|---|---|---|---|---|
| 23 | 45+58.82/16.5' LT. | 2441.90 | COUNTY/1 | 2 |
| 24 | 48+52.05/32.39' RT. | 2446.41 | COUNTY/1 | 2 |
| 25 | 47+99.36/16.5' RT. | 2445.71 | WSDOT | 2 |
| 26 | 45+58.82/16.5' RT. | 2441.90 | COUNTY/1 | 2 |
| ** 28 | 53+14.80/16.5' RT. | 2442.31 | COUNTY/1 | 2 |
| 29 | 53+14.80/16.5' LT. | 2442.31 | COUNTY/1 | 2 |

### STORM DRAIN PIPE TABLE

| ID | LENGTH | SIZE | FL IN | FL OUT | SLOPE |
|---|---|---|---|---|---|
| 24 | 52.65' | 12" | 2443.66 | 2442.96 | 1.33% |
| 25 | 236.92' | 18" | 2442.80 | 2439.20 | 1.52% |
| 26 | 29.00' | 18" | 2438.85 | 2438.70 | 0.52% |
| 27 | 40.00' | 18" | 2438.70 | 2438.45 | 0.62% |
| 30 | 29.00' | 18" | 2439.56 | 2439.41 | 0.50% |

** INSTALL (2) COUNTY CATCH BASINS SIDE BY SIDE. CONNECT WITH 10" SDR-35 PVC PIPE.

NOTE:
STORM DRAIN PIPING WILL BE N-12 ADS OR EQUAL.




## 2 ROAD PLAN STA. 39+60 TO 54+88.56

SCALE: 1" = 50'-0"

DAVID N. RANDALL, STATE OF WASHINGTON, 26984, REGISTERED PROFESSIONAL ENGINEER
2/4/05
EXPIRES 7-04-06

DEVELOPER'S APPROVAL:
NORTH DIVISION COMPLEX, LLC
ROBERT L. HEITMAN, JR.
MEMBER
DATE 2-4-05

SHEET 4 of 21

CALL BEFORE YOU DIG 456-8000

The Engineer's Seal was removed during the As-Built process
The information of record is as follows:

| Proj. No. | Engineer's Name | Eng. No. | Date on Plan |
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| | | | |

**Adams & Clark, Inc.**
1720 W. Fourth Ave.
Spokane, WA 99204
(509) 747-4600 F(509) 747-8913

| BY | REVISIONS | DATE |
|---|---|---|
| | | |

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| | AS BUILT | | | | GRADE ORDINANCE LIST | | | | |

| | |
|---|---|
| LOCATION | U.S.C.&G.S. BM W354. A 3-1/2" BRASS CAP |
| TBM | HORIZONTAL AS NOTED |
| ELEVATION 2412.34' (NAVD88) | VERTICAL AS NOTED |
| DATUM | SCALE |

BAR SCALE IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAFTING STANDARD CCSWIN2K

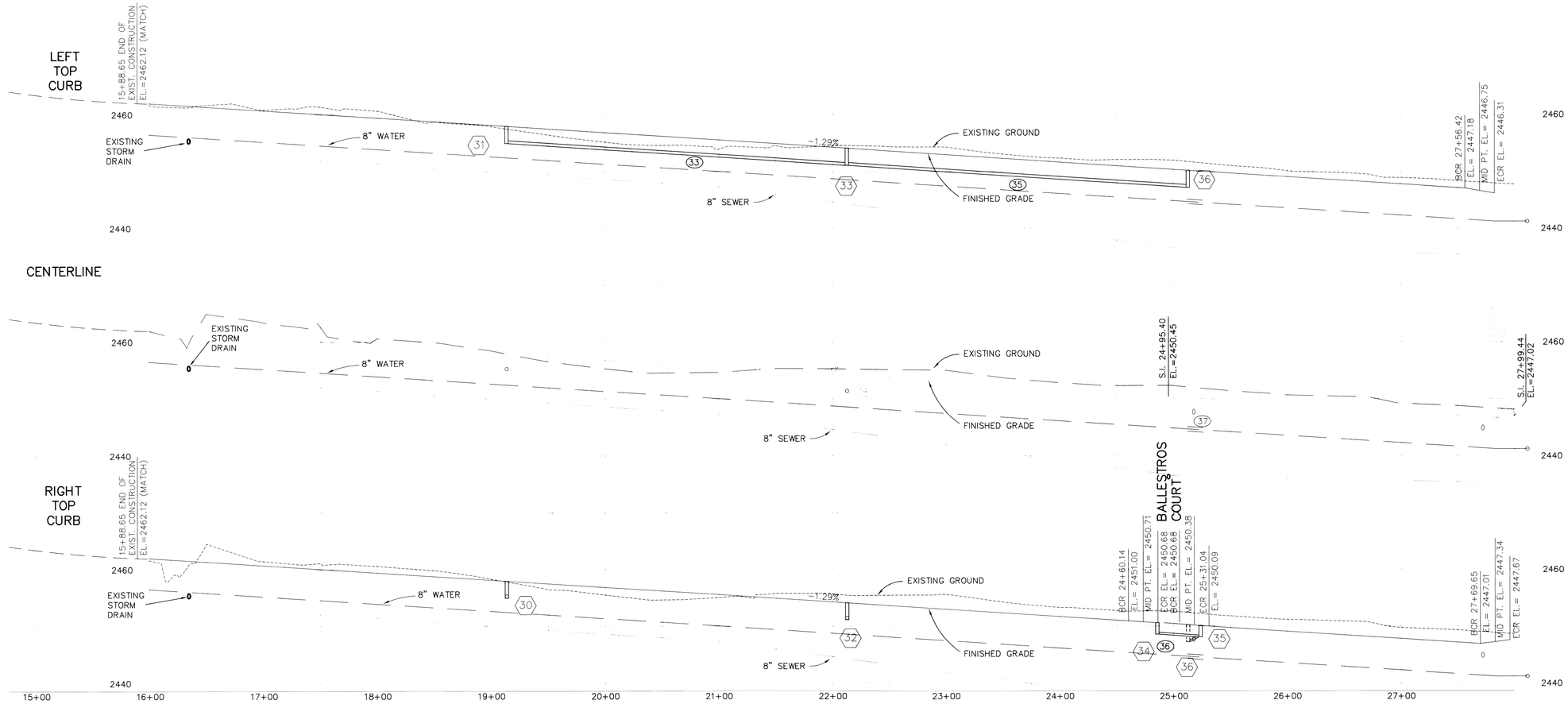
| DATE | | |
|---|---|---|
| 02/04 | DRAWN | MF/RH |
| 02/04 | CHECKED | DNR |
| | APPROVED | |

**JANUARY DRIVE**
ROAD PLAN STA 39+60 TO 54+88.56
PLAN AND PROFILE
WEST TERRACE THIRD ADDITION P.U.D.

TYPE OF IMPROVEMENT: STREET

| PROJECT NUMBER | PLAN NUMBER |
|---|---|
| | |

P-1856 England Surveys




1 ROAD PROFILE STA. 15+98.65 TO 27+99.44

SCALE: 1" = 50'-0"

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
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PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

## DRAINAGE STRUCTURE TABLE

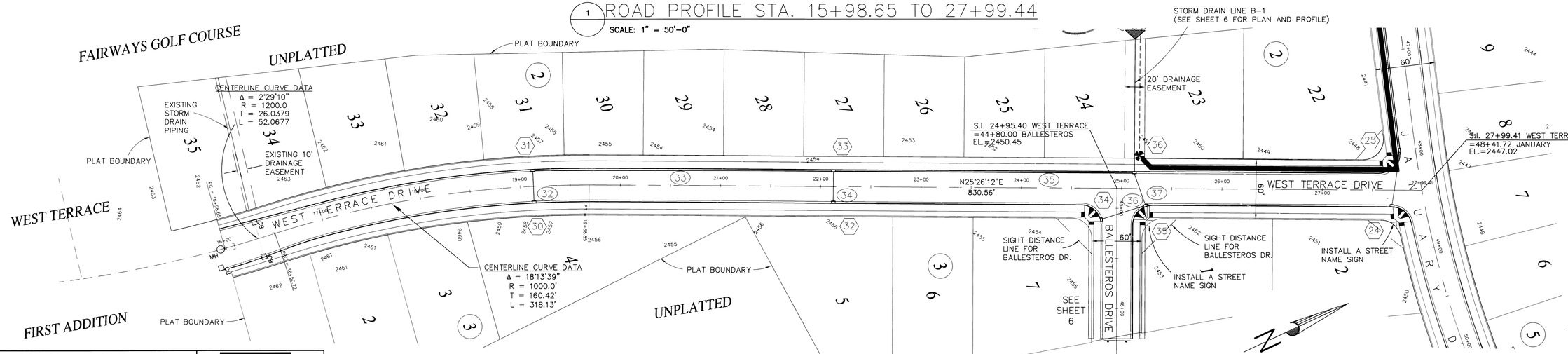
| ID | STATION/OFFSET | RIM EL. | STRUCTURE/ TYPE | GRATE TYPE |
|---|---|---|---|---|
| 30 | 19+31.51/16.5' RT. | 2457.46 | WSDOT | 2 |
| 31 | 19+31.51/16.5' LT. | 2457.46 | WSDOT | 2 |
| 32 | 22+12.19/16.5' RT. | 2453.60 | WSDOT | 2 |
| 33 | 22+12.19/16.5' LT. | 2453.60 | WSDOT | 2 |
| 34 | 24+79.20/31.11' RT. | 2449.98 | COUNTY/1 | 2 |
| 35 | 25+24.26/16.5 LT. | 2449.73 | COUNTY/1 | 2 |
| 36 | 25+12.63/17.76 RT. | 2450.02 | WSDOT | 2 |

## STORM DRAIN PIPE TABLE

| ID | LENGTH | SIZE | FL IN | FL OUT | SLOPE |
|---|---|---|---|---|---|
| 32 | 29.00' | 10" | 2455.21 | 2454.92 | 1.00% |
| 33 | 246.01' | 18" | 2454.42 | 2450.56 | 1.56% |
| 34 | 29.00' | 10" | 2450.85 | 2450.66 | 0.66% |
| 35 | 296.13' | 18" | 2450.26 | 2447.09 | 1.07% |
| 36 | 43.00' | 10" | 2448.04 | 2447.82 | 0.51% |
| 37 | 32.29' | 10" | 2447.80 | 2447.64 | 0.50% |

NOTE:
STORM DRAIN PIPING WILL BE N-12 ADS OR EQUAL.

DAVID N. RANDALL
STATE OF WASHINGTON
26984
REGISTERED PROFESSIONAL ENGINEER
2/4/05
EXPIRES 7-04-06




2 ROAD PROFILE STA. 15+98.65 TO 27+99.44

SCALE: 1" = 50'-0"

| The Engineer's Seal was removed during the As-Built process. The information of record is as follows: | | | |
|---|---|---|---|
| Proj. No. | Engineer's Name | Eng. No. | Date on Plan |

**Adams & Clark, Inc.**
1720 W. Fourth Ave.
Spokane, WA 99204
(509) 747-4600 F(509) 747-8913

DEVELOPER'S APPROVAL:
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ROBERT L. HEITMAN, JR.
MEMBER
DATE 2-4-05

| BY | REVISIONS | DATE |
|---|---|---|

| PROJ. | E.F.N. | FROM | TO | ACCEPT | FROM | TO | ORD. NO. | DATE | FILE NO. |
|---|---|---|---|---|---|---|---|---|---|
| AS BUILT | | | | | GRADE ORDINANCE LIST | | | | |

| | |
|---|---|
| LOCATION | U.S.C.&G.S. BM W354. A 3-1/2" BRASS CAP |
| TBM | HORIZONTAL AS NOTED |
| ELEVATION 2412.34' (NAVD88) | VERTICAL AS NOTED |
| DATUM | SCALE |

BAR SCALE IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

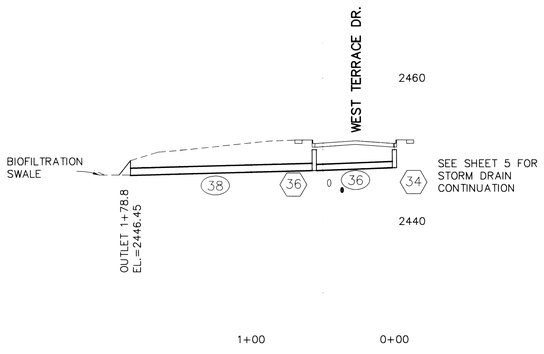
| DRAFTING STANDARD CCSWIN2K | | | |
|---|---|---|---|
| DATE | | | |
| 02/04 | DRAWN | RAH | |
| 02/04 | CHECKED | DNR | |
| | APPROVED | | |

**WEST TERRACE DRIVE**
ROAD PLAN STA 15+98.65 TO 27+99.44
PLAN AND PROFILE
WEST TERRACE THIRD ADDITION P.U.D.

SHEET 5 of 17
CALL BEFORE YOU DIG 456-8000

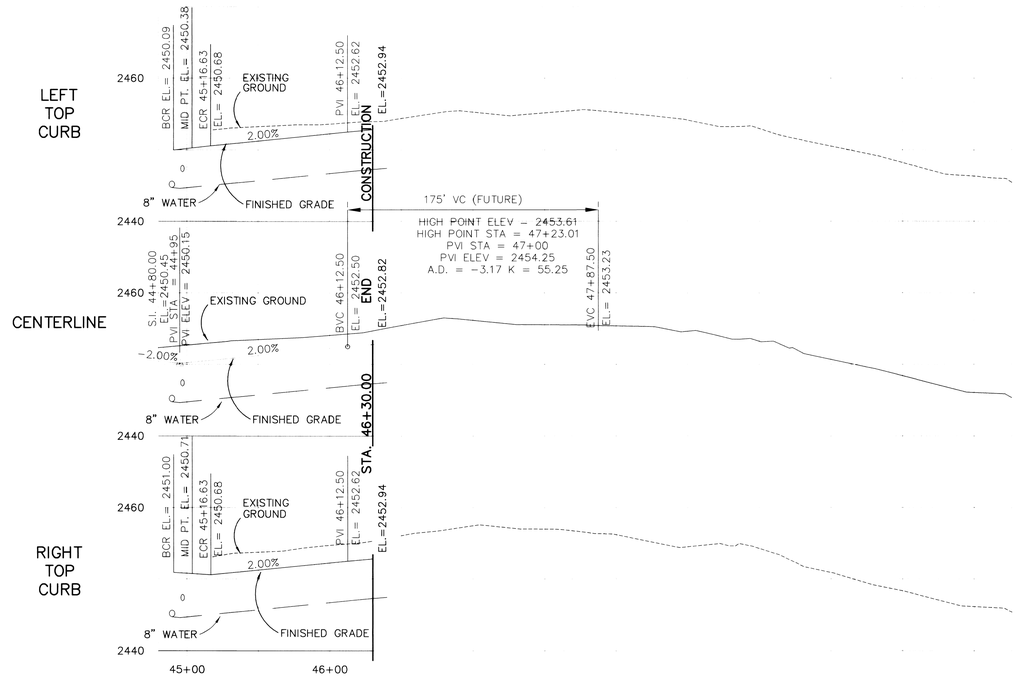
| TYPE OF IMPROVEMENT: STREET | |
|---|---|
| PROJECT NUMBER | PLAN NUMBER |

P-1856 England-Drainage




1 STORM DRAIN PIPING TO WETLAND

SCALE: 1" = 50'-0"



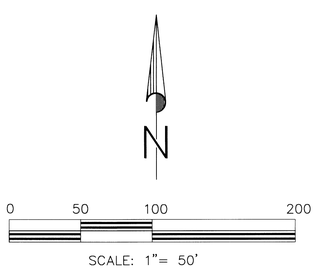

1 ROAD PROFILE STA. 44+80 TO 46+30

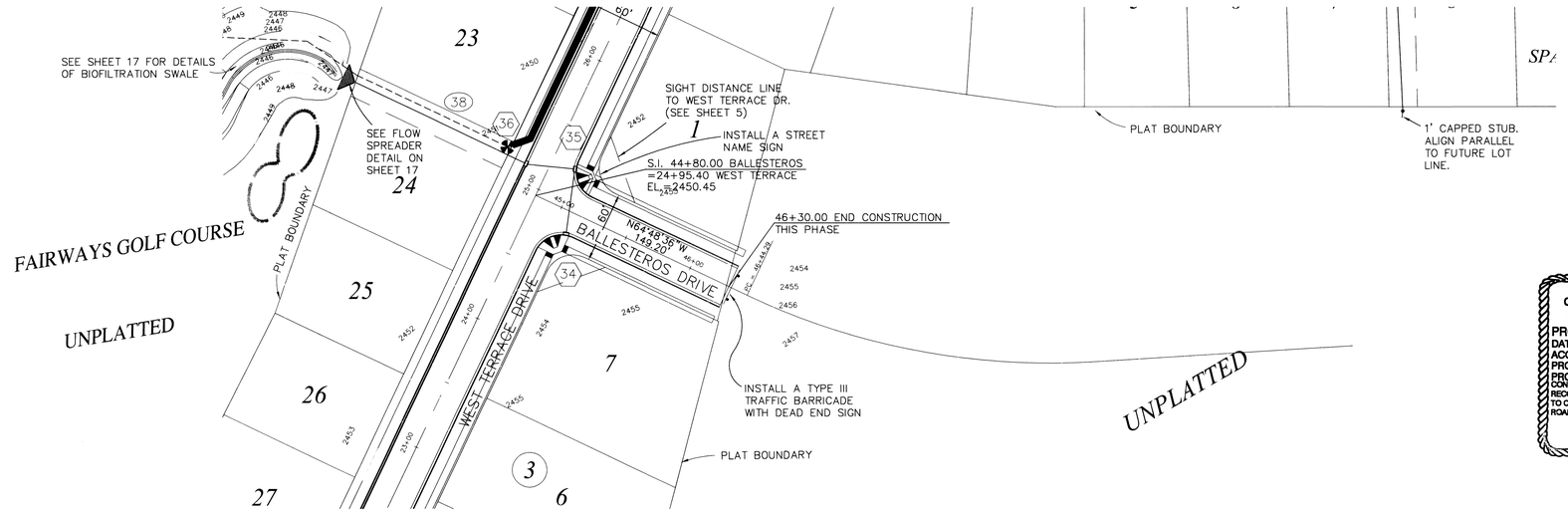
SCALE: 1" = 50'-0"

STORM DRAIN PIPE TABLE

| (ID) | LENGTH | SIZE | FL IN | FL OUT | SLOPE |
|---|---|---|---|---|---|
| 38 | 128.78' | 18" | 2447.09 | 2446.45 | 0.50% |

NOTE:
STORM DRAIN PIPING WILL BE N-12 ADS OR EQUAL.




