

SYNERGY RESOURCES CORPORATION MASTER SITE PLAN

SRC NORTHRIDGE: 31-4-5NHZ, C-4-5CHZ, C-4-5NHZ, 32-4-5NHZ, 32-4-5NHZ

& SRC KELLY FARMS: 21-4-3NHZ, 21-4-3NHZ #2, A-4-3CHZ, A-4-3NHZ,

22-4-3CHZ, 22-4-3NHZ, 22-4-3NHZ #2

GENERAL NOTES:

- ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY, OR EASEMENT SHALL CONFORM TO THE CITY OF GREELEY CONSTRUCTION SPECIFICATIONS AND DESIGN STANDARDS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF ANY WORK ON THE PROJECT. A PERMIT FROM PUBLIC WORKS ENGINEERING DIVISION (970-350-9881) IS REQUIRED FOR ALL CONSTRUCTION IN PUBLIC RIGHT-OF-WAY OR EASEMENTS. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD WITH CITY REPRESENTATIVES BEFORE A PERMIT WILL BE ISSUED. CALL UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 FOR UTILITY LOCATES AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- THE CONTRACTOR SHALL NOTIFY CONSTRUCTION SERVICES (970-350-9358) AT LEAST 24 HOURS PRIOR TO REQUIRED INSPECTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER/ DEVELOPER, AND THE CITY, OF ANY PROBLEMS IN CONFORMING TO THE ACCEPTED PLANS FOR ANY ELEMENT OF THE PROPOSED IMPROVEMENTS PRIOR TO ITS CONSTRUCTION.
- IT IS THE RESPONSIBILITY OF THE DEVELOPER DURING CONSTRUCTION ACTIVITIES TO RESOLVE CONSTRUCTION PROBLEMS DUE TO CHANGED CONDITIONS, OR DESIGN ERRORS ENCOUNTERED BY THE CONTRACTOR DURING THE PROGRESS OF ANY PORTION OF THE PROJECT. IF, IN THE OPINION OF THE CITY, THE MODIFICATIONS PROPOSED BY THE DEVELOPER, TO THE ACCEPTED PLANS, INVOLVE SIGNIFICANT CHANGES TO THE CHARACTER OF THE WORK, OR TO THE FUTURE CONTIGUOUS PUBLIC OR PRIVATE IMPROVEMENTS, THE DEVELOPER SHALL BE RESPONSIBLE FOR RESUBMITTING THE REVISED PLANS TO THE CITY OF GREELEY FOR ACCEPTANCE PRIOR TO ANY FURTHER CONSTRUCTION RELATED TO THAT PORTION OF THE PROJECT. ANY IMPROVEMENTS NOT CONSTRUCTED IN ACCORDANCE WITH THE ACCEPTED PLANS, OR THE ACCEPTED REVISED PLANS, SHALL BE REMOVED AND RECONSTRUCTED ACCORDING TO THE APPROVED PLAN.
- THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE CITY TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
- THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND THE GREELEY SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL SURVEY MONUMENTS. ANY MONUMENT THAT MUST BE DESTROYED FOR CONSTRUCTION SHALL BE REPLACED. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A PROFESSIONAL LICENSED SURVEYOR (PLS) PRIOR TO DISTURBING ANY MONUMENTS.
- SETBACKS:
150' SETBACK = LOW DENSITY AREAS: WELLHEADS, TANKS, & PRODUCTION EQUIPMENT – TO PUBLIC RIGHT OF WAYS, BUILDINGS, ETC.
200' SETBACK = HIGH DENSITY AREA: WELLHEADS, TANKS, & PRODUCTION EQUIPMENT – TO BUILDINGS

FEMA NOTES:

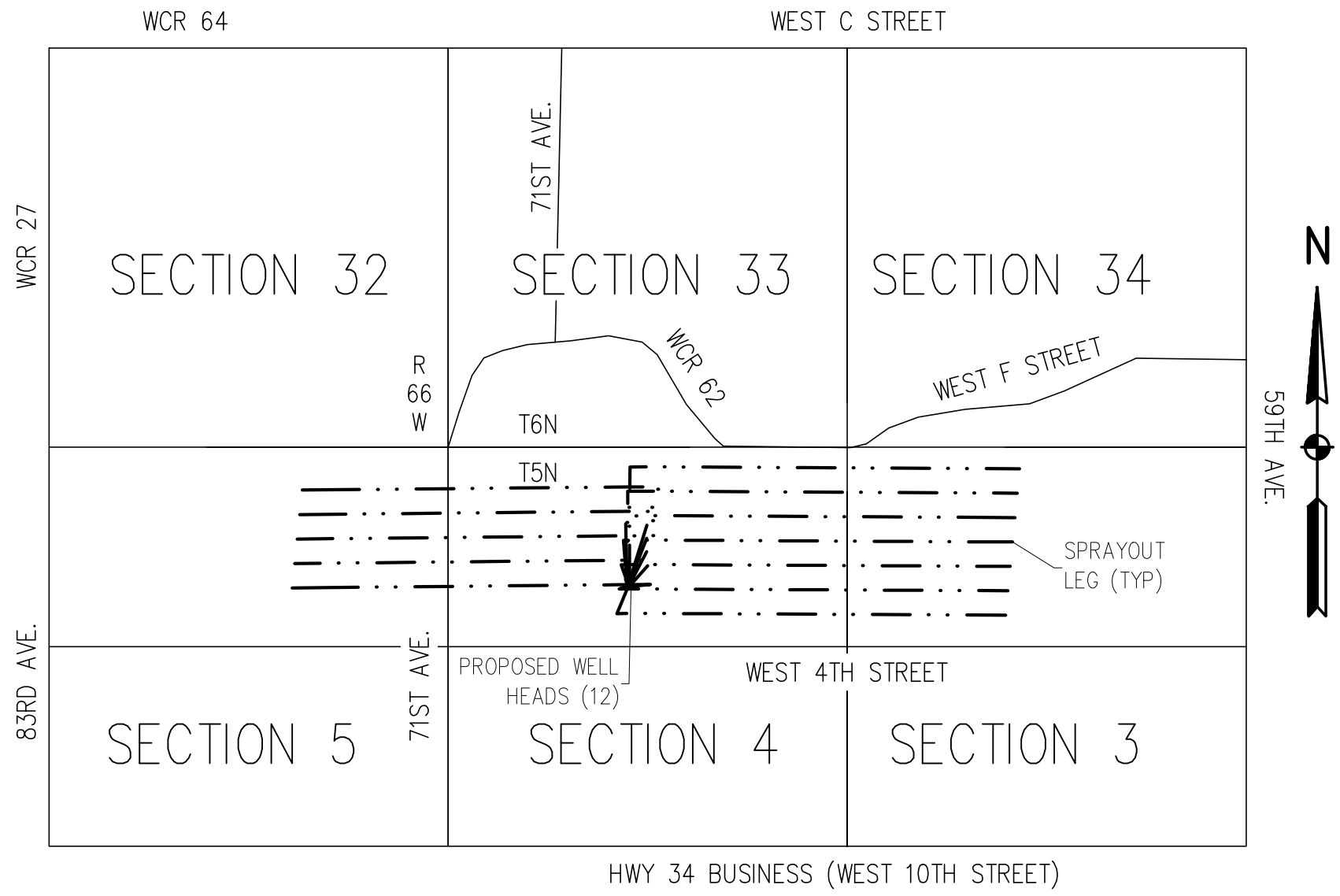
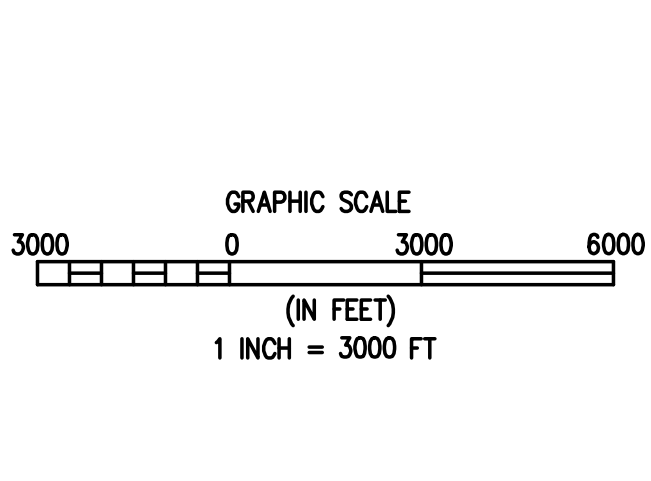
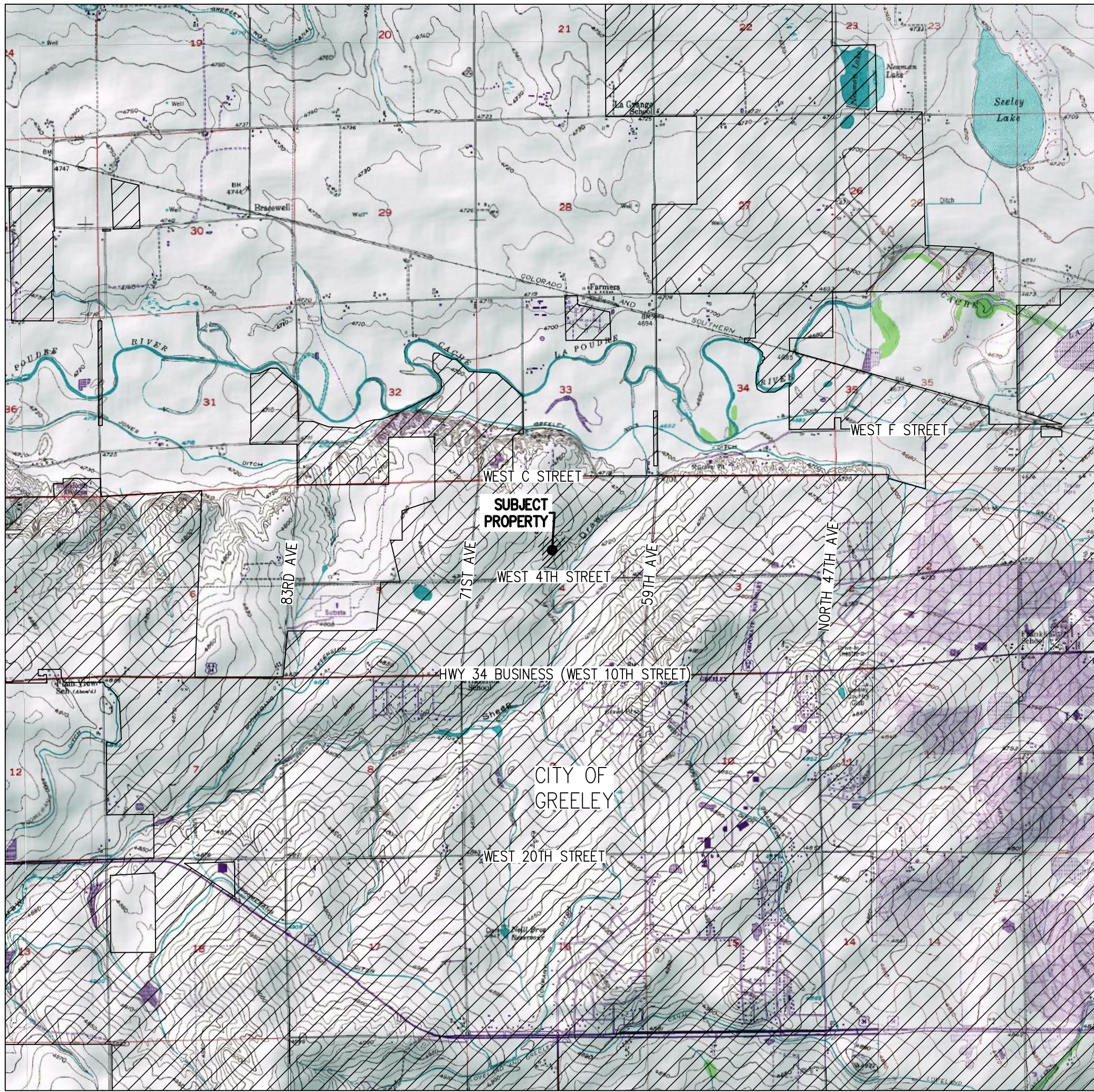
THE SITE IS LOCATED WITHIN ZONE 'C' (AN AREA OF MINIMAL FLOODING), BASED ON THE FLOOD INSURANCE RATE MAP (FIRM) 0802660609C IN WELD COUNTY, CO.

WILDLIFE NOTES:

- THE SITE IS LOCATED WITHIN COLORADO DIVISION OF WILDLIFE AREA 4. THE CONTACT NUMBER FOR THE APPROPRIATE DIVISION OF WILDLIFE OFFICE IS (970) 472-4300.
- BASED ON A GIS SEARCH THROUGH THE COLORADO OIL & GAS CONSERVATION COMMISSION, THE PROPOSED CONSTRUCTION ACTIVITIES WILL NOT TAKE PLACE WITHIN A SENSITIVE WILDLIFE HABITAT AREA NOR WITHIN A RESTRICTED SURFACE OCCUPANCY AREA.
- ACCORDING TO THE CITY OF GREELEY, THIS SITE IS LOCATED WITHIN AREAS OF MODERATE & HIGH ECOLOGICAL SIGNIFICANCE. TO THE MAXIMUM EXTENT PRACTICABLE, ALL DEVELOPMENT PLANS SHALL BE DESIGNED AND ARRANGED TO ENSURE THAT LITTLE OR NO DISTURBANCE SHALL OCCUR TO ANY MODERATE OR HIGH IMPACT AREA IDENTIFIED ON THE AREAS OF ECOLOGICAL SIGNIFICANCE MAP AS A RESULT OF THE DEVELOPMENT. IF ANY DEVELOPMENT GENERATES A DISTURBANCE OR INFLUENCE TO AN IMPACT AREA OR TO A NATURAL FEATURE LOCATED IN AN IMPACT AREA, THE DEVELOPMENT SHALL RESTORE OR REPLACE THE NATURAL RESOURCE EITHER ON THE SITE OR OFF THE SITE IN THE VICINITY AS APPROVED BY THE CITY AFTER NOTICE HAS BEEN PROVIDED TO THE ADJACENT PROPERTY OWNERS. ANY SUCH RESTORATION OR REPLACEMENT SHALL BE EQUIVALENT OR REPLACE THE NATURAL RESOURCE WHICH WAS LOST.

REFER TO THE AREAS OF ECOLOGICAL SIGNIFICANCE REPORT PREPARED BY SAVAGE & SAVAGE DATED 04/08/13.

AMENDED USE BY SPECIAL REVIEW FOR AN OIL AND GAS FACILITY KNOWN AS NORTHRIDGE WELLS
LOCATED IN SECTION 4, TOWNSHIP 5 NORTH, RANGE 66 WEST, 6TH P.M.
AM USR AREA ± 12.5 ACRES
AMENDED USE BY SPECIAL REVIEW - AM USR 1908



SECTION KEY MAP

1"= 2000'

PROPERTY DESCRIPTION

TRACT 1 OF NORTHRIDGE ESTATES LOCATED IN THE NORTH HALF (N 1/2) OF SECTION FOUR (4), TOWNSHIP FIVE (5) NORTH, RANGE SIXTY-SIX (66) WEST OF THE SIXTH (6TH) P.M., CITY OF GREELEY, COUNTY OF WELD, STATE OF COLORADO.

