

GENERAL NOTES

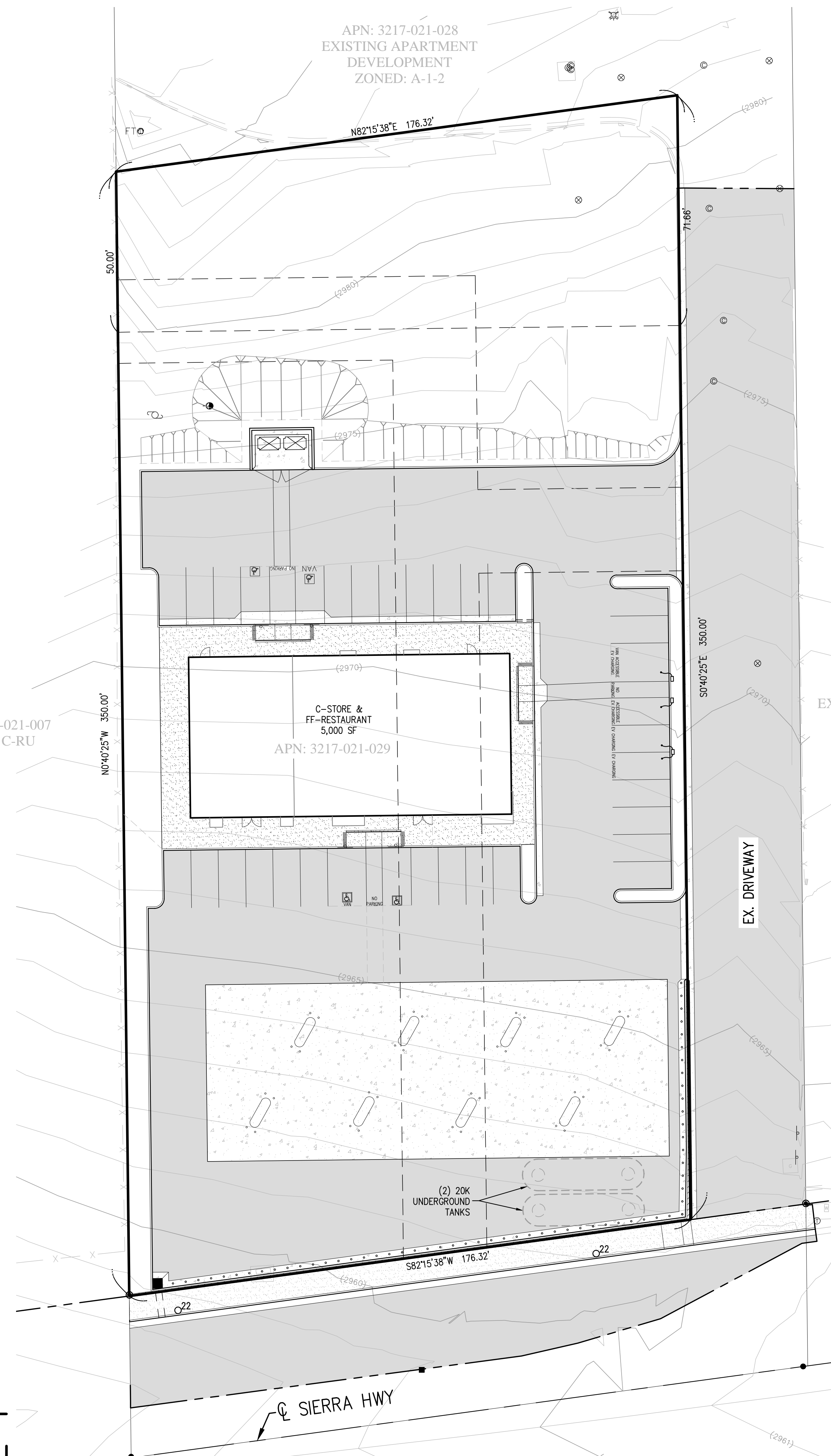
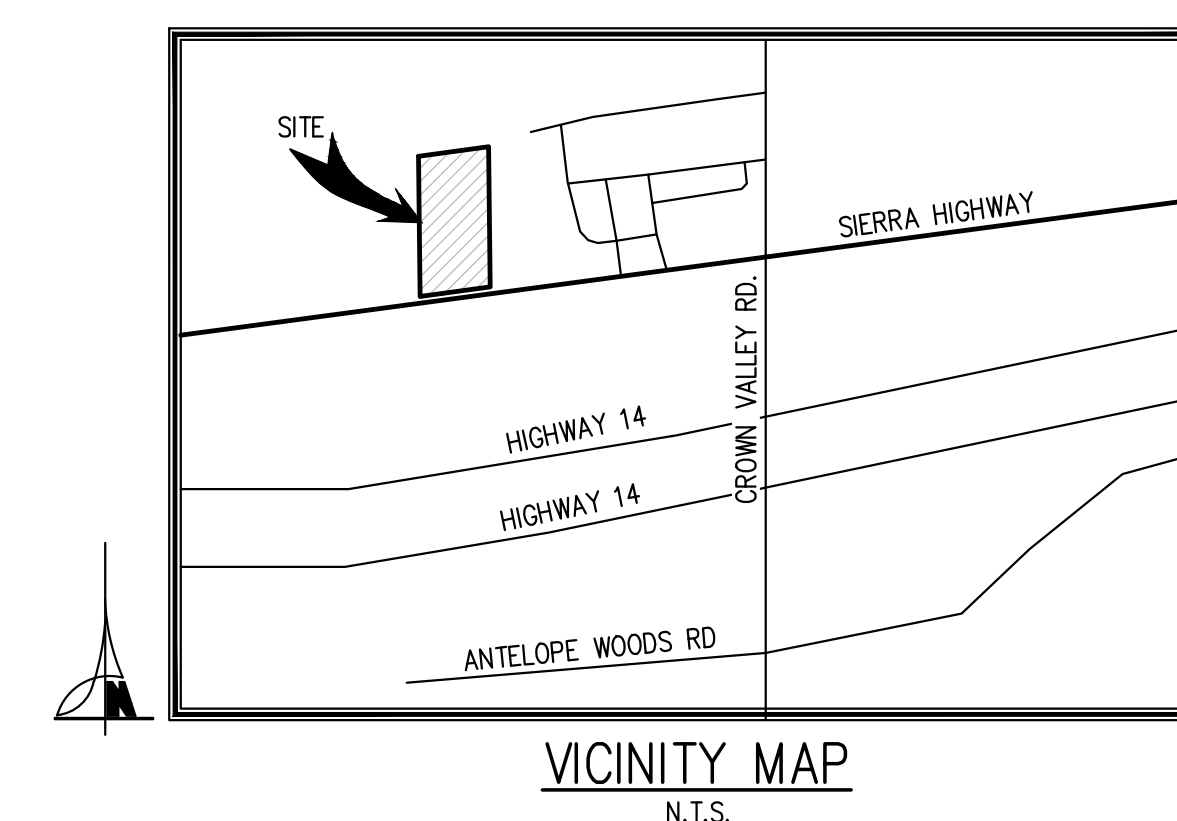
- ALL GRADING, EXCAVATION, AND SOILS PREPARATION SHALL BE DONE IN CONFORMANCE WITH THE 2019 CALIFORNIA BUILDING CODE CHAPTER 33, REQUIREMENTS OF THE COUNTY OF LOS ANGELES, THE RECOMMENDATIONS CONTAINED IN THE PRELIMINARY GEOTECHNICAL REPORT PREPARED BY G.C. MASTERMAN & ASSOCIATES INC., PROJECT NO. 3-103, DATED JANUARY 25, 1993, AND AS NOTED IN THE GENERAL NOTES BELOW.
- ALL EXISTING IMPROVEMENTS THAT ARE REMOVED, DAMAGED, OR UNDERCUT SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE COUNTY ENGINEER, AT THE CONTRACTOR'S EXPENSE.
 - ALL CUT SLOPES SHALL BE NO STEEPER THAN (2) TWO HORIZONTAL TO (1) ONE VERTICAL.
 - ALL FILL SLOPES SHALL BE NO STEEPER THAN (2) TWO HORIZONTAL TO (1) ONE VERTICAL.
 - VEGETATION AND DEBRIS ON THE SURFACE SHALL BE REMOVED FROM THE SITE PRIOR TO EXCAVATION AND GRADING TO THE SATISFACTION OF THE COUNTY.
 - FILL SHALL BE PLACED IN SIX INCH LIFTS, EACH LIFT SHALL BE COMPACTED TO 95 PERCENT OF MAXIMUM DRY DENSITY, PER PRELIMINARY SOILS REPORT ON FILE, OR OTHER PROCEDURES APPROVED BY THE COUNTY OF LOS ANGELES.
 - BUILDING PADS ARE DEFINED TO INCLUDE AN ADDITIONAL FIVE FOOT STRIP SURROUNDING THE PERIMETER OF THE EXTERIOR BUILDING FOOTINGS.
 - GRADING WORK SHALL BE DONE IN A MANNER TO PREVENT STORM DAMAGE TO PUBLIC OR PRIVATE PROPERTY OF OTHERS BY FLOODING, EROSION, DEPOSITION, DEBRIS, OR ANY OTHER DAMAGE RESULTING FROM THE GRADING WORK.
 - SURFACE DRAINAGE SHALL HAVE A MINIMUM SLOPE OF ONE PERCENT AWAY FROM ALL STRUCTURES ON HARDSCAPE; 5% MIN. FOR 10' HORIZONTAL ON PERVIOUS SURFACES PER CBC (2019).
 - THE GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE PROJECT SHALL BE NOTIFIED BY THE CONTRACTOR OR THE OWNER A MINIMUM OF 48 HOURS PRIOR TO THE TIME THAT GRADING IS TO COMMENCE AND THE CONTRACTOR OR THE OWNER SHALL MAKE ALL NECESSARY ARRANGEMENTS FOR THEIR INSPECTIONS.
 - AN OSHA PERMIT IS REQUIRED WHEN WORKERS MUST ENTER TRENCHES OR EXCAVATIONS FIVE (5) FEET OR DEEPER.
 - SITE PREPARATION AND GRADING SHALL BE DONE UNDER THE SUPERVISION OF THE SOILS ENGINEER TO INSURE COMPLIANCE WITH THE PLANS, SPECIFICATIONS AND CODE WITHIN HIS PURVIEW. THE SOILS ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO STARTING ANY WORK.
 - CONTRACTOR IS RESPONSIBLE FOR THE GRADING OF BUILDING PAD AREAS TO WITHIN 0.1' OF THE DESIGN ELEVATIONS. COMPACTION IN PROPOSED PAVEMENT AREAS SHALL CONFORM TO COUNTY OF LOS ANGELES STANDARDS AND SHALL EXTEND TO A MINIMUM DISTANCE OF (2) FEET BEYOND THE OUTSIDE EDGES OF PAVEMENTS.
 - DURING GRADING, REASONABLE SEARCHING SHOULD BE PERFORMED FOR CONCEALED SUBSURFACE OBSTRUCTIONS. ALL ABANDONED SUBSURFACE OBSTRUCTIONS SHOULD BE REMOVED, IF THE TERMINUS OF ANY ABANDONED PIPING IS OUTSIDE THE PROJECT LIMITS, THE PIPING SHOULD BE REMOVED WITHIN THE PROJECT AND PROPERLY CAPPED AT THE PROJECT BOUNDARY.
 - DUST CONTROL: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PREVENT A DUST NUISANCE ORIGINATING FROM THE SITE OF WORK AS A RESULT OF HIS OPERATIONS DURING THE EFFECTIVE PERIOD OF THIS CONTRACT. PREVENTATIVE MEASURES TO BE TAKEN BY THE CONTRACTOR SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
A. WATER SHALL BE APPLIED TO ALL UNPAVED AREAS AS REQUIRED TO PREVENT THE SURFACE FROM BECOMING DRY ENOUGH TO PERMIT DUST FORMATION.
B. PAVED SURFACES OVER WHICH VEHICULAR TRAFFIC IS PERMITTED TO TRAVEL SHALL BE KEPT FREE OF DIRT.
 - CONTRACTOR TO COORDINATE WITH THE INSPECTOR AND DEVELOPER, THE LOCATION OF THE BORROW OR SPOILS PRIOR TO CONSTRUCTION.
 - THE LOCATIONS OF EXISTING UTILITIES AND UNDERGROUND PIPELINES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND PIPELINES BEFORE COMMENCING WORK. CONTRACTOR ASSUMES ALL LIABILITY FOR ANY AND ALL DAMAGES TO EXISTING UTILITIES OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE, PRESERVE, AND PROTECT ANY AND ALL UNDERGROUND UTILITIES AND PIPELINES.
 - CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AND THE COUNTY OF LOS ANGELES AT LEAST TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION TO MARK THE LOCATIONS OF EXISTING UTILITY LINES.
 - CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
 - CONTRACTOR SHALL APPLY FOR AND OBTAIN A GRADING PERMIT PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COMPLY TO PROVISIONS OF THE PERMIT TO CONTROL WIND BLOWN DUST AND SAND.
 - IF, DURING GRADING OR CONSTRUCTION, ANY PLUGGED, ABANDONED, OR UNRECORDED WELLS ARE UNCOVERED OR DAMAGED, THE DEPARTMENT OF CONSERVATION/DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES SHALL BE CONTACTED TO INSPECT AND APPROVE ANY REMEDIATION REQUIRED.
 - IF ANY PREVIOUSLY UNKNOWN ARCHAEOLOGICAL OR CULTURAL RESOURCES ARE DISCOVERED, WORK IN THE AREA OF DISCOVERY SHALL BE STOPPED AND A QUALIFIED ARCHAEOLOGIST CONTRACTED TO EVALUATE THE FIND. A COPY OF THE ARCHAEOLOGIST'S EVALUATION SHALL BE SUBMITTED TO THE LOS ANGELES COUNTY PLANNING AND NATURAL RESOURCES DEPARTMENT UPON ITS ISSUANCE AND ANY MEASURES RECOMMENDED BY THE ARCHAEOLOGIST SHALL BE IMPLEMENTED PRIOR TO RESUMPTION OF WORK IN THE AREA OF DISCOVERY.
 - IF HUMAN REMAINS ARE DISCOVERED AT ANY TIME ON THIS PROPERTY, WORK MUST HALT IN THE AREA OF THE FIND, AND THE LOS ANGELES COUNTY CORONER MUST BE NOTIFIED IMMEDIATELY (HEALTH AND SAFETY CODE SECTION 7050.5), THE LOS ANGELES COUNTY PLANNING AND NATURAL RESOURCES DEPARTMENT SHALL BE NOTIFIED IMMEDIATELY FOLLOWING CORONER NOTIFICATION.
 - IF ANY ABANDONED WATER WELL(S) ARE LOCATED WITHIN THE DEVELOPMENT OR DISCOVERED DURING EXCAVATION OR GRADING, THE LOS ANGELES COUNTY PUBLIC HEALTH SERVICES DEPARTMENT/ENVIRONMENTAL HEALTH DIVISION MUST BE CONTACTED TO OBTAIN INFORMATION FOR THE PROPER PERMITTING AND DESTRUCTION PROCEDURES.
 - DURING GRADING OPERATIONS, THE APPLICANT FOR A DEVELOPMENT PERMIT SHALL BE RESPONSIBLE FOR THE APPLICATION OF WATER TO DEVELOPMENT SITES TO MITIGATE THE IMPACT OF DUST AND PM₁₀ (PARTICULATE) EMISSIONS. SPRINKLING SHOULD BE SUFFICIENT TO ENSURE THAT SOILS REMAIN DAMP, WITH THE FREQUENCY OF SPRINKLING DEPENDENT ON WEATHER CONDITIONS. VERIFICATION OF COMPLIANCE WILL BE THE RESPONSIBILITY OF THE LOS ANGELES COUNTY PUBLIC WORKS DEPARTMENT/BUILDING INSPECTION DIVISION.
 - DURING GRADING OPERATIONS, ALL ACTIVITY SHALL BE RESTRICTED TO PERIODS OF LOW WIND TO REDUCE DUST EMISSIONS. VERIFICATION OF COMPLIANCE WILL BE THE RESPONSIBILITY OF THE LOS ANGELES COUNTY PUBLIC WORKS DEPARTMENT/BUILDING INSPECTION DIVISION.
 - CONSTRUCTION SPEED LIMITS WILL BE POSTED AT 15 MILES PER HOUR (15 MPH). VERIFICATION OF COMPLIANCE WILL BE THE RESPONSIBILITY OF THE LOS ANGELES COUNTY PUBLIC WORKS DEPARTMENT/BUILDING INSPECTION DIVISION.
 - IT IS UNLAWFUL FOR ANY PERSONS TO DO, OR CAUSE TO BE DONE, ANY OF THE FOLLOWING ACTS WITHIN THE UNINCORPORATED AREAS OF THE COUNTY: TO CREATE NOISE FROM CONSTRUCTION, BETWEEN THE HOURS OF NINE (9:00) P.M. AND SIX (6:00) A.M. ON WEEKDAYS AND NINE (9:00) P.M. AND EIGHT (8:00) A.M. ON WEEKENDS, WHICH IS AUDIBLE TO A PERSON WITH AVERAGE HEARING FACILITIES OR CAPACITY AT A DISTANCE OF ONE-HUNDRED FIFTY (150) FEET FROM THE CONSTRUCTION SITE, IF THE CONSTRUCTION SITE IS WITHIN ONE-THOUSAND (1,000) FEET OF AN OCCUPIED RESIDENTIAL DWELLING EXCEPT WHERE THE DIRECTOR OF THE DEVELOPMENT SERVICES AGENCY OR HIS DESIGNATED REPRESENTATIVE MAY FOR GOOD CAUSE EXEMPT SOME CONSTRUCTION WORK FOR A LIMITED TIME.
 - AN ENCROACHMENT PERMIT SHALL BE OBTAINED FROM THE LOS ANGELES COUNTY/CITY OF LOS ANGELES PUBLIC WORKS DEPT. PRIOR TO WORK WITHIN THE STREET R-O-W.
 - PERVIOUS SURFACES WITHIN 10 FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED A MINIMUM OF 2 PERCENT AWAY FROM THE BUILDING. PERVIOUS SURFACES WITHIN 10 FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED A MINIMUM 5 PERCENT AWAY FROM THE BUILDING.

