

### LOCATION MAP

N.T.S.

### OWNER INFORMATION:

GST INC  
12881 166TH STREET,  
CERRITOS, CALIFORNIA 90703  
TEL: (714) 227-4867  
E-MAIL: HNGO@GSTES.COM

### EARTHWORK QUANTITIES:

CUT: 17 C.Y.  
FILL: 266 C.Y.  
EXPORT: 0 C.Y.  
IMPORT: 249 C.Y.  
OVEREXCAVATION: 0 C.Y.

\*EARTHWORK QUANTITIES SHOWN HEREON ARE FOR PERMIT PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING HIS OWN QUANTITIES FOR BIDDING PURPOSES. IN ADDITION, EARTHWORK QUANTITIES DO NOT INCLUDE SHRINKAGE, SUBSIDENCE, OVER- EXCAVATION, OR FOOTING EXCAVATIONS.

### BENCHMARK:

THIS TOPOGRAPHIC SURVEY WAS PERFORMED BY SPIRO LAND SURVEYING, INC. ON JANUARY 25TH, 2021. HORIZONTAL CONTROL WAS PER RECORD MONUMENTS ON PARCEL MAP 10489 M.B.P. 98/11 AND BOUNDARY SHOULD NOT BE USED FOR MAPPING PURPOSES. THE BASIS OF BEARING HELD IS N89°11'12"E, THE CENTERLINE OF 166TH ST. THE VERTICAL DATUM WAS ESTABLISHED PER LOS ANGELES COUNTY BENCHMARK 2Y12310, FOUND L&DPW TAG, ELEVATION OF 65.64', PER NAVD 88'

### LOT SIZE/GRADING AREA:

LOT AREA (6224-007-002): 2.86 ACRE  
AREA OF GRADING: 12,533 SQ. FT.  
PROPOSED IMPERVIOUS AREA: 9,665 SQ. FT.  
TOTAL IMPERVIOUS AREA: 9,665+94,756=104,421 SQ. FT.

### NOTICE TO CONTRACTOR:

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.

### 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.

ENGINEER/SURVEYOR SEAL & SIGNATURE

DATE

### SOIL ENGINEER:

EARTH STRATA GEOTECHNICAL SERVICES INC  
42184 REMINGTON AVENUE, TEMECULA, CALIFORNIA 92590  
(951) 397-8315  
INFO@EARTH-STRATA.COM

### EASEMENT NOTES:

- 25' EASEMENT TO THE CITY OF CERRITOS FOR LANDSCAPING PURPOSES PER DOC. 2912, BOOK D-5162, PAGE 82
- 6' EASEMENT TO THE SOUTHERN CALIFORNIA EDISON CO. PER BOOK 33169, PAGE 43. O.R.

### SHEET INDEX:

- G1 - TITLE SHEET
- G2 - NOTES
- G3 - GRADING PLAN 1
- G4 - GRADING PLAN 2
- G5 - DETAIL 1
- G6 - DETAIL 2
- G7 - EROSION CONTROL PLAN

### EMERGENCY CONTACT:

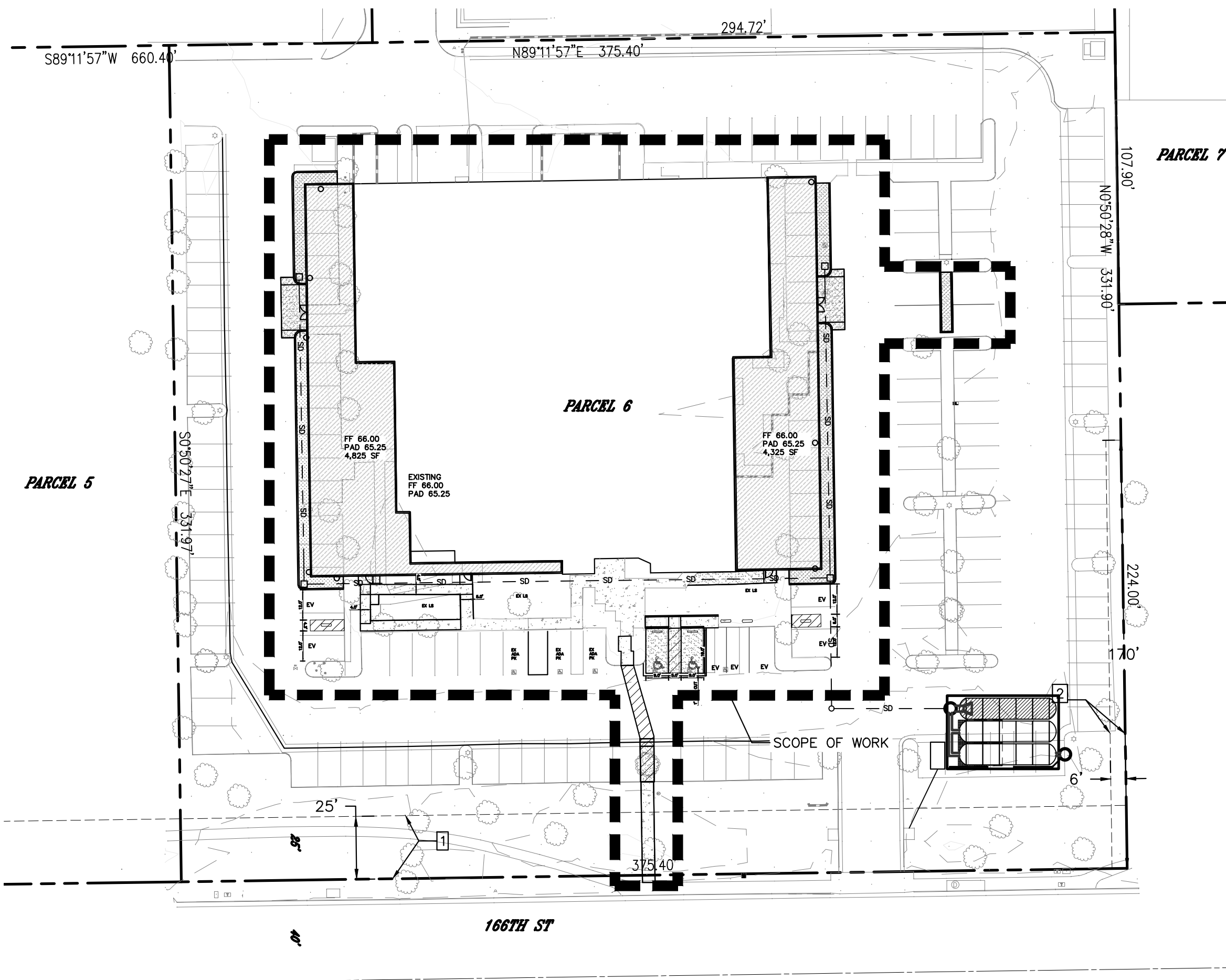
IN CASE OF EMERGENCY, PLEASE CONTACT:  
OWNER: ALICE WANG  
(---) ---  
CONTACT: HENRY NGO  
HNGO@GSTES.COM  
(714) 227-4867

### UNAUTHORIZED CHANGES & USES:

CAUTION: 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.