CONTACTS

| | | |
|--|--|---|
| CITY OF GREELEY 1000 10TH ST. GREELEY, CO 80631 | | |
| DEVELOPMENT REVIEW | DEREK GLOSSON ENGINEERING DEVELOPMENT REVIEW MANAGER (970) 350-9798 | ATMOS ENERGY P.O. BOX 1200 GREELEY, CO 80631 (970) 304-2075 JERRY ADAMS |
| FIRE DEPARTMENT | DUANE McDONALD CHIEF 970-350-9515 | XCEL ENERGY 1500 6TH AVE GREELEY, CO 80631 (800) 895-4999 CONTACT TERRY STENCEL |
| FORESTRY DEPARTMENT | SHILOH HATCHER CITY FORESTER (970) 339-2436 | |
| PUBLIC WORKS | JOEL HEMESATH PUBLIC WORKS DIRECTOR (970) 350-9795 | |

SHEET INDEX

- C1 – COVER
- C2 – SITE PLAN
- C3 – DRILLING PHASE GRADING PLAN
- C4 – FINAL GRADING PLAN
- C5 – DRILLING PHASE EROSION CONTROL PLAN
- C6 – FINAL EROSION CONTROL PLAN
- C7 – SCREENING PLAN
- C8 – SCREENING PROFILES
- C9 – LIGHTING & NOISE MITIGATION PLAN
- C10 – DETAILS
- C11 – DETAILS (CONTINUED)
- C12 – DETAILS (CONTINUED)

PREPARED FOR:



DIG SAFELY
BEFORE YOU DIG CALL:
1-800-922-1987
UTILITY NOTIFICATION
CENTER OF COLORADO



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|-------------|-----|
| DESIGNED BY | RAB |
| DRAWN BY | LAJ |
| CHECKED BY | RAB |

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| PREPARED BY | DATE |
| LAJ | 5-28-13 |

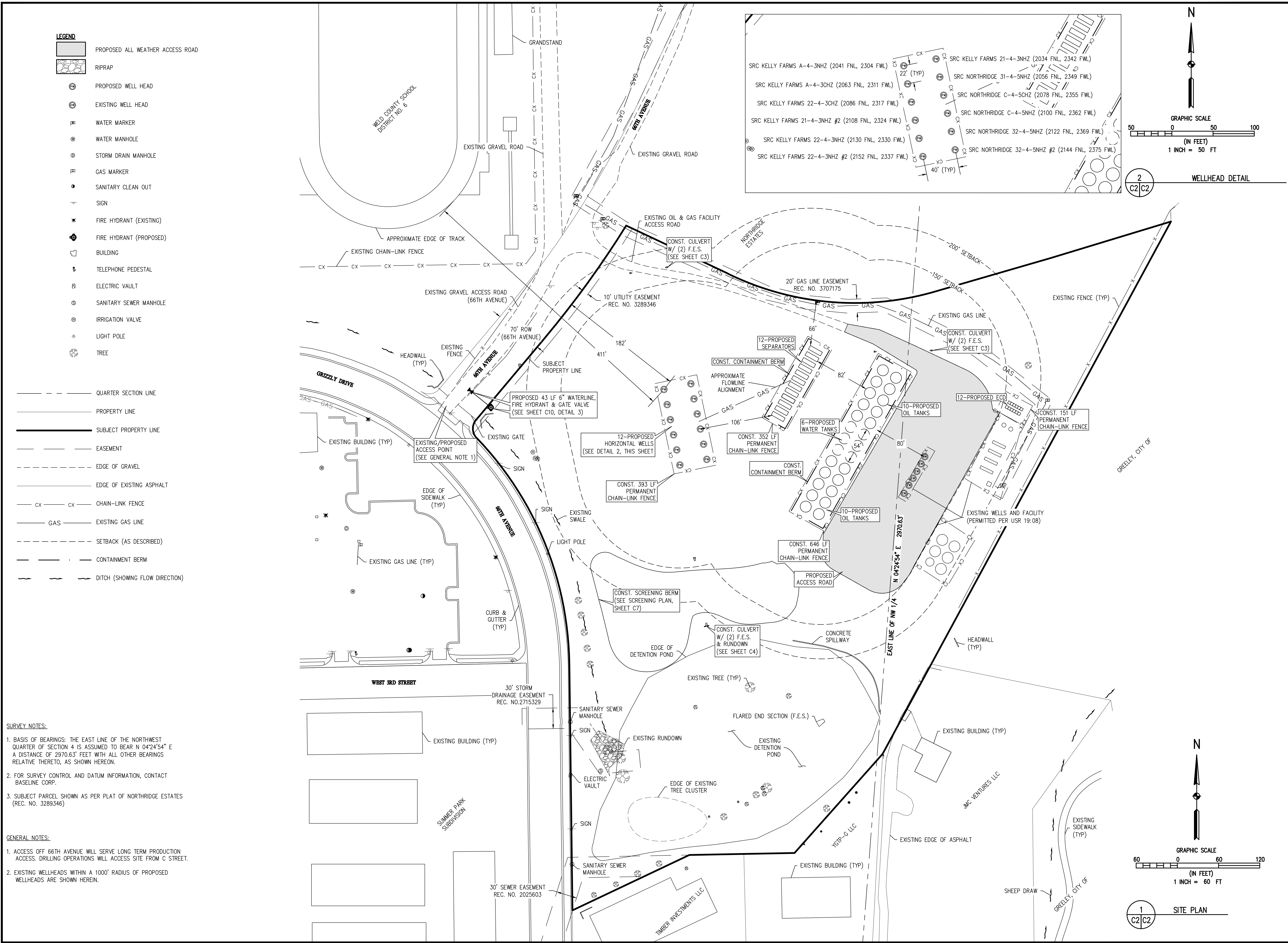
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|-------------------------|------------------------------------|
| SYNERGY RESOURCES CORP. | WELD COUNTY |
| CITY OF GREELEY | NORTHRIDGE WELLS AMENDED USR 19:08 |
| | FRANCIS PROPERTIES LLC |
| | COVER |

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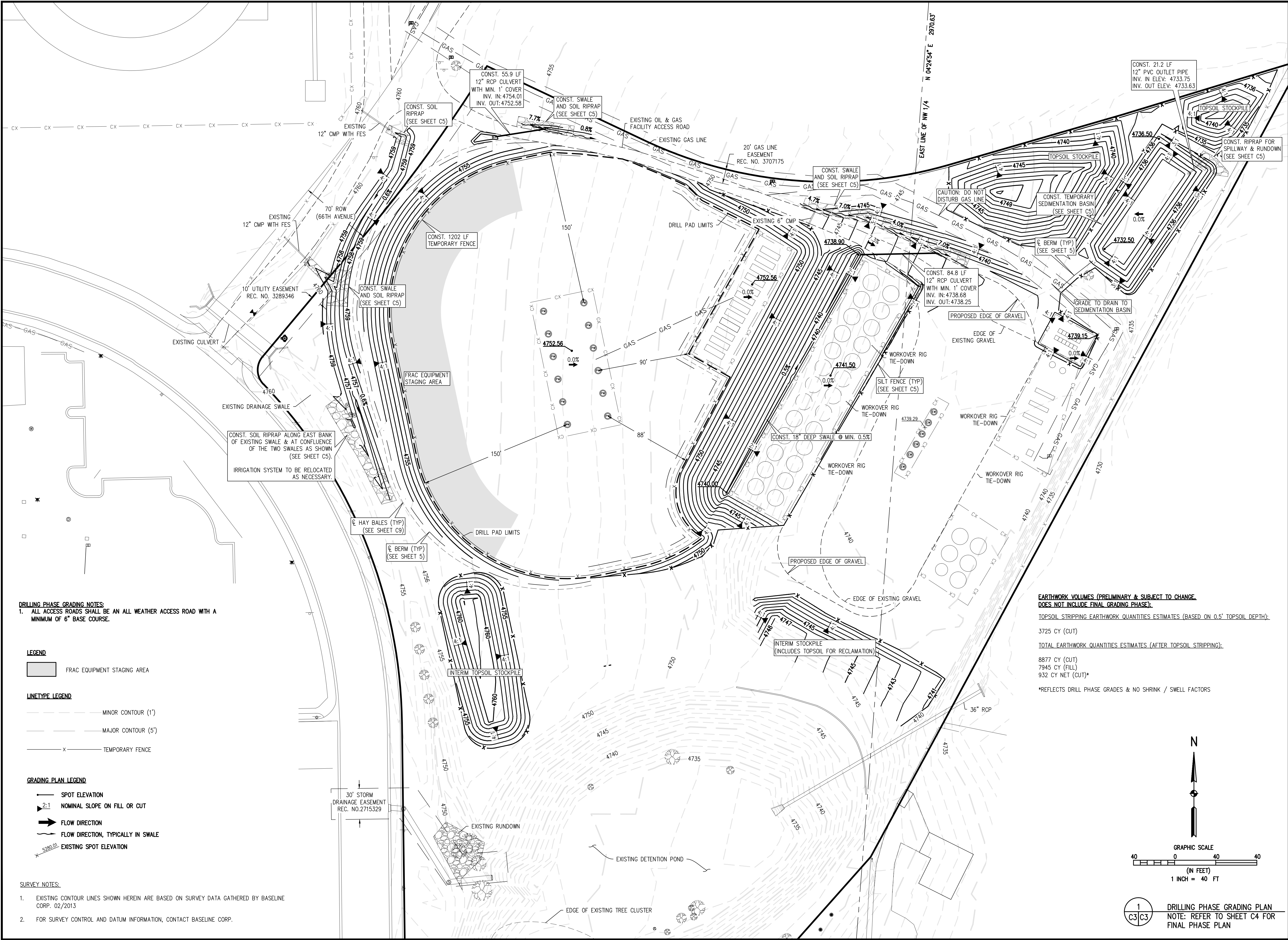
PRELIMINARY

| | |
|--|--------------|
| FOR AND ON BEHALF OF BASELINE CORPORATION | |
| INITIAL SUBMITTAL | 04/08/13 |
| SURVEY SIZE | 24" X 36" |
| SURVEY FIRM | SURVEY DATE |
| BEC | 2/22/2013 |
| JOB NO. | SYNS66W04-02 |
| DRAWING NAME | |
| NORTHRIDGE AM USR | |
| SHEET | 1 OF 12 |



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|  BASELINE Engineering • Planning • Surveying | | DESIGNED BY RAB | |
| | | DRAWN BY LAJ | |
| PREPARED BY LAJ | | DATE 5-28-13 | |
| REVISION DESCRIPTION ADDRESS CITY REVIEW COMMENTS | | CHECKED BY RAB | |
| SYNERGY RESOURCES CORP. NORTH RIDGE WELLS AMENDED USR 19:08 FRANCIS PROPERTIES LLC SITE PLAN | | CITY OF GREELEY WELD COUNTY | |
| PREPARED UNDER THE DIRECT SUPERVISION OF | | | |
| PRELIMINARY | | | |
| FOR AND ON BEHALF OF BASELINE CORPORATION | | DATE 04/08/13 | |
| INITIAL SUBMITTAL DRAWING SIZE 24" x 36" | | SURVEY FIRM BEC | |
| SURVEY DATE 2/22/2013 | | SURVEY DATE 2/22/2013 | |
| JOB NO. SYN26N65W04-02 | | DRAWING NAME NORTH RIDGE AM USR | |
| SHEET 2 | | OF 12 | |

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RAB

DATE
5-28-13

PREPARED BY
LAJ

REVISION DESCRIPTION
ADDRESS CITY REVIEW COMMENTS

DRAWN BY
LAJ

CHECKED BY
RAB

SYNERGY RESOURCES CORP.

CITY OF GREELEY

WELD COUNTY

NORTHDRIDGE WELLS AMENDED USR 19:08

FRANCIS PROPERTIES LLC

DRILLING PHASE GRADING PLAN

FOR AND ON BEHALF OF
BASELINE CORPORATION

INITIAL SUBMITTAL 04/08/13

DRAWING SIZE 24" X 36"

SURVEY FIRM BEC

SURVEY DATE 2/22/2013

JOB NO. SYN5N66W04-02

DRAWING NAME NORTHDRIDGE AM USR

SHEET 3 OF 12

PRELIMINARY

1
C3/C3

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- FINAL GRADING NOTES:**
1. ALL DISTURBED AREAS MUST BE TOPPED WITH TOPSOIL & RE-VEGETATED BY SEEDING WITH NATIVE DRY LAND GRASS SEED.
 2. ALL ACCESS ROADS SHALL BE AN ALL WEATHER ACCESS ROAD WITH A MINIMUM OF 6" BASE COURSE.

LINETYPE LEGEND

- MINOR CONTOUR (1')
- MAJOR CONTOUR (5')
- TEMPORARY FENCE

GRADING PLAN LEGEND

- SPOT ELEVATION
- FG = FINISH GRADE
- FL = FLOWLINE
- 2:1 NOMINAL SLOPE ON FILL OR CUT
- FLOW DIRECTION
- FLOW DIRECTION, TYPICALLY IN SWALE
- EXISTING SPOT ELEVATION

SURVEY NOTES:

1. EXISTING CONTOUR LINES SHOWN HEREIN ARE BASED ON SURVEY DATA GATHERED BY BASELINE CORP. 02/2013
2. FOR SURVEY CONTROL AND DATUM INFORMATION, CONTACT BASELINE CORP.

30' STORM
DRAINAGE EASEMENT
REC. NO.2715329

CONST. SOIL RIPRAP RUNDOWN
FROM CULVERT OUTLET TO
BOTTOM OF EXISTING POND.
RUNDOWN BOTTOM WIDTH=4' &
MIN. DEPTH=1'.
(SEE SHEET C6)

CONST. 102 LF 18" RCP
W/CUT OFF WALL
(SEE DETAIL 1 SHEET C12)
W/2) F.E.S.
IN/IN=4749.1
IN/OUT=4747.0
2.0% SLOPE

SCREENING BERM
MIN. ELEV. = 4758
(INCLUDES TOPSOIL
FOR RECLAMATION)

PROVIDE STRAW WATTLES
(SEE SHEET C6)

CONST. FINAL GRADING OF
DRILL PAD AS SHOWN TO
ENSURE POSITIVE DRAINAGE
OFF PAD

CONST. SOIL RIPRAP PROTECTION
FROM PAD TO ROADSIDE DITCH
(SEE SHEET C6)

20' GAS LINE
EASEMENT
REC. NO. 3707175

EAST LINE OF NW 1/4 N 042°54' E 2970.63'

**EARTHWORK VOLUMES (PRELIMINARY & SUBJECT TO CHANGE.
DOES NOT INCLUDE VOLUMES OF TOPSOIL THAT WILL BE SPREAD TO RECLAIM/
RE-VEGETATE DISTURBED AREAS):**

TOPSOIL STRIPPING EARTHWORK QUANTITIES ESTIMATES (BASED ON 0.5' TOPSOIL DEPTH):

49 CY (CUT)

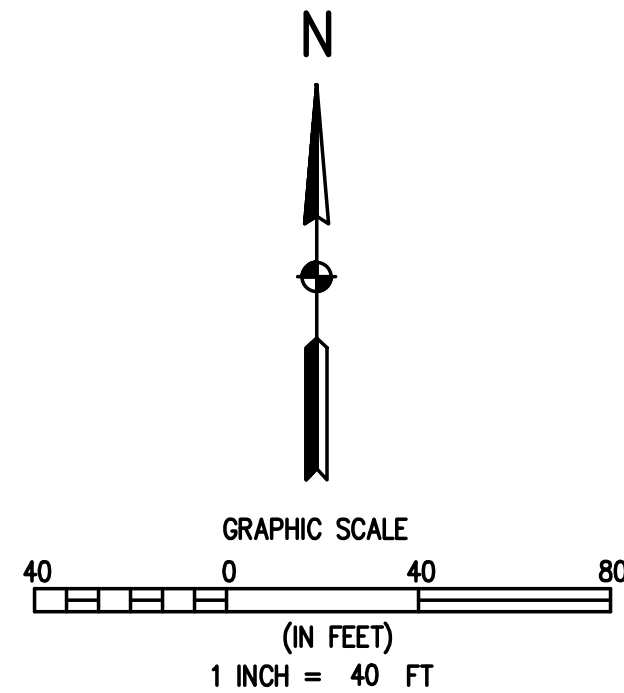
TOTAL EARTHWORK QUANTITIES ESTIMATES (AFTER TOPSOIL STRIPPING):

4269 CY (CUT)

4222 CY (FILL)

47 CY NET (CUT)*

*REFLECTS FINAL GRADING & NO SHRINK / SWELL FACTORS



1
C4/C4

FINAL GRADING PLAN

SYNERGY RESOURCES CORP.