2 ROAD PLAN STA. 44+80 TO 46+30

SCALE: 1" = 50'-0"

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1856
DATE ACCEPTED: 3-7-05
ACCEPTANCE EXPIRES: 3-7-07
PROJECT LANE MILES PUBLIC: 2.32
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

DAVID N. RANDALL
STATE OF WASHINGTON
26984
REGISTERED
PROFESSIONAL ENGINEER
2/4/05
EXPIRES 7-04-06

The Engineer's Seal was removed during the As-Built process
The information of record is as follows:

| Proj. No. | Engineer's Name | Eng. No. | Date on Plan |
|---|---|---|---|
| | | | |


Adams & Clark, Inc.
1720 W. Fourth Ave.
Spokane, WA 99204
(509) 747-4600 F(509) 747-8913


DEVELOPER'S APPROVAL:
NORTH DIVISION COMPLEX, LLC
ROBERT L. HEITMAN, JR.
MEMBER
DATE 2-4-05

SHEET 6 of 21

CALL BEFORE YOU DIG 456-8000

| BY | REVISIONS | DATE |
|---|---|---|
| | | |

| PROJ. | E.F.N. | FROM | TO | ACCEPT | FROM | TO | ORD. NO. | DATE | FILE NO. |
|---|---|---|---|---|---|---|---|---|---|
| AS BUILT | | | | | GRADE ORDINANCE LIST | | | | |

LOCATION U.S.C.&G.S. BM W354, A 3-1/2" BRASS CAP
TBM
ELEVATION 2412.34' (NAVD88)
HORIZONTAL AS NOTED
VERTICAL AS NOTED
DATUM
SCALE

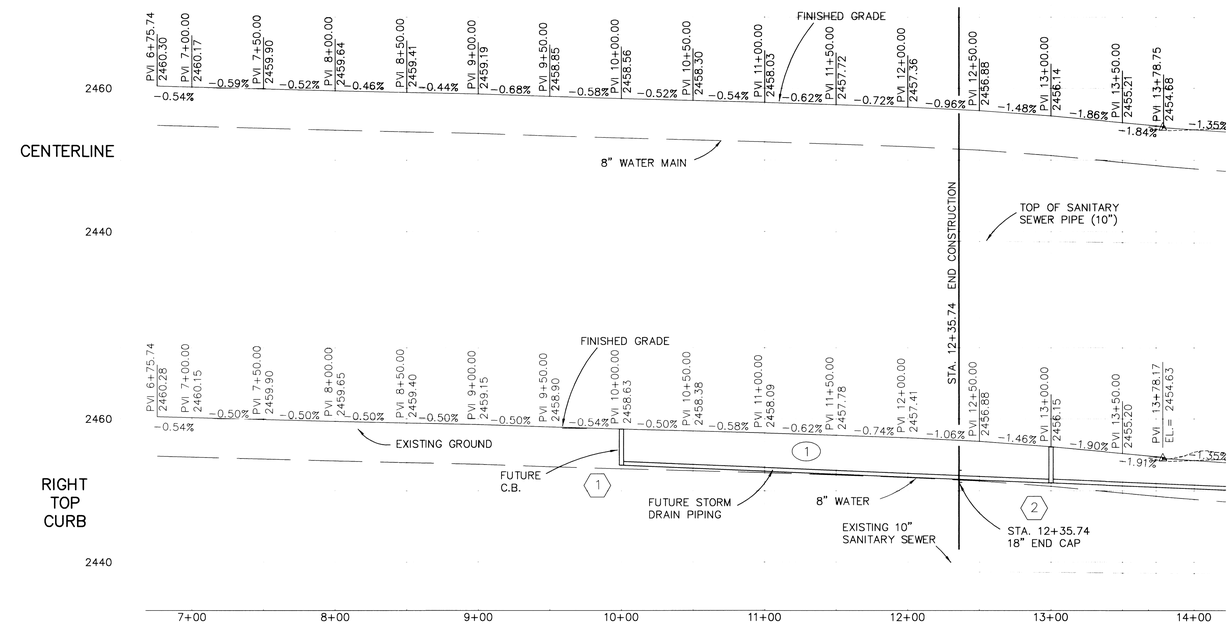
BAR SCALE IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAFTING STANDARD CCSWIN2K
DATE 02/04 DRAWN MF/RH
02/04 CHECKED DNR
APPROVED

BALLESTEROS DRIVE
ROAD PALN STA 44+80 TO 46+30
PLAN AND PROFILE
WEST TERRACE THIRD ADDITION P.U.D.

TYPE OF IMPROVEMENT: STREET
PROJECT NUMBER
PLAN NUMBER

P-1856 Eng Road Drawing




## 1 ROAD PROFILE STA. 6+66.38 TO 13+20

SCALE: 1" = 50'-0"

### DRAINAGE STRUCTURE TABLE

| ID | STATION/OFFSET | RIM EL. | STRUCTURE/ TYPE | GRATE TYPE |
|---|---|---|---|---|
| 1 | 10+00.00/16.5' RT. | 2458.03 | WSDOT | 2 |
| 2 | 13+00.00/16.5' RT. | 2455.55 | WSDOT | 2 |

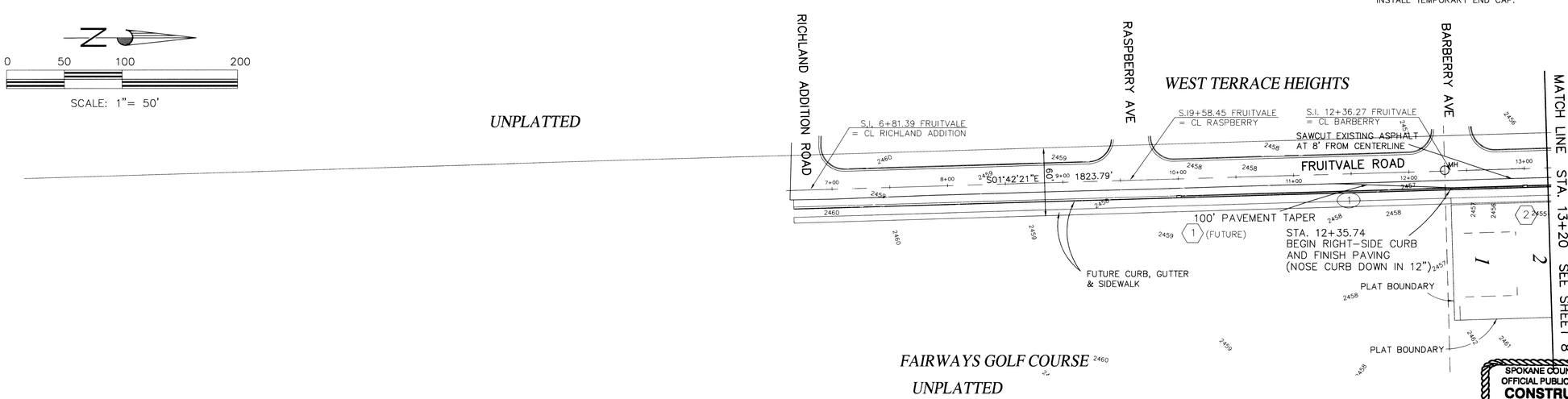
### STORM DRAIN PIPE TABLE

| | ID | LENGTH | SIZE | FL IN | FL OUT | SLOPE |
|---|---|---|---|---|---|---|
| * | 1 | 64.26' | 18" | 2455.28 | 2451.90 | 1.13% |

NOTE:
STORM DRAIN PIPING WILL BE N-12 ADS OR EQUAL.

* FUTURE LENGTH WILL BE 300', INSTALL TEMPORARY END CAP.




## 2 ROAD PLAN STA. 6+66.38 TO 13+20

SCALE: 1" = 50'-0"

DEVELOPER'S APPROVAL:

NORTH DIVISION COMPLEX, LLC
ROBERT L. HEITMAN, JR.
MEMBER

DATE 2-4-05

DAVID N. RANDALL — STATE OF WASHINGTON — 26684 — REGISTERED PROFESSIONAL ENGINEER — 2/4/05

EXPIRES 7-04-06

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1856
DATE ACCEPTED: 3-7-05
ACCEPTANCE EXPIRES: 3-7-07
PROJECT LANE MILES PUBLIC: 2.32
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

SHEET 7 of 21

CALL BEFORE YOU DIG 456-8000

The Engineer's Seal was removed during the As-Built process. The information of record is as follows:

| Proj. No. | Engineer's Name | Eng. No. | Date on Plan |
|---|---|---|---|
| | | | |


Adams & Clark, Inc.
1720 W. Fourth Ave.
Spokane, WA 99204
(509) 747-4600 F(509) 747-8913


| BY | REVISIONS | DATE | PROJ. | E.F.N. | FROM | TO | ACCEPT | FROM | TO | ORD. NO. | DATE | FILE NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | AS BUILT | | | | GRADE ORDINANCE LIST | | | | |

LOCATION U.S.C.&G.S. BM W354, A 3-1/2" BRASS CAP
TBM
ELEVATION 2412.34' (NAVD88)
HORIZONTAL AS NOTED
VERTICAL AS NOTED
DATUM
SCALE

BAR SCALE IS ONE INCH ON ORIGINAL DRAWING. 0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

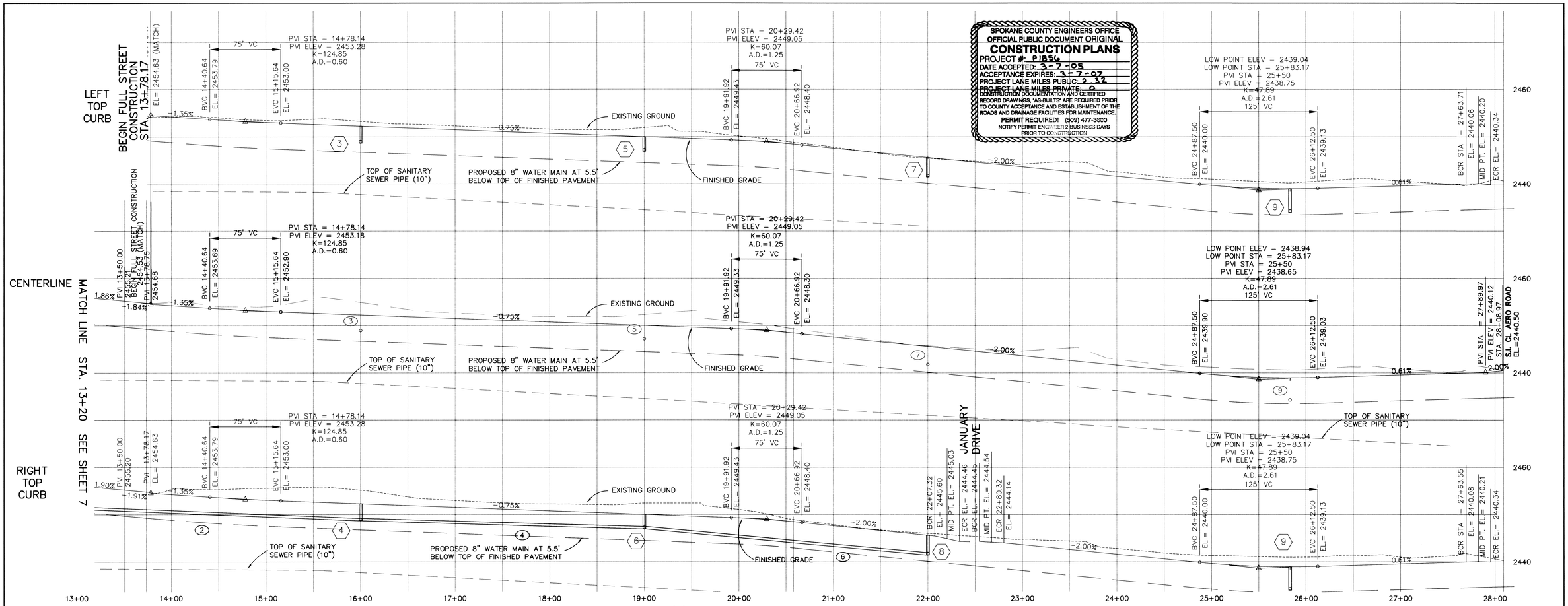
DRAFTING STANDARD CCSWIN2K
DATE 02/04 DRAWN RAH
02/04 CHECKED DNR
APPROVED

FRUITVALE ROAD
ROAD PLAN STA 6+66.38 TO 13+20
PLAN AND PROFILE
WEST TERRACE THIRD ADDITION P.U.D.

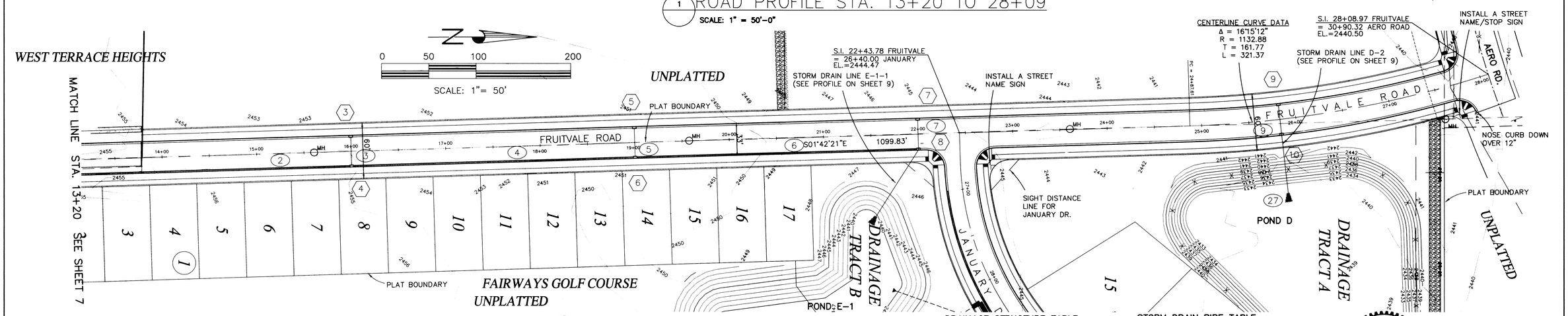
TYPE OF IMPROVEMENT: STREET
PROJECT NUMBER
PLAN NUMBER

P-1856 Eng Rec Drainage

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1856
DATE ACCEPTED: 3-7-05
ACCEPTANCE EXPIRES: 3-7-07
PROJECT LANE MILES PUBLIC: 2.32
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION




1 ROAD PROFILE STA. 13+20 TO 28+09
SCALE: 1" = 50'-0"




2 ROAD PLAN STA. 13+20 TO 28+09
SCALE: 1" = 50'-0"

**DRAINAGE STRUCTURE TABLE**

| ID | STATION/OFFSET | RIM EL. | STRUCTURE/TYPE | GRATE TYPE |
|---|---|---|---|---|
| 3 | 16+00.00/16.5' LT. | 2451.77 | COUNTY/1 | 2 |
| 4 | 16+00.00/16.5' RT. | 2451.77 | WSDOT | 2 |
| 5 | 19+00.00/16.5' LT. | 2449.52 | WSDOT | 2 |
| 6 | 19+00.00/16.5' RT. | 2449.52 | WSDOT | 2 |
| 7 | 22+00.00/16.5' LT. | 2445.14 | COUNTY/1 | 2 |
| 8 | 22+00.00/16.5 RT. | 2445.14 | WSDOT | 2 |
| 9 | 25+83.17/16.5 LT. | 2438.44 | COUNTY/1 | 2 |
| 10 | 25+83.17/16.5' RT. | 2438.44 | COUNTY/1 | 2 |