GRADING AND DRAINAGE PLAN

3913 SIERRA HWY, ACTON, CALIFORNIA

APN: 3217-021-029

PARCEL# 2 OF PARCEL MAP# 16832



SHEET INDEX

C-1.0	COVER SHEET AND NOTES
C-1.1	DEMO
C-2.0	PARTIAL GRADING PLAN
C-2.1	PARTIAL GRADING PLAN
C-2.2	SECTIONS
C-2.3	DETAILS AND STANDARDS
C-2.4	EROSION AND DUST CONTROL PLAN
C-2.5	BEST MANAGEMENT PRACTICES (BMP)

EARTHWORK QUANTITIES:

TOTAL DISTURBED AREA =	1.67 ACRES
CUBIC YARDS CUT (RAW) =	3,395 C.Y.
CUBIC YARDS FILL (RAW) =	590 C.Y.
OVEREXCAVATION (3") =	733 C.Y.
CLEAR AND GRUB (2") =	449 C.Y.
CUBIC YARDS CUT (ADJUSTED) =	4,128 C.Y.
CUBIC YARDS FILL (ADJUSTED) = (590+733+449)*1.3 =	2,304 C.Y.
TOTAL EARTHWORK QUANTITIES =	1,824 C.Y. (EXPORT)

*FILL WAS CALCULATED WITH A COMPACTION FACTOR OF 1.3 (25%)

THE ABOVE QUANTITIES ARE BASED ON GRADING LINES AND ELEVATIONS SHOWN ON THE DRAWINGS. ACTUAL QUANTITIES OF EARTHWORK MAY VARY FROM THAT STATED ABOVE DEPENDING UPON VARYING SOIL DENSITIES AND ON THE DEGREE OF SITE PREPARATION ACTUALLY REQUIRED IN THE FIELD.

ENGINEER'S/SURVEYOR'S STATEMENT REGARDING THE PRESENCE OF MONUMENTS WITHIN PROJECT LIMITS

I HEREBY ATTEST THAT I HAVE LOCATED AND REFERENCED ON THESE PLANS THE MONUMENTS EXISTING PRIOR TO CONSTRUCTION TO ENSURE PERPETUATION OF THEIR LOCATION IN ACCORDANCE WITH SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE. I FURTHER ATTEST THAT I HAVE PERFORMED A RECORD SEARCH AND FIELD INSPECTION TO IDENTIFY EXISTING MONUMENTS; SHALL SET SUFFICIENT CONTROLLING, WITNESS, AND PERMANENT MONUMENTS; AND SHALL FILE THE REQUISITE CORNER RECORD OR RECORD OF SURVEY OF THE REFERENCES WITH THE COUNTY SURVEYOR.

Claude A. Whitten
CLAUDE A. WHITTEN, C-63332
09/16/2022
DATE



Know what's below.
Call before you dig.

CONTRACTOR SHALL CONTACT 811 FOR LOCATION OF ALL UTILITIES AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION

"AS CIVIL ENGINEER/LAND SURVEYOR OF THIS PROJECT, I HAVE IDENTIFIED THE LOCATION OF ALL EASEMENTS WHICH ARE DEPECTED ON THESE PLANS. I HAVE REVIEWED THE EASEMENT DOCUMENTS AND VERIFIED THE PROPOSED CONSTRUCTION DOES NOT CONFLICT OR INTERFERE WITH THE INTENDED EASEMENT USE."

Claude A. Whitten
CLAUDE A. WHITTEN, C-63332
09/16/2022
DATE

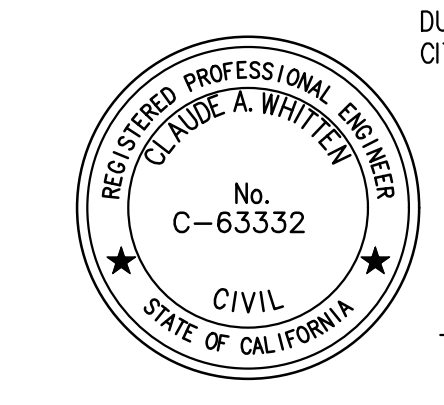
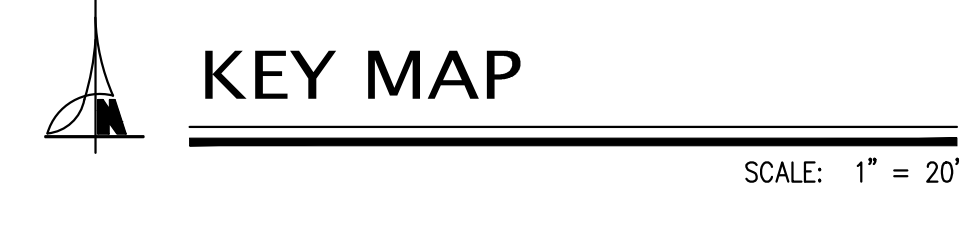
BASIS OF BEARING:
THE BEARING OF NORTH 62°15'38" EAST AS THE CENTERLINE OF SIERRA HIGHWAY WAS USED AS THE BASIS OF BEARINGS AS SHOWN HEREON.

BENCHMARK:
LOS ANGELES COUNTY BENCHMARK ULS170 TAG IN NORTH CATCH BASIN, 1' WEST OF BOR AT THE NORTHWEST CORNER OF SIERRA HIGHWAY AND CROWN VALLEY ROAD, 66' WEST AND 43' NORTH OF THE CENTERLINE INTERSECTION. ELEVATION - 2965.52'

LOCAL BENCHMARK:
A CHISELED "X" ON TOP OF CURB ON THE SOUTH SIDE OF SIERRA HIGHWAY 36.3' WEST OF AN EXISTING FIRE HYDRANT. ELEVATION - 2959.85'

UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.



Claude A. Whitten
CLAUDE A. WHITTEN, C-63332
09/16/2022
DATE

BY: _____
REVISION: _____
NO. DATE: _____

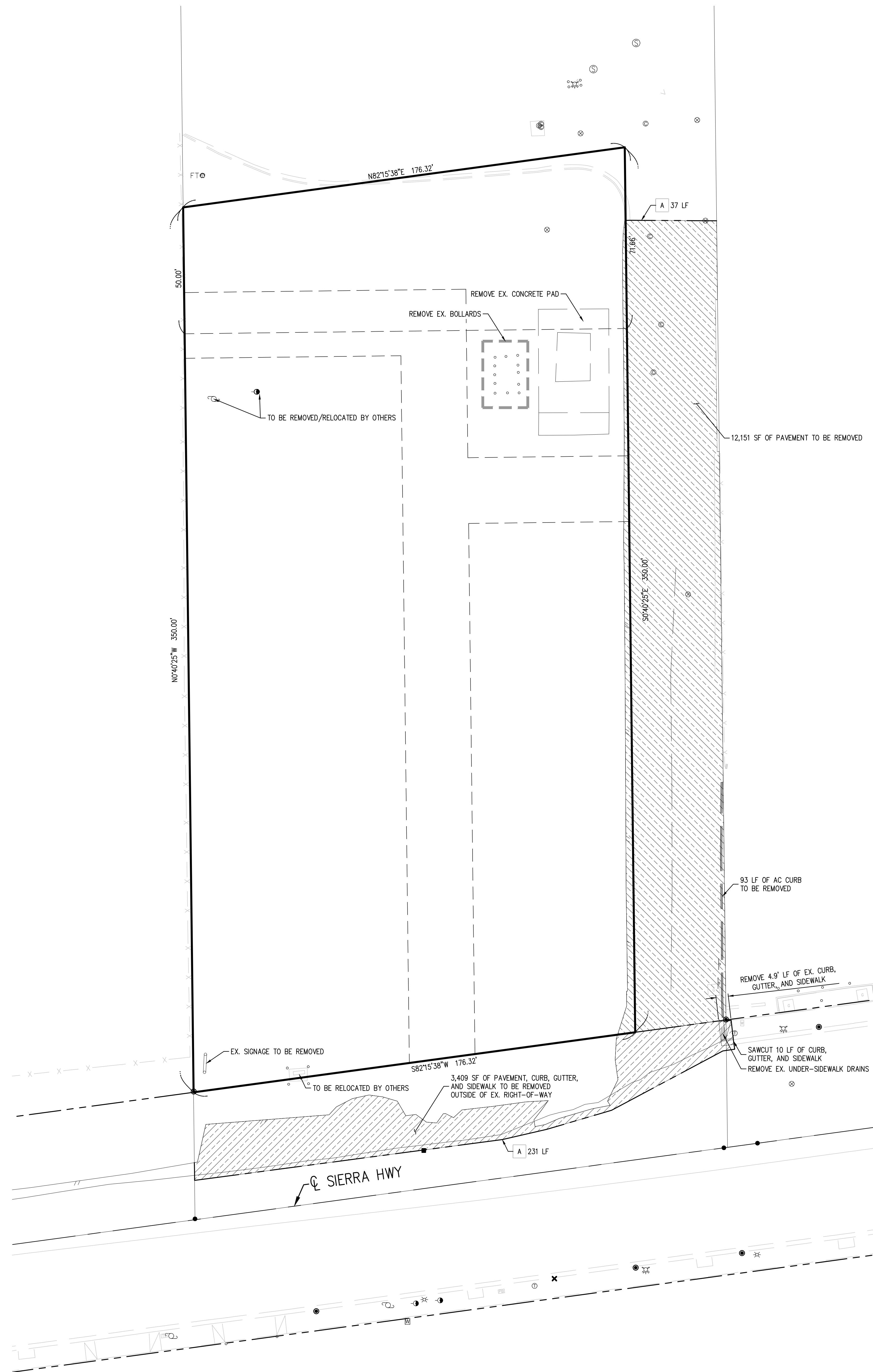
REGISTERED PROFESSIONAL ENGINEER
CLAUDE A. WHITTEN
No. C-63332
STATE OF CALIFORNIA
9/16/22

CORNERSTONE ENGINEERING
CONSULTANTS • ENGINEERS • LAND SURVEYORS
1509 HUNTS STREET, BAKERSFIELD, CA 93311
TEL: (805) 332-3474 FAX: (805) 332-3029
www.cornerstoneeng.com

DEVELOPMENT BY:
PRASAYUS COMM. CONSTRUCTION
1631 SOUTH COMANCHE DRIVE
BAKERSFIELD, CA 93307
rick@countystatidecorp.com

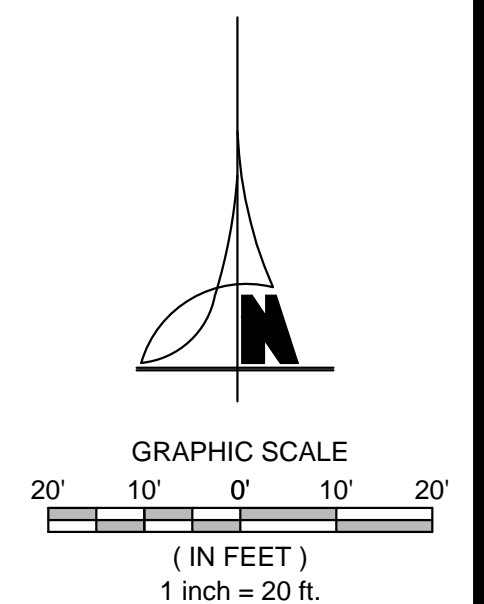
SITE GRADING AND DRAINAGE PLAN
3913 SIERRA HWY, ACTON, CALIFORNIA
APN: 3217-021-029
COVER SHEET

DESIGNER:	MAS
CHECKED BY:	CAW
DATE:	09/16/2022
DRAFTER:	BEK
SCALE:	AS SHOWN
COMP. NO:	4281900_GRD
JOB NO.:	428-19-00
SHEET:	1 OF 8



DEMO NOTE:
 1. ALL UTILITY VAULTS/COVERS IN AREA OF WORK THAT ARE TO REMAIN SHALL BE ADJUSTED TO FINISHED GRADE

DEMO LEGEND:
 [Hatched Box] EX. IMPROVEMENTS TO BE REMOVED
 [Box with 'A'] SAWCUT EXISTING PAVEMENT



BY:		REVISION:		NO.:		DATE:	
CORNERSTONE ENGINEERING CONSULTANTS • ENGINEERS • LAND SURVEYORS 1509 HUNTS STREET, BAKERSFIELD, CA 93311 TEL: (805) 732-3474 FAX: (805) 322-0129 www.cornerstoneeng.com							
DEVELOPMENT BY: PRAXAYUS COMM. CONSTRUCTION 1631 SOUTH COMANCHE DRIVE BAKERSFIELD, CA 93307 rick@countrysidecorp.com							
SITE GRADING AND DRAINAGE PLAN 3913 SIERRA HWY, ACTON, CALIFORNIA APN: 3217-021-029 DEMO PLAN							
DESIGNER:	MAS	CHECKED BY:	CAW	DATE:	09/16/2022	DRAFTER:	BEK
SCALE:	AS SHOWN	COMP. NO.:	4281900_GRD	JOB NO.:	428-19-00	SHEET:	2
C-1.1						OF	8

MATCHLINE - SEE SHEET C-2.1



CONSTRUCTION NOTES

- 1 CONSTRUCT TYPE A2 - 6" CONCRETE CURB AND GUTTER PER GREENBOOK STD. DETAIL 120-3.
- 2 CONSTRUCT TYPE A1 - 8" CONCRETE CURB PER GREENBOOK STD. DETAIL 120-3.
- 3 CONSTRUCT TYPE A1 - 6" CONCRETE CURB PER GREENBOOK STD. DETAIL 120-3.
- 4 CONSTRUCT V-GUTTER PER DETAIL 1.
- 5 CONCRETE FLATWORK: CONSTRUCT 4" THICK PORTLAND CEMENT CONCRETE SIDEWALK WITH 6X6/10X10 W/M OVER 6" OF NATIVE SOIL COMPACTED TO 90% RELATIVE COMPACTION PER ASTM D1557. INSTALL TOOLED CONSTRUCTION JOINTS @ 5' O.C. EACH WAY WITH EXPANSION JOINTS @ 20' O.C. EACH WAY. CONTRACTOR SHALL FINISH THE CONCRETE SURFACE WITH A MEDIUM BROOM FINISH PERPENDICULAR TO THE DIRECTION OF TRAVEL. 1.5% MAX. CROSSFALL 5% MAX. SLOPE ALONG PATH OF TRAVEL PER CURRENT ADA STANDARDS.
- 6 INSTALL PARKING LOT STRIPING GREENBOOK STD. DETAIL 180-0 (1 OF 2).
- 7 INSTALL ACCESSIBLE PARKING SIGN PER GREENBOOK STD. DETAIL 180-0, (2 OF 2).
- 8 PAINT DISABLED SYMBOL PER GREENBOOK STD. DETAIL 171-0, (3 OF 5).
- 9 CONSTRUCT ACCESSIBLE RAMP TYPE 1 PER GREENBOOK STD. DETAIL 111-5 (4 OF 10).
- 10 CONSTRUCT TRASH ENCLOSURE PER ARCHITECT'S PLANS.
- 11 CONSTRUCT TYPE A COMMERCIAL DRIVE APPROACH PER GREENBOOK STD. DETAIL 110-2.
- 12 SLOPE NOT TO EXCEED 2% IN ANY DIRECTION PER CURRENT ADA STANDARDS.
- 13 2% MAX CROSSFALL 5% MAX. SLOPE ALONG PATH OF TRAVEL PER CURRENT ADA STANDARDS.
- 14 UNDER-SIDEWALK DRAIN PER DETAIL 2.
- 15 INSTALL STREET LIGHT
- 16 INSTALL INLET STRUCTURE PER GREENBOOK STD. DETAIL 303-4 (SHEET 1 OF 2).
- 17 SAWCUT AND MATCH LINE.