CITY OF GREELEY WELD COUNTY
NORTHRIDGE WELLS AMENDED USR 19:08
FRANCIS PROPERTIES LLC
FINAL GRADING PLAN

PREPARED UNDER THE DIRECT
SUPERVISION OF

PRELIMINARY

FOR AND ON BEHALF OF
BASELINE CORPORATION

INITIAL SUBMITTAL 04/06/13

DRAWING SIZE 24" X 36"

SURVEY FIRM BEC SURVEY DATE 2/22/2013

JOB NO. SYN5N66W04-02

DRAWING NAME NORTHRIDGE AM USR

SHEET 4 OF 12

C4

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DATE 5-14-13
PREPARED BY C. RUNDALL
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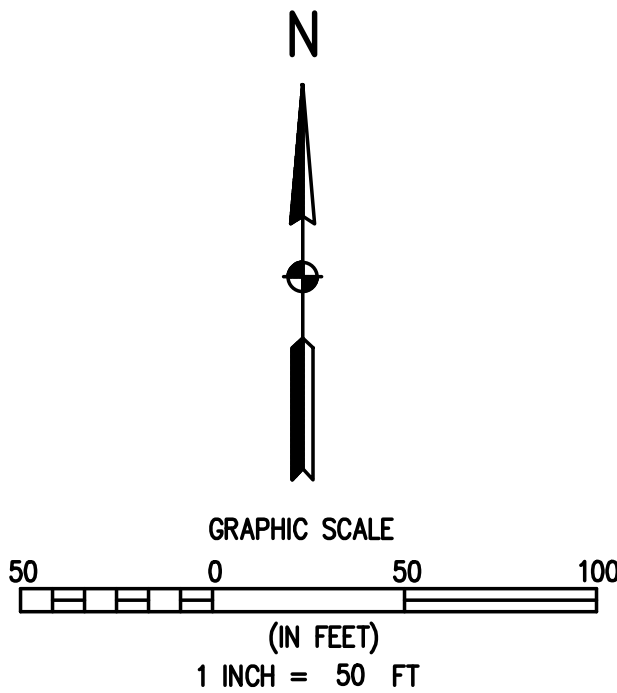
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LEGEND

— X — X — SILT FENCE
— — — — — BERM

(VTC) VEHICLE TRACKING CONTROL (SEE SHEET C10, DETAIL 12-1)
(ECB) EROSION CONTROL BLANKET (SEE SHEET C11, DETAIL EC-6)
(PS) PERMANENT SEEDING
) STRAW WATTLE (SEE SHEET C11, DETAIL 1)
[Hatched Area] AREAS TO BE RE-VEGETATED



1
C3/C6 FINAL EROSION CONTROL PLAN

SYNERGY RESOURCES CORP.

CITY OF GREELEY

WELD COUNTY

NORTHBRIDGE WELLS AMENDED USR 19:08

FRANCIS PROPERTIES LLC

FINAL EROSION CONTROL PLAN

FOR AND ON BEHALF OF
BASELINE CORPORATION

INITIAL SUBMITTAL 04/06/13

DRAWING SIZE 24" X 36"

SURVEY FIRM BEC SURVEY DATE 2/22/2013

JOB NO. SYNS66W04-02

DRAWING NAME NORTHBRIDGE AM USR

SHEET 6 OF 12

PRELIMINARY

C6

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DESIGNED BY DATE

LAJ 5-28-13

REVIEW COMMENTS

LAJ

DESIGNED BY DATE

LAJ

REVIEW COMMENTS

LAJ

SCREENING NOTES:

1. BUFFER YARD "A" IS 10 FEET WIDE WITH TREES EVERY 40 FEET
2. ALL TREES WILL MEASURE BETWEEN 8 - 10 FEET IN HEIGHT WITH A MINIMUM 2 INCH CALIPER AT THE TIME OF INSTALLATION
3. STREET TREE SPACING IS 35 FEET
4. THE DEVELOPER AGREES TO PLANT A TOTAL OF SEVENTEEN (17) TREES, AT THEIR SOLE EXPENSE, WITHIN THE SHEEP DRAW OPEN SPACE AS DEPICTED ON THE ATTACHED LANDSCAPE PLAN. THE TREES SHALL BE PLANTED PRIOR TO THE DRILLING OF ANY WELLS AND WITH THE CITY FORESTERS GUIDANCE. CONTACT THE CITY FORESTER AT (970) 339-2436 TO GO OVER ACCEPTABLE PLANTING METHODS.

ACCESS TO THE SHEEP DRAW OPEN SPACE WILL BE FROM THE EXISTING ACCESS ROAD LOCATED ON THE DEVELOPERS PROPERTY. THE ACCESS ROAD SHALL REMAIN ACCESSIBLE AND SHALL PROVIDE SUFFICIENT STRENGTH TO SUPPORT THE WATERING TRUCK.

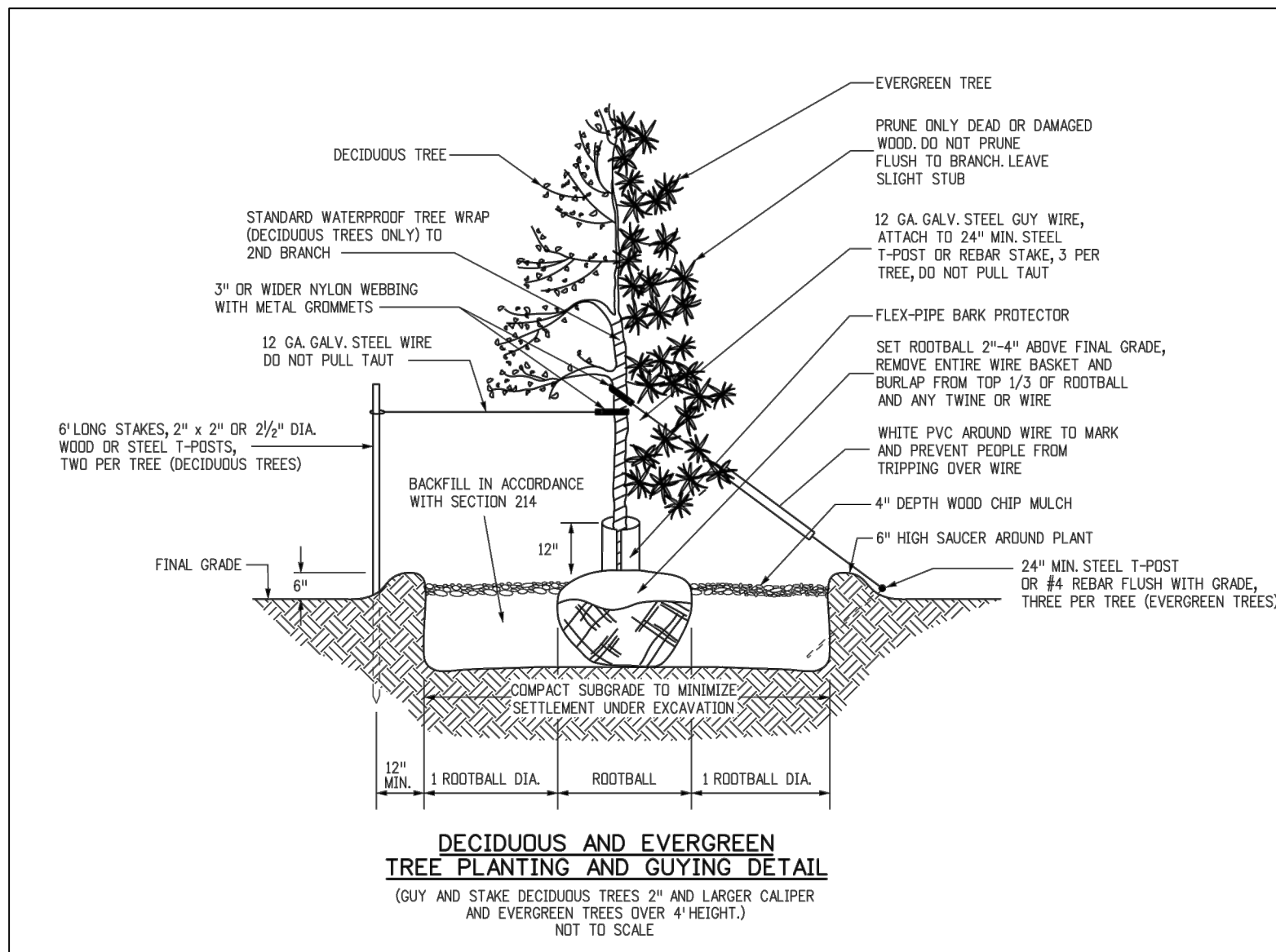
THE DEVELOPER WILL BE RESPONSIBLE FOR PROVIDING A MINIMUM OF FIFTEEN (15) GALLONS OF WATER PER TREE EVERY OTHER WEEK DURING THE MONTHS OF MAY THROUGH SEPTEMBER AND ONCE A MONTH FROM OCTOBER TO APRIL. ADDITIONAL WATERING MAY BE REQUIRED AS DETERMINED BY THE CITY OR OTHER QUALIFIED CONSULTANT TO MAINTAIN HEALTHY GROWTH AND ESTABLISHMENT OF THE TREES. THE FULL WATER VOLUME SHALL BE CONTAINED AROUND THE TRUNK OF THE TREE AND ALLOWED TO INFILTRATE THE SOIL. THE TREES MAY BE HAND WATERED BY THE DEVELOPER.

THE DEVELOPER IS RESPONSIBLE FOR THE MAINTENANCE OF THE SEVENTEEN (17) TREES FOR THREE YEARS FROM THE DATE OF CITY INITIAL ACCEPTANCE. IT SHALL BE THE DEVELOPER'S RESPONSIBILITY TO REPLACE ANY TREES THAT DIE OR ARE DETERMINED BY THE CITY TO BE IN POOR HEALTH WITHIN THE MAINTENANCE PERIOD AT THEIR SOLE COST.

IN THE EVENT THE TITLE OF SAID PROPERTY IS TRANSFERRED, THEN THE SUCCEEDING PROPERTY OWNER SHALL BE BOUND BY THE TERMS OF THIS AGREEMENT UNTIL THE THREE (3) YEAR MAINTENANCE PERIOD HAS EXPIRED AND THE CITY HAS ACCEPTED THE IMPROVEMENTS.

LEGEND

| | | | |
|--|----------------------------|--|------------------------------|
| | PROPOSED CONCRETE PAVEMENT | | SECTION LINE |
| | RIPRAP | | PROPERTY LINE |
| | PROPOSED WELL HEAD | | SUBJECT PROPERTY LINE |
| | EXISTING WELL HEAD | | WCR RIGHT-OF-WAY |
| | WATER MARKER | | EASEMENT |
| | GAS MARKER | | EDGE OF EXISTING GRAVEL ROAD |
| | GUY WIRE | | CHAIN LINK FENCE |
| | POWER POLE | | GAS LINE |
| | SIGN | | MINOR CONTOUR (1') |
| | | | MAJOR CONTOUR (5') |
| | | | DITCH |
| | | | BUFFER YARD |



2
C7/C7 TREE PLANTING DETAIL

| MATERIALS SCHEDULE | | |
|--------------------|--------|--------------------|
| TYPE | SYMBOL | PROPOSED PLANTINGS |
| AUSTRIAN PINE | | 38 |
| RED OAK | | 6 |
| AMERICAN LINDEN | | 6 |
| PLAINS COTTONWOOD | | 17 |
| TOTAL | | 67 |

RECLAMATION PLAN

AFTER THE PRODUCTION SITE IS EXHAUSTED, IT WILL THEN BE PLUGGED & ABANDONED. TO BE CONSIDERED PLUGGED & ABANDONED, THE WELL WILL BE PLUGGED & CAPPED, AND THE TANK BATTERY WILL BE REMOVED. THE PRODUCTION SITE WILL THEN BE RECLAIMED BY REMOVING THE WELL PAD & ASSOCIATED ACCESS ROAD SO THAT THE DISTURBED SOILS CAN BE CONTOURED TO THE EXISTING SURROUNDING TERRAIN. STOCKPILED TOP SOIL WILL BE DISTRIBUTED ALONG WITH SEEDING ACROSS THE DISTURBED SOIL AREA IN ORDER TO REESTABLISH VEGETATION COVERAGE.

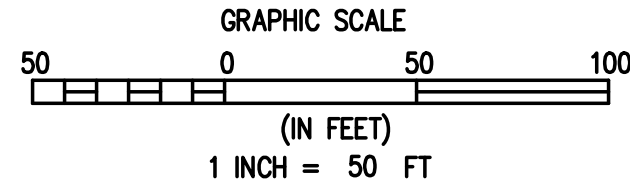
WATERING AND MAINTENANCE PLAN:

MAY THROUGH SEPTEMBER: THE DEVELOPER SHALL PROVIDE A MINIMUM OF FIFTEEN (15) GALLONS OF WATER PER TREE EVERY OTHER WEEK.

OCTOBER TO APRIL: THE DEVELOPER SHALL PROVIDE A MINIMUM OF FIFTEEN (15) GALLONS OF WATER PER TREE ONCE PER MONTH.

ADDITIONAL WATERING MAY BE REQUIRED AS DETERMINED BY THE DEVELOPER OR OTHER QUALIFIED CONSULTANT TO MAINTAIN HEALTHY GROWTH AND ESTABLISHMENT OF THE TREES. THE FULL WATER VOLUME SHALL BE CONTAINED AROUND THE TRUNK OF THE TREE AND ALLOWED TO INFILTRATE THE SOIL. THE TREES MAY BE HAND WATERED BY THE DEVELOPER.

THE DEVELOPER OR OTHER QUALIFIED CONSULTANT WILL VISUALLY INSPECT THE TREES FOR PROBLEMS SUCH AS DECAY, CRACKING, DEAD BRANCHES, PEELING BARK, INSECT INFESTATION, ETC.



1
C7/C7 SCREENING PLAN

SYNERGY RESOURCES CORP.