**STORM DRAIN PIPE TABLE**

| ID | LENGTH | SIZE | FL IN | FL OUT | SLOPE |
|---|---|---|---|---|---|
| 2 | 300.00' | 18" | 2451.70 | 2448.73 | 0.99% |
| 3 | 29.00' | 10" | 2450.06 | 2449.77 | 1.00% |
| 4 | 300.00' | 18" | 2448.73 | 2446.48 | 0.75% |
| 5 | 29.00 | 10" | 2447.81 | 2447.52 | 1.00% |
| 6 | 300.00' | 18" | 2446.48 | 2442.10 | 1.46% |
| 7 | 29.00' | 10" | 2443.43 | 2443.14 | 1.00% |
| 9 | 29.00' | 10" | 2434.77 | 2434.44 | 1.14% |

NOTE: STORM DRAIN PIPING WILL BE N-12 ADS OR EQUAL

DAVID N. RANDALL — STATE OF WASHINGTON — 28984 — REGISTERED PROFESSIONAL ENGINEER — 2/4/05 — EXPIRES 7-04-06

The Engineer's Seal was removed during the As-Built process. The information of record is as follows:

| Proj. No. | Engineer's Name | Eng. No. | Date on Plan |
|---|---|---|---|
| | | | |

**Adams & Clark, Inc.**
1720 W. Fourth Ave.
Spokane, WA 99204
(509) 747-4600 F(509) 747-8913

DEVELOPER'S APPROVAL:
NORTH DIVISION COMPLEX, LLC
ROBERT L. HEITMAN, JR.
MEMBER
DATE 2-4-05

| BY | REVISIONS | DATE | PROJ. | E/F.N. | FROM | TO | ACCEPT | FROM | TO | ORD. NO. | DATE | FILE NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AS BUILT | | | GRADE ORDINANCE LIST | | | | |

LOCATION: U.S.C.&G.S. BM W354. A 3-1/2" BRASS CAP
TBM
ELEVATION 2412.34' (NAVD88)
HORIZONTAL: AS NOTED
VERTICAL: AS NOTED
DATUM
SCALE

BAR SCALE IS ONE INCH ON ORIGINAL DRAWING. 0 — 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

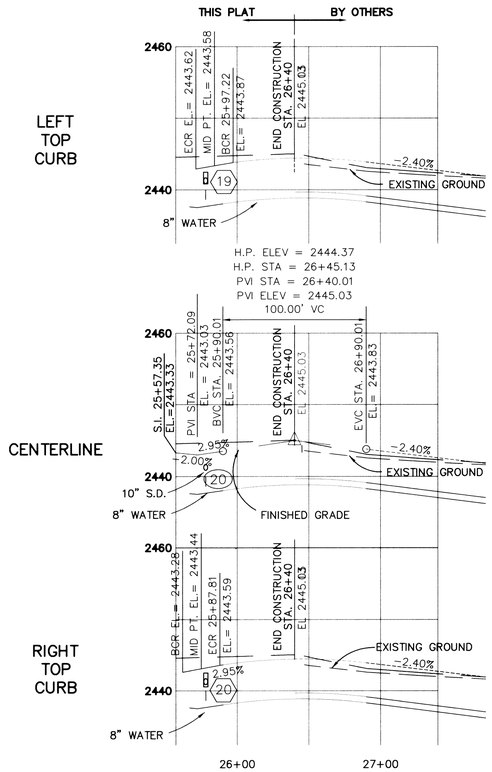
DRAFTING STANDARD CCSWIN2K
DATE 02/04 — DRAWN RAH
02/04 — CHECKED DNR
APPROVED

**FRUITVALE ROAD**
ROAD PLAN STA 13+20 TO 28+09
PLAN AND PROFILE
WEST TERRACE THIRD ADDITION P.U.D.

TYPE OF IMPROVEMENT: STREET
PROJECT NUMBER | PLAN NUMBER

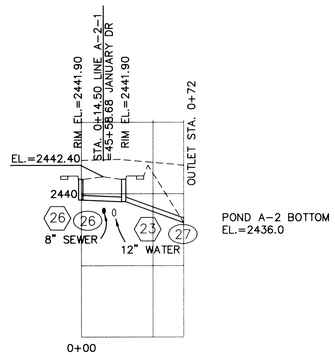
SHEET 8 of 21
CALL BEFORE YOU DIG 456-8000

P-1856 Engineer Drawing




1 ROAD PROFILE STA. 25+57 TO 26+40

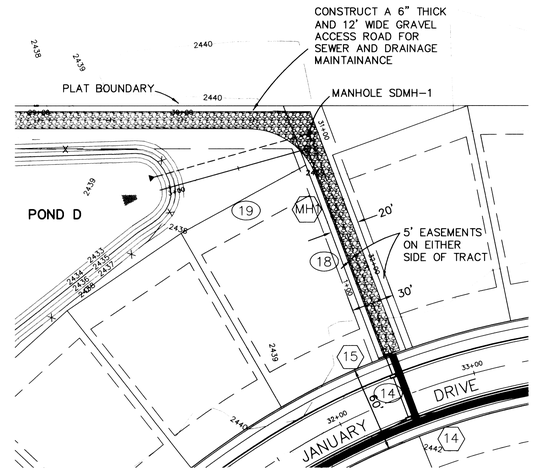
SCALE: 1" = 50'-0"




2 STORM DRAIN A-2-1 PROFILE

SCALE: 1" = 50'-0"

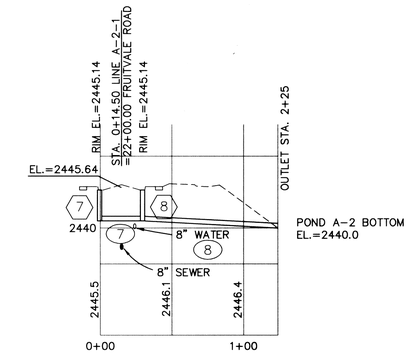
(FROM SHEET 4)




3 STORM DRAIN D-1 PLAN

SCALE: 1" = 50'-0"

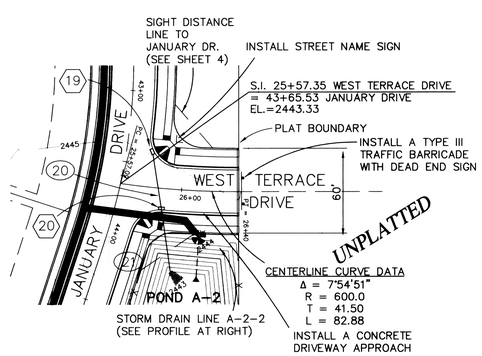
(FROM SHEET 3)




4 STORM DRAIN E-1-1 PROFILE

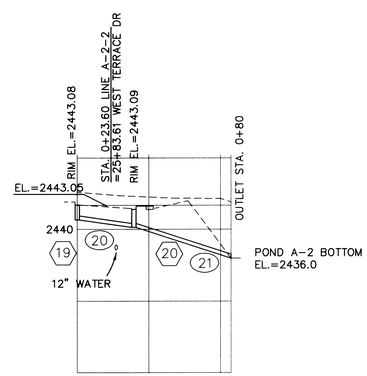
SCALE: 1" = 50'-0"

(FROM SHEETS 3 AND 8)



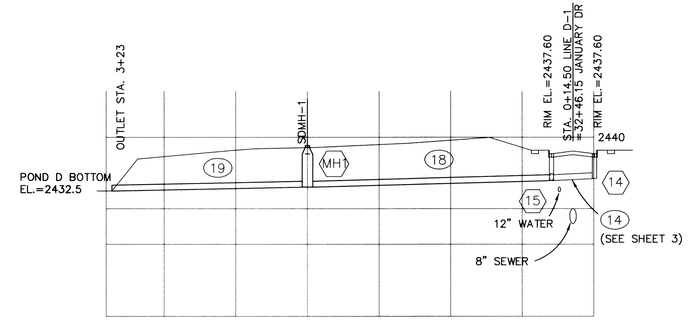

5 ROAD PLAN STA. 25+57 26+40

SCALE: 1" = 50'-0"



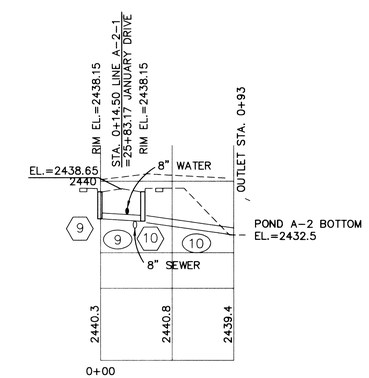

6 STORM DRAIN A-2-2 PROFILE

SCALE: 1" = 50'-0"




7 STORM DRAIN D-1 PROFILE

SCALE: 1" = 50'-0"




8 STORM DRAIN D-2 PROFILE

SCALE: 1" = 50'-0"

(FROM SHEET 8)

Z

### DRAINAGE STRUCTURE TABLE

| (ID) | STATION/OFFSET | RIM EL. | STRUCTURE/ TYPE | GRATE TYPE |
|---|---|---|---|---|
| 19 | 25+74.82/37.2' LT. | 2443.08 | WSDOT | 2 |
| 20 | 25+68.27/32.5' RT. | 2443.09 | COUNTY/1 | 2 |
| MH1 | 1+66.08 | 2439.00 | – | – |

### STORM DRAIN PIPE TABLE

| (ID) | LENGTH | SIZE | FL IN | FL OUT | SLOPE |
|---|---|---|---|---|---|
| 18 | 169.00' | 24" | 2433.86 | 2433.02 | 0.50% |
| 19 | 120.00' | 24" | 2433.02 | 2432.43 | 0.50% |
| 20 | 38.00' | 10" | 2441.02 | 2440.28 | 1.12% |
| 21 | 45.00' | 12" | 2437.35 | 2436.00 | 3.00% |
| 27 | 40.39' | 12" | 2438.86 | 2432.50 | 1.00% |
| 8 | 83.82' | 12" | 2442.10 | 2440.00 | 2.51% |
| 10 | 62.00' | 12" | 2434.44 | 2432.50 | 3.13% |

NOTE:
STORM DRAIN PIPING WILL BE N-12 ADS OR EQUAL.

0 50 100 200

SCALE: 1"= 50'

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1856
DATE ACCEPTED: 3-7-05
ACCEPTANCE EXPIRES: 3-7-07
PROJECT LANE MILES PUBLIC: 2.31
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

DAVID N. RANDALL, STATE OF WASHINGTON, 26904, REGISTERED PROFESSIONAL ENGINEER — 2/9/05
EXPIRES 7-04-06

DEVELOPER'S APPROVAL:
NORTH DIVISION COMPLEX, LLC
ROBERT L. HEITMAN, JR.
MEMBER
DATE 2-9-05

SHEET 9 of 21

CALL BEFORE YOU DIG 456-8000

The Engineer's Seal was removed during the As-Built process. The information of record is as follows:

| Proj. No. | Engineer's Name | Eng. No. | Date on Plan |
|---|---|---|---|
| | | | |

Adams & Clark, Inc.
1720 W. Fourth Ave.
Spokane, WA 99204
(509) 747-4600 F(509) 747-8913

| BY | REVISIONS | DATE |
|---|---|---|
| | | |

| PROJ. | E.F.N. | FROM | TO | ACCEPT | FROM | TO | ORD. NO. | DATE | FILE NO. |
|---|---|---|---|---|---|---|---|---|---|
| | AS BUILT | | | | GRADE ORDINANCE LIST | | | | |

LOCATION U.S.C.&G.S. BM W354. A 3-1/2" BRASS CAP
TBM
ELEVATION 2412.34' (NAVD88)
DATUM
HORIZONTAL AS NOTED
VERTICAL AS NOTED
SCALE

BAR SCALE IS ONE INCH ON ORIGINAL DRAWING. 0 — 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAFTING STANDARD CCSWIN2K
DATE 02/04 DRAWN RAH
DATE 02/04 CHECKED DNR
APPROVED

**WEST TERRACE DRIVE**
ROAD PLAN STA 25+57 TO 26+40
PLAN AND PROFILE
WEST TERRACE THIRD ADDITION P.U.D.

TYPE OF IMPROVEMENT: STREET

| PROJECT NUMBER | PLAN NUMBER |
|---|---|
| | |

P-1856 Eng/Road Drainage

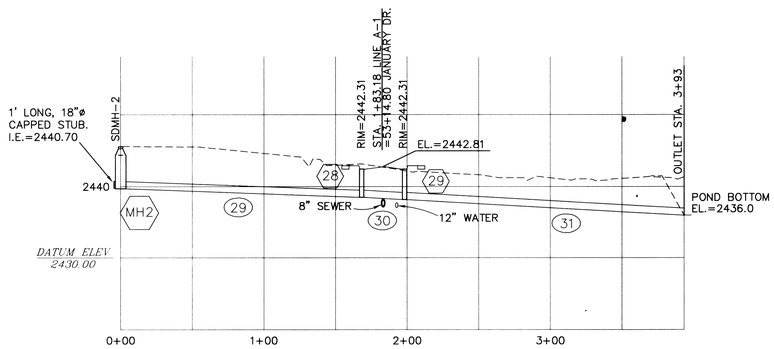
## DRAINAGE STRUCTURE TABLE

| ID | STATION/OFFSET | RIM EL. | STRUCTURE/TYPE | GRATE TYPE |
|---|---|---|---|---|
| MH2 | 0+00.00 | 2445.50 | -- | -- |

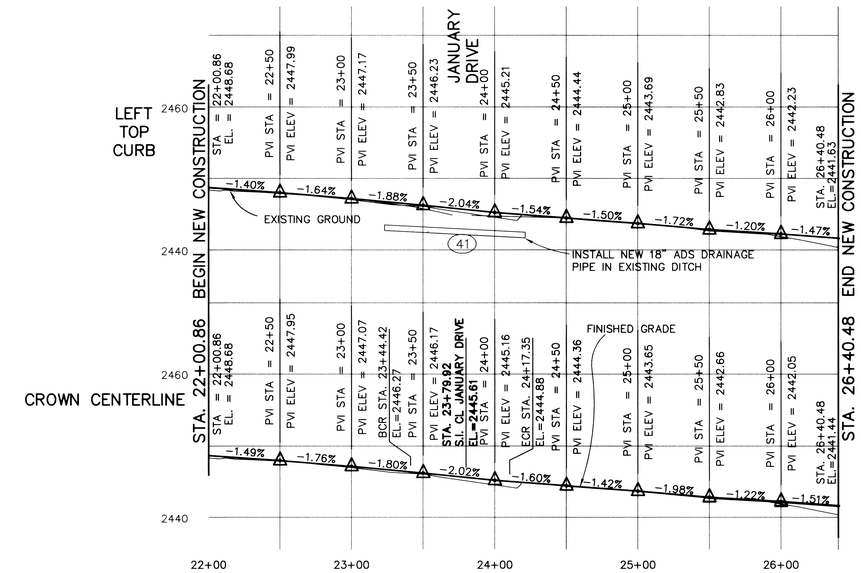
## STORM DRAIN PIPE TABLE

| ID | LENGTH | SIZE | FL IN | FL OUT | SLOPE |
|---|---|---|---|---|---|
| 29 | 166.69' | 18" | 2440.60 | 2439.76 | 0.50% |
| 30 | 29.00' | 18" | 2439.56 | 2439.41 | 0.50% |
| 31 | 143.27' | 18" | 2439.41 | 2436.00 | 1.76% |
| 40 | 29.00 | 12" | 2441.00 | 2441.00 | 0% |
| 41 | 80.00' | 18" | 2442.60 | 2441.40 | 1.50% |

NOTE:
STORM DRAIN PIPING WILL BE N-12 ADS OR EQUAL.