LEGEND (HATCH)

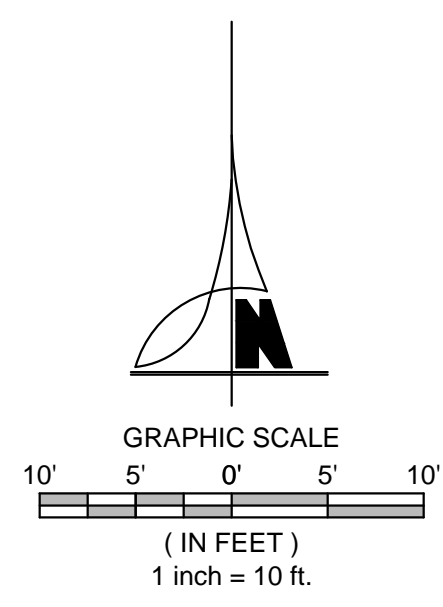
- A PARKING & DRIVE AISLE PAVEMENT: INSTALL 3" TYPE "A" A.C./4" CLASS II A.S./12" OF NATIVE SOIL SUBBASE COMPACTED TO 95% M.D.D. PER ASTM D1557.
- B HEAVY DUTY CONCRETE: 6" CLASS "A" P.C. CONCRETE/4" CLASS II A.B./12" OF NATIVE SOIL COMPACTED TO 95% RELATIVE COMPACTION. #4 REINFORCING BARS @ 24" O.C. EACH WAY.
- 5 CONCRETE FLATWORK: CONSTRUCT 4" THICK PORTLAND CEMENT CONCRETE SIDEWALK WITH 6X6/10X10 W/M OVER 6" OF NATIVE SOIL COMPACTED TO 90% RELATIVE COMPACTION PER ASTM D1557. INSTALL TOOLED CONSTRUCTION JOINTS @ 5' O.C. EACH WAY WITH EXPANSION JOINTS @ 20' O.C. EACH WAY. CONTRACTOR SHALL FINISH THE CONCRETE SURFACE WITH A MEDIUM BROOM FINISH PERPENDICULAR TO THE DIRECTION OF TRAVEL. 1.5% MAX. CROSSFALL 5% MAX. SLOPE ALONG PATH OF TRAVEL PER CURRENT ADA STANDARDS.

EASEMENTS

- 1 PRIVATE DRIVEWAY AND FIRE LANE EASEMENT PER PM16832 BOOK 289, PAGE 36-37 RECORDED ON AUGUST 17, 1999 TO BE PARTIALLY VACATED WITHIN PARCEL 2 OF PM 16832.
- 2 SEPTIC SYSTEM LEACH FIELD EASEMENT RECORDED JANUARY 10, 2006 AS INSTRUMENT NO. 2006-0057249

LEGEND

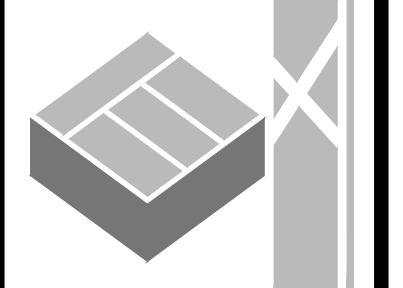
- X PROPOSED STREET SIGN
- W12- EXISTING WATER MAIN & SIZE
- S6- EXISTING SANITARY SEWER PIPE & SIZE
- D18- EXISTING STORM DRAIN PIPE & SIZE
- ⊕ EXISTING POWER POLE
- T- EXISTING TELEPHONE LINE
- OE- EXISTING OVERHEAD ELECTRICAL LINE
- C- EXISTING BURIED GAS PIPE
- TV- EXISTING BURIED CABLE TV
- ⊠ EXISTING UTILITY VAULT
- ⊕ EXISTING TELEPHONE POLE w/GUY WIRE
- ⊕ EXISTING STORM DRAIN/SEWER MANHOLE
- ⊕ PROPOSED FENCE
- ⊕ EXISTING FIRE HYDRANT
- ⊕ EXISTING VALVE BOX
- ⊕ EXISTING WATER METER
- ⊕ EXISTING GAS METER
- ⊕ EXISTING SEWER CLEANOUT
- (-303) EXISTING CONTOUR W/ELEVATION
- BOUNDARY
- W12- NEW WATER MAIN & SIZE (SEE WTR PLAN)
- S6- NEW SANITARY SEWER PIPE & SIZE (SEE SWR PLAN)
- D18- NEW STORM DRAIN PIPE & SIZE
- ⊕ NEW FIRE HYDRANT (SEE WATER PLAN)
- ⊕ NEW WATER METER (SEE WATER PLAN)
- FS 104.04 = PROPOSED GRADE ELEVATION
- TG = TOP OF GRATE
- 2.0% = PROPOSED GRADIENT
- LS = LANDSCAPE
- FL = FLOWLINE
- FS = FINISHED SURFACE
- FF = FINISHED FLOOR
- FP = FINISHED PAD
- GB = GRADE BREAK
- HP = HIGH POINT
- LS = LANDSCAPE
- LP = LOW POINT
- O.C. = ON CENTERS
- - - DRAINAGE SWALE
- - - EXISTING FENCE
- - - ADA PATH OF TRAVEL



BY: _____
 REVISION: _____
 NO. DATE: _____

 REGISTERED PROFESSIONAL ENGINEER
 CLASS OF TRADE: A - CIVIL
 No. C-64332
 STATE OF CALIFORNIA
 9/16/22

CORNERSTONE ENGINEERING
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 rick@countrylidesidecorp.com

SITE GRADING AND DRAINAGE PLAN
 3913 SIERRA HWY, ACTON, CALIFORNIA
 APN: 3217-021-029
 PARTIAL GRADING PLAN

DESIGNER: MAS
 CHECKED BY: CAW
 DATE: 09/16/2022
 DRAFTER: BEK
 SCALE: AS SHOWN
 COMP. NO: 4281900_GRD
 JOB NO.: 428-19-00
 SHEET 3 OF 8
C-2.0



CONSTRUCTION NOTES

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*SEE SHEET C-2.3, FOR STANDARDS AND DETAILS.

LEGEND (HATCH)

- A PARKING & DRIVE AISLE PAVEMENT. INSTALL 3" TYPE "A" A.C./4" CLASS II A.B./12" OF NATIVE SOIL SUBBASE COMPACTED TO 95% M.D.D. PER ASTM D1557.
- B HEAVY DUTY CONCRETE: 6" CLASS "A" P.C. CONCRETE/4" CLASS II A.B./12" OF NATIVE SOIL COMPACTED TO 95% RELATIVE COMPACTION. #4 REINFORCING BARS @ 24" O.C. EACH WAY.
- 5 CONCRETE FLATWORK: CONSTRUCT 4" THICK PORTLAND CEMENT CONCRETE SIDEWALK WITH 6X6/10X10 W/M OVER 6" OF NATIVE SOIL COMPACTED TO 90% RELATIVE COMPACTION PER ASTM D1557. INSTALL TOoled CONSTRUCTION JOINTS @ 5' O.C. EACH WAY WITH EXPANSION JOINTS @ 20' O.C. EACH WAY. CONTRACTOR SHALL FINISH THE CONCRETE SURFACE WITH A MEDIUM BROOM FINISH PERPENDICULAR TO THE DIRECTION OF TRAVEL. 1.5% MAX. CROSSFALL. 5% MAX. SLOPE ALONG PATH OF TRAVEL PER CURRENT ADA STANDARDS.

EASEMENTS

- 1 PRIVATE DRIVEWAY AND FIRE LANE EASEMENT PER PM16832 BOOK 289, PAGE 36-37 RECORDED ON AUGUST 17, 1999
- 2 SEPTIC SYSTEM LEACH FIELD EASEMENT RECORDED JANUARY 10, 2006 AS INSTRUMENT NO. 2006-0057249

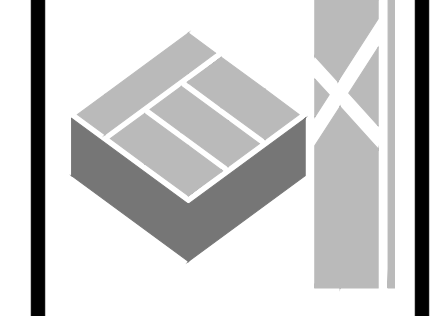
LEGEND

- X PROPOSED STREET SIGN
- W12 EXISTING WATER MAIN & SIZE
- S6 EXISTING SANITARY SEWER PIPE & SIZE
- D18 EXISTING STORM DRAIN PIPE & SIZE
- CO EXISTING POWER POLE
- T EXISTING TELEPHONE LINE
- OE EXISTING OVERHEAD ELECTRICAL LINE
- G EXISTING BURIED GAS PIPE
- TV EXISTING BURIED CABLE TV
- U EXISTING UTILITY VAULT
- EX EXISTING TELEPHONE POLE w/GUY WIRE
- SD EXISTING STORM DRAIN/SEWER MANHOLE
- PROPOSED FENCE
- EX EXISTING FIRE HYDRANT
- EX EXISTING VALVE BOX
- EX EXISTING WATER METER
- EX EXISTING GAS METER
- EX EXISTING SEWER CLEANOUT
- EX EXISTING CONTOUR w/ELEVATION
- BOUNDARY
- W12 NEW WATER MAIN & SIZE (SEE WTR PLAN)
- S6 NEW SANITARY SEWER PIPE & SIZE (SEE SWR PLAN)
- D18 NEW STORM DRAIN PIPE & SIZE
- EX NEW FIRE HYDRANT (SEE WATER PLAN)
- EX NEW WATER METER (SEE WATER PLAN)
- FS 104.04 = PROPOSED GRADE ELEVATION
- TG = TOP OF GRATE
- 2.00% = PROPOSED GRADIENT
- LS = LANDSCAPE
- FL = FLOWLINE
- FS = FINISHED SURFACE
- FF = FINISHED FLOOR
- FP = FINISHED PAD
- GB = GRADE BREAK
- HP = HIGH POINT
- LS = LANDSCAPE
- LP = LOW POINT
- O.C. = ON CENTERS
- DRAINAGE SWALE
- - - EXISTING FENCE
- - - ADA PATH OF TRAVEL

BY: _____
 REVISION: _____
 NO. DATE: _____

 9/16/22

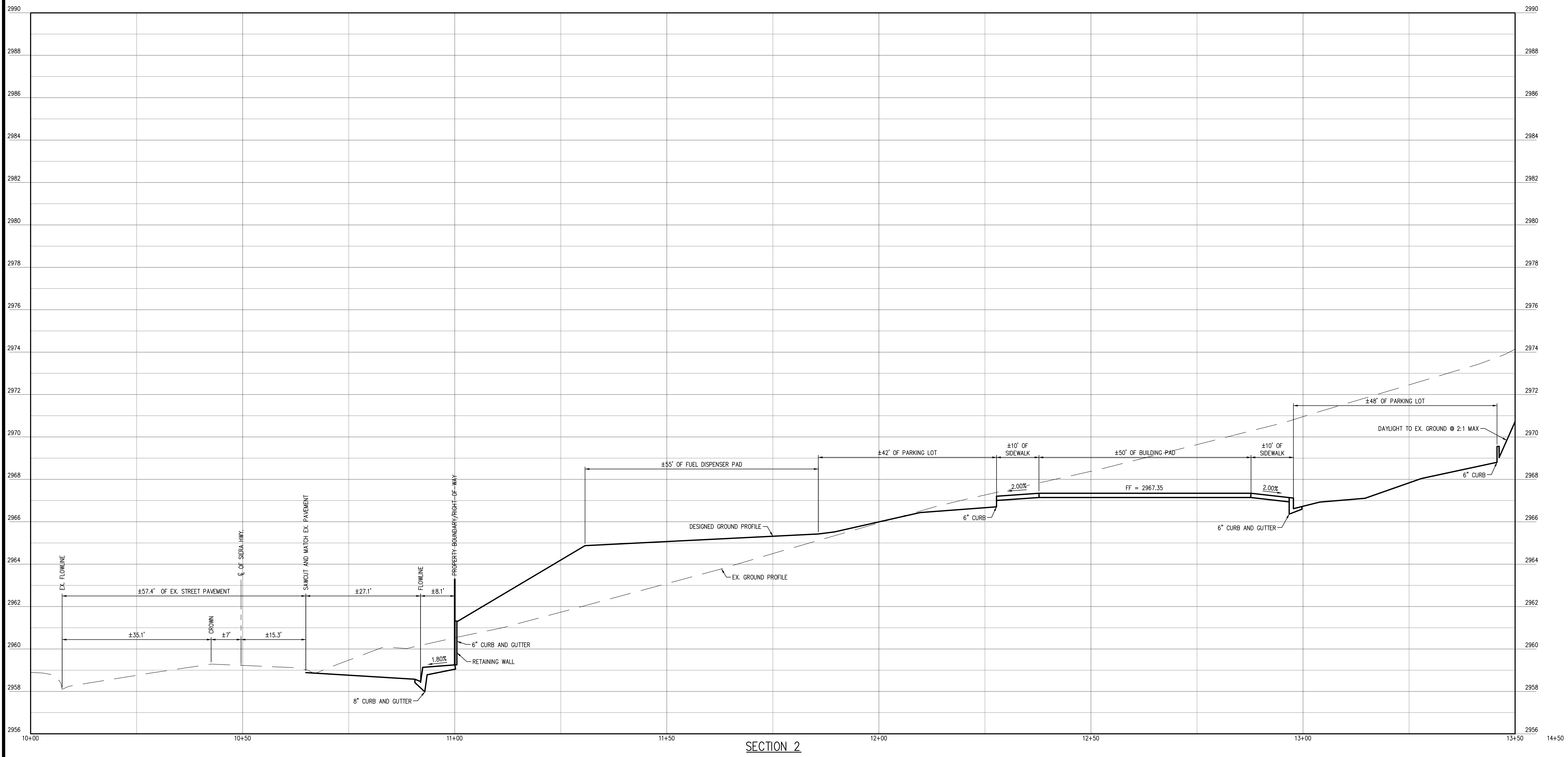
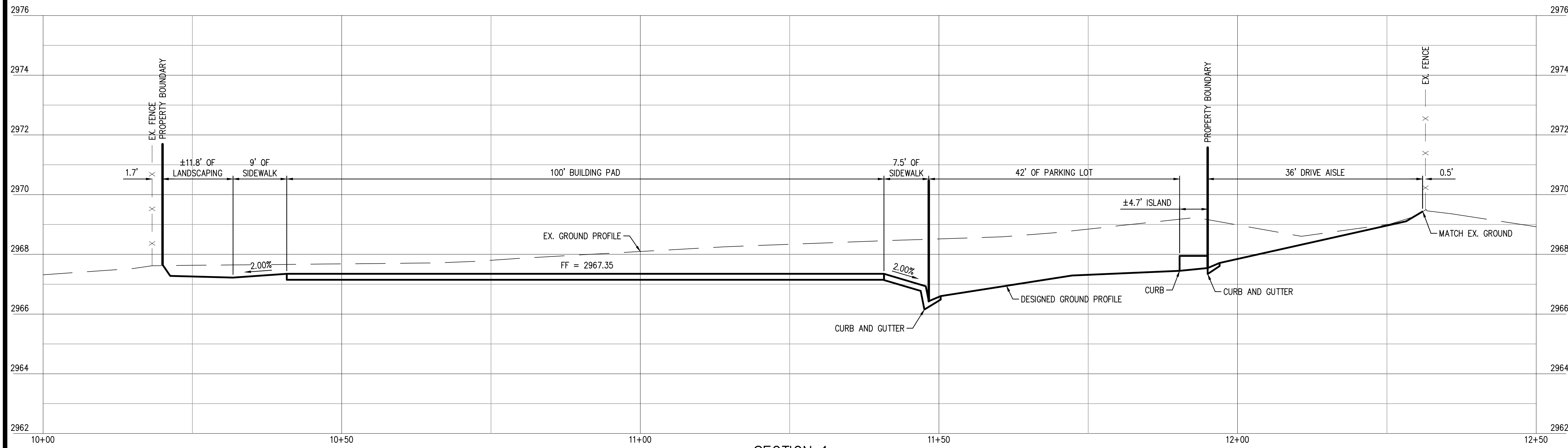
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DEVELOPMENT BY:
PRASAYU COMM. CONSTRUCTION
 1631 SOUTH COMANCHE DRIVE
 BAKERSFIELD, CA 93307
 rick@countrylsidecorp.com