CITY OF GREELEY
WELD COUNTY
NORTHTRIDGE WELLS AMENDED USR 19:08
FRANCIS PROPERTIES LLC
SCREENING PLAN

PRELIMINARY

FOR AND ON BEHALF OF
BASELINE CORPORATION
INITIAL SUBMITTAL 04/08/13
DRAWING SIZE 24" x 36"
SURVEY FIRM SURVEY DATE
BEC 2/22/2013
JOB NO. SYN5N6W04-02
DRAWING NAME
NORTHTRIDGE AM USR
SHEET 7 OF 12
C7

REVISION DESCRIPTION

PREPARED BY

DATE

DESIGNED BY

RAB

DRAWN BY

LAJ

CHECKED BY

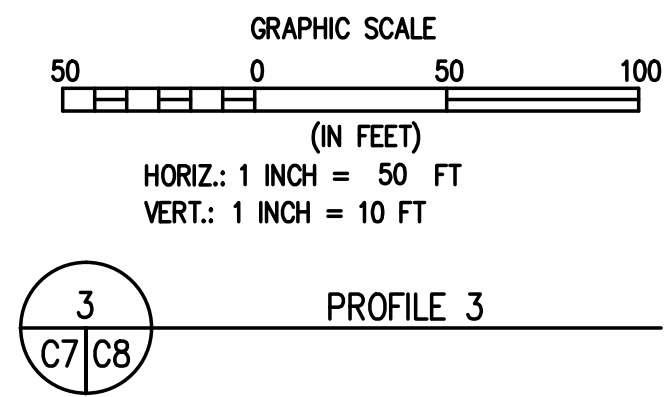
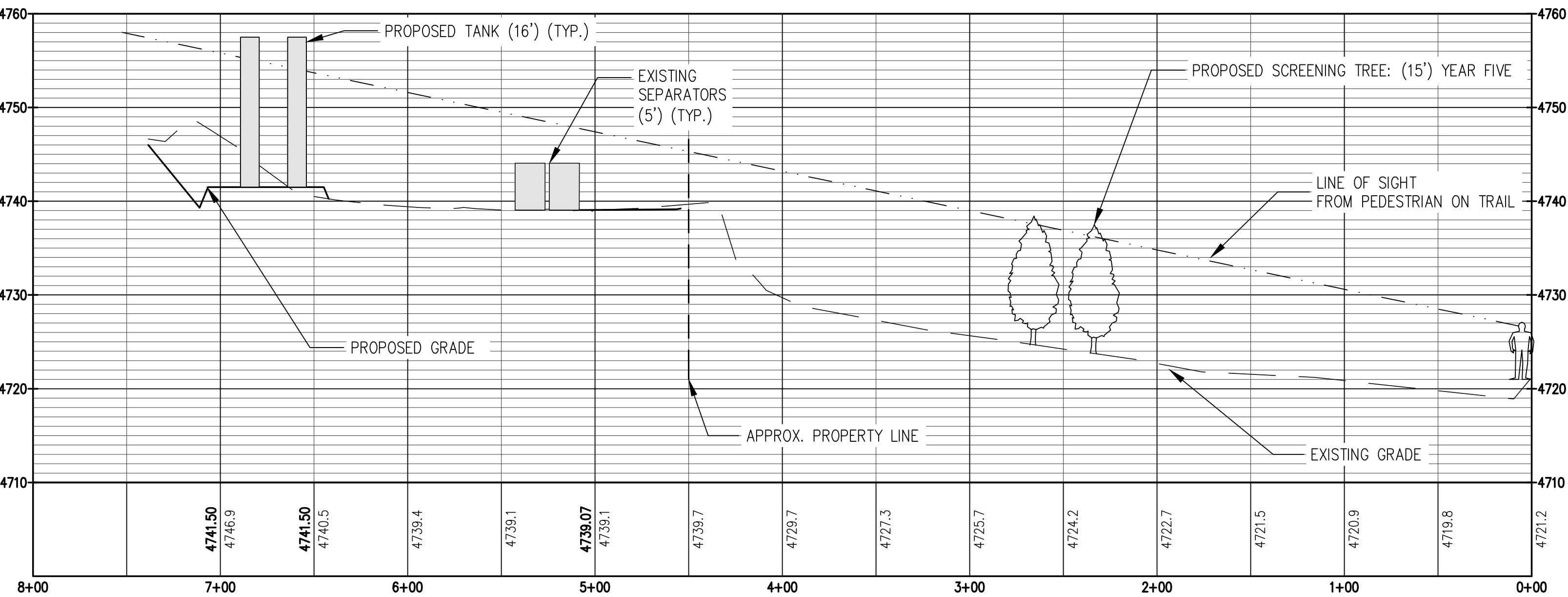
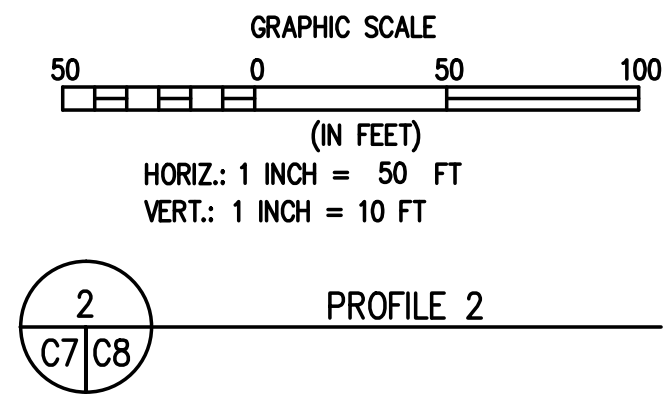
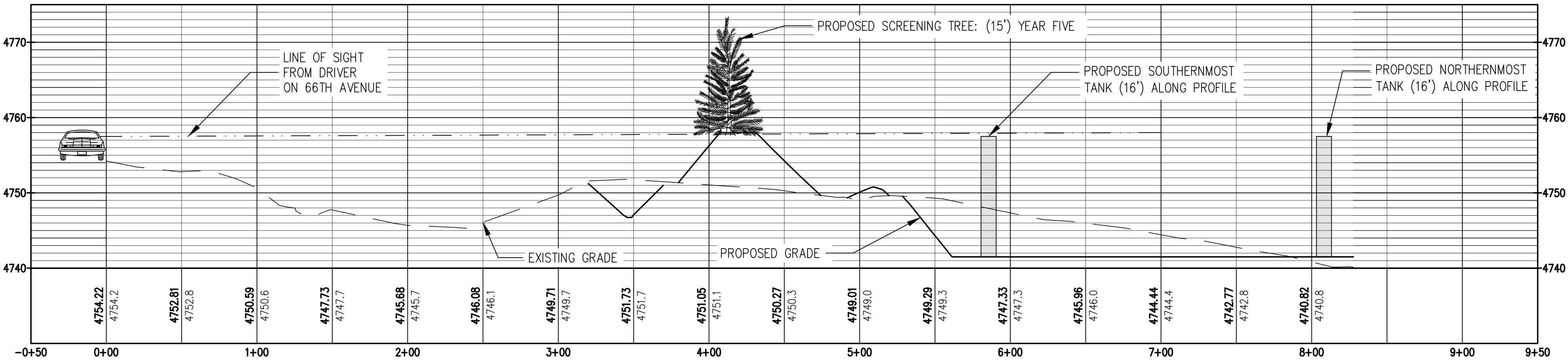
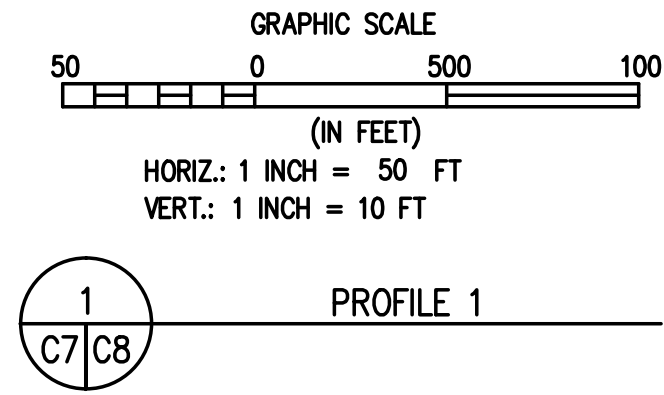
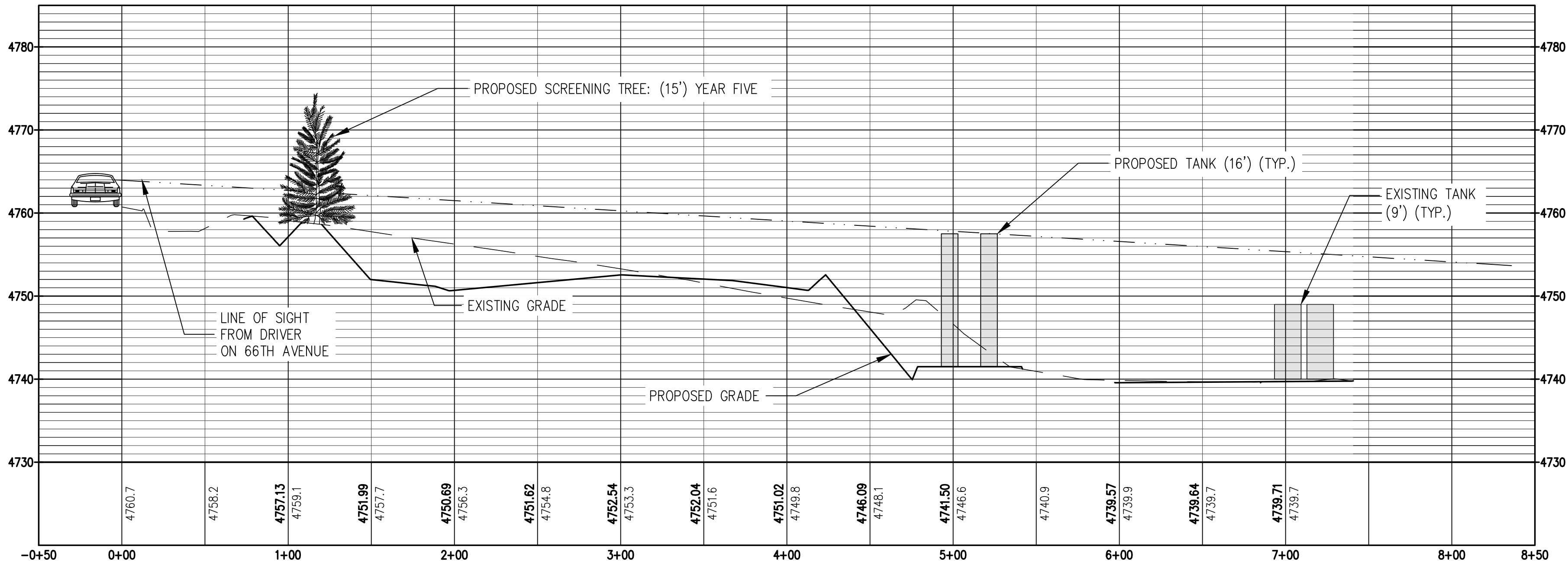
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RAB

DRAWN BY
LAJ

CHECKED BY
RAB

DATE

PREPARED BY

REVISION DESCRIPTION

SYNERGY RESOURCES CORP.

CITY OF GREELEY

WELD COUNTY

NORTHDRIDGE WELLS AMENDED USR 19:08

FRANCIS PROPERTIES LLC

SCREENING PROFILES

FOR AND ON BEHALF OF
BASELINE CORPORATION

INITIAL SUBMITTAL 04/08/13

DRAWING SIZE 24" X 36"

SURVEY FIRM BEC

SURVEY DATE 2/22/2013

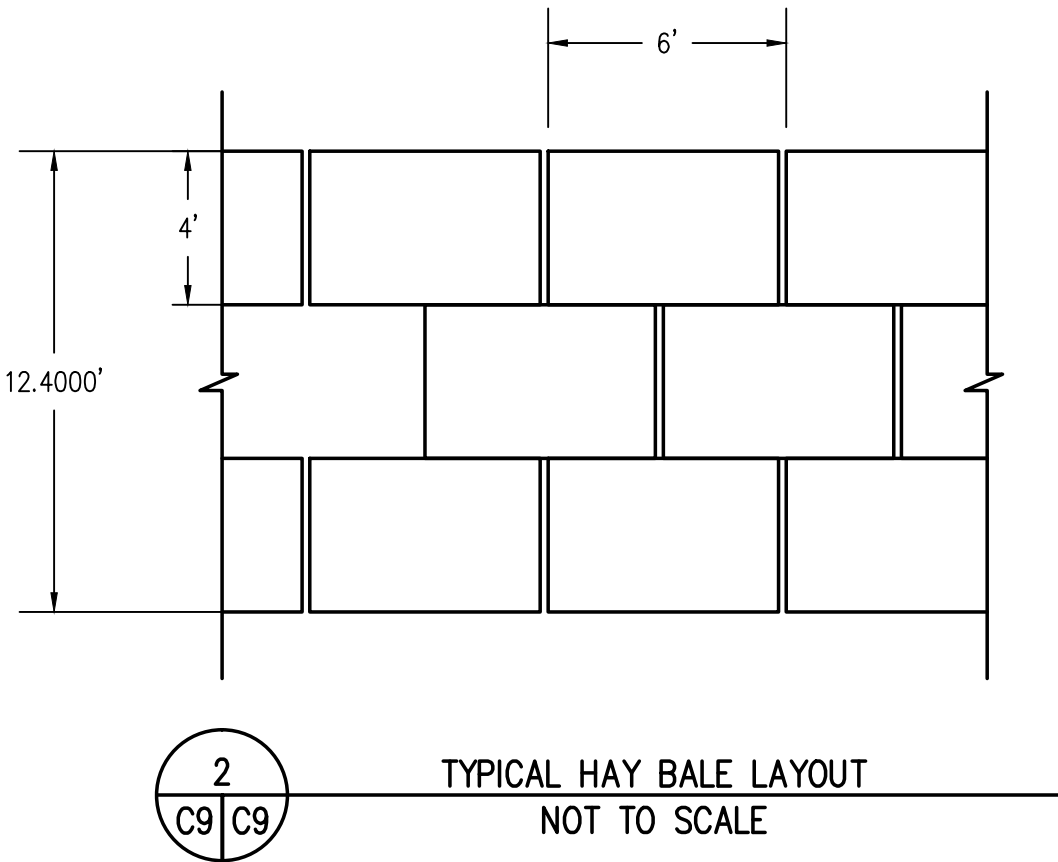
JOB NO. SYN5N65W04-02

DRAWING NAME NORTHDRIDGE AM USR

SHEET 8 OF 12

PRELIMINARY

M:\cso - Well Head Staking\SYNS66W04-02 Francis Northridge Wells\USR Drawings\Northridge AM USR 6-20-13.dwg, 6/20/2013 11:05:43 AM, Joyme Hobin



3
C9/C9

LIGHTING AND NOISE MITIGATION PLAN
NOT TO SCALE

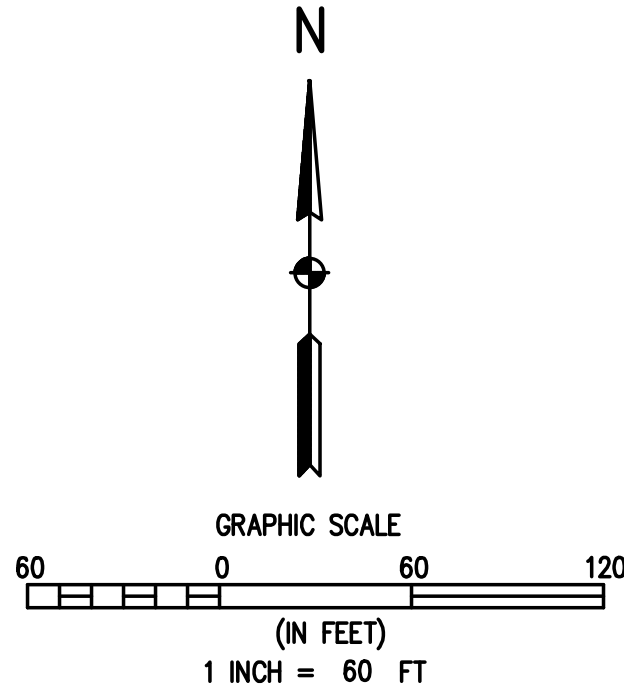
LIGHTING NOTES:

LIGHTING ON THE SITE WILL BE DOWNCAST AND SHIELDED, AND WILL BE LOCATED IN THE TANK BATTERY AREA. LIGHTING IS FOR NIGHTTIME, SECURITY, AND EMERGENCY WORK ONLY. ANY SOURCE OF LIGHTING ON THE SITE SHALL BE DIRECTED AWAY FROM RESIDENTIAL AREAS OR SHIELDED FROM SAID AREAS TO ELIMINATE GLARE. IN ADDITION, NEITHER DIRECT NOR REFLECTED LIGHT FROM ANY LIGHT SOURCE ON SITE WILL CREATE A TRAFFIC HAZARD TO OPERATORS OF MOTOR VEHICLES ON THE ADJACENT ACCESS ROAD OR PUBLIC ROADS.