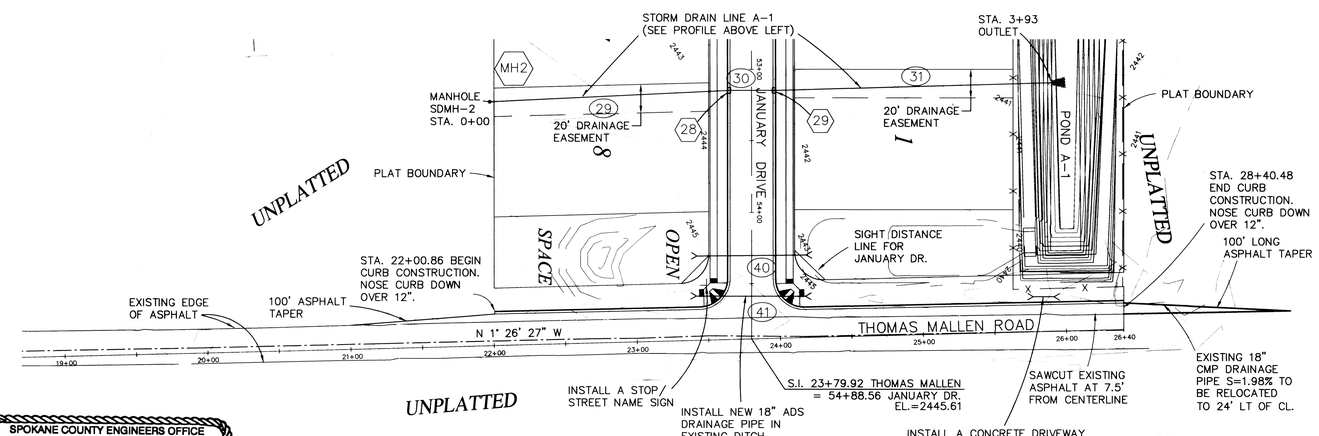



1 STORM DRAIN LINE A-1 PROFILE
SCALE: 1" = 50'-0"




1 ROAD PROFILE STA. 22+00 TO 26+40
SCALE: 1" = 50'-0"

0 50 100 200
SCALE: 1"= 50'




2 ROAD PLAN STA. 22+00 TO 26+40
SCALE: 1" = 50'-0"

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P856
DATE ACCEPTED: 3-7-05
ACCEPTANCE EXPIRES: 3-7-07
PROJECT LANE MILES PUBLIC: 2.32
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

DAVID N. RANDALL
STATE OF WASHINGTON
26954
REGISTERED PROFESSIONAL ENGINEER
3/14/05
EXPIRES 7-04-06

The Engineer's Seal was removed during the As-Built process
The information of record is as follows:

| Proj. No. | Engineer's Name | Eng. No. | Date on Plan |
|---|---|---|---|
| | | | |

**Adams & Clark, Inc.**
1720 W. Fourth Ave.
Spokane, WA 99204
(509) 747-4600 F(509) 747-8913

DEVELOPER'S APPROVAL:
NORTH DIVISION COMPLEX, LLC
ROBERT L. HEITMAN, JR.
MEMBER
DATE 2-4-05

SHEET 10 of 21
CALL BEFORE YOU DIG 456-8000

| BY | REVISIONS | DATE | PROJ. | E.F.N. | FROM | TO | ACCEPT | FROM | TO | ORD. NO. | DATE | FILE NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | AS BUILT | | | | | GRADE ORDINANCE LIST | | | | |

LOCATION U.S.C.&G.S. BM W354, A 3-1/2" BRASS CAP
TBM HORIZONTAL AS NOTED
ELEVATION 2412.34' (NAVD88) VERTICAL AS NOTED
DATUM SCALE

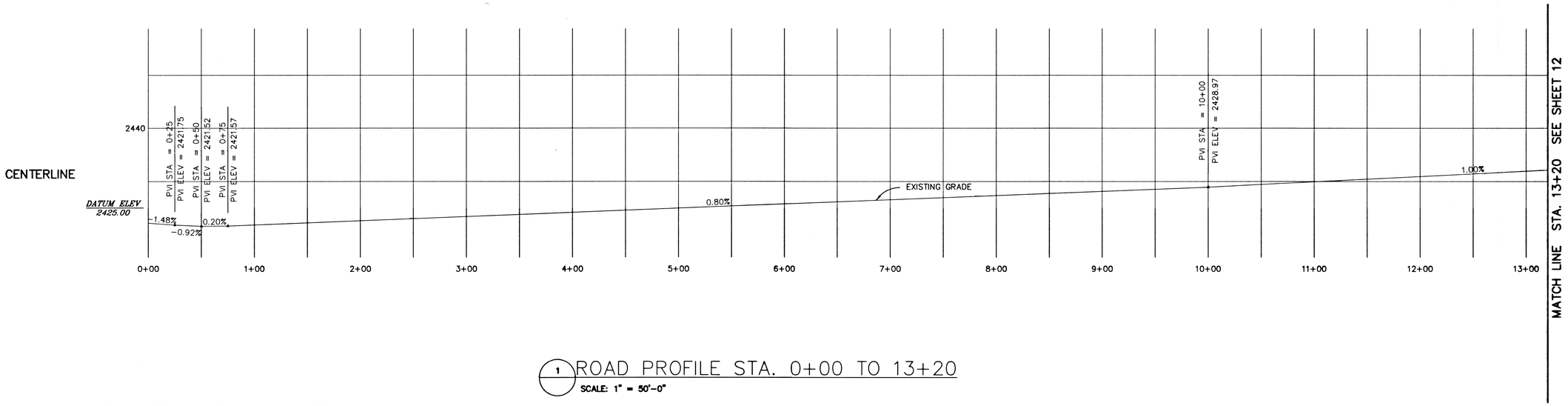
BAR SCALE IS ONE INCH ON ORIGINAL DRAWING. 0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAFTING STANDARD CCSWIN2K
DATE 02/04 DRAWN RAH
02/04 CHECKED DNR
APPROVED

**THOMAS MALLON ROAD**
ROAD PLAN STA 22+00 TO 26+40
PLAN AND PROFILE
WEST TERRACE THIRD ADDITION P.U.D.

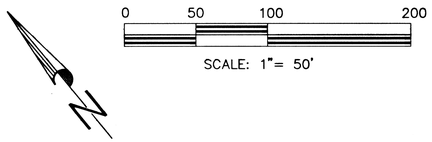
TYPE OF IMPROVEMENT: STREET
PROJECT NUMBER | PLAN NUMBER

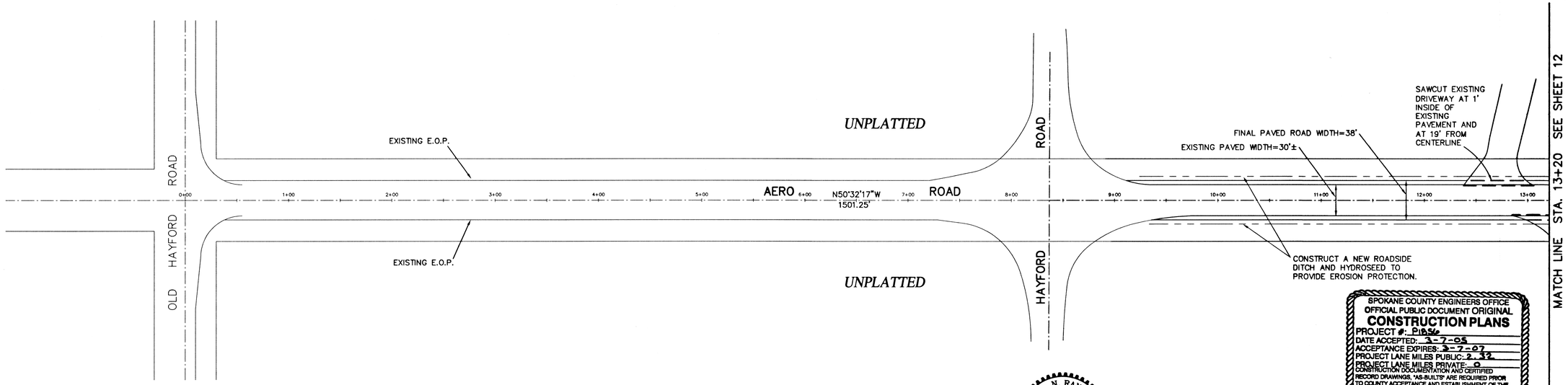
P-1856 DWG Eng/Road/Drainage




1 ROAD PROFILE STA. 0+00 TO 13+20

SCALE: 1" = 50'-0"




2 ROAD PLAN STA. 0+00 TO 13+20

SCALE: 1" = 50'-0"

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1856
DATE ACCEPTED: 3-7-05
ACCEPTANCE EXPIRES: 3-7-07
PROJECT LANE MILES PUBLIC: 2.32
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

DAVID N. RANDALL — STATE OF WASHINGTON — 26964 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 7-04-06

2/4/05

DEVELOPER'S APPROVAL:

NORTH DIVISION COMPLEX, LLC
ROBERT L. HEITMAN, JR.
MEMBER

DATE 2-4-05

SHEET 11 of 21

CALL BEFORE YOU DIG 456-8000

The Engineer's Seal was removed during the As-Built process
The information of record is as follows:

| Proj. No. | Engineer's Name | Eng. No. | Date on Plan |
|---|---|---|---|
| | | | |

**Adams & Clark, Inc.**
1720 W. Fourth Ave.
Spokane, WA 99204
(509) 747-4500 F(509) 747-8913

| REVISIONS | DATE | PROJ. | E.F.N. | FROM | TO | ACCEPT | FROM | TO | ORD. NO. | DATE | FILE NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AS BUILT | | | | | GRADE ORDINANCE LIST | | | | |

| LOCATION | U.S.C.&G.S. BM W354. A 3-1/2" BRASS CAP | | |
|---|---|---|---|
| TRM | | HORIZONTAL | AS NOTED |
| ELEVATION 2412.34' (NAVD88) | | VERTICAL | AS NOTED |
| DATUM | | SCALE | |

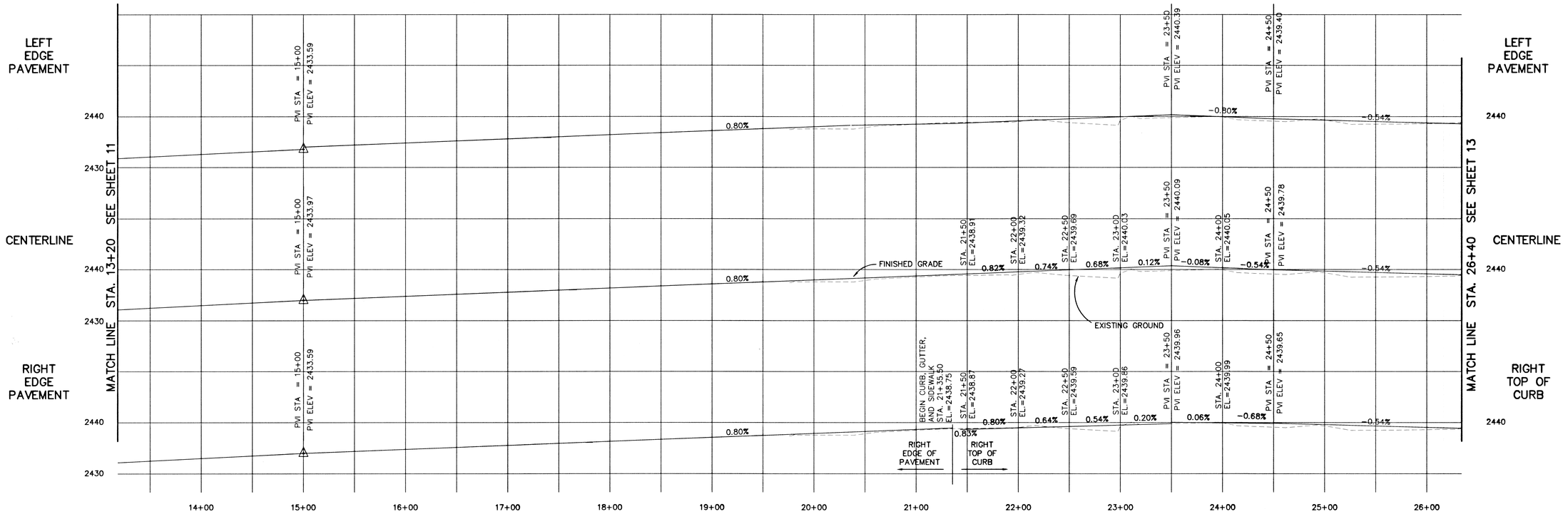
BAR SCALE IS ONE INCH ON ORIGINAL DRAWING. 0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

| DRAFTING STANDARD CCSWIN2K | | | |
|---|---|---|---|
| DATE | 02/04 | DRAWN | MF/TH |
| | 02/04 | CHECKED | DNR |
| | | APPROVED | |

**AERO ROAD**
ROAD PLAN STA 0+00 TO 13+20
PLAN AND PROFILE
WEST TERRACE THIRD ADDITION P.U.D.

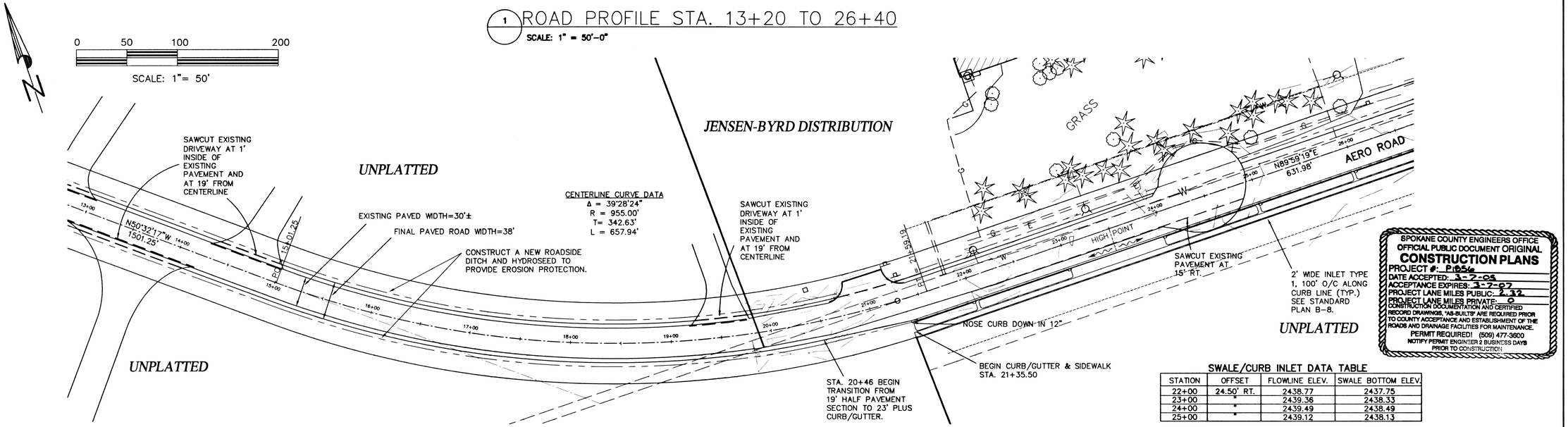
| TYPE OF IMPROVEMENT: STREET | |
|---|---|
| PROJECT NUMBER | PLAN NUMBER |
| | |

P-1856 Eng Road Drainage




1 ROAD PROFILE STA. 13+20 TO 26+40

SCALE: 1" = 50'-0"




2 ROAD PLAN STA. 13+20 TO 26+40

SCALE: 1" = 50'-0"

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1856
DATE ACCEPTED: 3-7-05
ACCEPTANCE EXPIRES: 3-7-07
PROJECT LANE MILES PUBLIC: 2.32
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

**SWALE/CURB INLET DATA TABLE**

| STATION | OFFSET | FLOWLINE ELEV. | SWALE BOTTOM ELEV. |
|---|---|---|---|
| 22+00 | 24.50' RT. | 2438.77 | 2437.75 |
| 23+00 | " | 2439.36 | 2438.33 |
| 24+00 | " | 2439.49 | 2438.49 |
| 25+00 | " | 2439.12 | 2438.13 |

DAVID N. RANDALL — STATE OF WASHINGTON — 20984 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 7-04-06 — 2/4/05

DEVELOPER'S APPROVAL:
NORTH DIVISION COMPLEX, LLC
ROBERT L. HEITMAN, JR.
MEMBER
DATE 2-4-05

The Engineer's Seal was removed during the As-Built process
The information of record is as follows:

| Proj. No. | Engineer's Name | Eng. No. | Date on Plan |
|---|---|---|---|
| | | | |

**Adams & Clark, Inc.**
1720 W. Fourth Ave.
Spokane, WA 99204
(509) 747-4600 F(509) 747-0913

| REVISIONS | DATE | PROJ. | E.F.N. | FROM | TO | ACCEPT | FROM | TO | ORD. NO. | DATE | FILE NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |

AS BUILT — GRADE ORDINANCE LIST

LOCATION U.S.C.&G.S. BM W354, A 3-1/2" BRASS CAP
TBM — HORIZONTAL AS NOTED
ELEVATION 2412.34' (NAVD88) — VERTICAL AS NOTED
DATUM — SCALE

BAR SCALE IS ONE INCH ON ORIGINAL DRAWING. 0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