SITE GRADING AND DRAINAGE PLAN
 3913 SIERRA HWY, ACTON, CALIFORNIA
 APN: 3217-021-029
 PARTIAL GRADING PLAN

DESIGNER: MAS
 CHECKED BY: CAW
 DATE: 09/16/2022
 DRAFTER: BEK
 SCALE: AS SHOWN
 COMP. NO: 4281900_GRD
 JOB NO.: 428-19-00
 SHEET: 4
 OF: 8
 C-2.1



BY:	
REVISION:	
NO. DATE:	

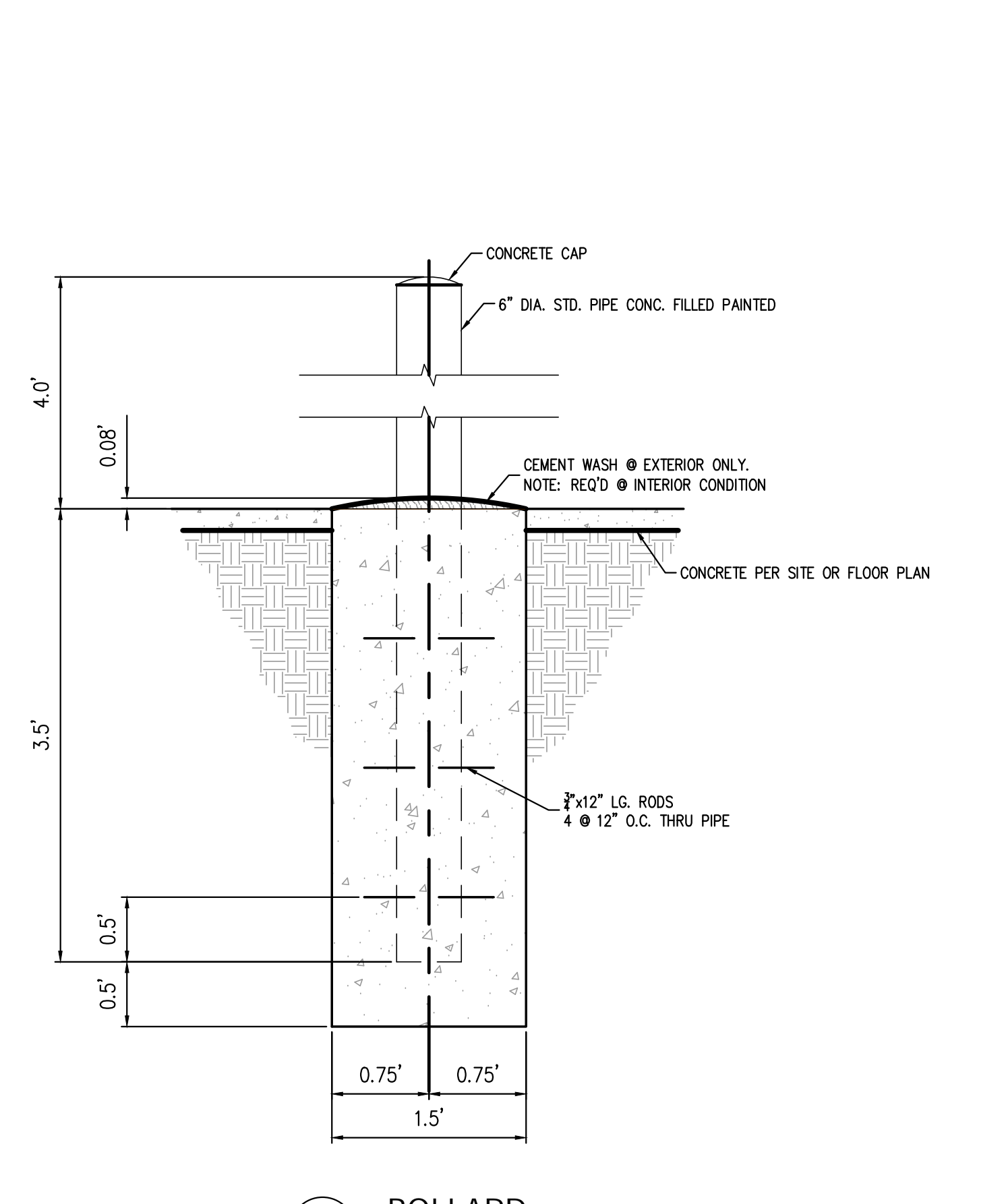
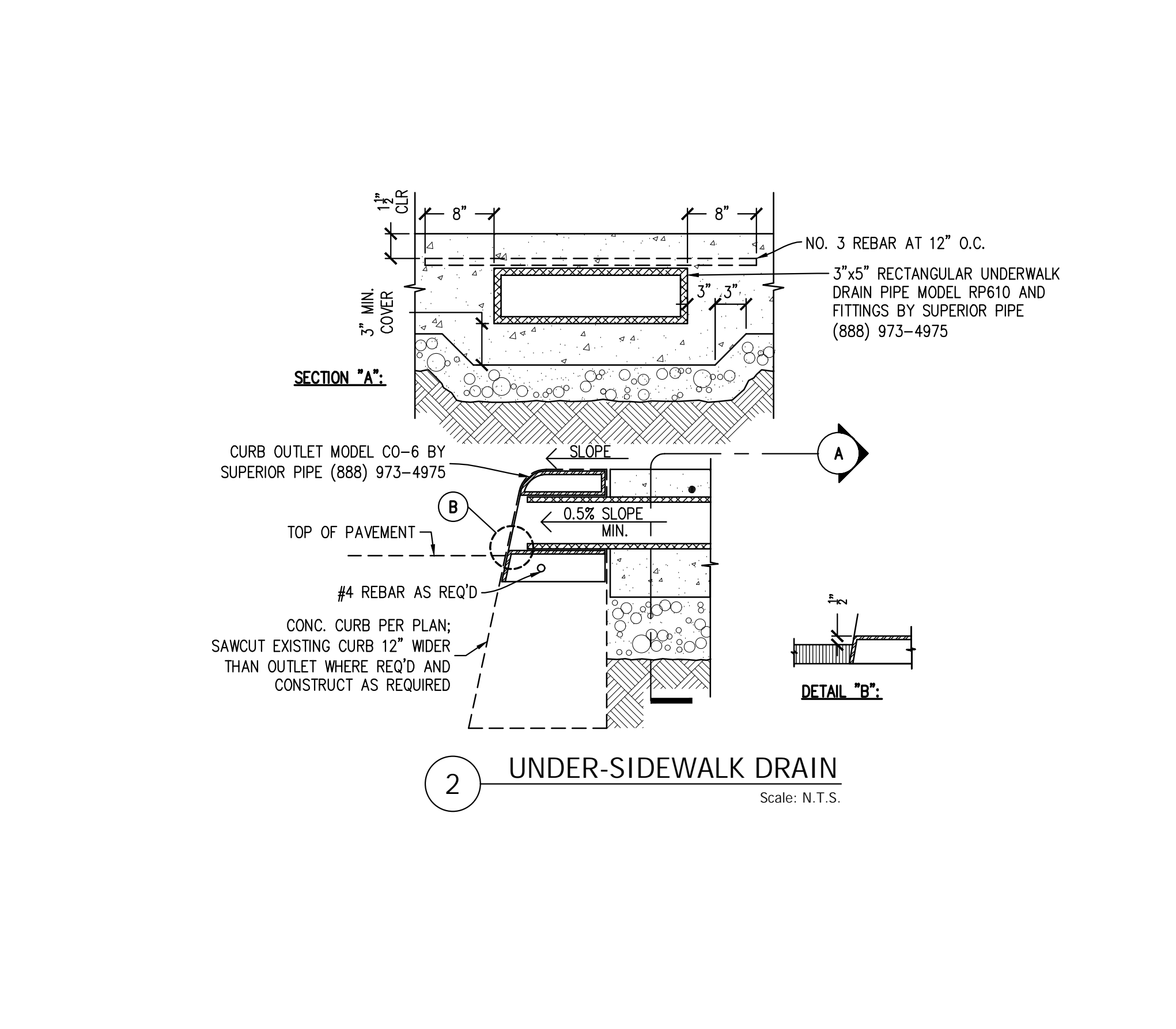