LEGEND

PROPOSED STACKED HAY BALE

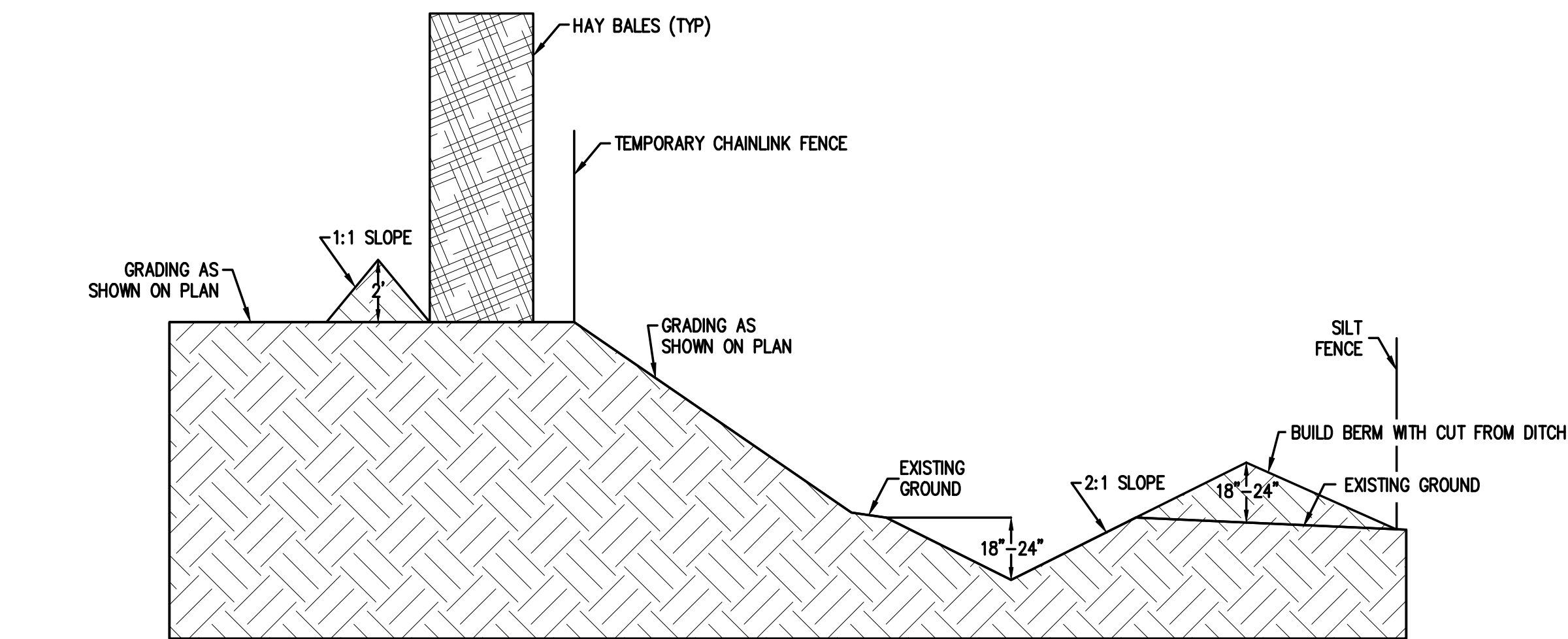


1
C3/C9

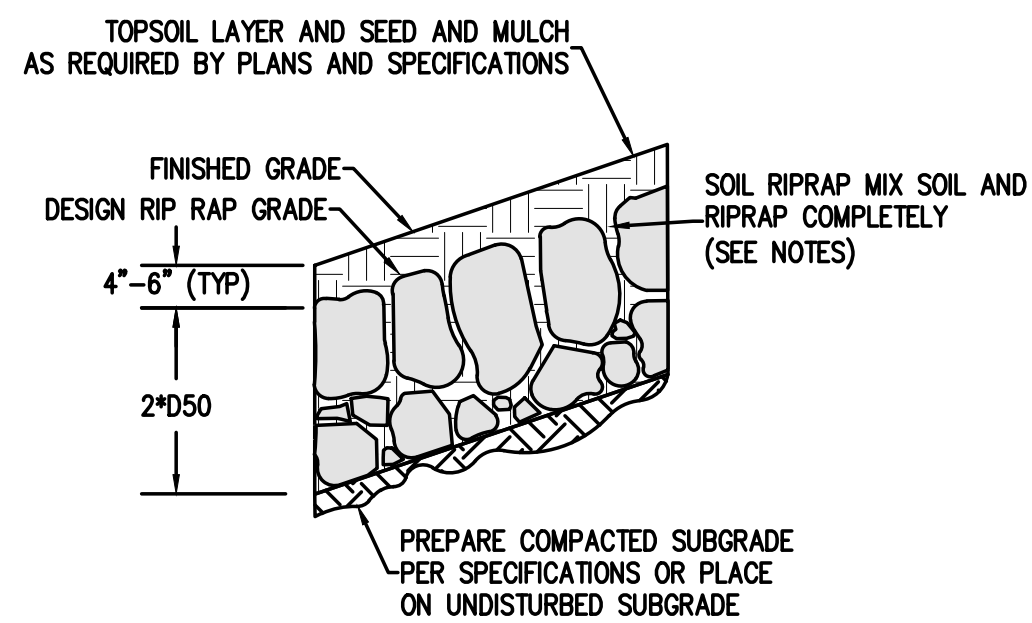
LIGHTING & NOISE MITIGATION PLAN

| | |
|--|--|
| BASELINE Engineering · Planning · Surveying 70 11TH AVENUE SUITE 105 · GREELEY COLORADO 80631 P. 970.553.7800 · F. 970.553.7801 · www.baselinecorp.com | |
| DESIGNED BY RAB | DATE 5-28-13 |
| DRAWN BY LAJ | PREPARED BY LAJ |
| CHECKED BY RAB | REVISION DESCRIPTION ADDRESS CITY REVIEW COMMENTS |
| SYNERGY RESOURCES CORP. WELD COUNTY NORTHDRIDGE WELLS AMENDED USR 19:08 FRANCIS PROPERTIES LLC LIGHTING & NOISE MITIGATION PLAN | |
| CITY OF GREELEY PREPARED UNDER THE DIRECT SUPERVISION OF PRELIMINARY | |
| FOR AND ON BEHALF OF BASELINE CORPORATION | |
| INITIAL SUBMITTAL 04/06/13 | DRAWING SIZE 24" X 36" |
| SURVEY FIRM BEC | SURVEY DATE 2/22/2013 |
| JOB NO. SYNS66W04-02 | DRAWING NAME NORTHDRIDGE AM USR |
| SHEET 9 | OF 12 |
| C9 | |

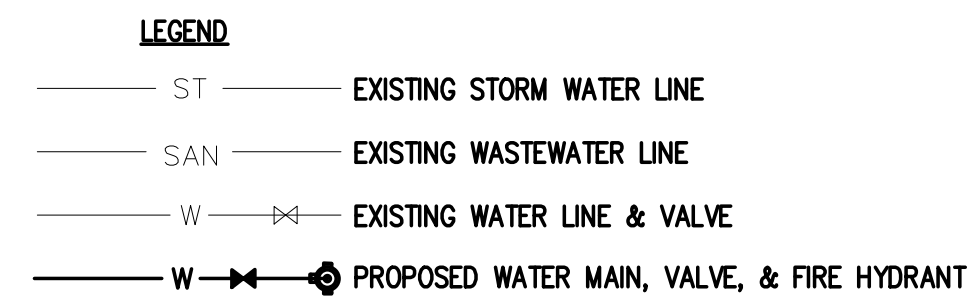
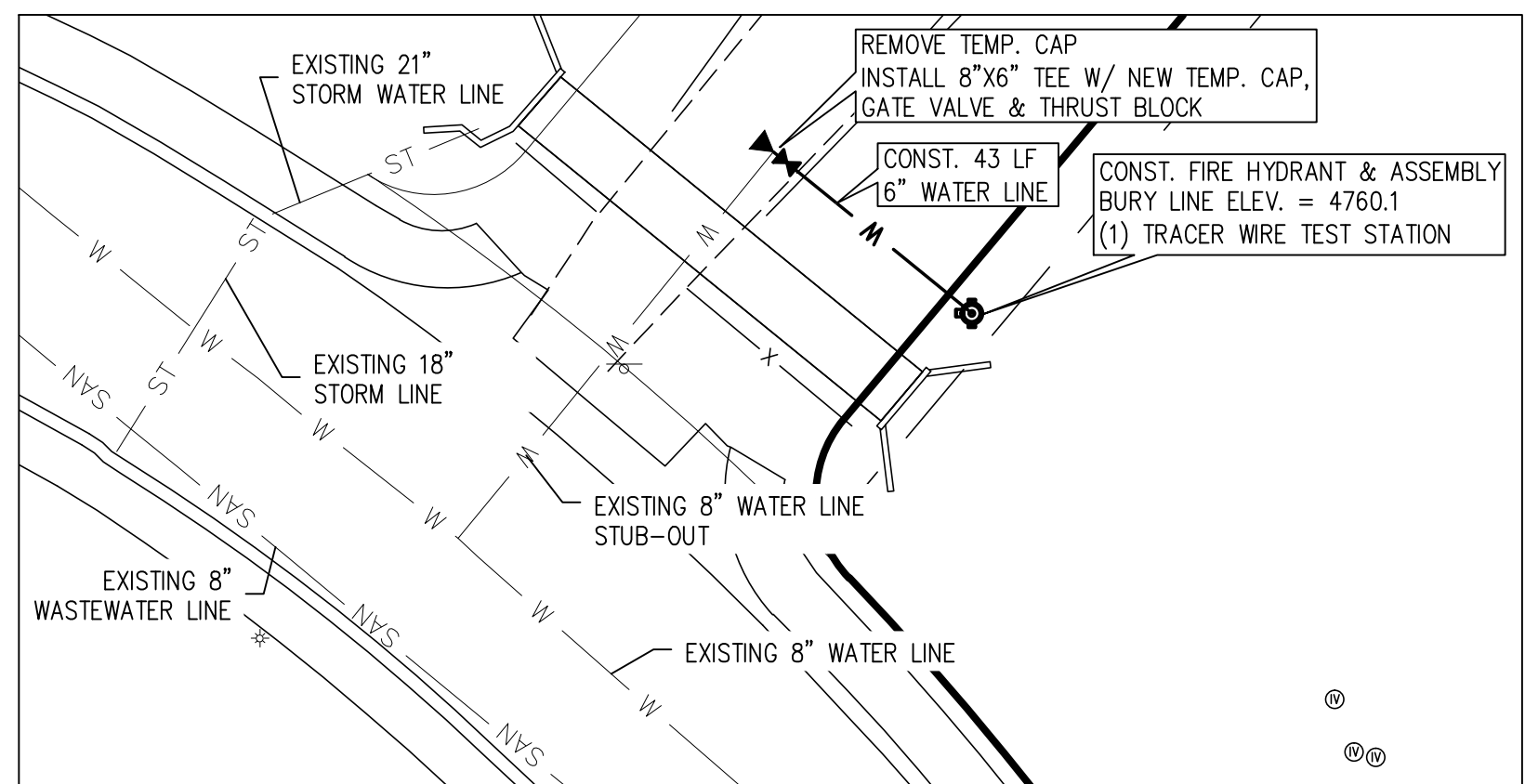
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1
C5 C10
DITCH & BERM SYSTEM
NOT TO SCALE



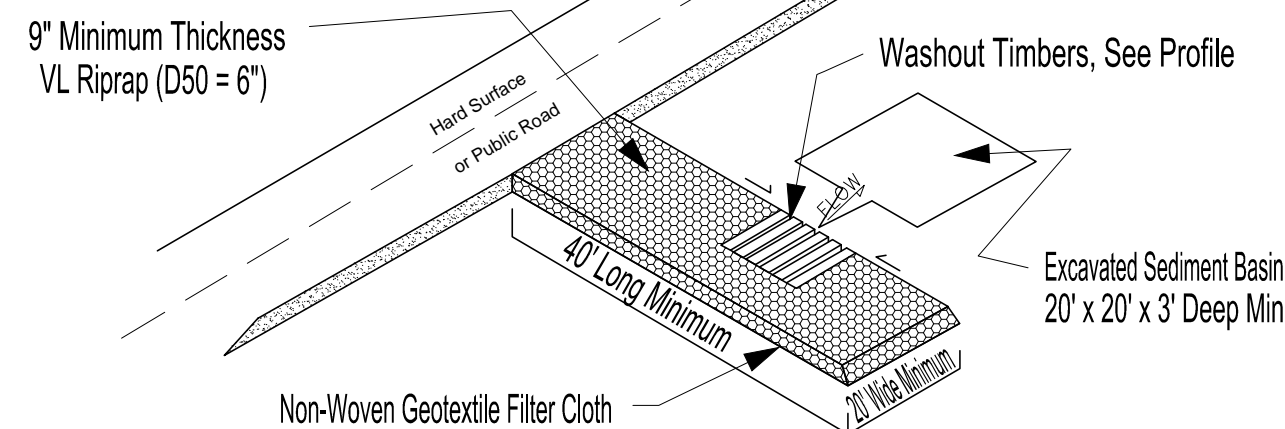
2
C5 C10
TYPICAL SECTION SOIL RIPRAP WITH MULCH
(NOT TO SCALE)



3
C2 C10
FIRE HYDRANT DETAIL
NOTE: REFER TO ALL DETAILS ON SHEET C12

VTC/WHEEL WASHOUT PLAN

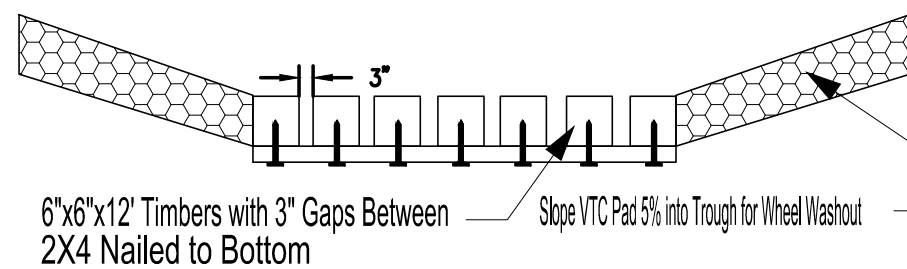
(VTC = VERTICAL TRACKING CONTROL)