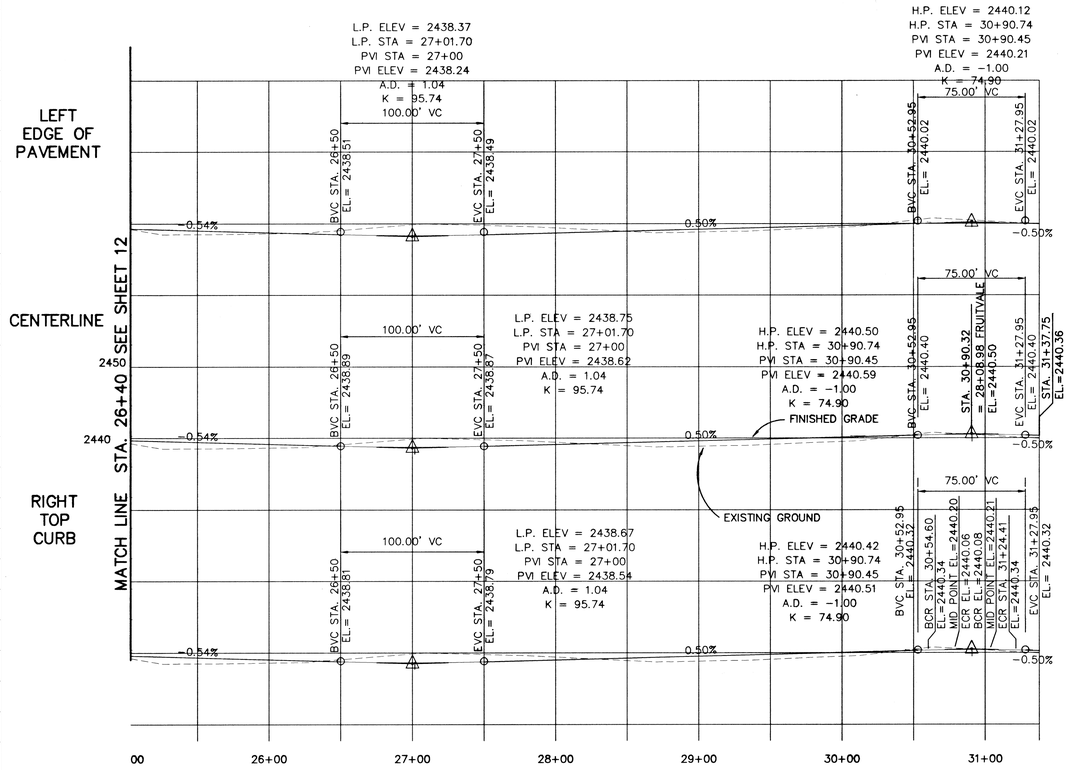
DRAFTING STANDARD CCSMN2K
DATE 02/04 DRAWN MF/TEH
02/04 CHECKED DNR
APPROVED

**AERO ROAD**
ROAD PLAN STA 13+20 TO 26+40
PLAN AND PROFILE
WEST TERRACE THIRD ADDITION P.U.D.

TYPE OF IMPROVEMENT: STREET
PROJECT NUMBER | PLAN NUMBER

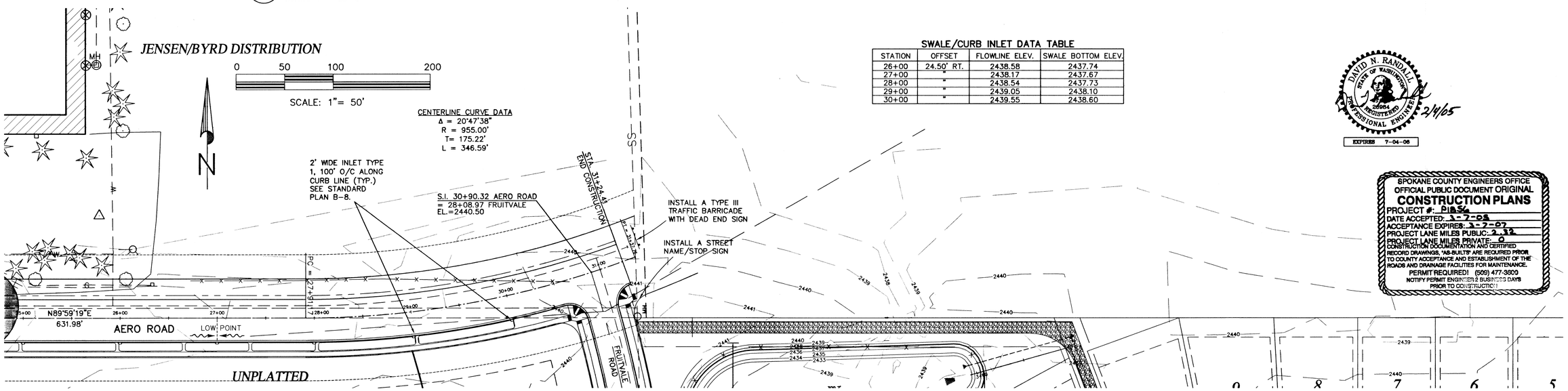
SHEET 12 of 21
CALL BEFORE YOU DIG 456-8000

P-1856 Eng Bd Drawing




1 ROAD PROFILE STA. 26+40 TO 31+37.75

SCALE: 1" = 50'-0"




2 ROAD PLAN STA. 26+40 TO 31+37.75

SCALE: 1" = 50'-0"

SWALE/CURB INLET DATA TABLE

| STATION | OFFSET | FLOWLINE ELEV. | SWALE BOTTOM ELEV. |
|---|---|---|---|
| 26+00 | 24.50' RT. | 2438.58 | 2437.74 |
| 27+00 | " | 2438.17 | 2437.67 |
| 28+00 | " | 2438.54 | 2437.73 |
| 29+00 | " | 2439.05 | 2438.10 |
| 30+00 | " | 2439.55 | 2438.60 |

DAVID N. RANDALL STATE OF WASHINGTON 26604 REGISTERED PROFESSIONAL ENGINEER 2/4/05

EXPIRES 7-04-06

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1856
DATE ACCEPTED: 3-7-05
ACCEPTANCE EXPIRES: 3-7-07
PROJECT LANE MILES PUBLIC: 2.32
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION!

The Engineer's Seal was removed during the As-Built process
The information of record is as follows:

| Proj. No. | Engineer's Name | Eng. No. | Date on Plan |
|---|---|---|---|
| | | | |

**Adams & Clark, Inc.**
1720 W. Fourth Ave.
Spokane, WA 99204
(509) 747-4600 F(509) 747-8913

| REVISIONS | DATE |
|---|---|
| | |

| PROJ. | E.F.N. | FROM | TO | ACCEPT | FROM | TO | ORD. NO. | DATE | FILE NO. |
|---|---|---|---|---|---|---|---|---|---|
| AS BUILT | | | | | GRADE ORDINANCE LIST | | | | |

| | |
|---|---|
| LOCATION | U.S.C.&G.S. BM W354. A 3-1/2" BRASS CAP |
| TBM | |
| ELEVATION 2412.34' (NAVD88) | |
| HORIZONTAL AS NOTED | |
| VERTICAL AS NOTED | |
| DATUM | SCALE |

BAR SCALE IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

| DRAFTING STANDARD CCSWIN2K | |
|---|---|
| DATE 02/04 | DRAWN MF/RH |
| 02/04 | CHECKED DNR |
| | APPROVED |

DEVELOPER'S APPROVAL:

NORTH DIVISION COMPLEX, LLC
ROBERT L. HEITMAN, JR.
MEMBER

DATE 2-4-05

SHEET 13 of 21

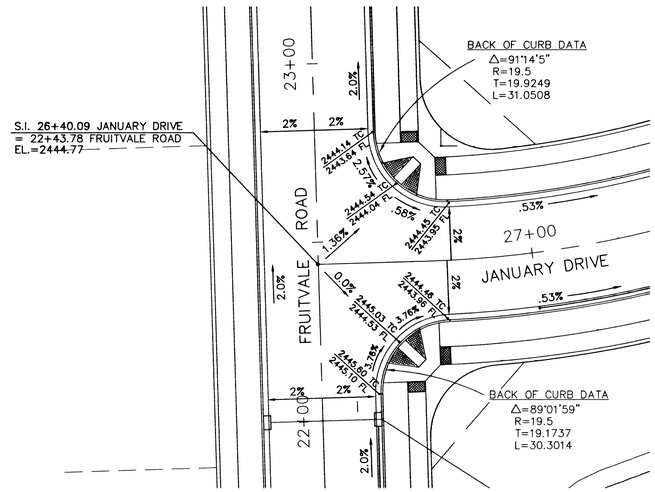
CALL BEFORE YOU DIG 456-8000

**AERO ROAD**
ROAD PLAN STA 26+40 TO 31+37.75
PLAN AND PROFILE
WEST TERRACE THIRD ADDITION P.U.D.

TYPE OF IMPROVEMENT: STREET

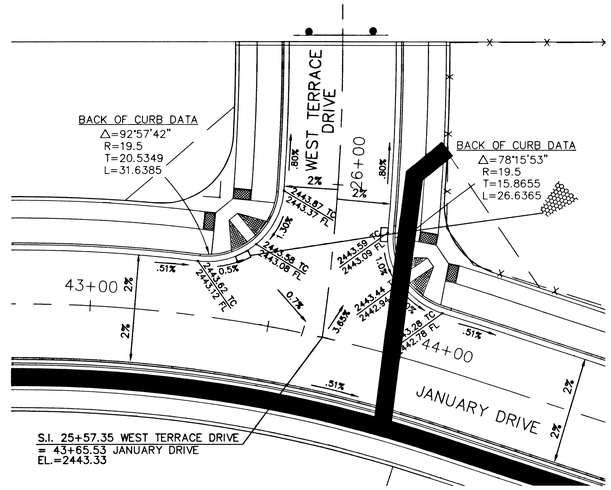
| PROJECT NUMBER | PLAN NUMBER |
|---|---|
| | |

P-1856 Eng Road Drawing



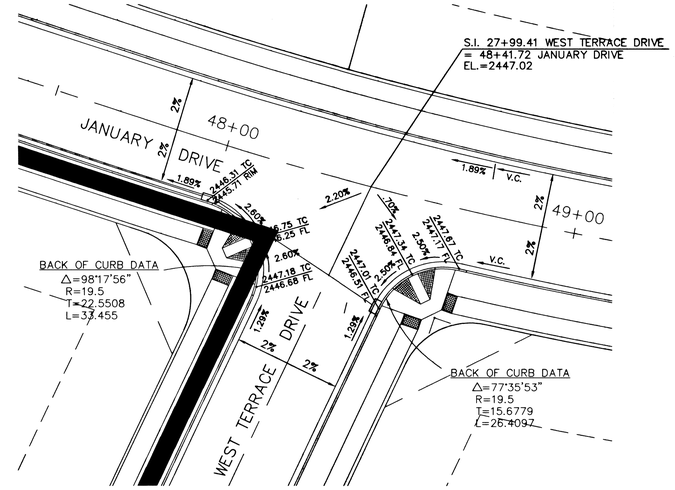

1 JANUARY DRIVE & FRUITVALE ROAD

SCALE: 1" = 20'



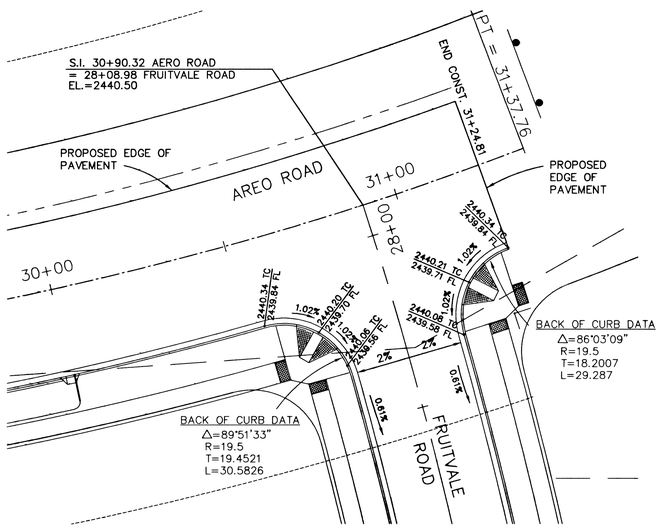

2 JANUARY DRIVE & WEST TERRACE DRIVE

SCALE: 1" = 20'



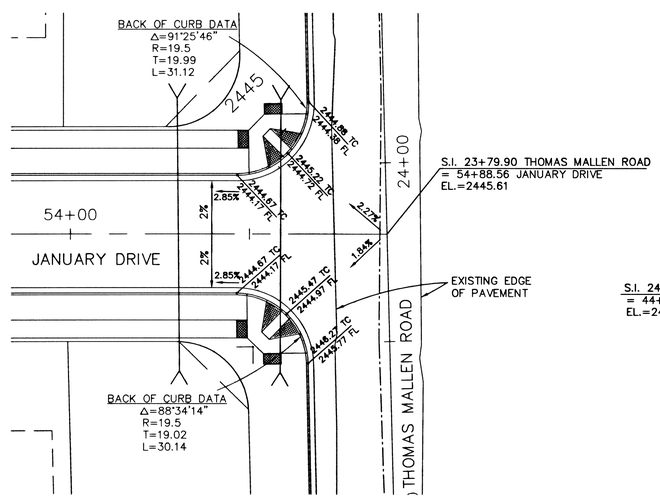

3 JANUARY DRIVE & WEST TERRACE DRIVE

SCALE: 1" = 20'



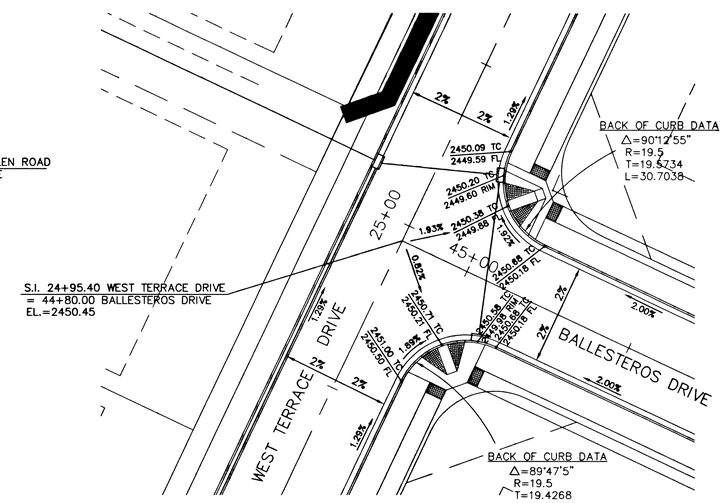

4 AREO ROAD & FRUITVALE ROAD

SCALE: 1" = 20'




5 JANUARY DRIVE & THOMAS MALLEN ROAD

SCALE: 1" = 20'




6 WEST TERRACE DRIVE & BALLESTEROS DRIVE

SCALE: 1" = 20'

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1856
DATE ACCEPTED: 3-7-05
ACCEPTANCE EXPIRES: 3-7-07
PROJECT LANE MILES PUBLIC: 2.32
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

DAVID N. RANDALL — STATE OF WASHINGTON — 26964 — REGISTERED PROFESSIONAL ENGINEER — 2/4/05
EXPIRES 7-04-08

DEVELOPER'S APPROVAL:
NORTH DIVISION COMPLEX, LLC
ROBERT L. HEITMAN, JR.
MEMBER
DATE 2-4-05

0 20 40 80
SCALE: 1"= 20'

N

The Engineer's Seal was removed during the As-Built process
The information of record is as follows:

| Proj. No. | Engineer's Name | Eng. No. | Date on Plan |
|---|---|---|---|
| | | | |

Adams & Clark, Inc.
1720 W. Fourth Ave.
Spokane, WA 99204
(509) 747-4600 F(509) 747-8913

| BY | REVISIONS | DATE | PROJ. | E.F.N. | FROM | TO | ACCEPT | FROM | TO | ORD. NO. | DATE | FILE NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | AS BUILT | | | | GRADE ORDINANCE LIST | | | | |

| LOCATION | U.S.C.&G.S. BM W354. A 3-1/2" BRASS CAP | | BAR SCALE IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY | DRAFTING STANDARD CCSWIN2K | |
|---|---|---|---|---|---|
| TBM | | HORIZONTAL AS NOTED | | DATE 02/04 | DRAWN RAH |
| ELEVATION 2412.34' (NAVD88) | | VERTICAL AS NOTED | | 02/04 | CHECKED DNR |
| DATUM | | SCALE | | | APPROVED |

WEST TERRACE DRIVE
INTERSECTION DETAIL PLANS

WEST TERRACE THIRD ADDITION P.U.D.