# PRECISE GRADING PLAN

GST OFFICE-WAREHOUSE EXPANSION  
12881 166TH STREET,  
CERRITOS, CALIFORNIA 90703  
APN: 7010-016-054



### LEGEND:

ITEM	STD./DETAIL	SYMBOL
RIGHT-OF-WAY / PROPERTY LINE		---
LIMIT OF WORK		---
EXISTING RETAINING WALL		---
PROPOSED CONCRETE		---
PROPOSED ASPHALT PAVEMENT		---
PROPOSED LANDSCAPE		---
PROPOSED SEWER LINE		---
PROPOSED WATER LINE		---
PROPOSED GAS LINE		---
PROPOSED CLEANOUT		---
PROPOSED STORM DRAIN LINE		---
PROPOSED CONTOUR		---
EXISTING CONTOUR		---
ADA PATH OF TRAVEL		---
PROPOSED CURB		---
PROPOSED SWALE		---
DEMOLITION AREA		---
ADA PATH OF TRAVEL		---
SAWCUT AREA		---

### DECLARATION OF RESPONSIBLE CHARGE ~

#### CIVIL WORK:

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY LOS ANGELES COUNTY IS CONFINED TO REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

Wilfredo Ventura

10/26/22

WILFREDO S.D. VENTURA, PE C 66532, QSD 21094  
EXPIRATION DATE: 6/30/24  
VENTURA ENGINEERING INLAND, INC  
27393 YNEZ ROAD, SUITE 159  
TEMECULA, CALIFORNIA 92591  
PHONE: (951)252-7632  
WILFREDO@VENTURAENGINEERINGINLAND.COM

### DECLARATION OF RESPONSIBLE CHARGE ~

#### GEOTECHNICAL WORK:

STEPHEN M.POOLE OF 'EARTH STRATA GEOTECHNICAL SERVICES INC.', A REGISTERED CIVIL ENGINEER, PRINCIPALLY DOING BUSINESS IN GEOTECHNICAL ENGINEERING AND/OR APPLIED SOIL MECHANICS, HEREBY CERTIFY THAT A SAMPLING AND STUDY OF THE SOIL CONDITIONS PREVALENT WITHIN THIS SITE WAS MADE BY ME OR UNDER MY DIRECTION. THESE GRADING PLANS HAVE BEEN REVIEWED BY ME OR UNDER MY DIRECTION AND CONFORM TO THE RECOMMENDATIONS MADE IN OUR GEOTECHNICAL ENGINEERING INVESTIGATION REPORT ENTITLED 'PRELIMINARY GEOTECHNICAL INTERPRETIVE REPORT', PROPOSED EXPANSION OF EXISTING COMMERCIAL BUILDING, ASSESSOR'S PARCEL NUMBER 7010-016-054, LOCATED 12881 166TH STREET,CITY OF CERRITOS, LOS ANGELES COUNTY CALIFORNIA, DATED NOVEMBER 30,2021.

TO THE BEST OF MY KNOWLEDGE, THE REFERENCED REPORT REPRESENTS THE MOST CURRENT AND COMPLETE INFORMATION RELATIVE TO THE PROPOSED GRADING OF THE SITE.IT IS THE PROFESSIONAL OPINION OF EARTH STRATA GEOTECHNICAL SERVICES INC. THAT THE CONCLUSIONS AND RECOMMENDATIONS RENDERED IN OUR REPORT ARE APPROPRIATE AND APPLICABLE TO THIS PROJECT AND THEY ARE IN SUBSTANTIAL CONFORMANCE WITH ALL APPLICABLE CODE, ORDINANCE, AND STANDARDS OF PRACTICE FOR THE PROJECT PROPOSED.

Stephen M. Poole

DATE



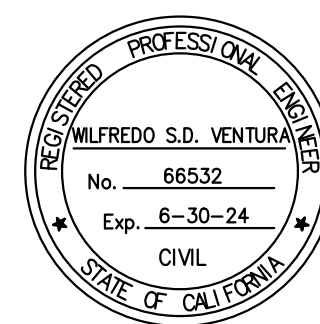
### ENGINEER / ARCHITECT STATEMENT REGARDING LID:

AS THE ARCHITECT OR ENGINEER OF THE PROJECT, I HAVE REVIEWED THE LOW IMPACT DEVELOPMENT (LID) STANDARDS MANUAL BY COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS, AND HAVE PROPOSED THE IMPLEMENTATION OF THE PERMANENT BEST MANAGEMENT PRACTICES (BMPs) APPLICABLE TO EFFECTIVELY MINIMIZE THE NEGATIVE IMPACTS OF THE PROJECTS STORMWATER RUNOFF. THE SELECTED BMPs WILL BE INSTALLED PER THE APPROVED PLANS AND AS RECOMMENDED BY THE PRODUCT MANUFACTURER AS APPLICABLE.

AS THE ARCHITECT/ENGINEER OF RECORD, I HAVE SELECTED APPROPRIATE BMPs TO EFFECTIVELY MINIMIZE THE NEGATIVE IMPACTS OF THIS PROJECTS CONSTRUCTION ACTIVITIES ON STORM WATER QUALITY. THE PROJECT OWNER AND CONTRACTOR ARE AWARE THAT THE SELECTED BMPs MUST BE INSTALLED, MONITORED, AND MAINTAINED TO ENSURE THEIR EFFECTIVENESS. THE BMPs NOT SELECTED FOR IMPLEMENTATION ARE REDUNDANT OR DEEMED NOT APPLICABLE TO THE PROPOSED CONSTRUCTION ACTIVITY.