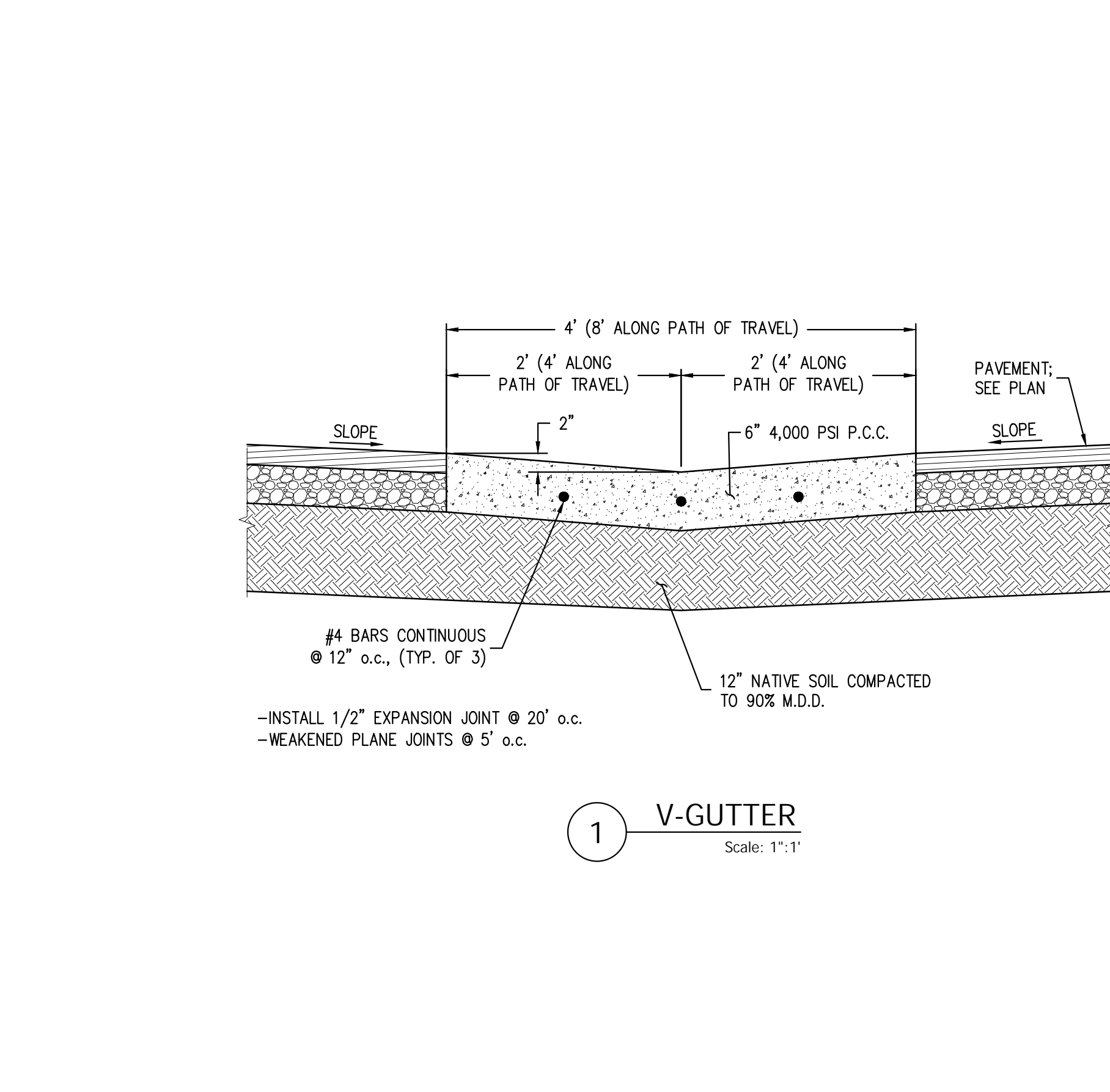
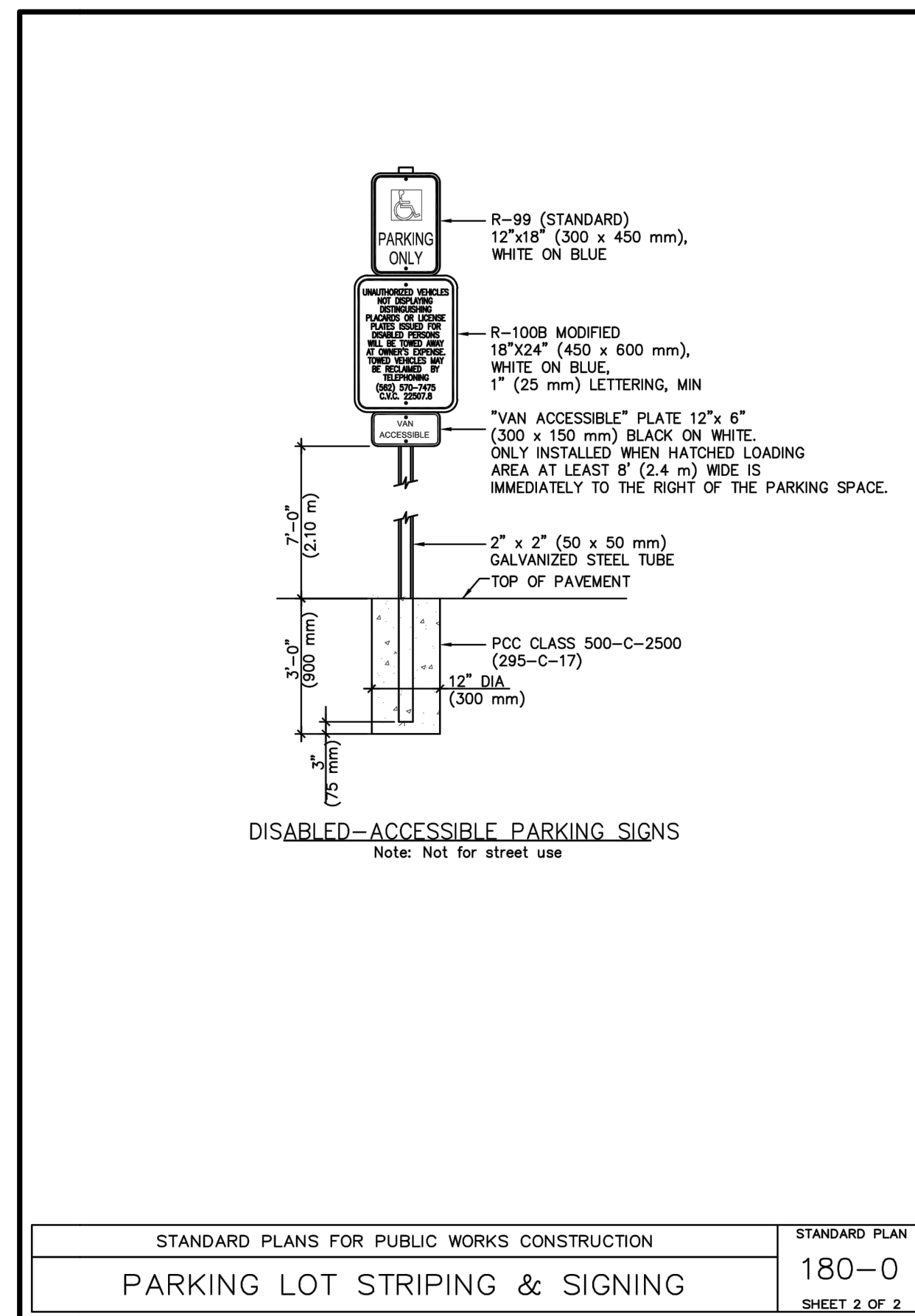
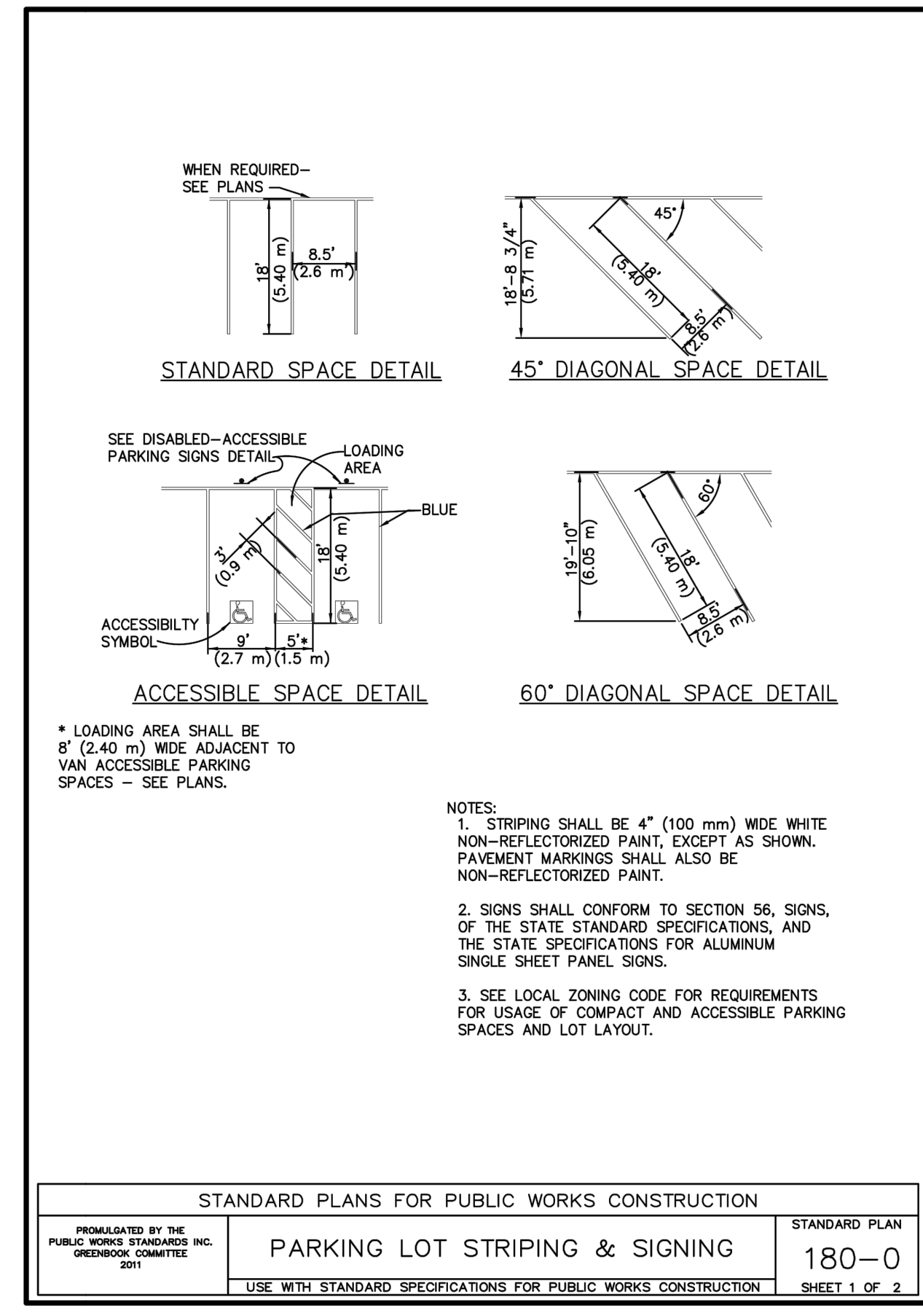
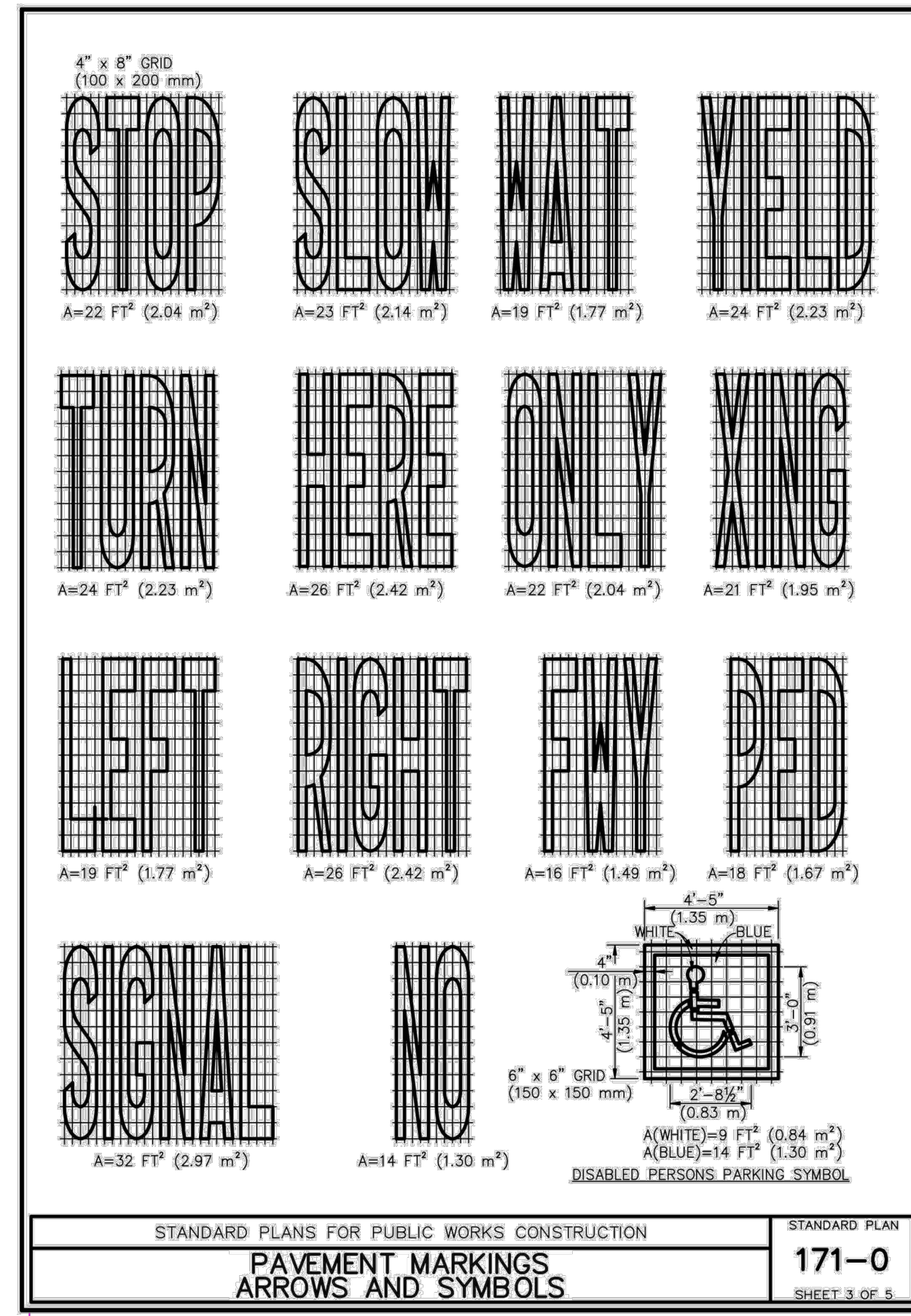
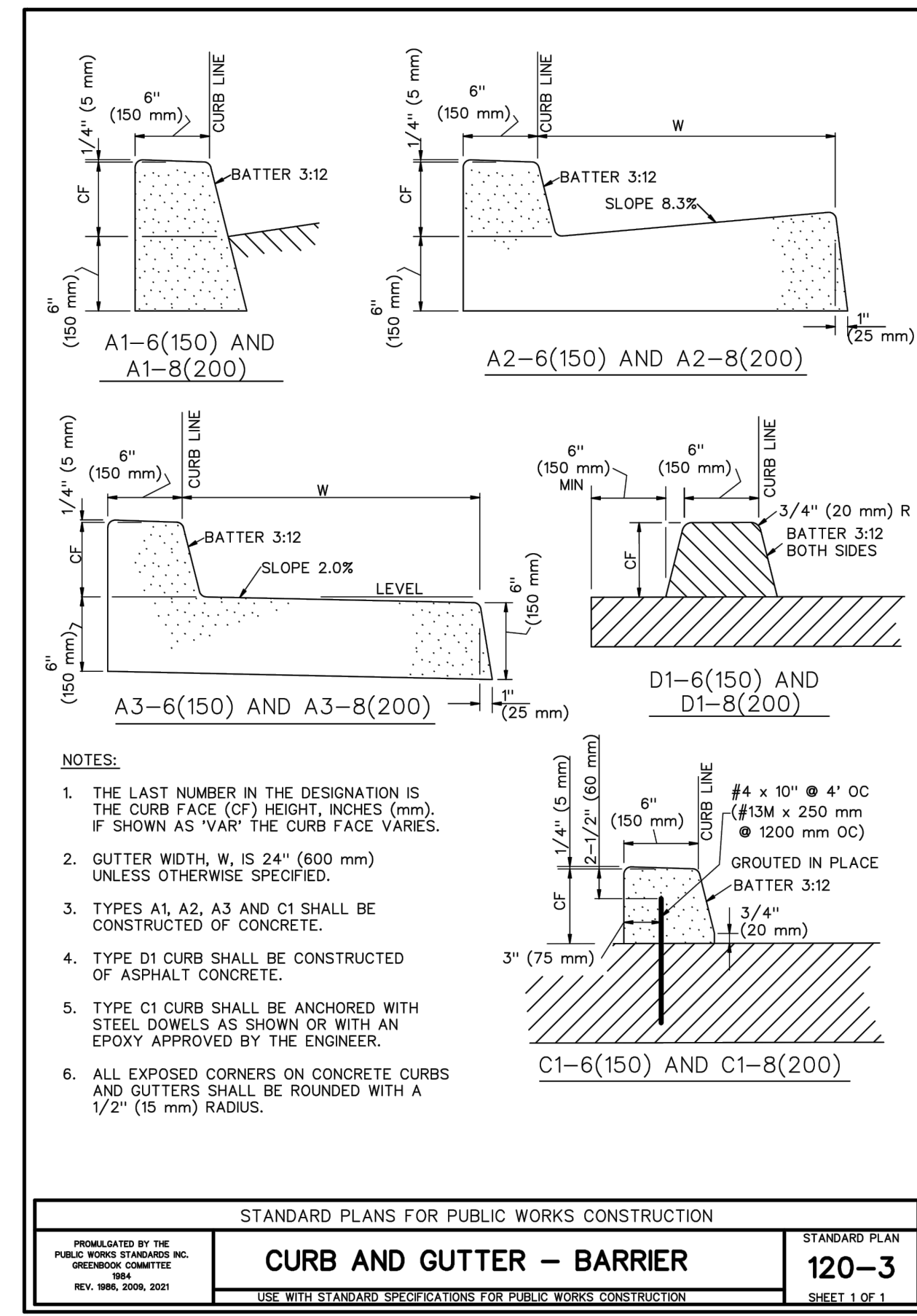
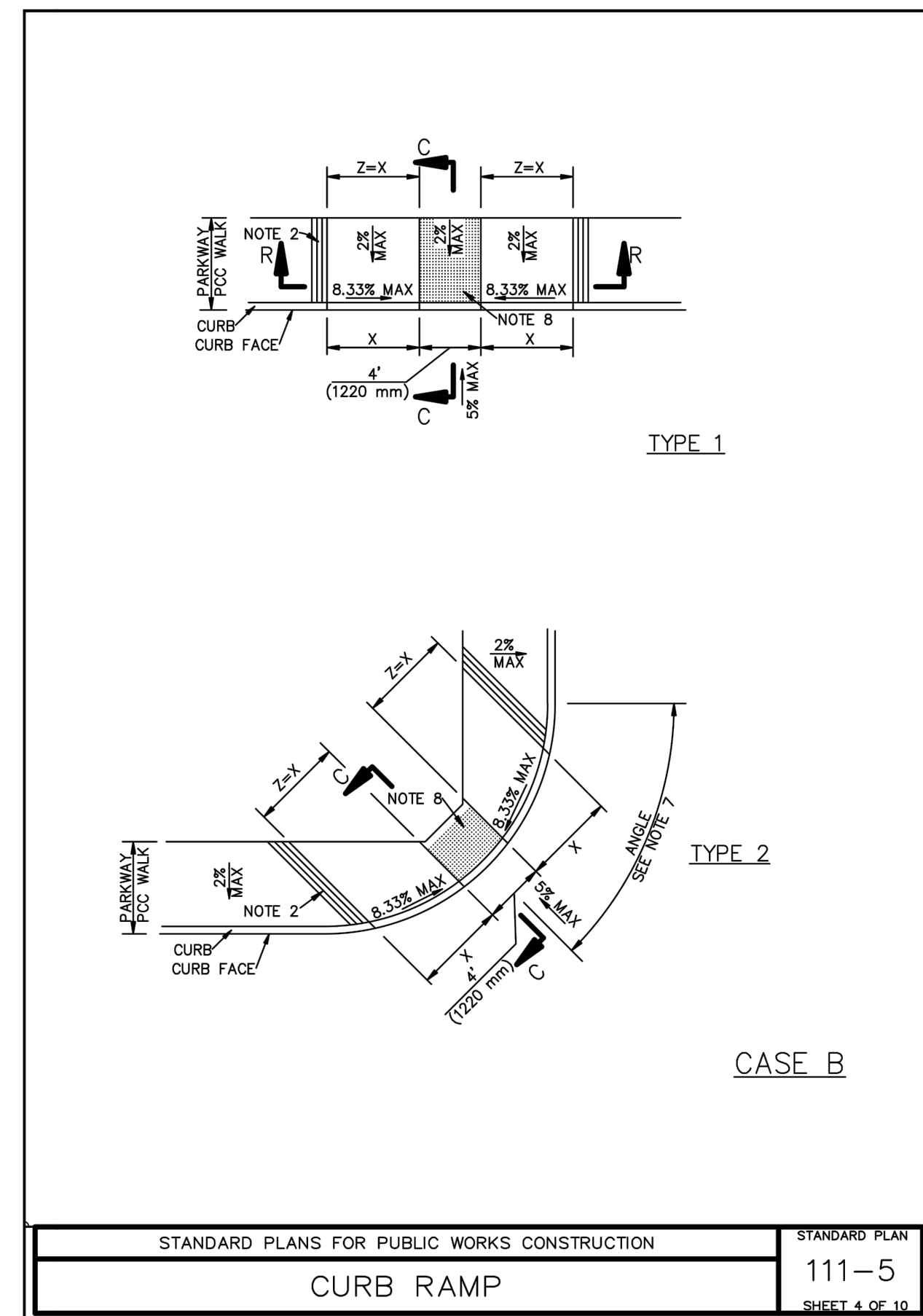
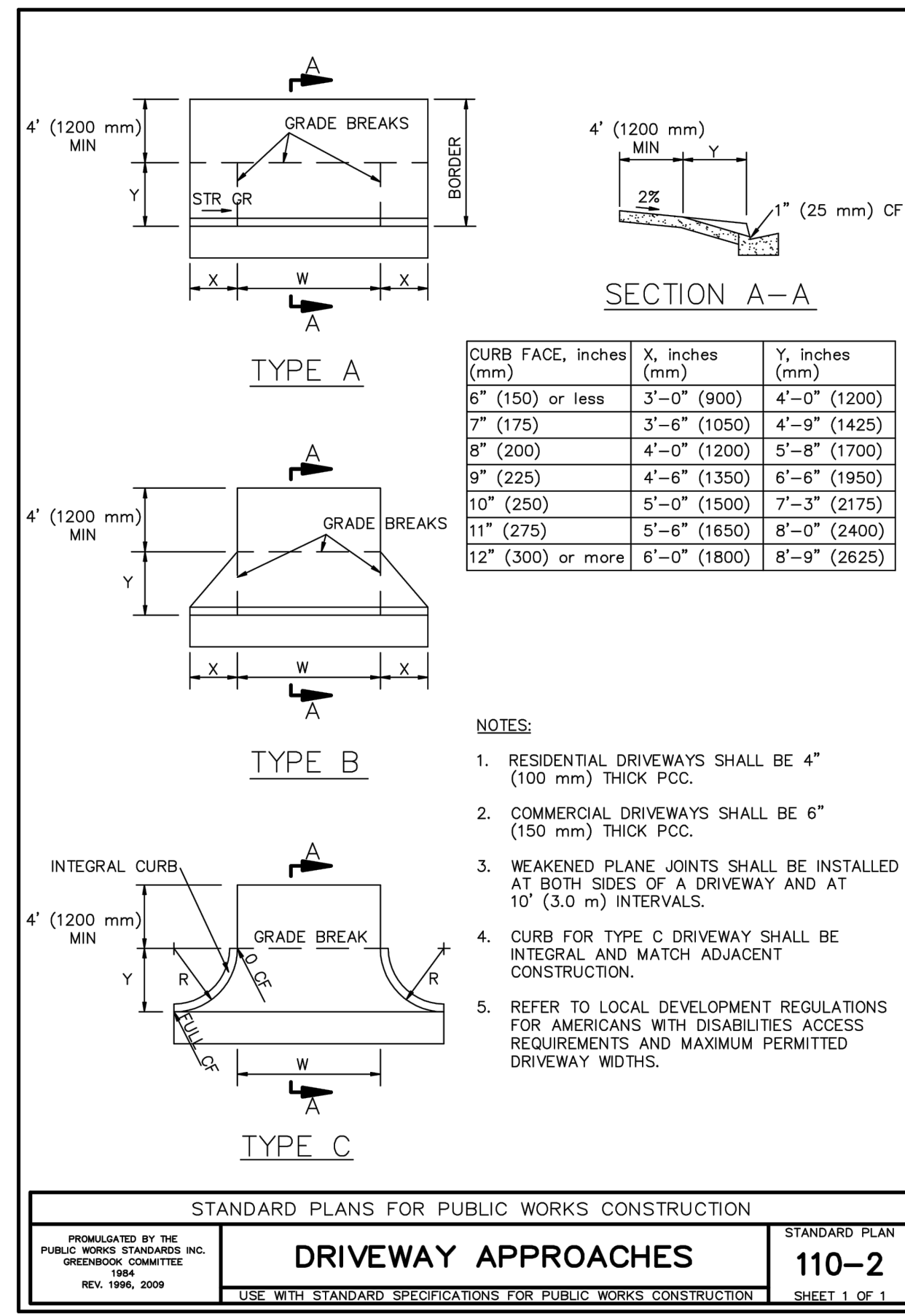
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BAKERSFIELD, CA 93307
rick@countryssidecorp.com