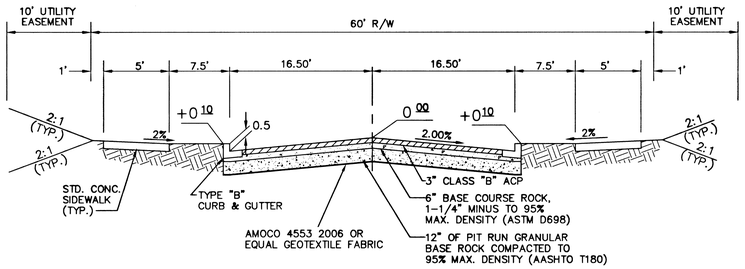
TYPE OF IMPROVEMENT: STREET

| PROJECT NUMBER | PLAN NUMBER |
|---|---|
| | |

SHEET 14 of 21

CALL BEFORE YOU DIG 456-8000

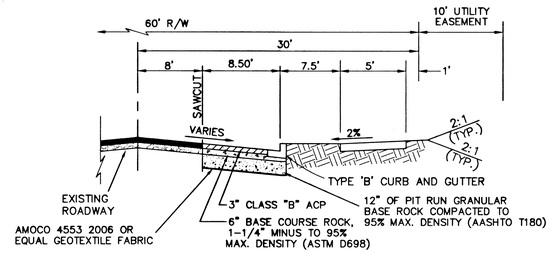
P-1856 Eng Red Drawing




TYPICAL STREET SECTION FOR
WEST TERRACE DRIVE
& JANUARY DRIVE
AND FOR
FRUITVALE ROAD
(NEW CONSTRUCTION)

## 1 TYPICAL STREET SECTION

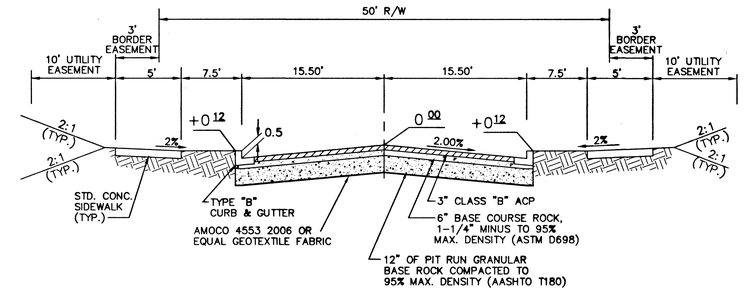
**SCALE: NOT TO SCALE**




TYPICAL STREET SECTION FOR
FRUITVALE ROAD
(EXISTING PORTION)

## 2 TYPICAL STREET SECTION

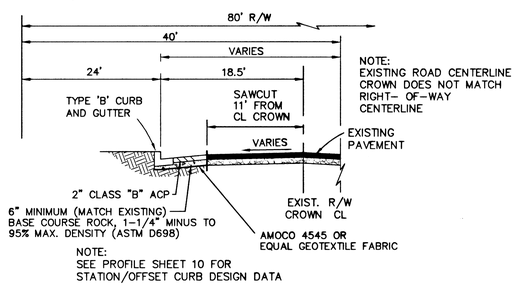
**SCALE: NOT TO SCALE**




TYPICAL STREET SECTION FOR
BALLESTEROS COURT

## 3 TYPICAL STREET SECTION

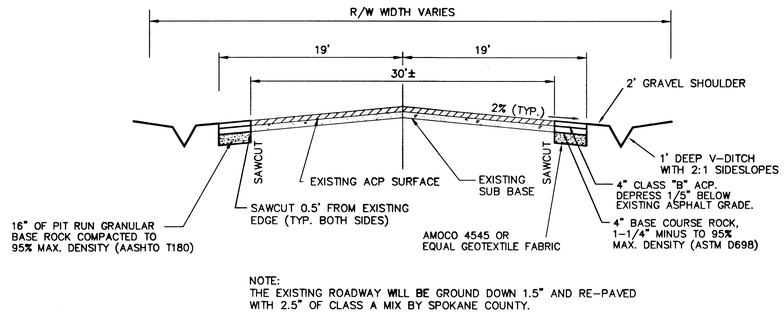
**SCALE: NOT TO SCALE**




TYPICAL STREET SECTION FOR
THOMAS MALLEN ROAD

## 4 TYPICAL STREET SECTION

**SCALE: NOT TO SCALE**

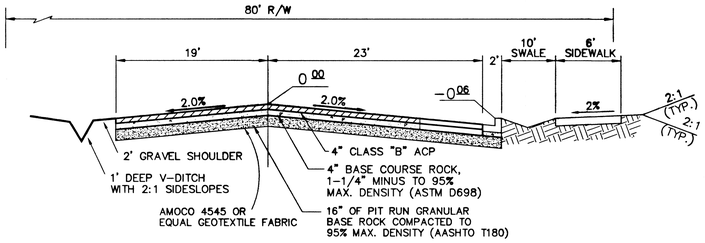



NOTE:
THE EXISTING ROADWAY WILL BE GROUND DOWN 1.5" AND RE-PAVED WITH 2.5" OF CLASS A MIX BY SPOKANE COUNTY.

## 5 TYPICAL AERO ROAD SECTION

**SCALE: NOT TO SCALE**

(STA. 0+37 TO STA. 21+35.50)




## 6 TYPICAL AERO ROAD NEW SECTION

**SCALE: NOT TO SCALE**

(STA. 21+35.50 TO STA. 31+24.41)

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1856
DATE ACCEPTED: 3-7-05
ACCEPTANCE EXPIRES: 3-7-07
PROJECT LANE MILES PUBLIC: 2.32
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

DAVID N. RANDALL, STATE OF WASHINGTON, 26984, REGISTERED PROFESSIONAL ENGINEER — 2/4/05
EXPIRES 7-04-06

DEVELOPER'S APPROVAL:
NORTH DIVISION COMPLEX, LLC
ROBERT L. HEITMAN, JR.
MEMBER
DATE 2-4-05

The Engineer's Seal was removed during the As-Built process. The information of record is as follows:

| Proj. No. | Engineer's Name | Eng. No. | Date on Plan |
|---|---|---|---|
| | | | |

Adams & Clark, Inc.
1720 W. Fourth Ave.
Spokane, WA 99204
(509) 747-4600 F(509) 747-8913

| BY | REVISIONS | DATE | PROJ. | E.F.N. | FROM | TO | ACCEPT | FROM | TO | ORD. NO. | DATE | FILE NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | AS BUILT | | | | | GRADE ORDINANCE LIST | | | | |

LOCATION U.S.C.&G.S. BM W354, A 3-1/2" BRASS CAP
TBM
ELEVATION 2412.34' (NAVD88)
DATUM
HORIZONTAL AS NOTED
VERTICAL AS NOTED
SCALE

BAR SCALE IS ONE INCH ON ORIGINAL DRAWING. 0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

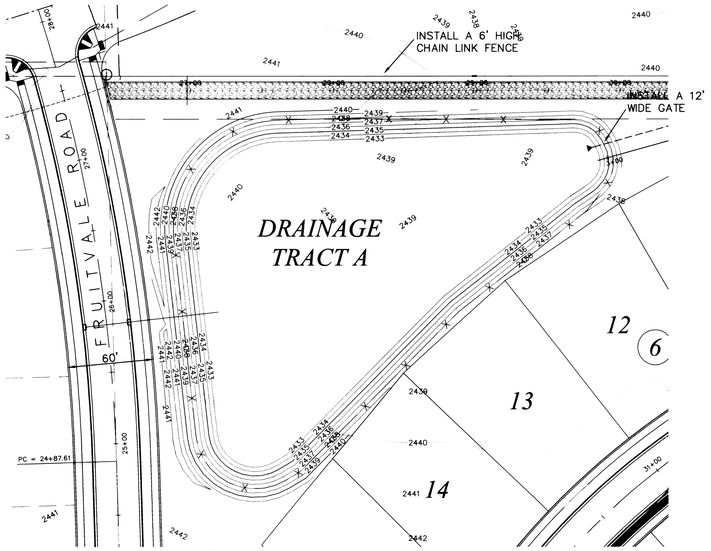
DRAFTING STANDARD CCSWIN2K
DATE 02/04 DRAWN RAH
02/04 CHECKED DNR
APPROVED

WEST TERRACE THIRD ADDITION P.U.D.
ROADWAY SECTIONS AND DETAILS

SHEET 15 of 21
CALL BEFORE YOU DIG 456-8000

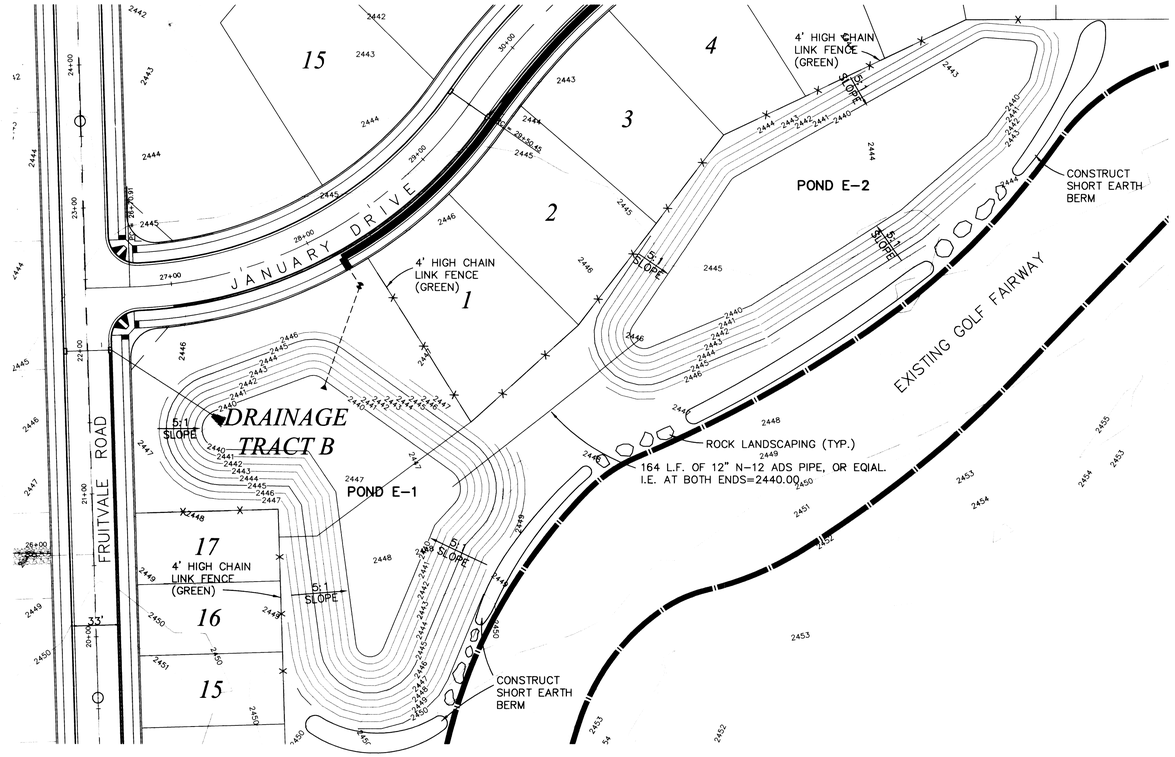
| TYPE OF IMPROVEMENT: STREET | |
|---|---|
| PROJECT NUMBER | PLAN NUMBER |
| | |

P-1856 Eng Rept Drainage



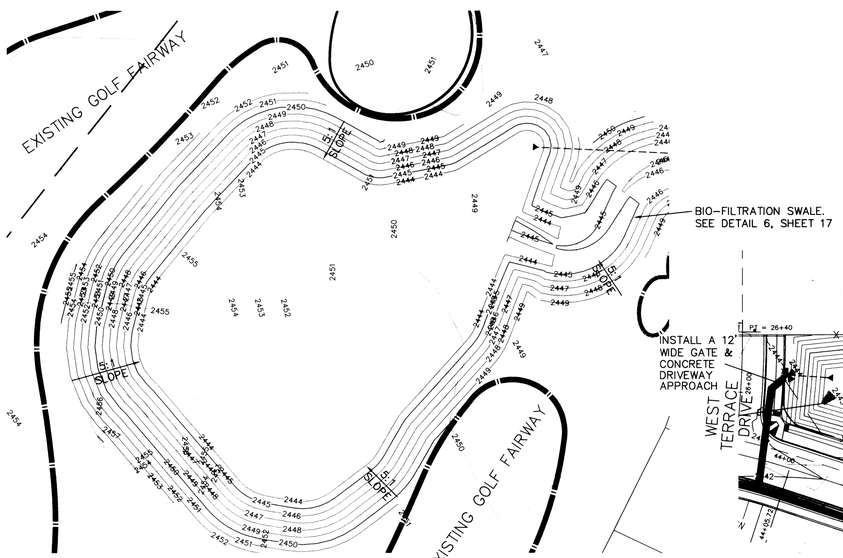

1 POND "D" GRADING PLAN

SCALE: HORI: 1" = 50'



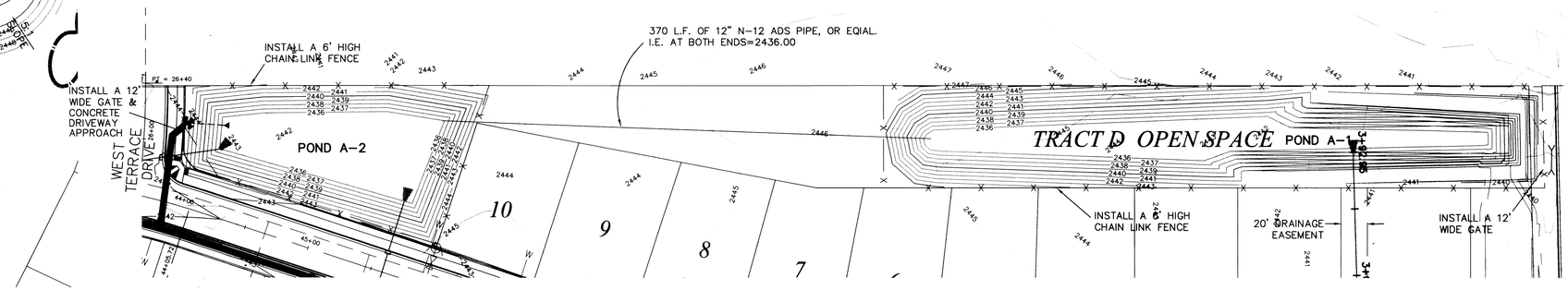

2 POND "E" GRADING PLAN

SCALE: HORI: 1" = 50'




3 POND "B" GRADING PLAN

SCALE: HORI: 1" = 50'




4 POND "A" GRADING PLAN

SCALE: HORI: 1" = 50'

N

0 25 50 100

SCALE: 1"= 50'

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1856
DATE ACCEPTED: 3-7-05
ACCEPTANCE EXPIRES: 3-7-07
PROJECT LANE MILES PUBLIC: 2.32
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

DEVELOPER'S APPROVAL:

NORTH DIVISION COMPLEX, LLC
ROBERT L. HEITMAN, JR.
MEMBER

DATE 2-4-05

DAVID N. RANDALL — STATE OF WASHINGTON — 28964 — REGISTERED PROFESSIONAL ENGINEER — 2/4/05

EXPIRES 7-04-06

SHEET 16 of 21

CALL BEFORE YOU DIG 456-8000

The Engineer's Seal was removed during the As-Built process
The information of record is as follows:

| Proj. No. | Engineer's Name | Eng. No. | Date on Plan |
|---|---|---|---|
| | | | |


Adams & Clark, Inc.
1720 W. Fourth Ave.
Spokane, WA 99204
(509) 747-4600 F(509) 747-8913


| BY | REVISIONS | DATE |
|---|---|---|
| | | |

| PROJ. | E.F.N. | FROM | TO | ACCEPT. | FROM | TO | ORD. NO. | DATE | FILE NO. |
|---|---|---|---|---|---|---|---|---|---|
| | AS BUILT | | | | GRADE ORDINANCE LIST | | | | |

| | |
|---|---|
| LOCATION | U.S.C.&G.S. BM W354. A 3-1/2" BRASS CAP |
| TBM | |
| ELEVATION 2412.34' (NAVD88) | |
| DATUM | |
| HORIZONTAL | AS NOTED |
| VERTICAL | AS NOTED |
| SCALE | |

BAR SCALE IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

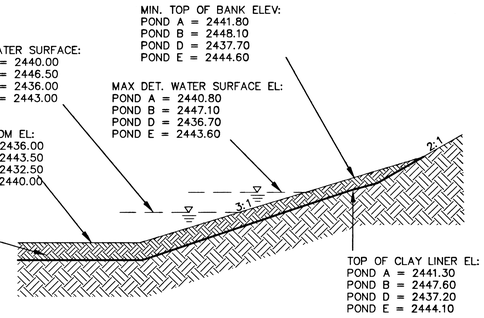
| DRAFTING STANDARD CCSWIN2K | | |
|---|---|---|
| DATE | | |
| 02/04 | DRAWN | MF/RH |
| 02/04 | CHECKED | DNR |
| | APPROVED | |

POND GRADING PLAN

WEST TERRACE THIRD ADDITION P.U.D.

| TYPE OF IMPROVEMENT: POND GRADING | |
|---|---|
| PROJECT NUMBER | PLAN NUMBER |
| | |

P-1856 Eng Road Drainage



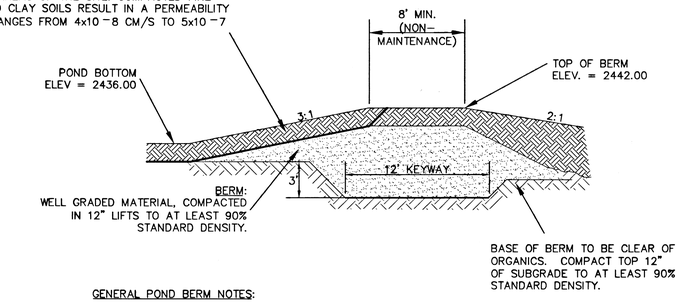

POND CLAY LINER NOTES:

WHERE FINE GRAINED CLAY SOILS EXIST, SCARIFY AND RECOMPACT THE UPPER 12" TO DISRUPT PREFERENTIAL GROUND WATER FLOW PATHS. IN AREAS OF COURSE SAND AND GRAVEL, EXCAVATE THE PERMEABLE SOILS AND REPLACE THEM WITH AT LEAST 18" OF FINE GRAINED CLAY SOIL FROM OTHER AREAS OF THE SITE. COMPACTED FINE GRAINED CLAY SOILS RESULT IN A PERMEABILITY THAT RANGES FROM 4x10 −8 CM/S TO 5x10 −7 CM/S.