NAME OF SIGNER SIGNATURE OF SIGNER DATE

NO.	REVISIONS	REVISED BY	APPROVED BY	DATE



PROJECT ENGINEER

DATE

### TITLE SHEET

G1

VENTURA ENGINEERING INLAND, INC  
27393 YNEZ ROAD, SUITE 159  
TEMECULA, CALIFORNIA 92591  
PHONE: (951)252-7632  
WILFREDO@VENTURAENGINEERINGINLAND.COM

Wilfredo Ventura

10/26/22

WILFREDO S.D. VENTURA

DATE

RCE 66532, EXP. 6/30/24

A.P.N. 7010-016-054

Ventura Engineering Inland INC

CIVIL SHEET 1 OF 7





REGULAR GRADING REQUIREMENTS [J105.7]:

27. THE PERMITTEE OR HIS AGENT SHALL NOTIFY THE BUILDING OFFICIAL 24 HOURS BEFORE THE GRADING OPERATION IS READY FOR EACH OF THE INSPECTIONS:
- A. PRE-GRADE INSPECTION: WHEN THE PERMITTEE IS READY TO BEGIN WORK AND BEFORE ANY GRADING OR BRUSHING IS STARTED.
- B. INITIAL GRADE: WHEN THE SITE HAS BEEN CLEARED OF VEGETATION AND UNAPPROVED FILL AND HAS BEEN SCARIFIED, BENCHED, OR OTHERWISE PREPARED FOR FILL. NO FILL SHALL HAVE BEEN PLACED PRIOR TO THIS INSPECTION.
- C. ROUGH GRADING: WHEN APPROXIMATE FINAL ELEVATIONS HAVE BEEN ESTABLISHED, DRAINAGE TERRACES, SWALES, AND OTHER DRAINAGE DEVICES NECESSARY FOR THE PROTECTION OF THE BUILDING SITES FROM FLOODING HAVE BEEN INSTALLED, BERMS HAVE BEEN INSTALLED AT THE TOP OF SLOPES, AND THE STATEMENTS REQUIRED BY SECTION J105.12 HAVE BEEN RECEIVED.
- D. FINAL INSPECTION: WHEN ALL WORK, INCLUDING INSTALLATION OF ALL DRAINAGE STRUCTURES AND OTHER PROTECTIVE DEVICES, HAS BEEN COMPLETED AND THE AS-GRADED PLAN AND REQUIRED REPORTS HAVE BEEN SUBMITTED.

ENGINEERED GRADING REQUIREMENT [J107.5]:

28. FILL SHALL BE COMPACTED TO NOT LESS THAN 90% OF MAXIMUM DENSITY WITHIN 40 FEET OF THE FINISHED GRADE AND 93% OF MAXIMUM DENSITY DEEPER THAN 40 FEET BELOW FINISHED GRADE AS DETERMINED BY A.S.T.M. SOIL COMPACTION TEST D1557, MODIFIED PROCTOR.
29. FIELD DENSITY SHALL BE DETERMINED BY SAND-CONE METHOD, A.S.T.M. D1556 -LATEST VERSION. IN FINE-GRAINED COHESIVE SOILS FIELD DENSITY MAY BE DETERMINED BY THE DRIVE-CYLINDER METHOD, A.S.T.M. D-2937- LATEST VERSION, PROVIDED NOT LESS THAN 10% OF THE REQUIRED DENSITY TESTS, UNIFORMLY DISTRIBUTED, ARE BY THE SAND-DONE METHOD. THE METHOD OF DETERMINING FIELD DENSITY SHALL BE SHOWN IN THE COMPACTION REPORT. OTHER METHODS MAY BE USED IF RECOMMENDED BY THE SOILS ENGINEER AND APPROVED IN ADVANCE BY THE BUILDING OFFICIAL.
30. SUFFICIENT TESTS OF SOIL PROPERTIES, INCLUDING SOIL TYPES AND SHEAR STRENGTH, SHALL BE MADE DURING GRADING OPERATIONS TO VERIFY COMPLIANCE WITH DESIGN CRITERIA. THE RESULTS OF SUCH TESTING SHALL BE FURNISHED TO THE BUILDING OFFICIAL UPON COMPLETION OF GRADING OPERATIONS, OR WHEN NECESSITATED BY FIELD CONDITIONS UPON REQUEST OF THE BUILDING OFFICIAL. ONE FIELD DENSITY TEST TO BE MADE AS FOLLOWS:
- A. ONE TEST FOR EACH TWO FOOT VERTICAL LEFT.
- B. ONE TEST FOR EACH 1,000 CUBIC YARD OF MATERIAL PLACED.
- C. ONE TEST WILL BE MADE AT POINT APPROXIMATELY ONE FOOT BELOW THE FILL SLOPE SURFACE ON THE BASIS OF ONE TEST FOR EACH 1,000 SQUARE FEET OF SLOPE SURFACE BUT NOT LESS THAN ONE TEST FOR EACH 10 FOOT OF VERTICAL SLOPE HEIGHT.
31. NO FILL SHALL BE PLACED UNTIL STRIPPING OF VEGETATION, REMOVAL OF UNSUITABLE SOILS, AND INSTALLATION OF SUBDRAINS (IF ANY) HAVE BEEN INSPECTED AND APPROVED BY THE SOILS ENGINEER.
32. NO ROCK OR SIMILAR MATERIAL GREATER THAN 12 INCHES IN DIAMETER WILL BE PLACED IN THE FILL UNLESS RECOMMENDATIONS FOR SUCH PLACEMENT HAVE BEEN SUBMITTED BY THE SOILS ENGINEER AND APPROVED IN ADVANCE BY THE BUILDING OFFICIAL.
33. CONTINUOUS INSPECTION BY THE SOILS ENGINEER OR HIS RESPONSIBLE REPRESENTATIVE SHALL BE PROVIDED DURING ALL FILL PLACEMENT AND COMPACTION OPERATIONS WHERE FILLS HAVE A DEPTH GREATER THAN 30 FEET OR A SLOPE SURFACE STEEPER THAN 2:1. [J107.8]
34. CONTINUOUS INSPECTION BY THE SOILS ENGINEER OR HIS RESPONSIBLE REPRESENTATIVE SHALL BE PROVIDED DURING ALL SUBDRAIN INSTALLATIONS. [J107.2]

GENERAL NOTES:

68. ANY MODIFICATIONS OF OR CHANGES IN APPROVED GRADING PLANS MUST BE APPROVED BY THE BUILDING OFFICIAL.
69. A COPY OF THE GRADING PERMIT AND APPROVED GRADING PLAN MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE. [J103.4]
70. ENGINEER MUST SET GRADE STAKES FOR ALL DRAINAGE DEVICES AND OBTAIN INSPECTION BEFORE POURING.
71. ALL STORM DRAIN WORK IS TO BE DONE UNDER CONTINUOUS INSPECTION BY THE FIELD ENGINEER. WEEKLY STATUS REPORTS SHALL BE SUBMITTED BY THE FIELD ENGINEER TO THE CITY BUILDING DEPARTMENT. [J105.2]
72. PROVISIONS SHALL BE MADE FOR CONTRIBUTORY DRAINAGE AT ALL TIMES.
73. SECURE PERMISSION FROM (CITY ENGINEER), (STATE HIGHWAY DEPARTMENT) OR THE MAINTENANCE ASSOCIATION RESPONSIBLE FOR THE PRIVATE STREET, FOR CONSTRUCTION, GRADING AND/OR DISCHARGE OF DRAINAGE WITHIN STREET RIGHT-OF-WAY.
74. THE GRADING CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT VERIFYING THAT THE WORK DONE UNDER HIS DIRECTION WAS PERFORMED IN ACCORDANCE WITH THE APPROVED PLANS AND REQUIREMENTS OF THE CITY BUILDING CODE OR DESCRIBING ALL VARIANCES FROM THE APPROVED PLANS AND REQUIREMENTS OF THE CODE. [J105.12.4]
75. THE DESIGN ENGINEER VERIFIES THAT THIS GRADING PLAN WAS PREPARED UNDER MY SUPERVISION IN ACCORDANCE WITH THE CITY BUILDING CODE. ALL SOILS ENGINEER AND ENGINEERING GEOLOGY RECOMMENDATIONS WERE INCORPORATED IN PLAN. (MUST BE SIGNED AND DATED BY THE DESIGN ENGINEER.)
76. DESIGN AND TESTING OF PRESTRESSED ROCK OR STONE TIE BACK ANCHORS SHALL MEET THE STANDARDS SET OUT IN SECTION J106.2.4. THE SPECIFICATIONS CONTAINED THERE IN SHALL BE ADDED TO THE PLANS.
77. ALL RECOMMENDATIONS INCLUDED IN THE CONSULTANT'S SOIL AND GEOLOGY REPORTS MUST BE COMPLIED WITH AND ARE A PART OF THE GRADING SPECIFICATIONS.
78. GRADING OPERATIONS MUST BE CONDUCTED UNDER PERIODIC GEOLOGIC INSPECTION WITH MONTHLY INSPECTION REPORTS TO BE SUBMITTED TO THE CITY BUILDING DEPARTMENT.
79. THE CONSULTING GEOLOGIST MUST APPROVE ROUGH GRADING BY FINAL REPORT. FINAL REPORT MUST INCLUDE AN AS-BUILT GEOLOGIC MAP.
80. GRADING SHALL NOT BE STARTED WITHOUT FIRST NOTIFYING THE GRADING INSPECTOR. A PRE-GRADING MEETING ON THE SITE IS REQUIRED BEFORE START OF GRADING WITH THE FOLLOWING PEOPLE PRESENT: OWNER, GRADING CONTRACTOR, DESIGN CIVIL ENGINEER, SOIL ENGINEER, GEOLOGIST, GRADING INSPECTOR, AND WHEN REQUIRED, THE ARCHAEOLOGIST AND PALEONTOLOGIST. THE REQUIRED INSPECTIONS FOR GRADING WILL BE EXPLAINED AT THIS MEETING. [J105.7]
81. AREAS TO RECEIVE FILL SHALL BE PROPERLY PREPARED AND APPROVED, IN WRITING, BY THE SOIL ENGINEER AND THE BUILDING OFFICIAL PRIOR TO PLACING FILL.
82. FILL SHALL BE BENCHED INTO COMPETENT MATERIAL PER SOILS ENGINEER'S DIRECTIONS.
83. ALL EXISTING FILLS SHALL BE APPROVED BY THE BUILDING OFFICIAL OR REMOVED PRIOR TO PLACING ADDITIONAL FILLS.
84. STOCK PILING OF EXCESS MATERIAL SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO EXCAVATION.
85. THE FIELD ENGINEER, AS A CONDITION OF ROUGH GRADE APPROVAL, SHALL PROVIDE A BLUE TOP WITH ACCOMPANYING WITNESS STAKE, SET AT THE CENTER OF EACH PAD REFLECTING THE PAD ELEVATION FOR PRECISE PERMITS AND A BLUE TOP WITH WITNESS STAKE SET AT THE DRAINAGE SWALE HIGH POINT REFLECTING THE HIGH POINT ELEVATION FOR PRELIMINARY PERMITS. [J105.3]
86. ALL TRENCH BACKFILLS SHALL BE TESTED AND APPROVED BY THE SOIL ENGINEER.
87. THE ENGINEERING GEOLOGIST AND SOIL ENGINEER SHALL, AFTER CLEARING AND PRIOR TO THE PLACEMENT OF FILL IN CANYONS, INSPECT EACH CANYON FOR AREAS OF ADVERSE STABILITY AND TO DETERMINE THE PRESENCE OF ABSENCE OF SUBSURFACE WATER OR SPRING FLOW. IF NEEDED, SUB-DRAINS WILL BE DESIGNED AND CONSTRUCTED PRIOR TO THE PLACEMENT OF FILL IN EACH RESPECTIVE CANYON.
88. SUB-DRAIN OUTLETS SHALL BE COMPLETED AT THE BEGINNING OF THE SUB-DRAIN CONSTRUCTION AND SURVEY FOR LOCATION. THE AS GRADED PLAN SHALL SHOW ALL SUB-DRAIN LOCATIONS AND ELEVATIONS.
89. ALL CUT SLOPES SHALL BE INVESTIGATED BOTH DURING AND AFTER GRADING BY THE ENGINEERING GEOLOGIST TO DETERMINE IF ANY SLOPE STABILITY PROBLEM EXISTS. SHOULD EXCAVATION DISCLOSE ANY GEOLOGICAL HAZARDS OR POTENTIAL GEOLOGICAL HAZARDS, THE ENGINEERING GEOLOGIST SHALL SUBMIT RECOMMENDED REMEDIATION TO THE BUILDING OFFICIAL FOR APPROVAL.
90. WHERE SUPPORT OR BUTTRESSING OF CUT AND NATURAL SLOPES IS DETERMINED TO BE NECESSARY BY THE ENGINEERING GEOLOGIST AND SOIL ENGINEER, THE SOIL ENGINEER SHALL SUBMIT DESIGN, LOCATIONS, AND CALCULATIONS TO THE BUILDING OFFICIAL PRIOR TO CONSTRUCTION. THE ENGINEERING GEOLOGIST AND SOIL ENGINEER SHALL INSPECT AND CONTROL THE CONSTRUCTION OF THE BUTTRESSING AND CERTIFY TO THE STABILITY OF THE SLOPE AND ADJACENT STRUCTURES UPON COMPLETION.
91. WHEN CUT PADS ARE BROUGHT TO NEAR GRADE, THE ENGINEERING GEOLOGIST SHALL DETERMINE IF THE BEDROCK IS EXTENSIVELY FRACTURED OR FAULTED AND WILL READILY TRANSMIT WATER. IF CONSIDERED NECESSARY BY THE ENGINEERING GEOLOGIST AND SOIL ENGINEER, A COMPACTED FILL BLANKET WILL BE PLACED. [J105.5]
92. THE COMPACTION REPORT AND APPROVAL FROM THE SOIL ENGINEER SHALL INDICATE THE TYPE OF FIELD TESTING PERFORMED. EACH TEST SHALL BE IDENTIFIED WITH THE METHOD OF OBTAINING THE IN-PLACE DENSITY, WHETHER SAND CONE OR NUCLEAR GAUGE, AND SHALL BE SO NOTED FOR EACH TEST. [J105.4]
93. EXPORT SOIL MUST BE TRANSPORTED TO A LEGAL DUMP OR TO A PERMITTED SITE SHOWN CLEARLY ON APPROVED PLANS.
94. THE ENGINEER SHALL SUBMIT A LETTER OF CERTIFICATION TO THE BUILDING OFFICIAL STATING THAT THE GRADING WAS DONE IN COMPLIANCE WITH THE APPROVED GRADING PLAN.
95. PRELIMINARY SOIL AND GEOLOGY REPORTS AND ALL SUBSEQUENT REPORTS ARE CONSIDERED A PART OF THE APPROVED GRADING PLAN. ALL RECOMMENDATIONS CONTAINED ARE TO BE COMPLIED WITH OR REVISIONS SUBMITTED FOR REVIEW.
96. ALL EXISTING DRAINAGE COURSES THROUGH THIS SITE SHALL REMAIN OPEN UNTIL FACILITIES TO HANDLE STORM WATER ARE APPROVED AND FUNCTIONAL; HOWEVER, IN ANY CASE, THE PERMITTEE SHALL BE HELD LIABLE FOR ANY DAMAGE DUE TO OBSTRUCTING NATURAL DRAINAGE PATTERNS.
97. ANY EXCAVATIONS ADJACENT TO OTHER PROPERTY OR STRUCTURES ARE SUBJECT TO THE PROVISIONS OF CALIFORNIA CIVIL CODE, SECTION 832, AND IS THE RESPONSIBILITY OF THE PERMITTEE AND/OR OWNER.