SITE GRADING AND DRAINAGE PLAN
3913 SIERRA HWY, ACTON, CALIFORNIA
APN: 3217-021-029
SECTIONS

DESIGNER:	MAS
CHECKED BY:	CAW
DATE:	09/16/2022
DRAFTER:	BEK
SCALE:	AS SHOWN
COMP. NO.:	4281900_GRD
JOB NO.:	428-19-00
SHEET	5
OF	8

C-2.2



BY: _____

REVISION: _____

NO. DATE: _____

REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 No. C-64332
 BLAIR KINGWELL CONTRACTOR

9/16/22

CORNERSTONE ENGINEERING

CONSULTANTS • ENGINEERS • LAND SURVEYORS

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DEVELOPMENT BY:

PRASAYUS COMM. CONSTRUCTION

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 BAKERSFIELD, CA 93307
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SITE GRADING AND DRAINAGE PLAN

3913 SIERRA HWY, ACTON, CALIFORNIA

APN: 3217-021-029

DETAILS AND STANDARDS

DESIGNER: MAS

CHECKED BY: CAW

DATE: 09/16/2022

DRAFTER: BEK

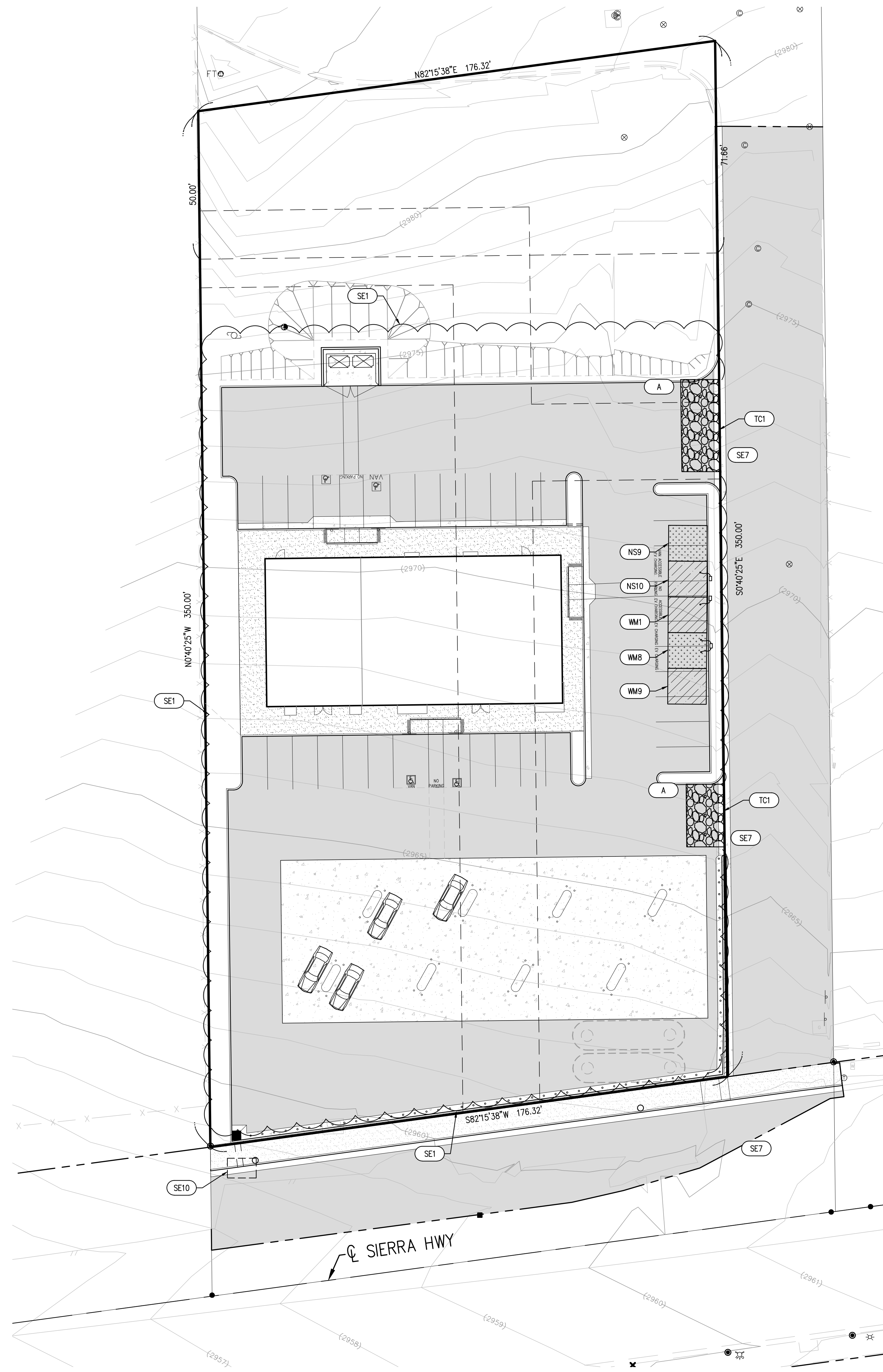
SCALE: AS SHOWN

COMP. NO: 4281900_GRD

JOB NO.: 428-19-00

SHEET 6 OF 8

C-2.3

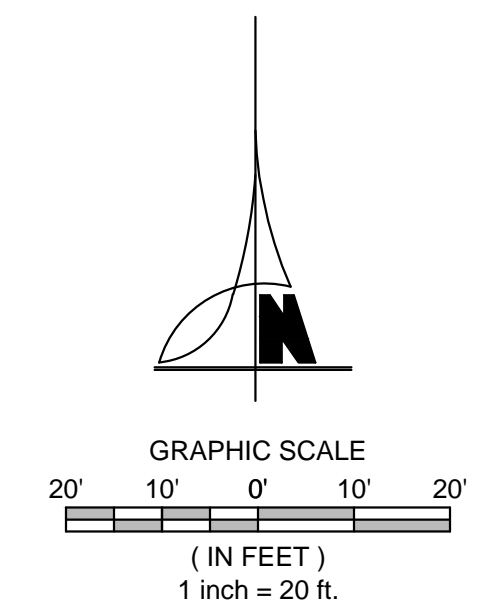


EROSION CONTROL NOTES

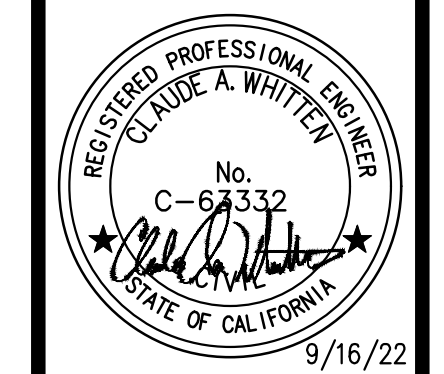
1. IN CASE OF EMERGENCY, CALL CORNERSTONE ENGINEERING, INC. (661) 325-9474.
2. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
3. EROSION CONTROL DEVICES SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL.
4. ALL REMOVABLE EROSION PROTECTIVE DEVICES SHALL NOT BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.
5. AFTER A RAINSTORM ALL SILT AND DEBRIS SHALL BE REMOVED FROM STREETS, CHECK BERMS AND BASINS.
6. GRADED AREAS ON THE PERMITTED AREA PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE TO BE DIRECTED TOWARD DE-SILTING FACILITIES.
7. THE PERMITTEE AND CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATED A HAZARDOUS CONDITION.
8. THE UNDERSIGNED CIVIL ENGINEER SHALL INSPECT THE EROSION CONTROL WORK AND ENSURE THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED PLANS.

EROSION LEGEND

- (SE1) CONSTRUCT SILT FENCE IN ACCORDANCE WITH BMP FACTS SHEET SE-1. SEE BMP "H" ON SHEET C-2.5
- (SE5) CONSTRUCT FIBER ROLL IN ACCORDANCE WITH BMP FACTS SHEET SE-5. SEE BMP "I" ON SHEET C-2.5
- (SE7) STREET SWEEPING IN ACCORDANCE WITH BMP FACTS SHEET SE-7.
- (SE10) INSTALL FILTER FABRIC INLET PROTECTION OVER INLETS IN ACCORDANCE WITH BMP SE-10, SEE BMP "A" ON SHEET C-2.5
- (TC1) STABILIZED CONSTRUCTION ENTRY/EXIT POINT IN ACCORDANCE WITH BMP FACTS SHEET TC-1, SEE BMP "C" ON SHEET C-2.5
- (WM1) CONSTRUCT MATERIALS STORAGE AREA IN ACCORDANCE WITH BMP FACTS SHEET WM-1, SEE BMP "E" ON SHEET C-2.5
- (WM8) CONSTRUCT CONCRETE WASH OUT AREA. SEE BMP "F" ON SHEET C-2.5
- (WM9) CONSTRUCT SANITARY WASTE MANAGEMENT AREA IN ACCORDANCE WITH BMP FACTS SHEET WM-9.
- (NS-9) CONSTRUCT VEHICLE/EQUIPMENT REFUELING AREA IN ACCORDANCE WITH BMP FACTS SHEET NS-9. SEE BMP "G" ON SHEET C-2.5
- (NS-10) CONSTRUCT VEHICLE/EQUIPMENT MAINTENANCE AREA IN ACCORDANCE WITH BMP FACTS SHEET NS-10, SEE BMP "B" ON SHEET C-2.5
- (A) SPEED LIMIT SIGN: 15 MPH



BY:	
NO. DATE:	
REVISION:	



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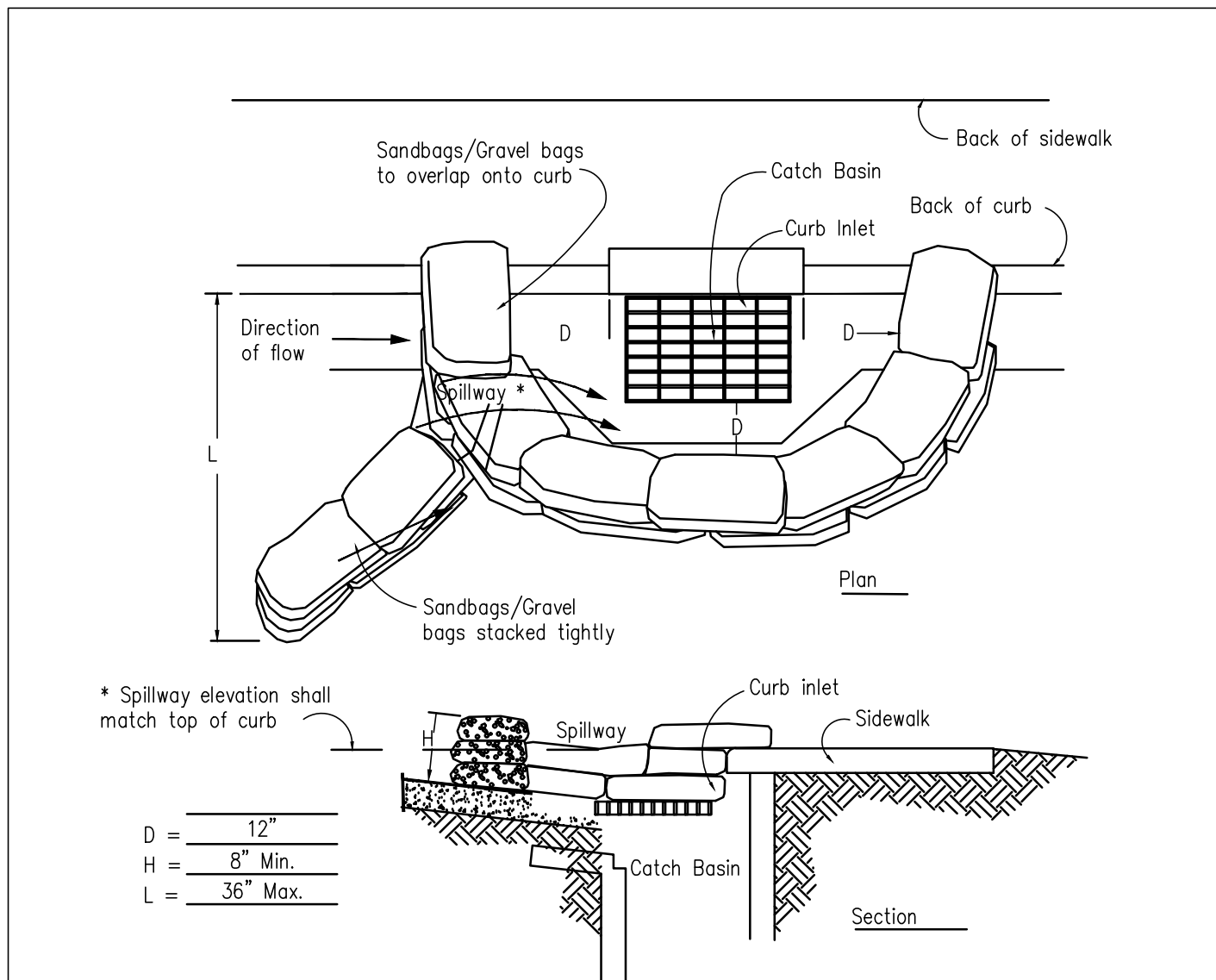
SITE GRADING AND DRAINAGE PLAN
3913 SIERRA HWY, ACTON, CALIFORNIA
APN: 3217-021-029
EROSION & DUST CONTROL PLAN

DESIGNER:	MAS
CHECKED BY:	CAW
DATE:	09/16/2022
DRAFTER:	BEX
SCALE:	AS SHOWN
COMP. NO:	4281900_GRD
JOB NO.:	428-19-00
SHEET	
C-2.4	7 OF 8

BEST MANAGEMENT PRACTICES (BMP's)