## POND BANK DETAIL (5/10)
N.T.S.

POND CLAY LINER NOTES:

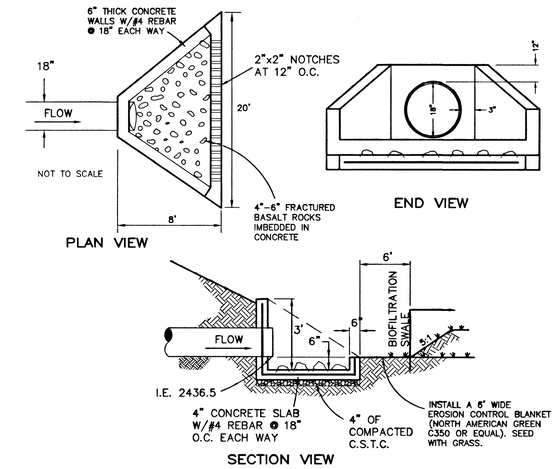
WHERE FINE GRAINED CLAY SOILS EXIST, SCARIFY AND RECOMPACT THE UPPER 12" TO DISRUPT PREFERENTIAL GROUND WATER FLOW PATHS. IN AREAS OF COURSE SAND AND GRAVEL, EXCAVATE THE PERMEABLE SOILS AND REPLACE THEM WITH AT LEAST 18" OF FINE GRAINED CLAY SOIL FROM OTHER AREAS OF THE SITE. COMPACTED FINE GRAINED CLAY SOILS RESULT IN A PERMEABILITY THAT RANGES FROM 4x10 −8 CM/S TO 5x10 −7 CM/S.



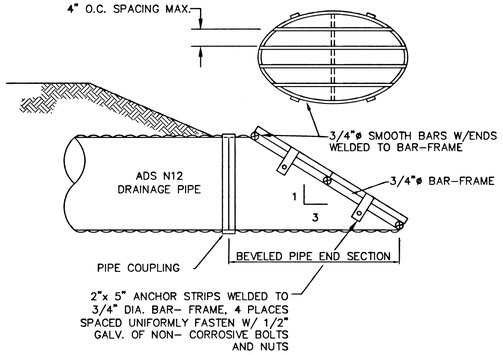

GENERAL POND BERM NOTES:

1. BOTTOM OF POND AND NON-BERM AREAS OF POND SHALL BE PLANTED WITH NATIVE-TYPE GRASSES ACCLIMATED TO ARID CONDITIONS.
2. THE BASE OF THE BERM SHALL BE FIRM, UNYIELDING SUBGRADE, FREE OF ORGANICS AND FILL MATERIAL.
3. STANDARD DENSITY SHALL BE IN ACCORDANCE WITH ASTM D-1557.

## POND A-1 BERM DETAIL (2)
N.T.S.



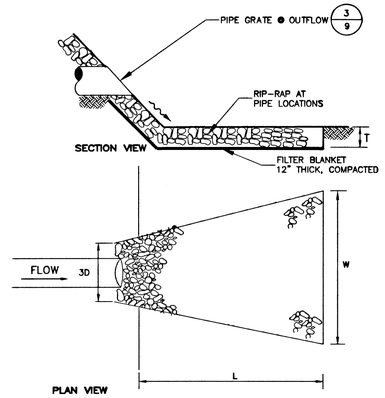

## FLOW SPREADER DETAIL (4/9)
SCALE: NOT TO SCALE



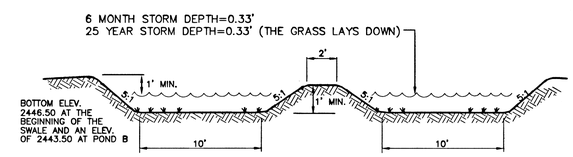

NOTE: INSTALL GRATE ON ALL DRAINAGE PIPE 12" OR LARGER.

## DETAIL-PIPE GRATE (4)
SCALE: NOT TO SCALE

| LOCATION | L(ft) | W(ft) | T(in.) | MIN. STONE DIAMETER (in.) | 3D(ft) |
|---|---|---|---|---|---|
| POND A-1 | 26.7 | 15.2 | 12" | 4" | 4.5 |
| POND A-2 (EAST) | 23.5 | 13.9 | 12" | 4" | 4.5 |
| POND A-2 (WEST) | 8.2 | 6.3 | 12" | 2" | 3.0 |
| POND D (EAST) | 30.8 | 18.3 | 12" | 5" | 6.0 |
| POND D (WEST) | 17.4 | 10.0 | 12" | 3" | 3.0 |
| POND E-1 | 40.0 | 20.5 | 12" | 7" | 4.5 |




## DETAIL-DRAINAGE PIPE OUTFALL (5)
SCALE: NOT TO SCALE




## BIOFILTRATION SWALE SECTION (6)

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1856
DATE ACCEPTED: 3-7-05
ACCEPTANCE EXPIRES: 3-2-07
PROJECT LANE MILES PUBLIC: 2.32
PROJECT LANE MILES PRIVATE: 0
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PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

DEVELOPER'S APPROVAL:
NORTH DIVISION COMPLEX, LLC
ROBERT L. HEITMAN, JR.
MEMBER
DATE 2-4-05

DAVID N. RANDALL — STATE OF WASHINGTON — 28084 — REGISTERED PROFESSIONAL ENGINEER — 2/4/05
EXPIRES 7-04-06

The Engineer's Seal was removed during the As-Built process
The information of record is as follows:

| Proj. No. | Engineer's Name | Eng. No. | Date on Plan |
|---|---|---|---|
| | | | |

Adams & Clark, Inc.
1720 W. Fourth Ave.
Spokane, WA 99204
(509) 747-4800 F(509) 747-8913

| BY | REVISIONS | DATE |
|---|---|---|
| | | |

| PROJ. | E.F.N. | FROM | TO | ACCEPT | FROM | TO | ORD. NO. | DATE | FILE NO. |
|---|---|---|---|---|---|---|---|---|---|
| | AS BUILT | | | | GRADE ORDINANCE LIST | | | | |

LOCATION U.S.C.&G.S. BM W354, A 3-1/2" BRASS CAP
TBM
ELEVATION 2412.34' (NAVD88)
HORIZONTAL AS NOTED
VERTICAL AS NOTED
DATUM
SCALE

BAR SCALE IS ONE INCH ON ORIGINAL DRAWING. 0 — 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

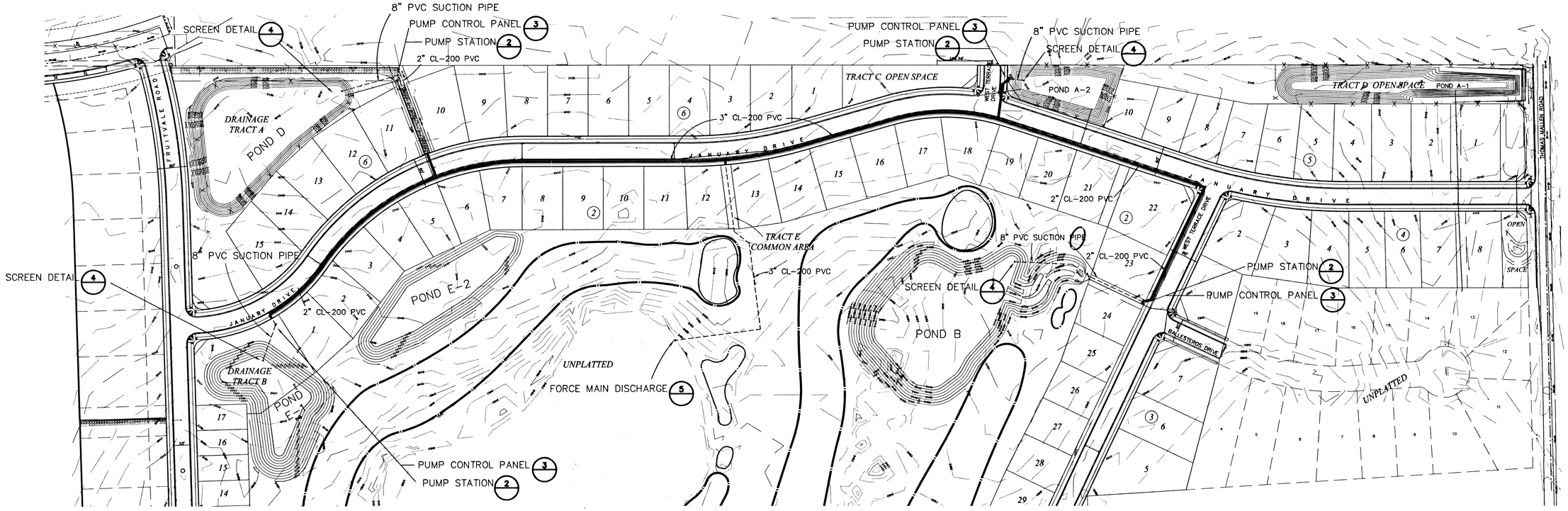
DRAFTING STANDARD CCSWIN2K
DATE 02/04 DRAWN RAH
02/04 CHECKED DNR
APPROVED

DRAINAGE DETAILS
WEST TERRACE THIRD ADDITION P.U.D.

SHEET 17 of 21
CALL BEFORE YOU DIG 456-8000

TYPE OF IMPROVEMENT: STREET
PROJECT NUMBER | PLAN NUMBER

P-1856 Eng Prod-Drainage



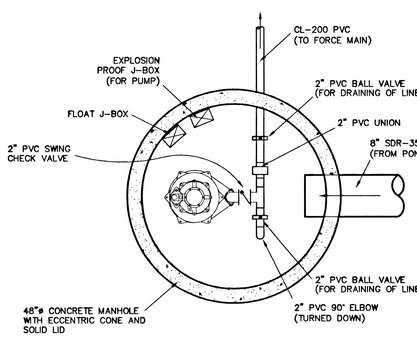

## 1 EVAPORATIVE POND PUMPING PLAN

SCALE: HORI: 1" = 100'-0"

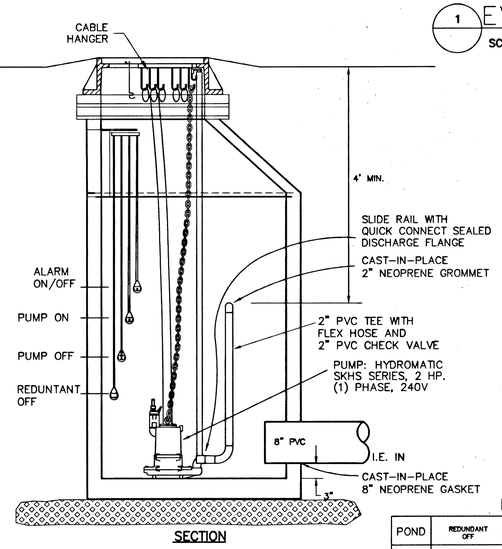
0 100 200 400

SCALE: 1"= 100'

N



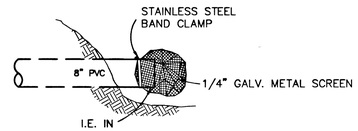

PLAN




SECTION

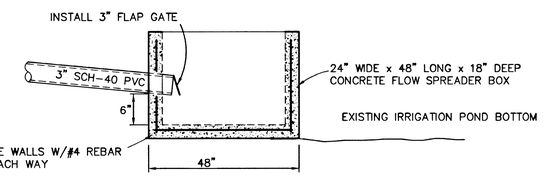
PUMP STATION DETAIL 2

SCALE: NOT TO SCALE




8" SUCTION SCREEN DETAIL 4

SCALE: NOT TO SCALE




FORCE MAIN DISCHARGE 5/14

SCALE: NOT TO SCALE

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1856
DATE ACCEPTED: 3-2-05
ACCEPTANCE EXPIRES: 3-2-07
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PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

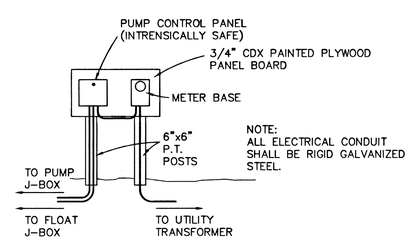
DEVELOPER'S APPROVAL:

NORTH DIVISION COMPLEX, LLC
ROBERT L. HEITMAN, JR.
MEMBER

DATE 2-4-05

FLOAT SETTING TABLE

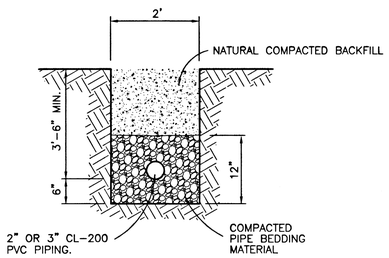
| POND | REDUNDANT OFF | OFF | ON | ALARM | I.E. IN | RIM |
|---|---|---|---|---|---|---|
| A | 2437.50 | 2438.00 | 2440.00 | 2440.80 | 2436.00 | 2442.92 |
| B | 2445.00 | 2445.50 | 2446.50 | 2447.10 | 2443.50 | 2450.36 |
| D | 2434.00 | 2434.50 | 2436.00 | 2436.70 | 2432.50 | 2439.00 |
| E | 2441.50 | 2442.00 | 2443.00 | 2443.60 | 2440.00 | 2444.00 |




NOTE:
ALL ELECTRICAL CONDUIT SHALL BE RIGID GALVANIZED STEEL.

8" SUCTION SCREEN DETAIL 3

SCALE: NOT TO SCALE




TRENCH DETAIL 6/14

SCALE: NOT TO SCALE

DAVID N. RANDALL
STATE OF WASHINGTON
26984
REGISTERED
PROFESSIONAL ENGINEER
2/9/05
EXPIRES 7-04-05

PUMP SYSTEM NOTE:
STORM WATER PUMPING SYSTEM SHALL MEET NEC REQUIREMENTS FOR CLASS 1, DIVISION 1 EQUIPMENT IN HAZARDOUS AREAS.

The Engineer's Seal was removed during the As-Built process. The information of record is as follows:

| Proj. No. | Engineer's Name | Eng. No. | Date on Plan |
|---|---|---|---|
| | | | |

Adams & Clark, Inc.
1720 W. Fourth Ave.
Spokane, WA 99204
(509) 747-4600 F(509) 747-8913

| BY | REVISIONS | DATE | PROJ. | E.F.N. | FROM | TO | ACCEPT | FROM | TO | ORD. NO. | DATE | FILE NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | AS BUILT | | | | GRADE ORDINANCE LIST | | | | |

LOCATION U.S.C.&G.S. BM W354, A 3-1/2" BRASS CAP
TBM
HORIZONTAL AS NOTED
ELEVATION 2412.34' (NAVD88)
VERTICAL AS NOTED
DATUM
SCALE

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DRAFTING STANDARD CCSWN2K
DATE 02/04 DRAWN MF/TEH
02/04 CHECKED DNR
APPROVED

SHEET 18 of 21

CALL BEFORE YOU DIG 456-8000

EVAPORATIVE POND PUMPING PLAN AND PUMP DETAILS

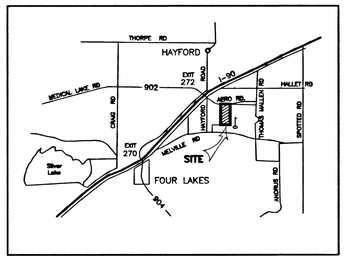
WEST TERRACE THIRD ADDITION P.U.D.

TYPE OF IMPROVEMENT: EROSION

| PROJECT NUMBER | PLAN NUMBER |
|---|---|
| 2003-01-015 | 6 |

P-1856 Eng Prof Drainage

1 EROSION CONTROL PLAN
SCALE: HORI: 1" = 100'-0"




VICINITY MAP

PROPERTY DESCRIPTION:
A PORTION OF THE SE1/4 OF SECTION 7, TOWNSHIP 24 NORTH, RANGE 42 EAST, W.M. SPOKANE COUNTY, WASHINGTON

**ON-SITE CONTACT:**
BOB HEITMAN
879-8910

**PROPERTY OWNER:**
TC ENTERPRISES No.5 LLC
9116 E. SPRAGUE AVE.
SPOKANE VALLEY, WA
99206

**APPLICANT:**
NORTH DIVISION COMPLEX
8225 N. DIVISION ST.
SPOKANE, WA 99208

**PLAN PREPARATION:**
DAVID N. RANDALL, P.E.
ADAMS & CLARK, INC.
1720 W. FOURTH AVE.
SPOKANE, WA 99204

NOTES:
1. THE PROJECT IS CURRENTLY VEGETATED WITH UPLAND GRASSES.
2. THIS PROJECT CONSISTS OF THE CONSTRUCTION OF RESIDENTIAL STREETS AND DRAINAGE RETENTION PONDS.
3. EROSION AND SEDIMENT CONTROL MEASURES WILL CONSIST OF THE INSTALLATION OF INTERCEPTOR DITCHES ALONG THE LOWER SIDE OF EACH OF THE PROPOSED ROADWAYS. DITCH RUNOFF VELOCITIES WILL BE CONTROLLED BY THE INSTALLATION OF STRAW BARRIERS AS SHOWN ON THIS DRAWING.
4. SOILS AT THIS SITE ARE CLASSIFIED BY THE SCS AS CHENEY AND UHLIG SILT LOAM.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
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PROJECT #: P1856
DATE ACCEPTED: 3-7-05
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PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

I CERTIFY THAT THIS PLAN MEETS THE REQUIREMENTS FOR E.S.C. AS LISTED IN CHAPTER 4.5 OF THE GUIDELINE FOR STORMWATER MANAGEMENT.