NO.	REVISIONS	REVISED BY	APPROVED BY	DATE



PROJECT ENGINEER

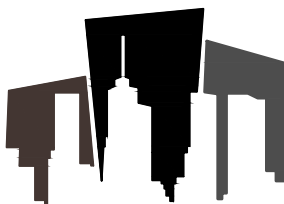
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NOTES

G2

CITY OF CERRITOS

VENTURA ENGINEERING INLAND, INC  
27393 YNEZ ROAD, SUITE 159  
TEMECULA, CALIFORNIA 92591  
PHONE: (951)252-7632  
WILFREDO@VENTURAENGINEERINGINLAND.COM



*Wilfredo Ventura* 10/26/22  
WILFREDO S.D. VENTURA DATE  
RCE 66532, EXP. 6/30/24

Ventura Engineering Inland INC

A.P.N. 7010-016-054

CIVIL SHEET 2 OF 7



EX. FIRE HYDRANT

EX. FLOW  
LINE

### CONSTRUCTION NOTES:

- 1 PROPOSED 6" CURB.
- 2 PROPOSED PLANTER PER LANDSCAPE PLAN.
- 3 PROPOSED 4" THICK CONCRETE WALKWAY.
- 4 REMOVE EXISTING ROOF CANOPY FOR ONE PARKING SPACE.
- 5 PROPOSED 5" ASPHALT PAVEMENT OVER 10" A.B.
- 6 PROPOSED 4" WHITE PARKING STRIPING.
- 7 REMOVE EXISTING PLANTER LANDSCAPE.
- 8 REMOVE EXISTING WALL.
- 9 REMOVE EXISTING CURB.
- 10 REMOVE EXISTING CONCRETE WALKWAY.
- 11 REMOVE EXISTING ASPHALT PAVEMENT.
- 12 PROPOSED RIBBON GUTTER NO LIP PER DETAIL 2 ON SHEET 5.
- 13 RELOCATE EXISTING ADA PARKING SIGN TO LANDSCAPE AREA.
- 14 REMOVE EXISTING PARKING STRIPING.
- 15 PROPOSED 1' SAWCUT.
- 16 EXISTING ADA PARKING TO BE IMPROVED IN PLACE.
- 17 PROPOSED RAMPED WALKWAY.
- 18 PROPOSED 4" BLUE ADA PATH STRIPING.
- 19 PROPOSED HANDRAIL PER ARCHITECTURAL PLANS (BY OTHERS).
- 20 PROPOSED EV CHARGING STATION SEE ELECTRIC PLAN.
- 21 PROPOSED ACCESSIBLE ROUTE OF TRAVEL.
- 22 PROPOSED WHEEL STOP (BY OTHERS).
- 23 PROPOSED ROOF DOWNSPOUT FILTER PER DETAIL 1 ON SHEET 5.
- 24 PROPOSED 12' GRATED CATCH BASIN PER DETAIL 4 ON SHEET 5.
- 25 PROPOSED 8" STORM DRAIN.
- 26 MWS-L-8-12-V-UG WITH TREATMENT CAPACITY OF 0.346 CFS TO HANDLE Q100=0.28 CFS PER DETAIL 3 ON SHEET 5.
- 27 PROPOSED 5,198 CU-FT (4,639 CU-FT MIN.) MC-7200 STORMTECH SYSTEM PER STORMTECH SYSTEM DETAIL ON SHEET 6.
- 28 PROPOSED STORM DRAIN CLEANOUT.