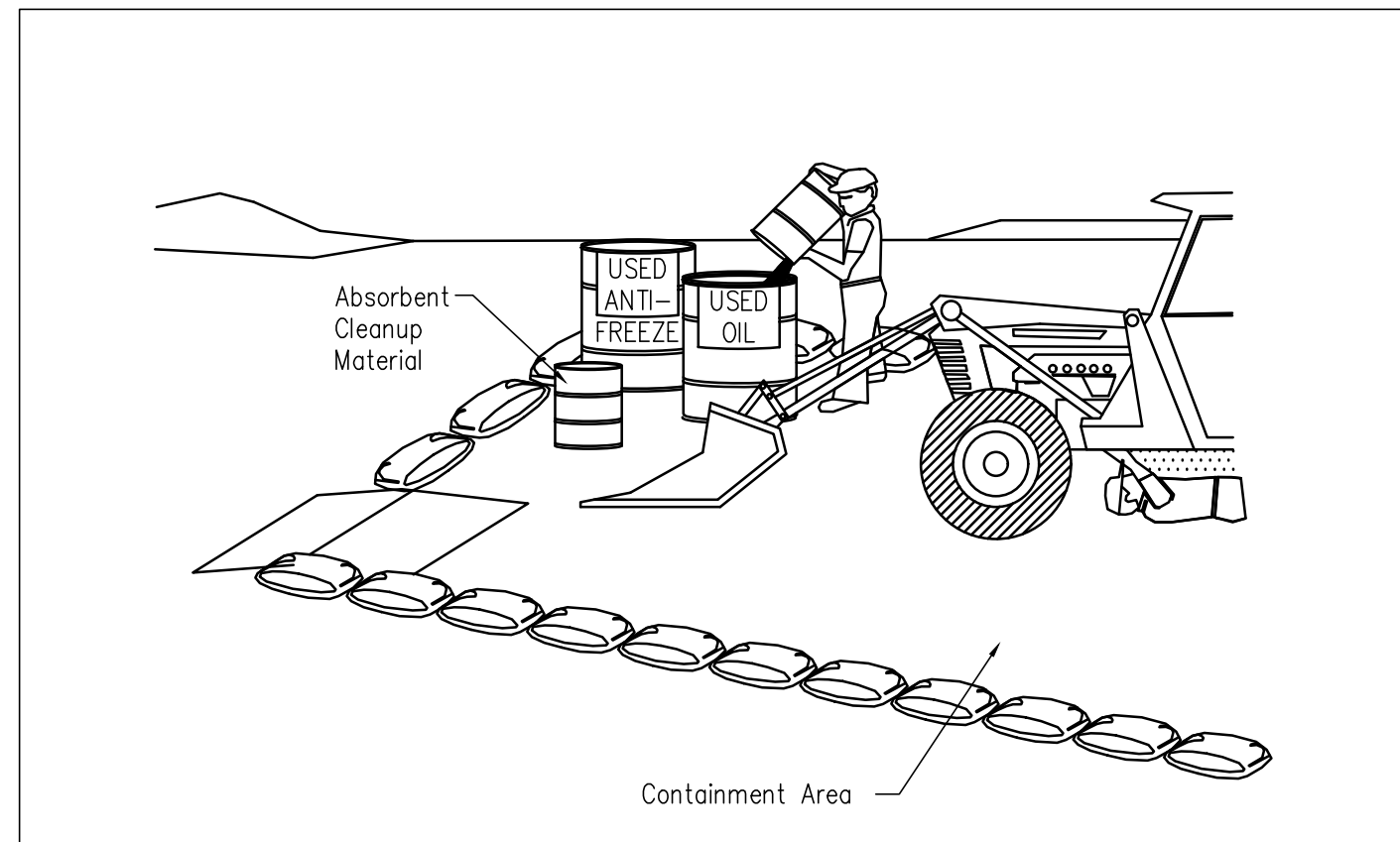
General Notes

- Best Management Practices (BMP's) contained herein reflect minimum requirements. Alternate methods providing equal or greater protection may be utilized. For additional BMP's refer to California Stormwater BMP Handbooks, available at WWW.CABMPHANDBOOKS.COM.
- All construction activity shall be performed in accordance with a Stormwater Pollution Prevention Plan (SWPPP) developed and implemented in compliance with requirements of the Kern County Stormwater Management Program, National Pollution Discharge Elimination System (NPDES) Permit.
- The SWPPP shall:
 - Identify potential pollutant sources and include the design and placement of BMP's to effectively prohibit the entry of pollutants from the construction site into and onto the street and storm drain system during construction.
 - Be kept on site and amended to reflect changing conditions throughout the course of construction.
 - Be kept up to date. Any additional updates requested by agency representative are to be made immediately.
- Non-Stormwater discharges are prohibited from entering any storm drain system and/or street.
- Discharges of pumped ground water require a discharge permit from the State of California Regional Water Quality Control Board (RWQCB).
- Pollutants shall be removed from stormwater discharges to the Maximum Extent Practicable (MEP) through design & implementation of the SWPPP.
- A standby crew for emergency work shall be available at all times during the rainy season (Nov. 1 to Apr. 15). Necessary materials shall be available on site and stockpiled at convenient locations to facilitate rapid construction of emergency devices when rain is imminent.
- Portable sanitary facilities shall be located on a relatively level ground away from traffic areas, drainage courses, and storm drain inlets.
- Employees, subcontractors and suppliers shall be educated on all BMP's including concrete waste storage and disposal procedures.
- Sediment control practices shall effectively prevent a net increase of sediment load in stormwater discharge.



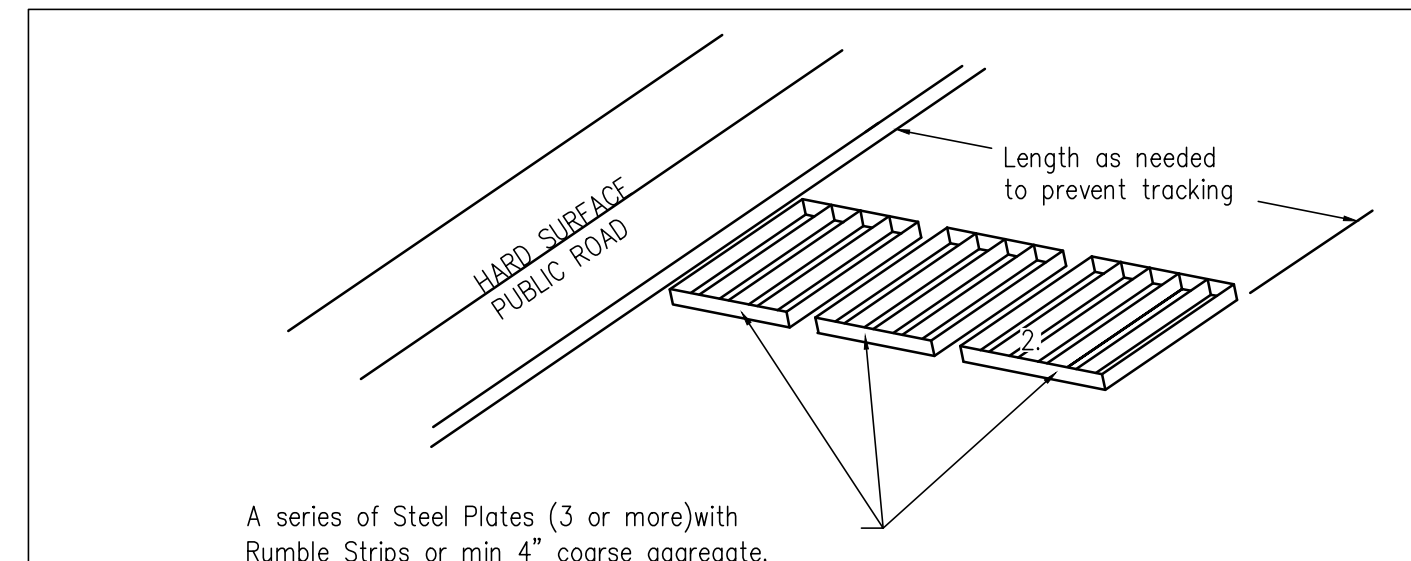
- * Spillway elevation shall match top of curb
- D = 12"
H = 6" Min.
L = 36" Max.
- Notes:
- Catch Basin/Inlet protection shall be installed wherever there is a potential of stormwater or non-stormwater being discharged into it.
 - Inlet protection is required along with other pollution prevention measures such as; erosion control, soil stabilization, and measures to prevent tracking onto paved surfaces.
 - Modify inlet protection as needed to avoid creating traffic hazards.
 - Include inlet protection measures at hillside ditches and misc. drainage swales.
 - Inlet protection shall be inspected and accumulated sediments removed. Sediment shall be disposed of properly and in a manner that assures that the sediment does not enter the storm drain system.
 - Damaged bags shall be replaced immediately.
 - Additional sandbag sediment traps shall be placed at intervals as indicated on site plan.

A CATCH BASIN / INLET PROTECTION



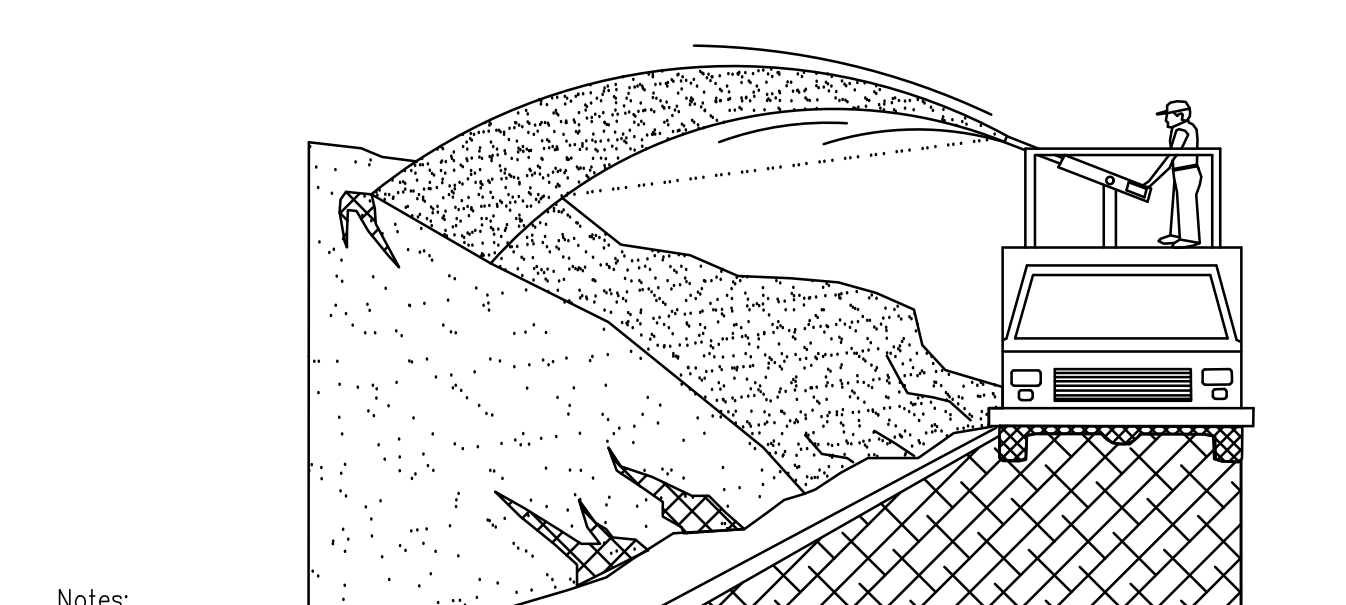
- Notes:
- Leaking vehicles and equipment shall not be allowed on-site. Equipment and vehicles shall be inspected frequently for leaks and shall be repaired immediately. Clean up spills and leaks promptly with absorbent materials; do not flush with water.
 - Vehicles and equipment shall be maintained, and repaired on-site only in designated areas. Prevent run-on and run-off from designated areas. Containment devices shall be provided and areas shall be covered if necessary.
 - Designate on-site vehicle and equipment maintenance areas, away from storm drain inlets and watercourses.
 - Always use secondary containment, such as a drain pan or drop cloth, to catch spills and leaks when removing or changing fluids.
 - Legally dispose of used oils, fluids, and lubricants.
 - Provide spill containment dikes or secondary containment around stored oil, fuel, and chemical drums.
 - Maintain an adequate supply of absorbent spill cleanup materials in designated area.

B EQUIPMENT MAINTENANCE AREAS



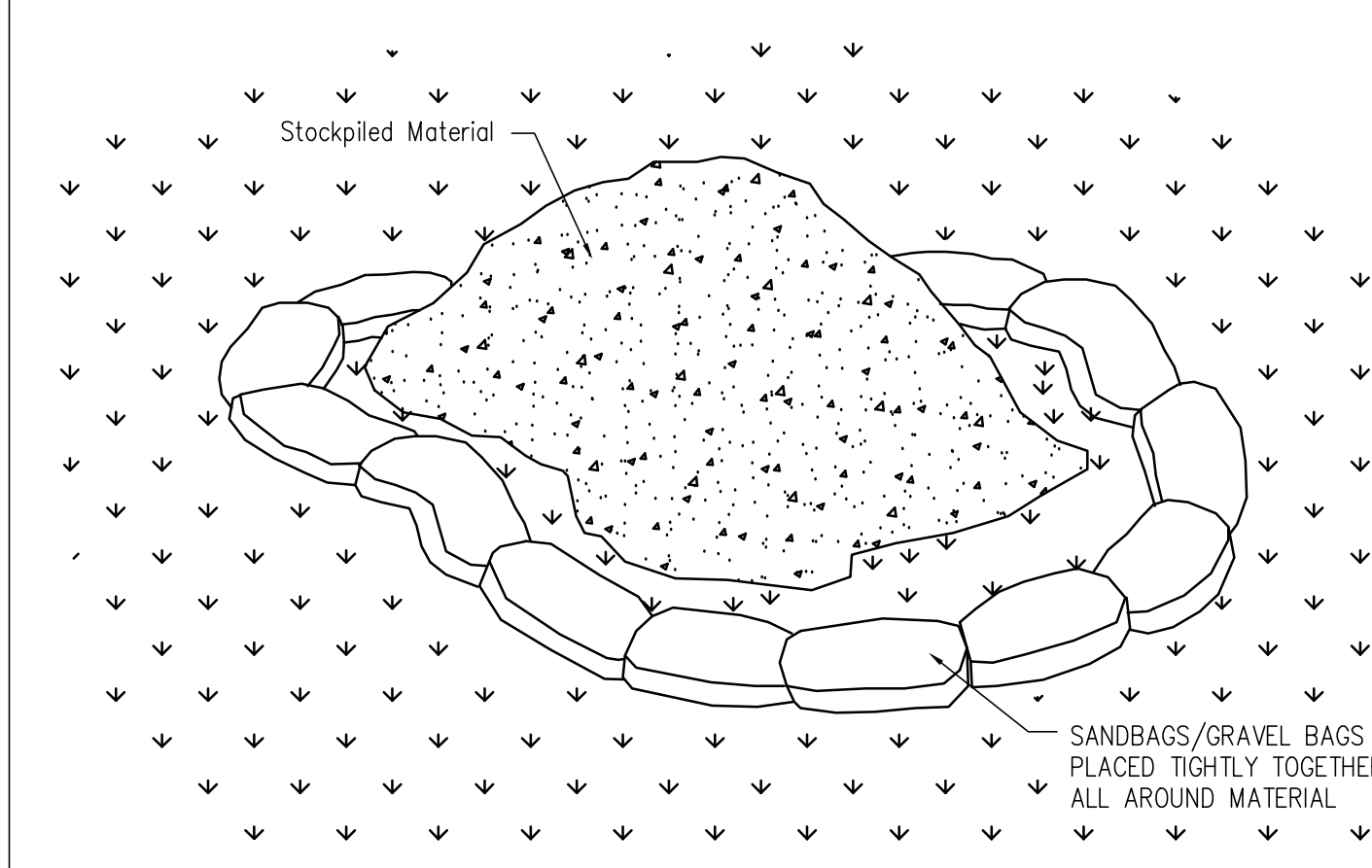
- Notes:
- Sediments and other materials shall not be tracked from the site by vehicle traffic. The construction entrance roadways shall be stabilized so as to prevent sediments from being deposited into the public roads. Depositions must be swept up immediately and may not be washed down by rain or other means into the storm drain system.
 - Stabilized construction entrance shall be:
 - Located at any point where traffic will be entering or leaving a construction site to or from a public right of way, street, alley, and sidewalk or parking area.
 - A series of steel plates with "rumble strips", and/or min 4" coarse aggregate with length, width & thickness as needed to adequately prevent any tracking onto paved surfaces.
 - Adding a wash rack with a sediment trap large enough to collect all wash water can greatly improve efficiency.
 - All vehicles accessing the construction site shall utilize the stabilized construction entrance sites.