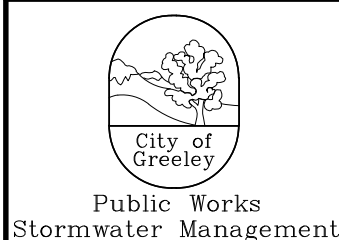
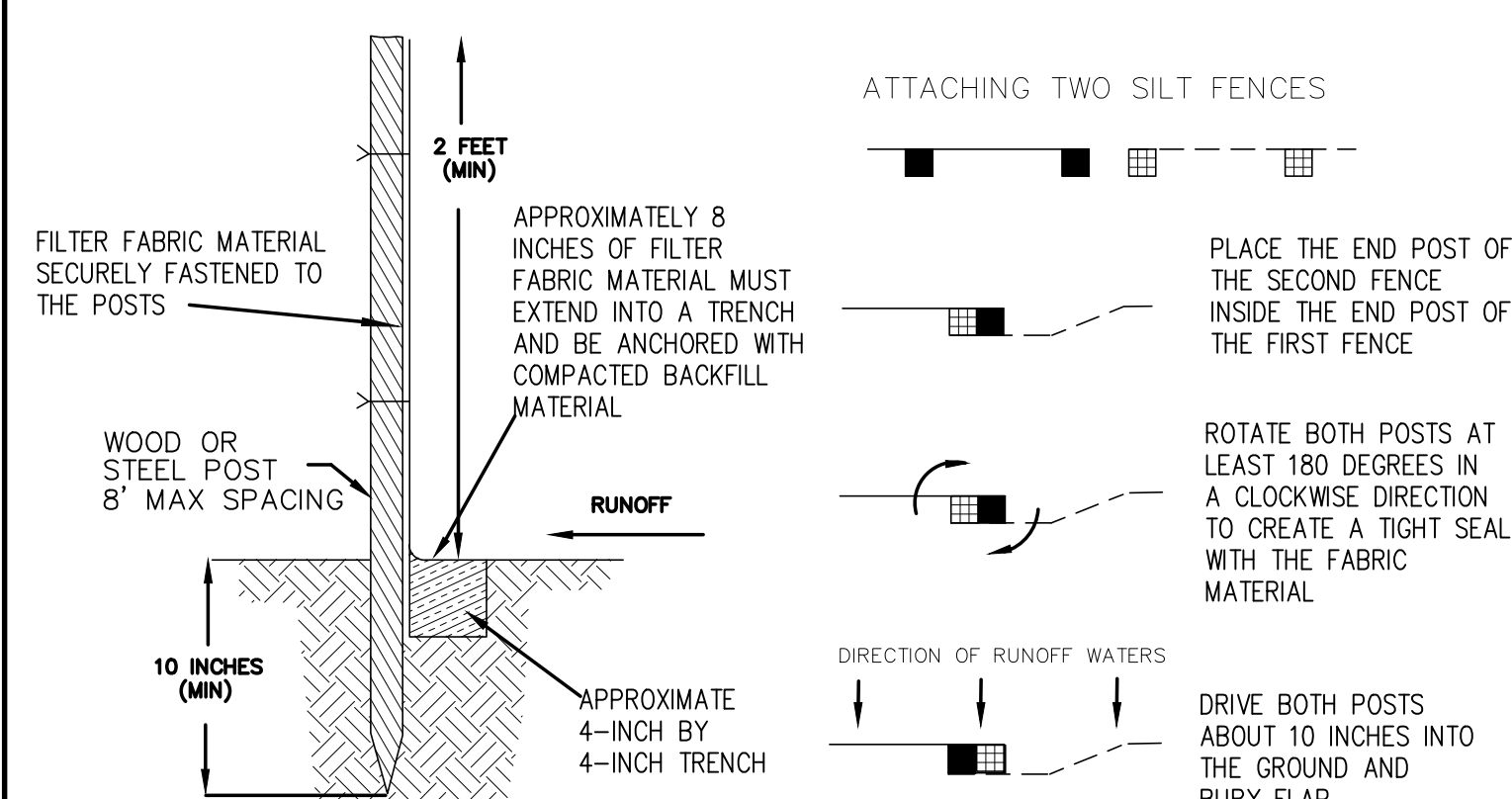
NOTES:

- CONTRACTOR TO SUPPLY WASH WATER
- WASHOUT BASIN TO BE ISOLATED FROM STORM SYSTEM
- VTC PAD RIP RAP TO BE CLEANED OF MUD AFTER RAIN EVENTS
- PUBLIC ROADS TO BE CLEANED OF DEBRIS AT THE END OF EACH DAYS WORK OR AFTER RAIN EVENTS, AS NEEDED.
- WHEEL WASHOUT TIMBERS REQUIRED ONLY ON EXIT SIDE OF PAD, SECURE TIMBER GAP WITH 2X4 NAILED TO BOTTOM OF TIMBERS. EACH END
- VTC PAD TO BE DELINEATED TO ENSURE USE BY CONSTRUCTION TRAFFIC

WASHOUT PROFILE



SILT FENCE INSTALLATION



EROSION CONTROL STRUCTURES

DETAIL 12-1

DATE: MARCH 2007

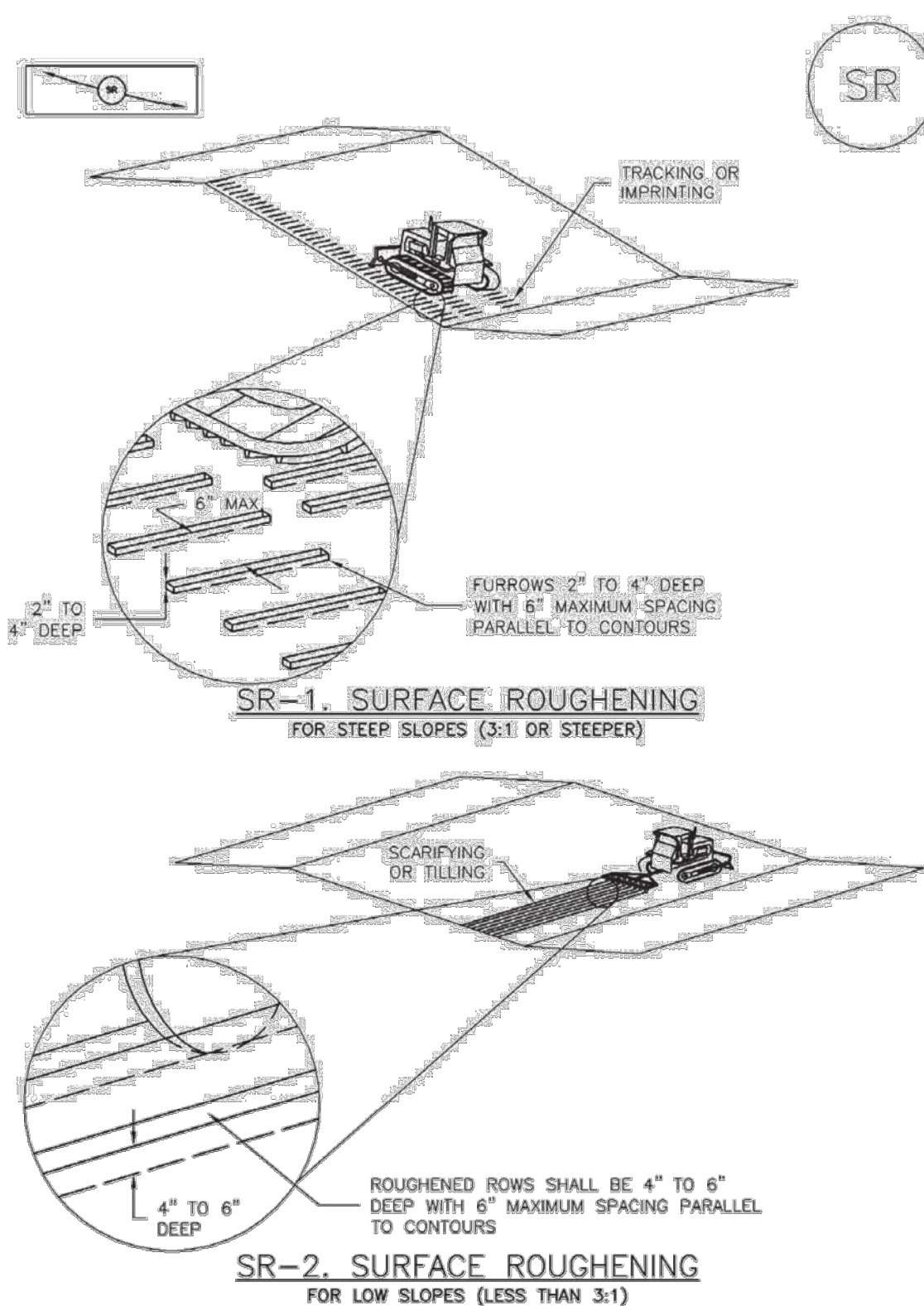
SCALE: N.T.S.

Surface Roughening (SR)

EC-1

EC-1

Surface Roughening (SR)



SURFACE ROUGHENING INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION(S) OF SURFACE ROUGHENING.
- SURFACE ROUGHENING SHALL BE PROVIDED PROMPTLY AFTER COMPLETION OF FINISHED GRADING (FOR AREAS NOT RECEIVING TOPSOIL) OR PRIOR TO TOPSOIL PLACEMENT OR ANY FORECASTED RAIN EVENT.
- AREAS WHERE BUILDING FOUNDATIONS, PAVEMENT, OR SOO WILL BE PLACED WITHOUT DELAY IN THE CONSTRUCTION SEQUENCE, SURFACE ROUGHENING IS NOT REQUIRED.
- DISTURBED SURFACES SHALL BE ROUGHENED USING RIPPING OR TILLING EQUIPMENT ON THE CONTOUR OR TRACKING UP AND DOWN A SLOPE USING EQUIPMENT TREADS.
- A FARMING DISK SHALL NOT BE USED FOR SURFACE ROUGHENING.

SURFACE ROUGHENING MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACE UPON DISCOVERY OF THE FAILURE.
- VEHICLES AND EQUIPMENT SHALL NOT BE DRIVEN OVER AREAS THAT HAVE BEEN SURFACE ROUGHENED.
- IN NON-TURF GRASS FINISHED AREAS, SEEDING AND MULCHING SHALL TAKE PLACE DIRECTLY OVER SURFACE ROUGHENED AREAS WITHOUT FIRST SMOOTHING OUT THE SURFACE.
- IN AREAS NOT SEEDDED AND MULCHED AFTER SURFACE ROUGHENING, SURFACES SHALL BE RE-ROUGHENED AS NECESSARY TO MAINTAIN GROOVE DEPTH AND SMOOTH OVER RILL EROSION.

(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

November 2010

Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

SR-3

SR-4

Urban Drainage and Flood Control District
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November 2010

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SHEET 10 OF 12

C10

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RAB

DATE

5-28-13

PREPARED BY

LAJ

REVISION DESCRIPTION

ADDRESS CITY REVIEW COMMENTS

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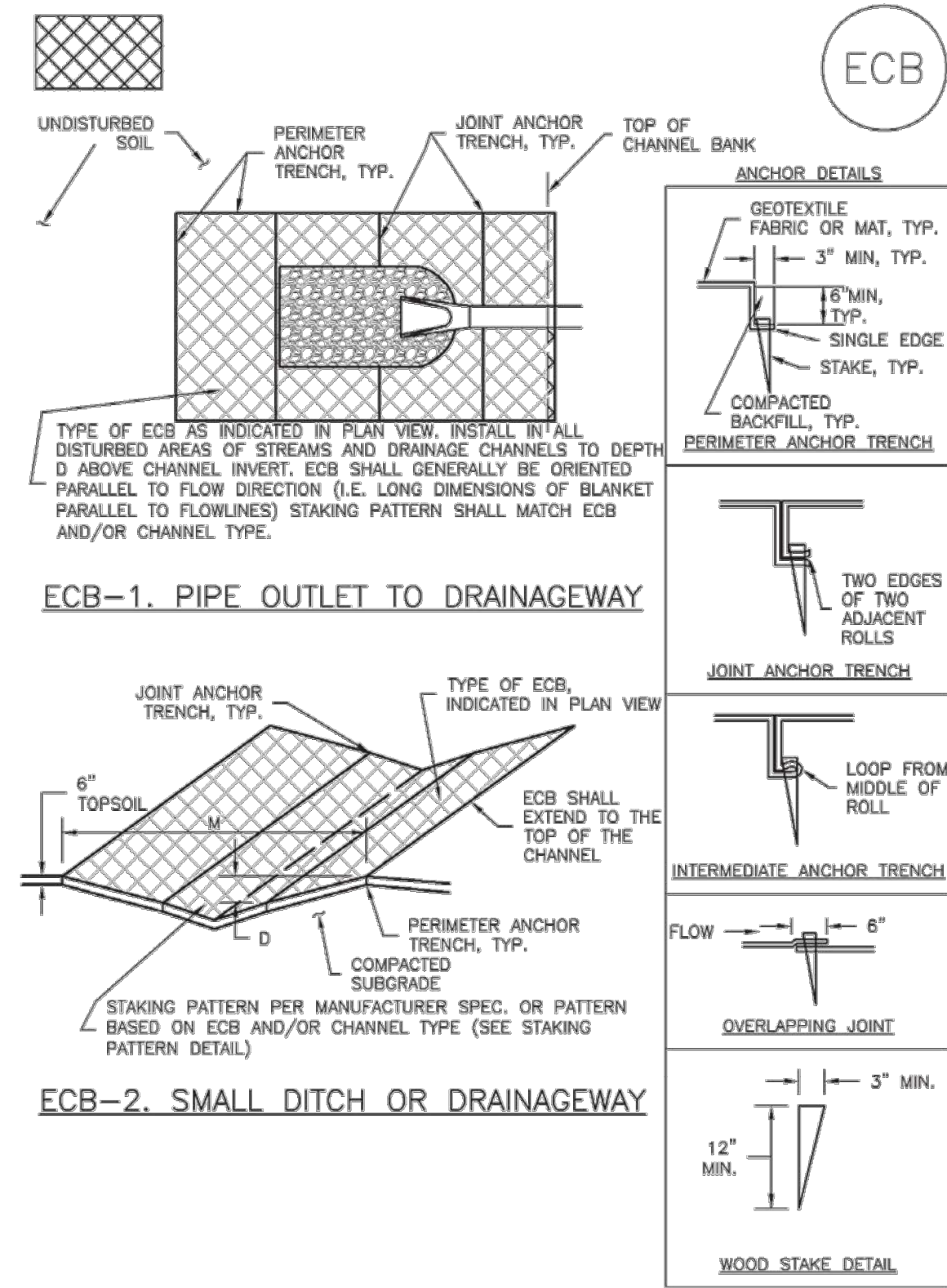
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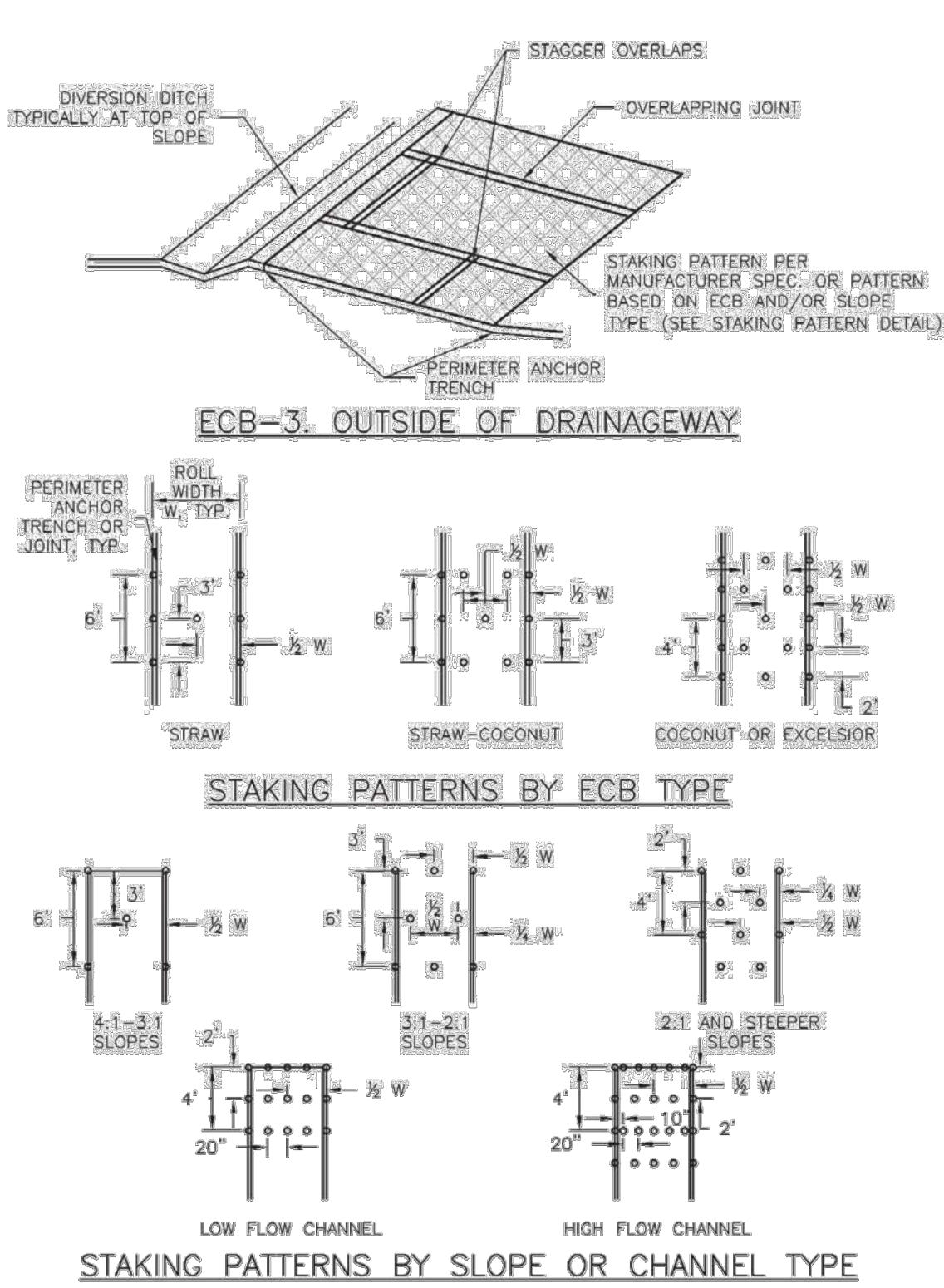
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EC-6 Rolled Erosion Control Products (RECP)