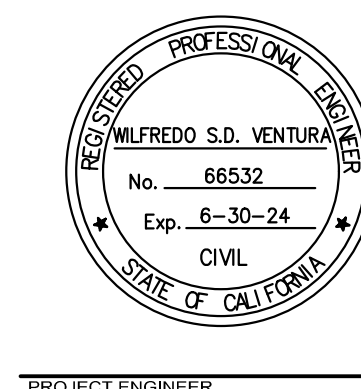
PARCEL 6

MATCH SHEET 4

10 5 0 10 20  
SCALE 1" = 10' FEET



NO.	REVISIONS	REVISED BY	APPROVED BY	DATE



PRECISE GRADING PLAN

G3

CITY OF CERRITOS

VENTURA ENGINEERING INLAND, INC  
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Ventura Engineering Inland INC

A.P.N. 7010-016-054

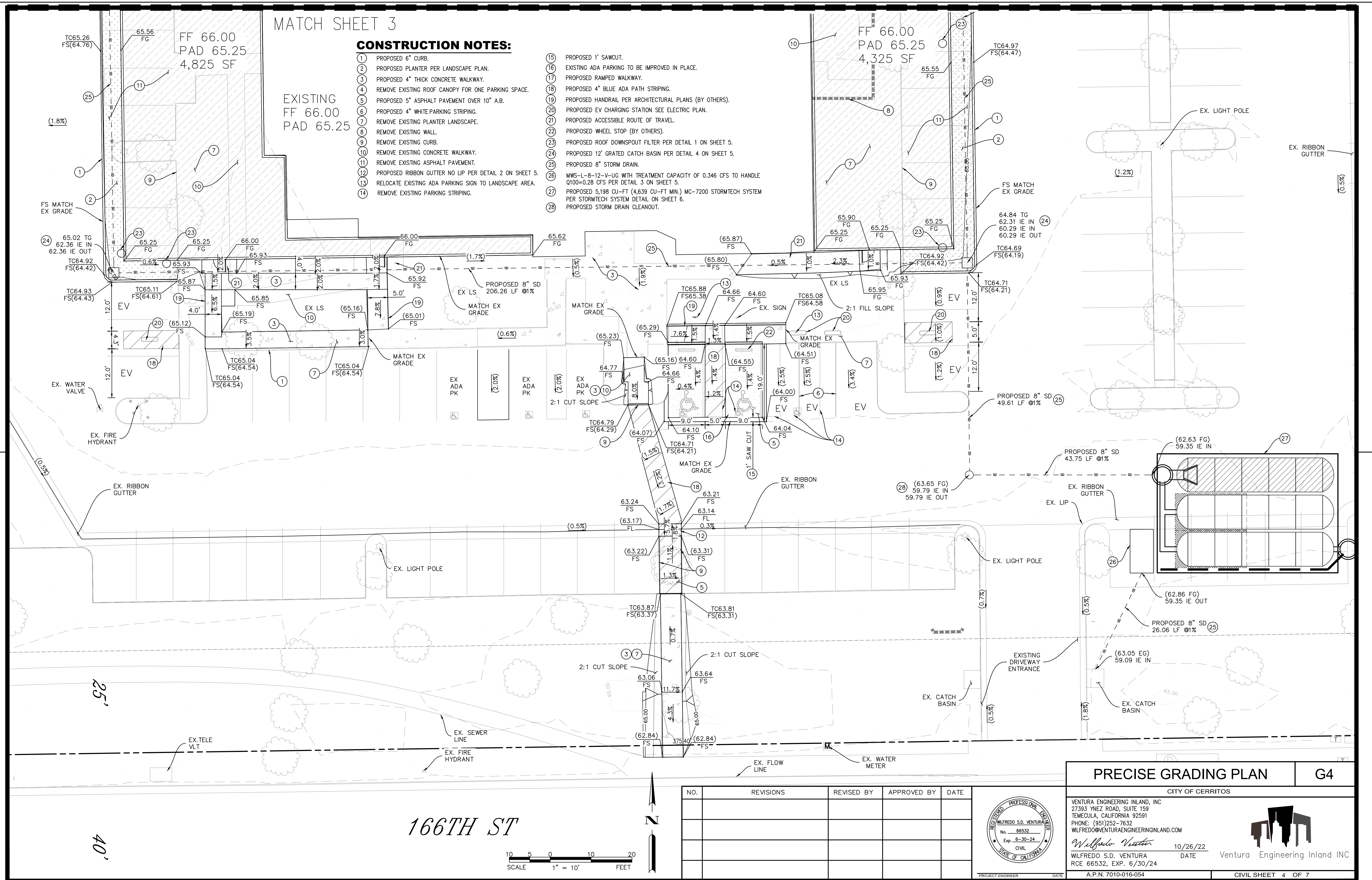
CIVIL SHEET 3 OF 7



### CONSTRUCTION NOTES:

- |    |  |    |  |
|----|--|----|--|
| 1  | PROPOSED 6" CURB.                                      | 15 | PROPOSED 1' SAWCUT.  |
| 2  | PROPOSED PLANTER PER LANDSCAPE PLAN.                   | 16 | EXISTING ADA PARKING TO BE IMPROVED IN PLACE.  |
| 3  | PROPOSED 4" THICK CONCRETE WALKWAY.                    | 17 | PROPOSED RAMPED WALKWAY.   |
| 4  | REMOVE EXISTING ROOF CANOPY FOR ONE PARKING SPACE.     | 18 | PROPOSED 4" BLUE ADA PATH STRIPING.  |
| 5  | PROPOSED 5" ASPHALT PAVEMENT OVER 10" A.B.             | 19 | PROPOSED HANDRAIL PER ARCHITECTURAL PLANS (BY OTHERS).   |
| 6  | PROPOSED 4" WHITE PARKING STRIPING.                    | 20 | PROPOSED EV CHARGING STATION SEE ELECTRIC PLAN.  |
| 7  | REMOVE EXISTING PLANTER LANDSCAPE.                     | 21 | PROPOSED ACCESSIBLE ROUTE OF TRAVEL.   |
| 8  | REMOVE EXISTING WALL.                                  | 22 | PROPOSED WHEEL STOP (BY OTHERS).   |
| 9  | REMOVE EXISTING CURB.                                  | 23 | PROPOSED ROOF DOWNSPOUT FILTER PER DETAIL 1 ON SHEET 5.  |
| 10 | REMOVE EXISTING CONCRETE WALKWAY.                      | 24 | PROPOSED 12" GRATED CATCH BASIN PER DETAIL 4 ON SHEET 5.   |
| 11 | REMOVE EXISTING ASPHALT PAVEMENT.                      | 25 | PROPOSED 8" STORM DRAIN.   |
| 12 | PROPOSED RIBBON GUTTER NO LIP PER DETAIL 2 ON SHEET 5. | 26 | MWS-L-8-12-V-UG WITH TREATMENT CAPACITY OF 0.346 CFS TO HANDLE Q100=0.28 CFS PER DETAIL 3 ON SHEET 5.    |
| 13 | RELOCATE EXISTING ADA PARKING SIGN TO LANDSCAPE AREA.  | 27 | PROPOSED 5,198 CU-FT (4,639 CU-FT MIN.) MC-7200 STORMTECH SYSTEM PER STORMTECH SYSTEM DETAIL ON SHEET 6. |
| 14 | REMOVE EXISTING PARKING STRIPING.                      | 28 | PROPOSED STORM DRAIN CLEANOUT.   |