C STABILIZED CONSTRUCTION ENTRANCE



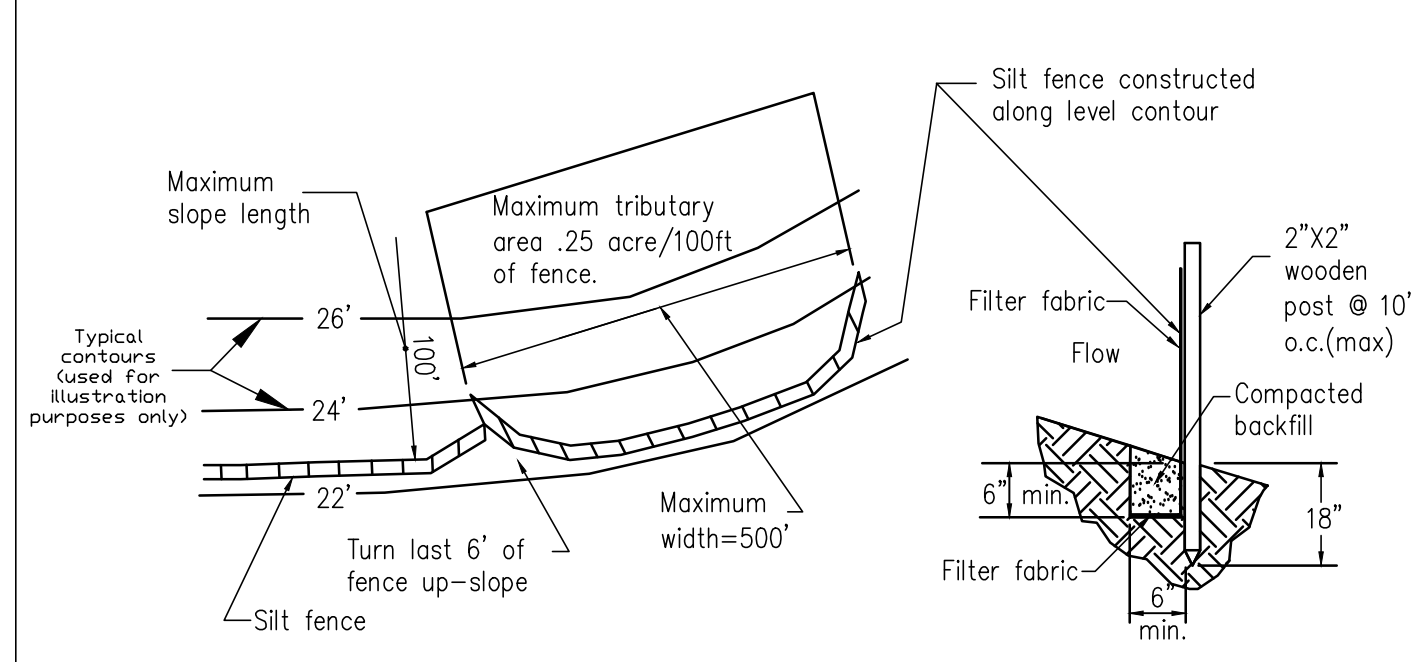
- Notes:
- Soil/Slope stabilization practices shall be designed to preserve existing vegetation where feasible and to revegetate open areas as soon as feasible after grading. These control practices shall include temporary seeding, permanent seeding, mulching, sod stabilization, vegetative buffer strips, protection of trees, or other soil stabilization practices.
 - Soil stabilization shall be implemented on all inactive disturbed areas from November 1 thru April 15 and on all disturbed areas during a rain event or potential rain.
 - Stabilization practices shall control/prevent erosion from the forces of wind and water.
 - Stabilization practices shall be implemented in conjunction with sediment trapping/filtering practices and practices to reduce the tracking of sediment onto paved roads.
 - When using straw mulching, the minimum application shall be 2 tons/acre. Mulch must be anchored immediately to minimize loss by wind or water.
 - When using hydroseeding/mulching, the minimum application of wood fiber shall be 1,500 lbs/acre, that does not contain more than 50 percent newspaper.
 - For seeding recommendations, contact: USDA, Natural Resources Conservation Service at 5000 California Avenue, Bakersfield, CA 93309-0725. Phone: (661) 336-0967.

D EROSION CONTROL



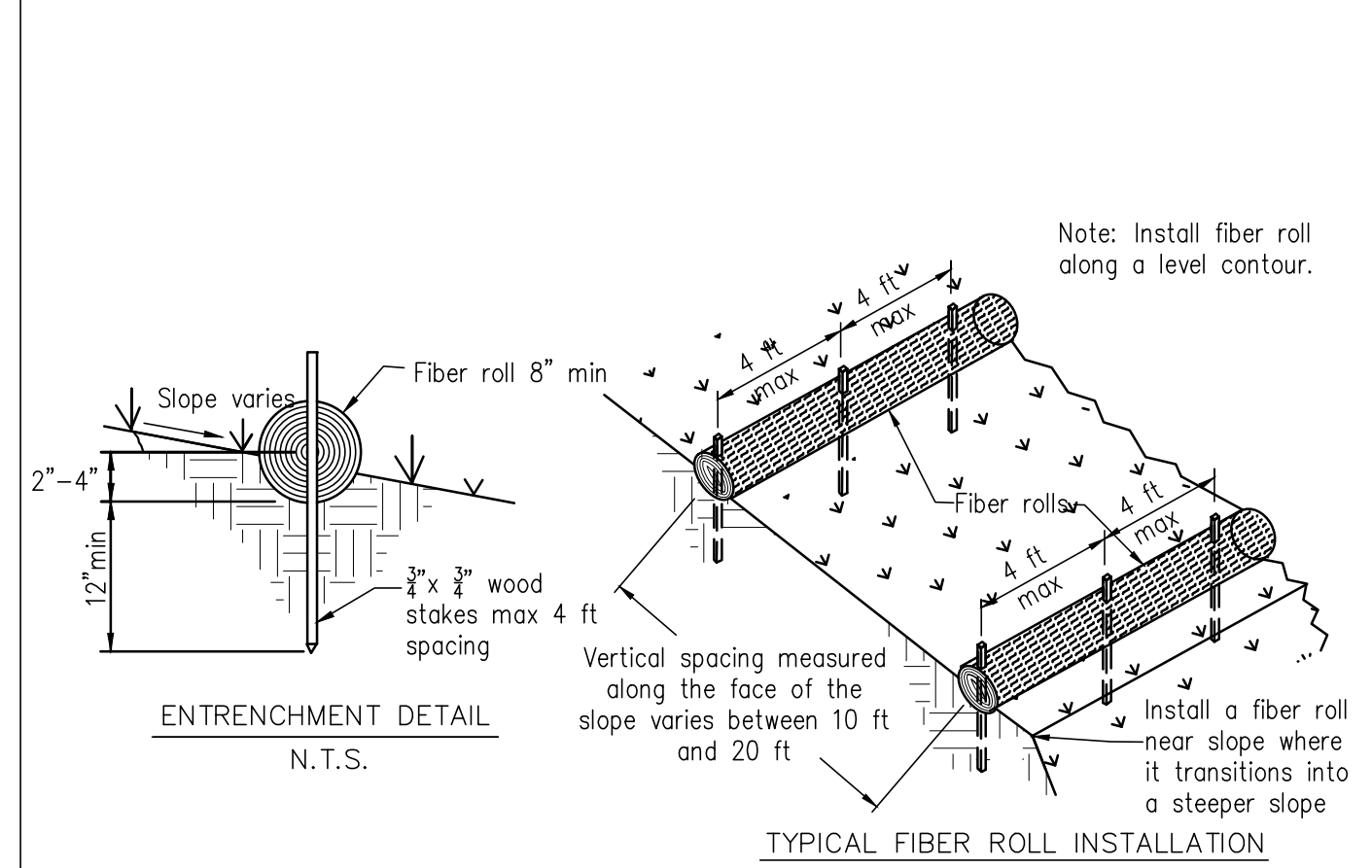
- Notes:
- Dirt and other construction related materials placed in the street or on other impervious surfaces must be contained with sandbags or other measures to prevent transport to the storm drain system.
 - Any construction material stored or stockpiled on-site shall be protected from being transported by the force of wind or water.

E MATERIAL STORAGE



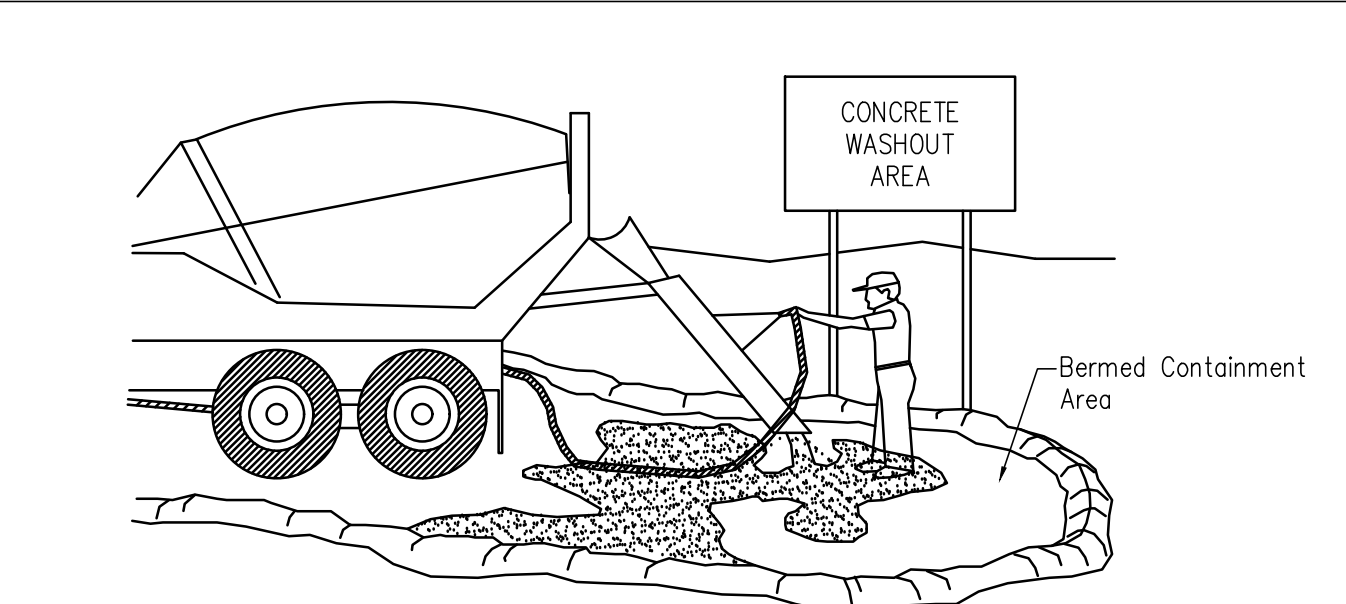
- Notes:
- Construct the silt fence along a level contour.
 - Silt fences shall remain in place until the disturbed area is permanently stabilized.
 - Provide sufficient room for runoff to pond behind the fence and allow sediment removal equipment to pass between the silt fence and toe of slope or other obstructions. About 1200 sq. ft. of ponding area shall be provided for every acre draining to the fence.
 - Turn the ends of the filter fabric uphill to prevent stormwater from flowing around the fence.
 - Leave an undisturbed or stabilized area immediately downslope from the fence.
 - Do not place in live stream or intermittently flowing channels.
 - When standard filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the posts using heavy-duty (0.6 inch) wire staples at least 1.75 inches long, tie wires or hog rings.
 - Filter fabric shall be woven polypropylene geotextile with a minimum width of 36 inches and a minimum tensile strength of 100 lb force.
 - Wood stakes shall be commercial quality lumber no less than 2 inch by 2 inch. Wood stakes shall be driven to a depth of no less than 18 inches from surface.

H SILT FENCE



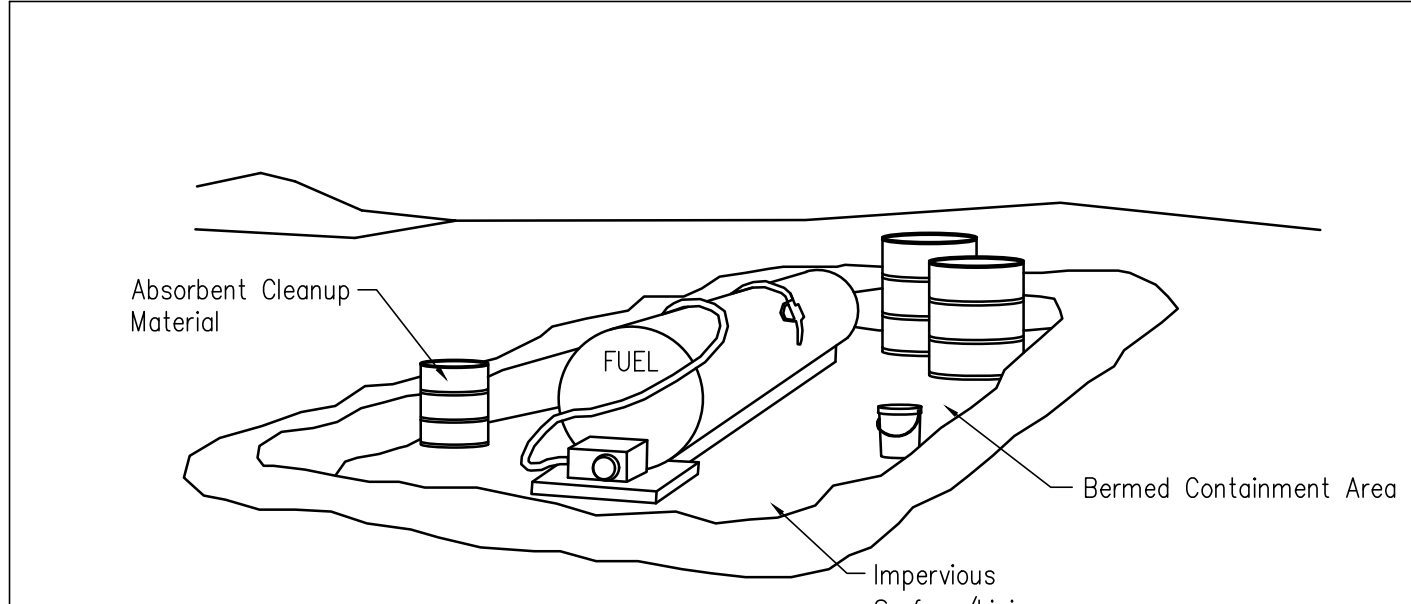
- Notes:
- Place along the toe, top, face, and at grade breaks of exposed and erodible slopes.
 - Place on the down-slope of exposed soil areas.
 - Place around temporary stockpiles.
 - Place along the perimeter of a project.
 - Slopes greater than 1:5 may require the use of 20 inch diameter fiber rolls at the top of slopes.
 - Fiber rolls shall be either prefabricated or rolled tubes of erosion control blankets with a minimum 8 inch diameter.
 - Slopes 1:4 or flatter require fiber rolls to be placed no more than 20 feet apart.
 - Slopes 1:4 to 1:2 require fiber rolls to be placed no more than 15 feet apart.
 - Slopes 1:2 or greater require fiber rolls to be placed no more than 10 feet apart.
 - Fiber rolls shall be placed in a 2 to 4 inch deep trench.
 - Wooden commercial grade stakes, 2" X 2", shall be used to secure the fiber roll to the ground surface. Stakes shall be a minimum length of 24 inches and driven a minimum of 12 inches.
 - A single-stake installation requires the stakes to be placed no more than 2 feet apart.
 - If more than one fiber roll is placed in a row, the rolls shall be overlapped, not abutted, a minimum of 1 foot.

I FIBER ROLL



- Notes:
- Excess and waste concrete shall not be washed into the street or into a drainage system.
 - For washout of concrete and mortar products, a designated containment facility of sufficient capacity to retain liquid and solid waste shall be provided on site.
 - Slurry from concrete and asphalt saw cutting shall be vacuumed or contained, dried, picked up and disposed of properly.

F CONCRETE WASTE MANAGEMENT



- Notes:
- Fueling shall be performed in a designated area, away from drainage courses.
 - Absorbent cleanup material shall be on site and used immediately in the event of a spill.

G VEHICLE / EQUIPMENT FUELING

NO. DATE: _____

REVISION: _____

REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 No. C-63332
 9/16/22

CORNERSTONE ENGINEERING
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DEVELOPMENT BY:
PRASAYUS COMM. CONSTRUCTION
 1631 SOUTH COMANCHE DRIVE
 BAKERSFIELD, CA 93307
rick@countrysidecorp.com

SITE GRADING AND DRAINAGE PLAN
 3913 SIERRA HWY, ACTON, CALIFORNIA
 APN: 3217-021-029
 BEST MANAGEMENT PRACTICES (BMP's)

DESIGNER: MAS
 CHECKED BY: CAW
 DATE: 09/16/2022
 DRAFTER: BEK
 SCALE: AS SHOWN
 COMP. NO.: 4281900_GRD
 JOB NO.: 428-19-00
 SHEET: 8 OF 8
 C-2.5