RECP-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Rollod Erosion Control Products (RECP)



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 RECP-7

EC-6

EC-6

Rollod Erosion Control Products (RECP)

EROSION CONTROL BLANKET INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF ECB.
 - TYPE OF ECB (STRAW, STRAW-COCONUT, COCONUT, OR EXCELSIOR).
 - AREA, A, IN SQUARE YARDS OF EACH TYPE OF ECB.
- 100% NATURAL AND BIODEGRADABLE MATERIALS ARE PREFERRED FOR RECPs, ALTHOUGH SOME JURISDICTIONS MAY ALLOW OTHER MATERIALS IN SOME APPLICATIONS.
- IN AREAS WHERE ECBs ARE SHOWN ON THE PLANS, THE PERMITEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOIST PRIOR TO ECB INSTALLATION AND THE ECB SHALL BE IN FULL CONTACT WITH SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET.
- PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL BLANKET AREAS.
- JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL ECBs EXCEPT STRAW WHICH MAY USE AN OVERLAPPING JOINT.
- INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF ROLL LENGTH FOR COCONUT AND EXCELSIOR ECBs.
- OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER FOR ECBs ON SLOPES.
- MATERIAL SPECIFICATIONS OF ECBs SHALL CONFORM TO TABLE ECB-1.
- ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING ECBs SHALL BE RESEED AND MULCHED.
- DETAILS ON DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION WILL GOVERN IF DIFFERENT FROM THOSE SHOWN HERE.

| TABLE ECB-1. ECB MATERIAL SPECIFICATIONS | | | | |
|--|-----------------|---------------|-------------------|-----------------------|
| TYPE | COCONUT CONTENT | STRAW CONTENT | EXCELSIOR CONTENT | RECOMMENDED NETTING** |
| STRAW* | — | 100% | — | DOUBLE/NATURAL |
| STRAW-COCONUT | 30% MIN | 70% MAX | — | DOUBLE/NATURAL |
| COCONUT | 100% | — | — | DOUBLE/NATURAL |
| EXCELSIOR | — | — | 100% | DOUBLE/NATURAL |

*STRAW ECBs MAY ONLY BE USED OUTSIDE OF STREAMS AND DRAINAGE CHANNELS.
**ALTERNATE NETTING MAY BE ACCEPTABLE IN SOME JURISDICTIONS.

EROSION CONTROL BLANKET MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ECBs SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUESTED TO BE REMOVED BY THE LOCAL JURISDICTION.
- ANY ECB PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW THE GEOTEXTILE THAT HAVE ERODED TO CREATED A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEED AND MULCHED AND THE ECB REINSTALLED.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND TOWN OF PARKER COLORADO, NOT AVAILABLE IN AUTOCAD)

Rollod Erosion Control Products (RECP)

EC-6

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Sediment Basin (SB)

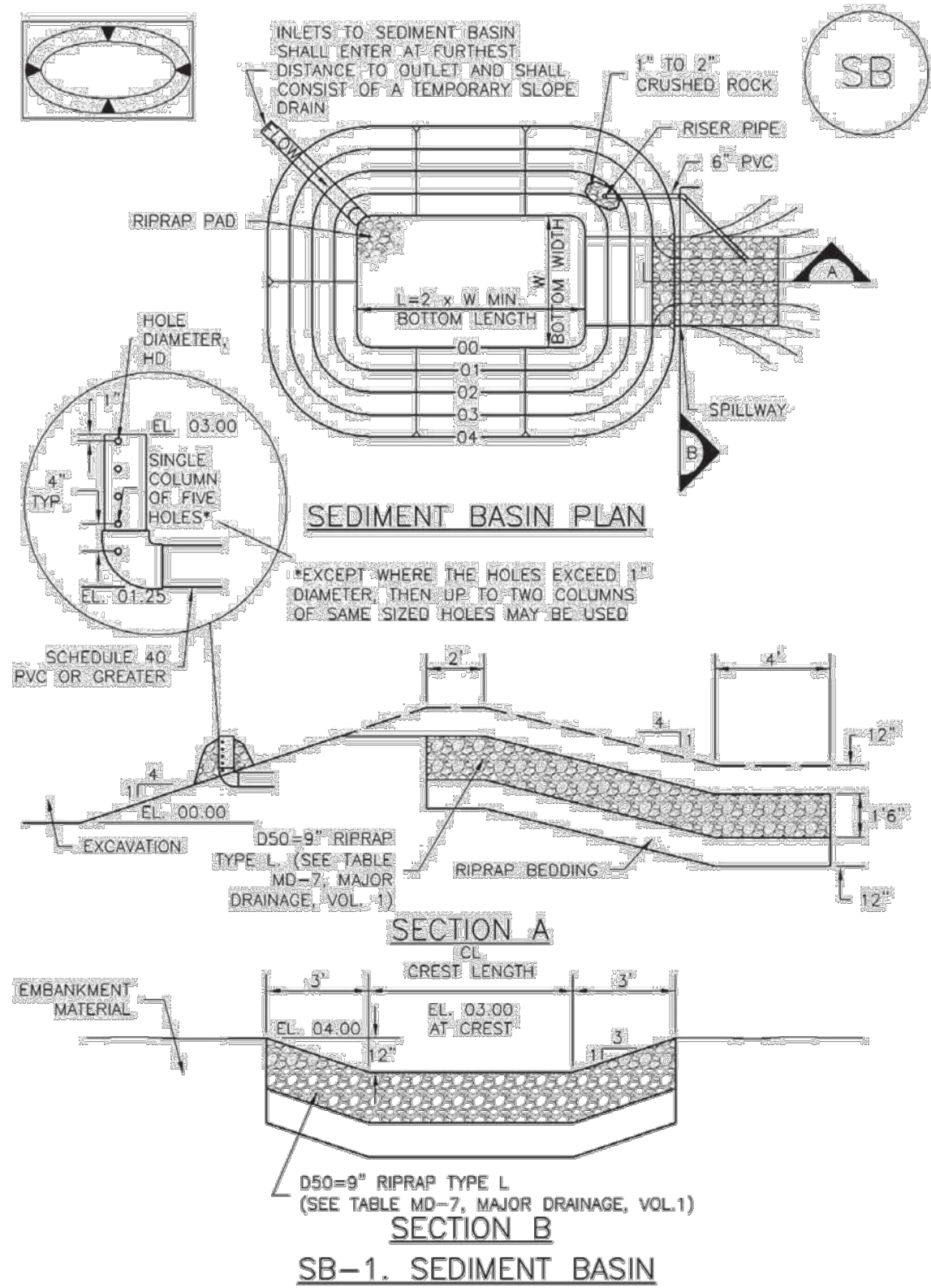
SC-7

SC-7

Sediment Basin (SB)

Sediment Basin (SB)

SC-7



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SB-5

SB-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SB-7

SEDIMENT BASIN MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E., TWO FEET BELOW THE SPILLWAY CREST).
- SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION.
- WHEN SEDIMENT BASINS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO)

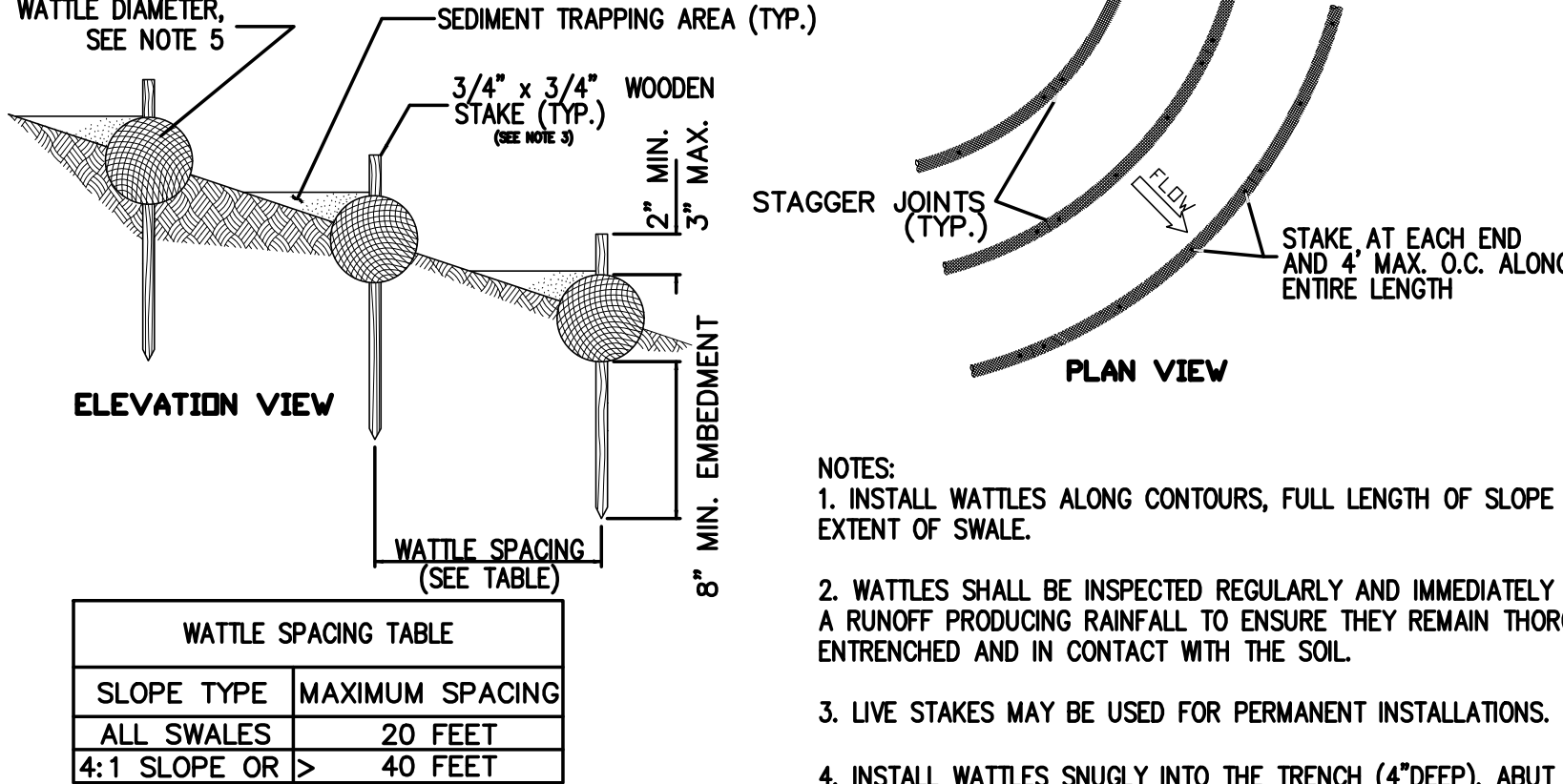
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SEDIMENT BASIN INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF SEDIMENT BASIN.
 - TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN).
 - FOR STANDARD BASIN, BOTTOM WIDTH W, CREST LENGTH CL, AND HOLE DIAMETER, HD.
 - FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT H, NUMBER OF COLUMNS N, HOLE DIAMETER HD AND PIPE DIAMETER D.
- FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
- SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON OR BASINS AS A STORMWATER CONTROL.
- EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
- EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
- PIPE SCH 40 OR GREATER SHALL BE USED.

7. THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

SLOPE AND SWALE PROTECTION



1 C7/C11 SLOPE & SWALE PROTECTION NOT TO SCALE

NOTES:

- INSTALL WATTLES ALONG CONTOURS, FULL LENGTH OF SLOPE OR EXTENT OF SWALE.
- WATTLES SHALL BE INSPECTED REGULARLY AND IMMEDIATELY AFTER A RUNOFF PRODUCING RAINFALL TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED AND IN CONTACT WITH THE SOIL.
- LIVE STAKES MAY BE USED FOR PERMANENT INSTALLATIONS.
- INSTALL WATTLES SNUGLY INTO THE TRENCH (4" DEEP). ADJUT ADJACENT WATTLES TIGHTLY, END TO END, WITHOUT OVERLAPPING THE ENDS.
- WATTLES TO BE 9" MIN DIAMETER FOR SLOPES, 12" MIN DIAMETER FOR SWALES.

SYNERGY RESOURCES CORP.