EXISTING  
FF 66.00  
PAD 65.25





SITE SPECIFIC DATA*			
PROJECT NAME			
PROJECT LOCATION			
STRUCTURE ID			
PERFORMANCE DATA			
TREATMENT VOLUME (CF)			
DRAINDOWN TIME (HR)			
TREATMENT HGL (FT)			
BYPASS FLOW RATE (CFS)			
PROJECT PARAMETERS			
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1			
OUTLET PIPE 1			
RIM ELEVATION			
SURFACE LOADING REQUIREMENT			
FRAME & COVER	PRETREATMENT	BIOFILTRATION	DISCHARGE
WETLANDMEDIA VOLUME (CY)			
MEDIA DELIVERED			
ORIFICE SIZE (DIA)			
MAX PICK WEIGHT (LBS)			
NOTES:			
*PER ENGINEER OF RECORD			

INSTALLATION NOTES

- CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS' SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURERS' CONTRACT.
- MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE TO VERIFY PROJECT ENGINEERS RECOMMENDED BASE SPECIFICATIONS.
- ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH).
- INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR.
- ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURERS STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
- CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.

GENERAL NOTES

- MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT MANUFACTURER.

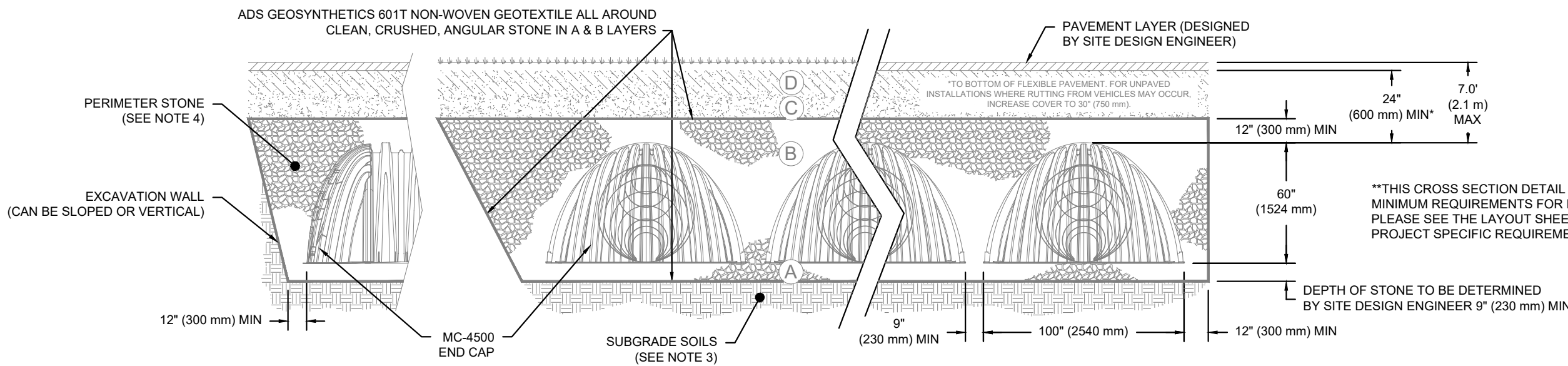
THE PRODUCT DESCRIBED MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS: 7,455,982; 7,476,140; 7,476,141; 7,476,142; 7,476,143; 7,476,144; 7,476,145; 7,476,146; 7,476,147; 7,476,148; 7,476,149; 7,476,150; 7,476,151; 7,476,152; 7,476,153; 7,476,154; 7,476,155; 7,476,156; 7,476,157; 7,476,158; 7,476,159; 7,476,160; 7,476,161; 7,476,162; 7,476,163; 7,476,164; 7,476,165; 7,476,166; 7,476,167; 7,476,168; 7,476,169; 7,476,170; 7,476,171; 7,476,172; 7,476,173; 7,476,174; 7,476,175; 7,476,176; 7,476,177; 7,476,178; 7,476,179; 7,476,180; 7,476,181; 7,476,182; 7,476,183; 7,476,184; 7,476,185; 7,476,186; 7,476,187; 7,476,188; 7,476,189; 7,476,190; 7,476,191; 7,476,192; 7,476,193; 7,476,194; 7,476,195; 7,476,196; 7,476,197; 7,476,198; 7,476,199; 7,476,200; 7,476,201; 7,476,202; 7,476,203; 7,476,204; 7,476,205; 7,476,206; 7,476,207; 7,476,208; 7,476,209; 7,476,210; 7,476,211; 7,476,212; 7,476,213; 7,476,214; 7,476,215; 7,476,216; 7,476,217; 7,476,218; 7,476,219; 7,476,220; 7,476,221; 7,476,222; 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7,476,860; 7,476,861; 7,476,862; 7,476,863; 7,476,864; 7,476,865; 7,476,866; 7,476,867; 7,476,868; 7,476,869; 7,476,870; 7,476,871; 7,476,872; 7,476,873; 7,476,874; 7,476,875; 7,476,876; 7,476,877; 7,476,878; 7,476,879; 7,476,880; 7,476,881; 7,476,882; 7,476,883; 7,476,884; 7,476,885; 7,476,886; 7,476,887; 7,476,888; 7,476,889; 7,476,890; 7,476,891; 7,476,892; 7,476,893; 7,476,894; 7,476,895; 7,476,896; 7,476,897; 7,476,898; 7,476,899; 7,476,900; 7,476,901; 7,476,902; 7,476,903; 7,476,904; 7,476,905; 7,476,906; 7,476,907; 7,476,908; 7,476,909; 7,476,910; 7,476,911; 7,476,912; 7,476,913; 7,476,914; 7,476,915; 7,476,916; 7,476,917; 7,476,918; 7,476,919; 7,476,920; 7,476,921; 7,476,922; 7,476,923; 7,476,924; 7,476,925; 7,476,926; 7,476,927; 7,476,928; 7,476,929; 7,476,930; 7,476,931; 7,476,932; 7,476,933; 7,476,934; 7,476,935; 7,476,936; 7,476,937; 7,476,938; 7,476,939; 7,476,940; 7,476,941; 7,476,942; 7,476,943; 7,476,944; 7,476,945; 7,476,946; 7,476,947; 7,476,948; 7,476,949; 7,476,950; 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7,477,133; 7,477,134; 7,477,135; 7,477,136; 7,477,137; 7,477,138; 7,477,139; 7,477,140; 7,477,141; 7,477,142; 7,477,143; 7,477,144; 7,477,145; 7,477,146; 7,477,147;