DAVID N. RANDALL, P.E. DATE 2/4/05

DEVELOPER'S APPROVAL:
NORTH DIVISION COMPLEX, LLC
ROBERT L. HEITMAN, JR.
MEMBER
DATE 2-4-05

DAVID N. RANDALL, STATE OF WASHINGTON, 26984, REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7-04-06
2/4/05

SHEET 20 of 21

CALL BEFORE YOU DIG 456-8000

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| Proj. No. | Engineer's Name | Eng. No. | Date on Plan |
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| | | | |

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1720 W. Fourth Ave.
Spokane, WA 99204
(509) 747-4600 F(509) 747-8913

| BY | REVISIONS | DATE | PROJ. | E.F.N. | FROM | TO | ACCEPT | FROM | TO | ORD. NO. | DATE | FILE NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AS BUILT | | | GRADE ORDINANCE LIST | | | | |

LOCATION U.S.C.&G.S. BM W354, A 3-1/2" BRASS CAP
TBM
ELEVATION 2412.34' (NAVD88)
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VERTICAL AS NOTED
DATUM
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAFTING STANDARD CCSWN2K
DATE 02/04 DRAWN MF/RH
02/04 CHECKED DNR
APPROVED

EROSION CONTROL PLAN
SITE PLAN
WEST TERRACE THIRD ADDITION P.U.D.

TYPE OF IMPROVEMENT: EROSION

| PROJECT NUMBER | PLAN NUMBER |
|---|---|
| 2003-01-015 | 6 |

P-1856 Eng Road Drainage

# GENERAL SPECIFICATIONS

1. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH SPOKANE COUNTY STANDARDS.
2. LOCATIONS OF EXISTING UTILITIES SHOWN IN PLANS ARE APPROXIMATE THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES, ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.
3. THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE APPROVED ROAD AND DRAINAGE PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
4. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER AND THE CITY OF SPOKANE CONSTRUCTION SERVICES DEPARTMENT.
5. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG.
6. THE EROSION/SEDIMENTATION CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. THE CONTRACTOR SHALL INSPECT AND MAINTAIN THESE ESC MEASURES DAILY, AND SHALL MAINTAIN AND UPGRADE THESE MEASURES AS NECESSARY TO PREVENT SEDIMENT-LADEN WATER FROM EITHER FLOWING OFF THE SITE, OR INTO NEW/EXISTING STORM DRAINAGE FACILITIES.
7. THE CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR INSTALLING ROCK CONSTRUCTION ENTRIES AT ANY ALL LOCATIONS USED TO ENTER OR EXIT THE PROJECT SITE.
8. TEMPORARY EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED PRIOR TO ANY OTHER SITE WORK, AND TO REMAIN IN PLACE UNTIL ROAD AND RESERVOIR CONSTRUCTION IS COMPLETE, AND ALL PERMANENT EROSION CONTROL AND DRAINAGE FACILITIES ARE IN PLACE.

DEFINITION:

MINIMIZING EXPOSED SOILS AND CONSEQUENT EROSION BY CLEARING ONLY WHERE CONSTRUCTION WILL OCCUR.

PURPOSE:

TO REDUCE EROSION BY PRESERVING NATURAL VEGETATION WHEREVER PRACTICABLE.

CONDITIONS WHERE PRACTICE APPLIES:

NATURAL VEGETATION SHOULD BE PRESERVED ON ALL AREAS OUTSIDE THE CLEARING AND GRUBBING LIMITS.

## PRESERVE NATURAL VEGETATION (1/7)

DEFINITION:

A TEMPORARY STONE-STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE.

PURPOSE:

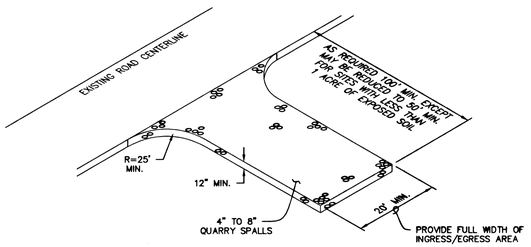
TO REDUCE THE AMOUNT OF MUD, DIRT, ROCKS, ETC. TRANSPORTED ONTO PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF BY CONSTRUCTING A STABILIZED PAD OF ROCK SPALLS AT ENTRANCES TO CONSTRUCTION SITES AND WASHING OF TIRES DURING EGRESS.

CONDITIONS WHERE PRACTICE APPLIES:

- WHENEVER TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVING DIRECTLY ONTO A PUBLIC ROAD OR OTHER PAVED AREAS.

MAINTENANCE:

- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.




## ROCK CONSTRUCTION ENTRY (2/7)

DEFINITION:

THE ESTABLISHMENT OF PERENNIAL VEGETATIVE COVER ON DISTURBED AREAS.

PURPOSE:

TO ESTABLISH PERMANENT VEGETATION (SUCH AS GRASSES, LEGUMES AND TREES AND SHRUBS) AS RAPIDLY AS POSSIBLE TO PREVENT SOIL EROSION BY WIND OR WATER, AND TO IMPROVE WILDLIFE HABITAT AND SITE AESTHETICS.

CONDITIONS WHERE PRACTICE APPLIES:

- GRADED, FINAL GRADED OR CLEARED AREAS WHERE PERMANENT VEGETATIVE COVER IS NEEDED TO ESTABLISH THE SOIL.
- AREAS WHICH WILL NOT BE BROUGHT TO FINAL GRADE FOR A YEAR OR MORE.
- VEGETATION-LINED CHANNELS.

PROVIDE FRESH, CLEAN NEW CROP SEED COMPLYING WITH TOLERANCE FOR PURITY AND GERMINATION ESTABLISHED BY OFFICIAL SEED ANALYSTS OF NORTH AMERICA. PROVIDE SEED MIXTURE COMPOSED OF GRASS SPECIES AND AND NATIVE SPECIES AT PERCENTAGES AS FOLLOWS:

GRASS SEED: FRESH, CLEAN, DRY, NEW CROP SEED COMPLYING WITH THE ASSOCIATION OF OFFICIAL ANALYSTS' "RULES FOR TESTING SEEDS" FOR PURITY AND GERMINATION TOLERANCE. PROVIDE THE FOLLOWING EROSION SEED MIX FOR THE HYDROSEEDING: SHEEP FESCUE, 33 %; HARD FESCUE, 33%; CANADA BLUEGRASS, 20%; ANNUAL RYE GRASS, 10%; ACHILLEA MILLEFOLIUM, 1%; LUPINUS PERENNIS, 1%; AMELANCHIER ALNIFOLIA, 1%; ROSA WOODSII, 1%; ANNUAL RYE GRASS, 10%, AND CONTAIN LESS THAN 1% WEED CONTENT. SEED SHALL BE APPLIED AT A MINIMUM RATE OF 80 POUNDS PER ACRE.

PROVIDE HYDROSEEDING AS FOLLOWS:

HYDROSEEDING: MIX SPECIFIED SEED AT THE RATE OF 80 LBS./ACRE, FERTILIZER AT THE RATE OF 400 LBS./ACRE OF 16-16-16 AND FIBER MULCH IN WATER, USING EQUIPMENT SPECIFICALLY DESIGNED FOR HYDROSEED APPLICATION. CONTINUE MIXING UNTIL UNIFORMLY BLENDED INTO HOMOGENOUS SLURRY SUITABLE FOR HYDRAULIC APPLICATION.

1. MIX SLURRY WITH NONASPHALTIC TACKIFIER, PER MANUFACTURER'S RECOMMENDATION.
2. APPLY SLURRY UNIFORMLY TO ALL AREAS TO BE SEEDED IN A 1-STEP PROCESS. APPLY MULCH AT THE MINIMUM RATE OF 2000 LBS./ACRE (16.5 KG PER 100 SQ.M) DRY WEIGHT BUT NOT LESS THAN THE RATE REQUIRED TO OBTAIN SPECIFIED SEED-SOWING RATE.

ALL SEEDING OF SLOPES SHALL BE DONE IN ACCORDANCE WITH W.S.D.O.T. STANDARD SPECIFICATIONS.

PERMANENT SEEDING SHALL OCCUR BETWEEN THE DATES OF AUGUST 15 TO OCTOBER 15. ANY AREAS THAT ARE NOT SEEDED AND ARE EXPOSED FOR MORE THAN 30 DAYS SHALL HAVE A TEMPORARY CONTROL BLANKET, OR A STRAW MULCH (1.2 TONS PER ACRE APPLIED). MULCH SHALL BE ANCHORED INTO THE SOIL BY DISKING OR OTHER METHODS AS APPROVED SPOKANE COUNTY.
MULCHING OPERATIONS SHALL BE PER W.S.D.O.T. SPECIFICATIONS SECTION 8-01.3(5).

## PERMANENT SEEDING (3/7)

DEFINITION:

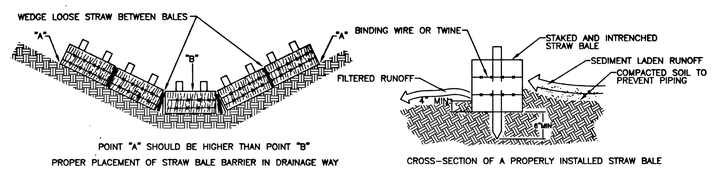
A TEMPORARY SEDIMENT BARRIER CONSISTING OF A ROW OF ENTRENCHED AND ANCHORED STRAW BALES.

PURPOSE:

1. TO INTERCEPT AND DETAIN SMALL AMOUNTS OF SEDIMENT FROM DISTURBED AREAS OF LIMITED EXTENT TO PREVENT SEDIMENT FROM LEAVING THE SITE.
2. TO DECREASE THE VELOCITY OF SHEET FLOWS AND LOW TO MODERATE LEVEL CHANNEL FLOWS.

MAINTENANCE:

- CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS, AND UNDERCUTTING BENEATH BALES.
- SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RUNOFF-PRODUCING RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

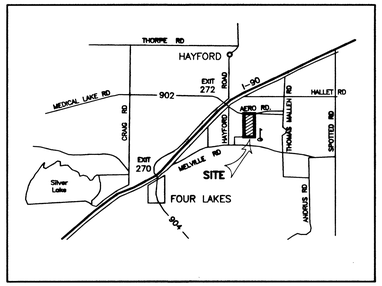



## STRAW BALE DETAILS (4/7)

DEFINITION:
A SEDIMENT FILTER OR AN EXCAVATED IMPOUNDING AREA AROUND A STORM DRAIN, DROP INLET, OR CURB INLET.

PURPOSE:
TO PREVENT SEDIMENT FROM ENTERING STORM DRAINAGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA.

- INSTALLATION PROCEDURE FOR FILTER FABRIC FENCE:
  - A. PLACE 2 INCH BY 2 INCH WOODEN POSTS AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART AND DRIVE THEM AT LEAST 8 INCHES INTO THE GROUND. THE STAKES MUST BE AT LEAST 3 FEET LONG.
  - B. EXCAVATE A TRENCH APPROXIMATELY 8 INCHES WIDE AND 12 INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE STAKES.
  - C. STAPLE THE FILTER FABRIC TO WOODEN STAKES SO THAT 32 INCHES OF THE FABRIC EXTENDS OUT AND CAN BE FORMED INTO THE TRENCH. USE HEAVY-DUTY WIRE STAPLES AT LEAST 1/2 INCH IN LENGTH.
  - D. BACKFILL THE TRENCH WITH 3/4 INCH OR LESS WASHED GRAVEL ALL THE WAY AROUND.
  - E. SILT FENCE INLET BARRIER SHALL BE CONSTRUCTED ON ALL INLETS AT THE TIME OF THEIR CONSTRUCTION. APPARENT OPENING SIZE OF FILTER FABRIC SHALL BE 70.
- INSTALLATION PROCEDURE FOR GRAVEL AND WIRE MESH FILTER:
  - A. PLACE WIRE MESH OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. USE HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2 INCH OPENINGS. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, OVERLAP THE STRIPS. PLACE FILTER FABRIC OVER WIRE MESH.
  - B. EXTEND THE FILTER FENCE/WIRE MESH BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES. PLACE 3/4 INCH TO 3-INCH GRAVEL OVER THE FILTER FABRIC/WIRE MESH. THE DEPTH OF THE GRAVEL SHOULD BE AT LEAST 12 INCHES.




## VICINITY MAP


ON-SITE CONTACT:
BOB HEITMAN
879-8910

PROPERTY OWNER:
TC ENTERPRISES No.5 LLC
9116 E. SPRAGUE AVE.
SPOKANE VALLEY, WA
99206

APPLICANT:
NORTH DIVISION COMPLEX
8225 N. DIVISION ST.
SPOKANE, WA 99208

PLAN PREPARATION:
DAVID N. RANDALL, P.E.
ADAMS & CLARK, INC.
1720 W. FOURTH AVE.
SPOKANE, WA 99204

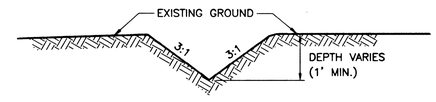

PROPERTY DESCRIPTION:
A PORTION OF THE SE1/4 OF SECTION 7,
TOWNSHIP 24 NORTH, RANGE 42 EAST, W.M.
SPOKANE COUNTY, WASHINGTON

I CERTIFY THAT THIS PLAN MEETS THE REQUIREMENTS FOR E.S.C. AS LISTED IN CHAPTER 4.5 OF THE GUIDELINE FOR STORMWATER MANAGEMENT.

DAVID N. RANDALL, P.E. DATE 2/4/05

DEVELOPER'S APPROVAL:

NORTH DIVISION COMPLEX, LLC
ROBERT L. HEITMAN, JR.
MEMBER DATE 2-4-05

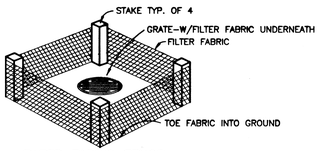



## INTERCEPTOR DITCH SECTION (5/7)

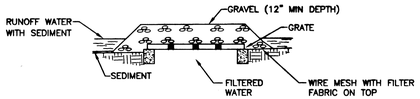
## EROSION CONTROL NOTES

1. AN EROSION/SEDIMENTATION CONTROL (ESC) PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE ESC PLAN, AND CONSTRUCTION, MAINTENANCE, AND UPGRADING OF THE ESC FACILITIES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY SPOKANE COUNTY, OR UNTIL VEGETATION IS ESTABLISHED THROUGHOUT THE SITE, AND ACEPTED BY SPOKANE COUNTY, WHICHEVER IS LATER.
2. APPROVAL OF THE ESC PLAN DOES CONSTITUTE APPROVAL OF ANY OF THE PROPOSED ROAD, STORM DRAINAGE, GRADING OR UTILITY DESIGN ELEMENTS SHOWN ON THE ESC PLAN.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: P1856
DATE ACCEPTED: 3-7-05
ACCEPTANCE EXPIRES: 3-7-05
PROJECT LANE MILES PUBLIC: 2.32
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION




FILTER FABRIC FENCE




GRAVEL AND WIRE MESH FILTER

## STORM DRAIN INLET PROTECTION (6/7)

DAVID N. RANDALL — STATE OF WASHINGTON — 28984 — REGISTERED PROFESSIONAL ENGINEER — 2/4/05
EXPIRES 7-04-06

SHEET 21 of 21
MAY 17, 2004
CALL BEFORE YOU DIG 456-8000

The Engineer's Seal was removed during the As-Built process. The information of record is as follows:

| Proj. No. | Engineer's Name | Eng. No. | Date on Plan |
|---|---|---|---|
| | | | |


Adams & Clark, Inc.
1720 W. Fourth Ave.
Spokane, WA 99204
(509) 747-4600 F(509) 747-8913


| BY | REVISIONS | DATE | PROJ. | E.F.N. | FROM | TO | ACCEPT | FROM | TO | GRD. NO. | DATE | FILE NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AS BUILT | | | GRADE ORDINANCE LIST | | | | |

LOCATION U.S.C.&G.S. BM W354, A 3-1/2" BRASS CAP
TBM
ELEVATION 2412.34' (NAVD88)
HORIZONTAL AS NOTED
VERTICAL AS NOTED
DATUM
SCALE

BAR SCALE IS ONE INCH ON ORIGINAL DRAWING. 0 — 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAFTING STANDARD CCSWIN2K
DATE 02/04 DRAWN MF/RH
02/04 CHECKED DNR
APPROVED

EROSION CONTROL DETAILS
SITE PLAN
WEST TERRACE THIRD ADDITION P.U.D.

TYPE OF IMPROVEMENT: EROSION
PROJECT NUMBER 2003-01-015
PLAN NUMBER

P-1856 Eng Prel-Drainage