CITY OF GREELEY
WELD COUNTY
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SHEET 11 OF 12

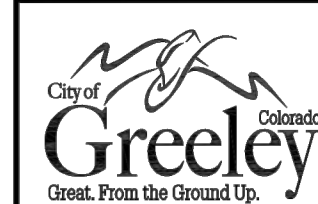
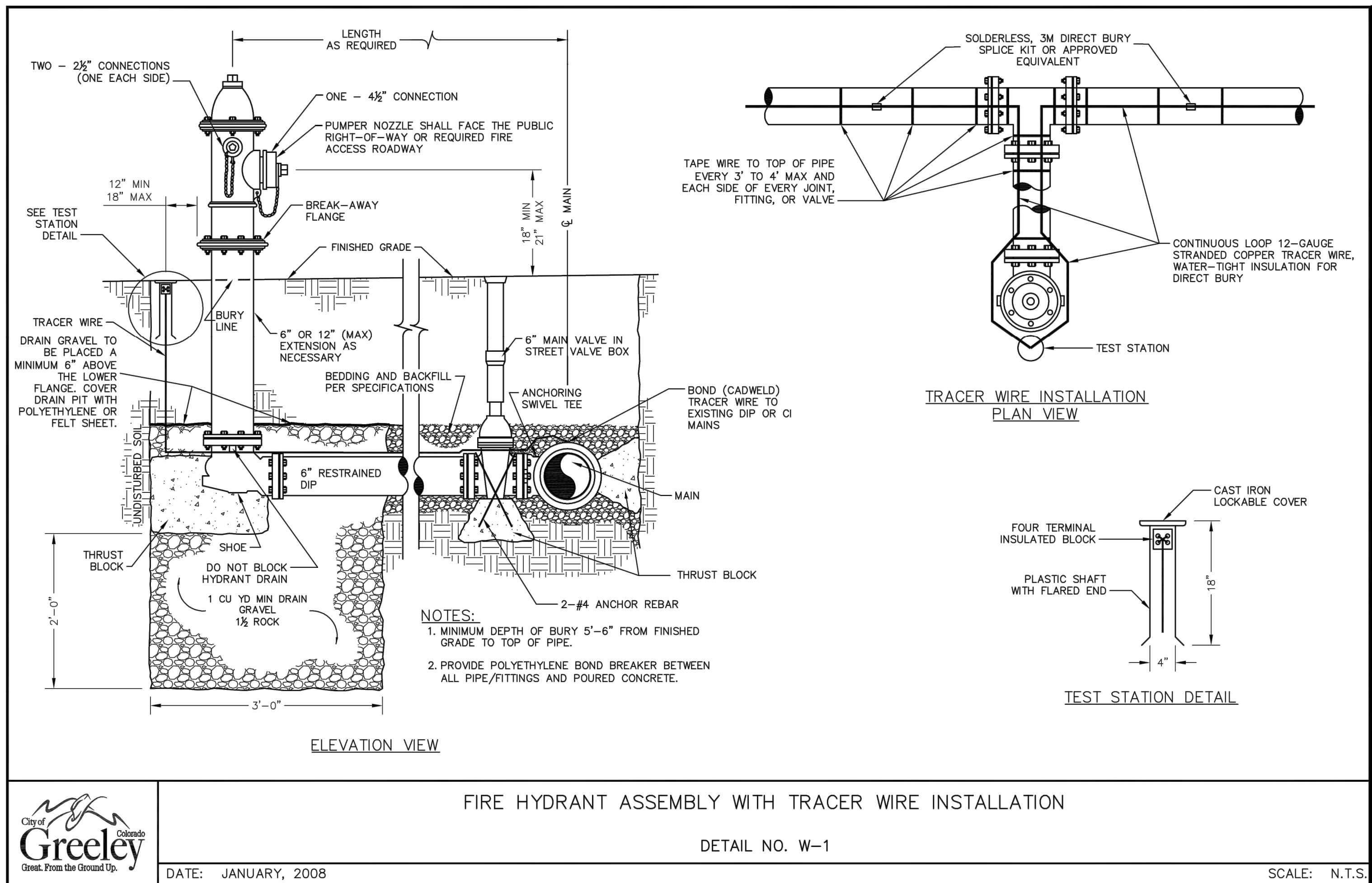
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| DESIGNED BY | RAB |
|----------------------|------------------------------|
| DATE | 5-28-13 |
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| DRAWN BY | LAJ |
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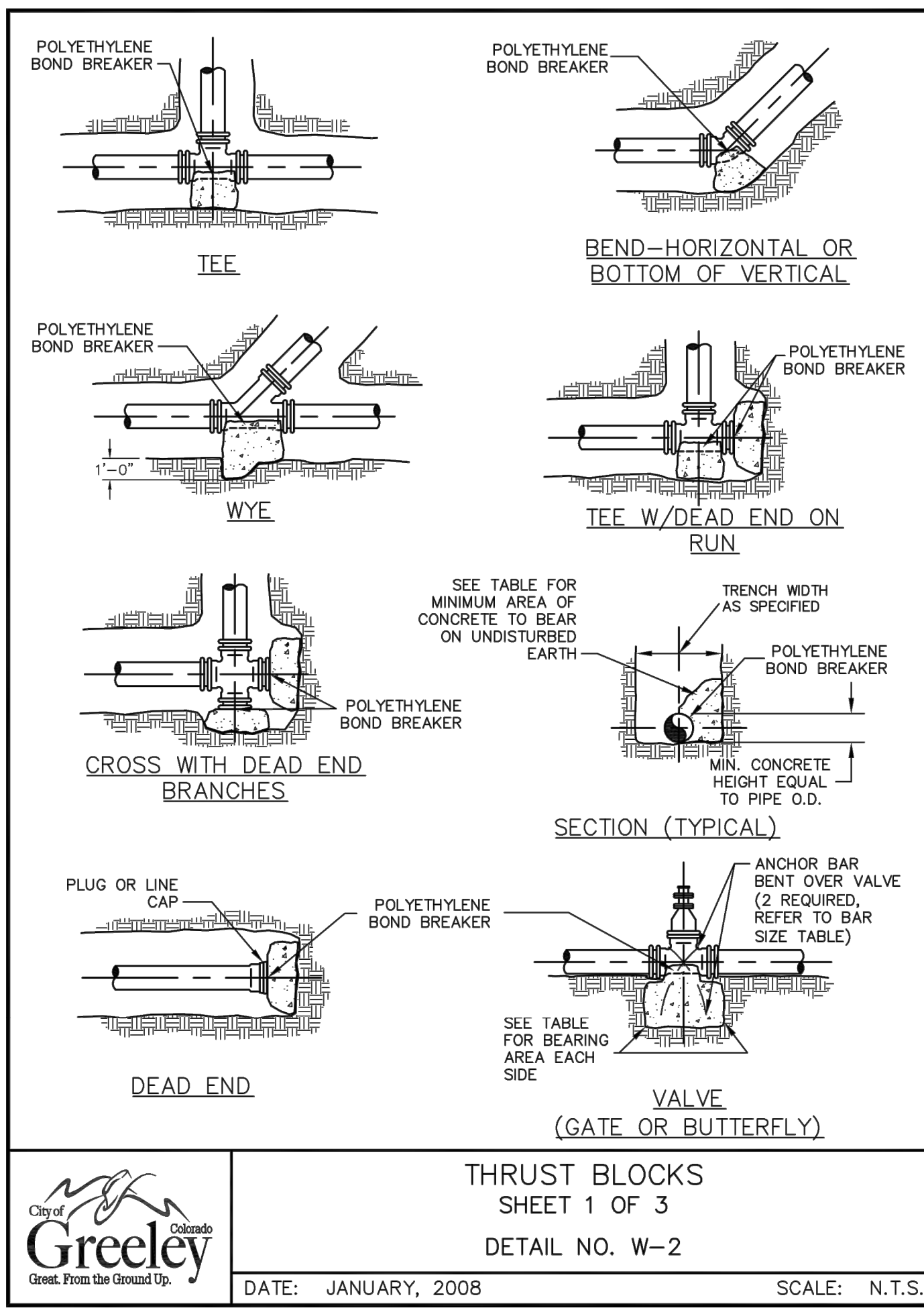


FIRE HYDRANT ASSEMBLY WITH TRACER WIRE INSTALLATION

DETAIL NO. W-1

DATE: JANUARY, 2008

SCALE: N.T.S.



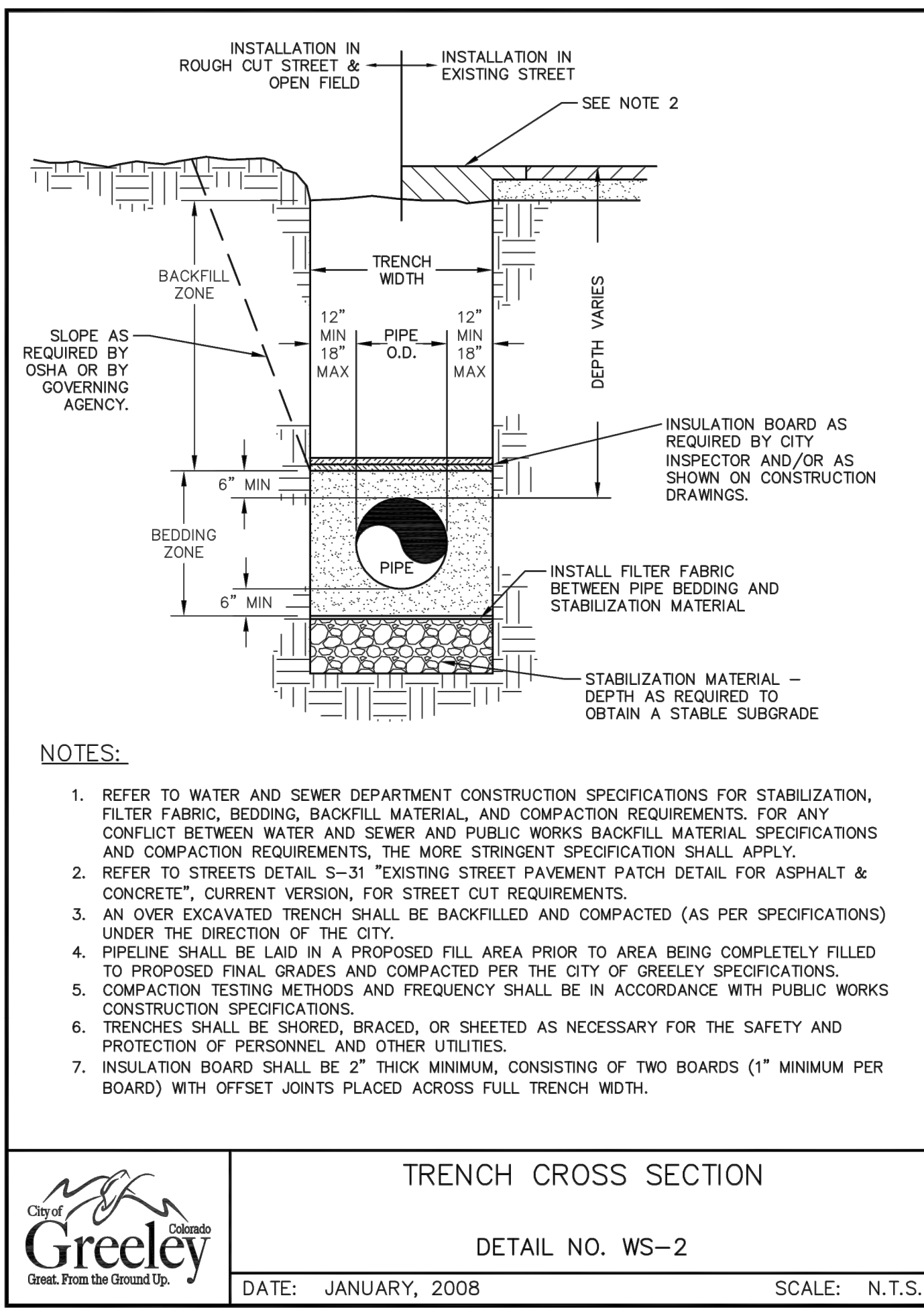
THRUST BLOCKS

SHEET 1 OF 3

DETAIL NO. W-2

DATE: JANUARY, 2008

SCALE: N.T.S.

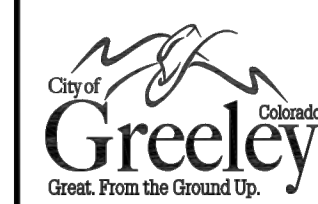
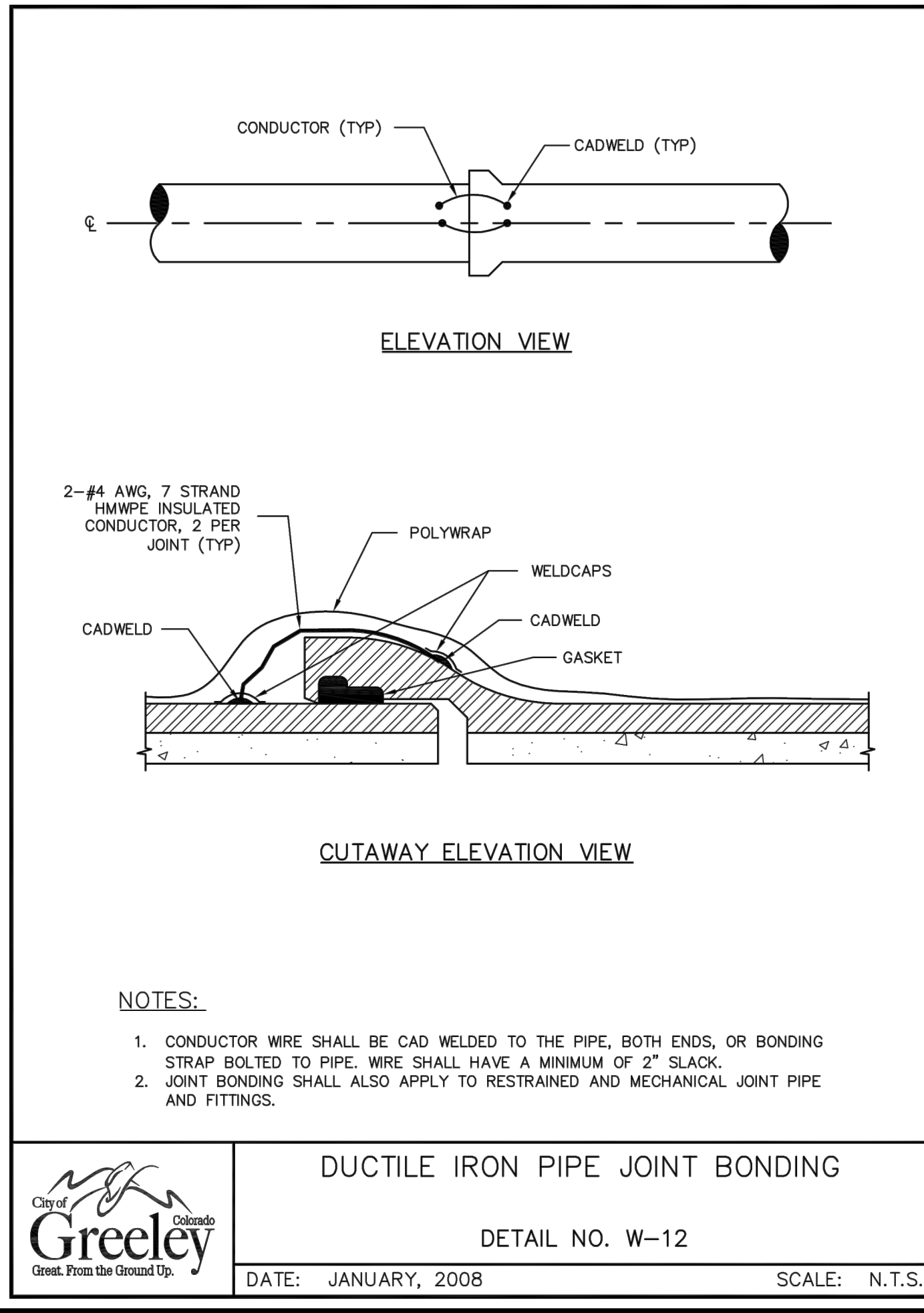


TRENCH CROSS SECTION

DETAIL NO. WS-2

DATE: JANUARY, 2008

SCALE: N.T.S.



DUCTILE IRON PIPE JOINT BONDING

DETAIL NO. W-12

DATE: JANUARY, 2008

SCALE: N.T.S.

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