ACCEPTABLE FILL MATERIALS: STORMTECH MC-7200 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	<b>FINAL FILL:</b> FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	<b>INITIAL FILL:</b> FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	<b>EMBEDMENT STONE:</b> FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	NO COMPACTION REQUIRED.
A	<b>FOUNDATION STONE:</b> FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2,3</sup>

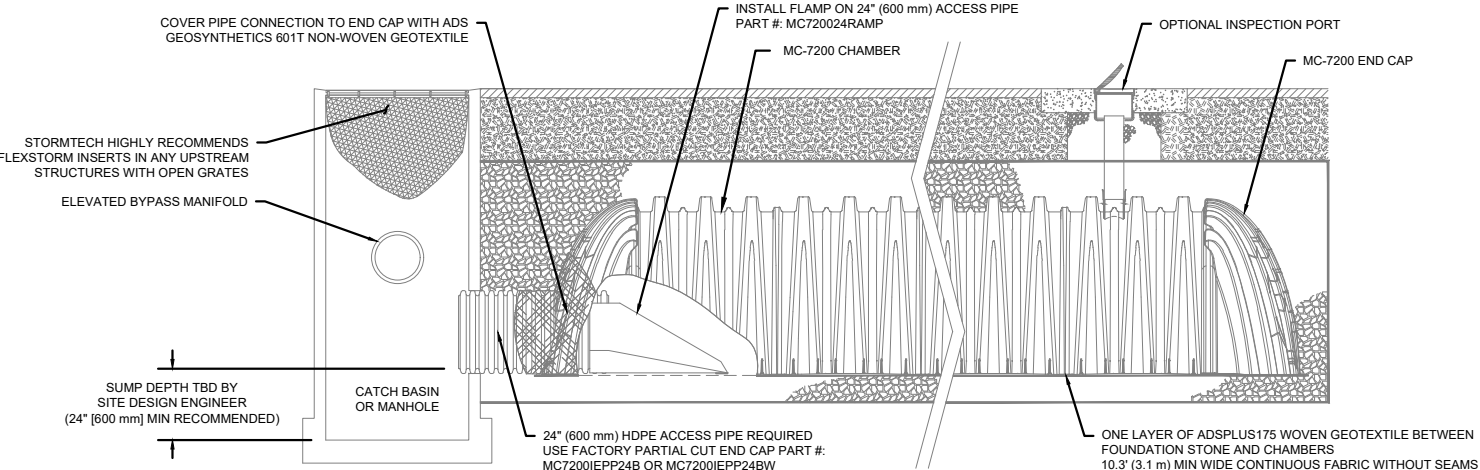
- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
  - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
  - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
  - ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101
- MC-7200 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
  - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
  - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION. a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT<sup>2</sup>/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

MC-7200 CROSS SECTION DETAIL



INSPECTION & MAINTENANCE

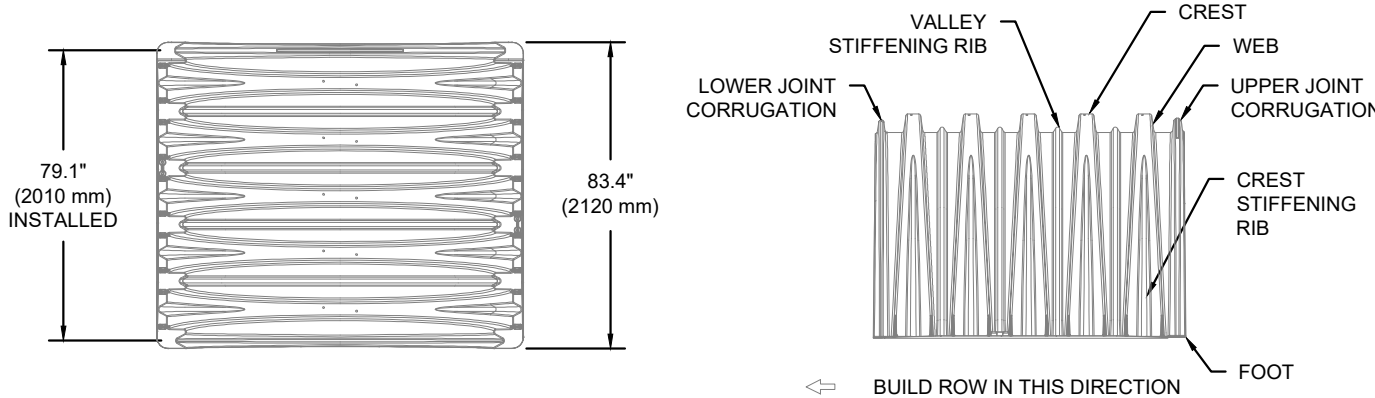
- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- INSPECTION PORTS (IF PRESENT)
    - REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
    - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
    - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
  - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
  - VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

MC-7200 ISOLATOR ROW PLUS DETAIL

STORMTECH SYSTEM DETAIL  
NOT TO SCALE



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	100.0" X 60.0" X 79.1"	(2540 mm X 1524 mm X 2010 mm)
CHAMBER STORAGE	175.9 CUBIC FEET	(4.98 m³)
MINIMUM INSTALLED STORAGE*	267.3 CUBIC FEET	(7.56 m³)
WEIGHT (NOMINAL)	205 lbs.	(92.9 kg)

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	90.0" X 61.0" X 32.8"	(2286 mm X 1549 mm X 833 mm)
END CAP STORAGE	39.5 CUBIC FEET	(1.12 m³)
MINIMUM INSTALLED STORAGE*	115.3 CUBIC FEET	(3.26 m³)
WEIGHT (NOMINAL)	90 lbs.	(40.8 kg)

\*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 12" (305 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

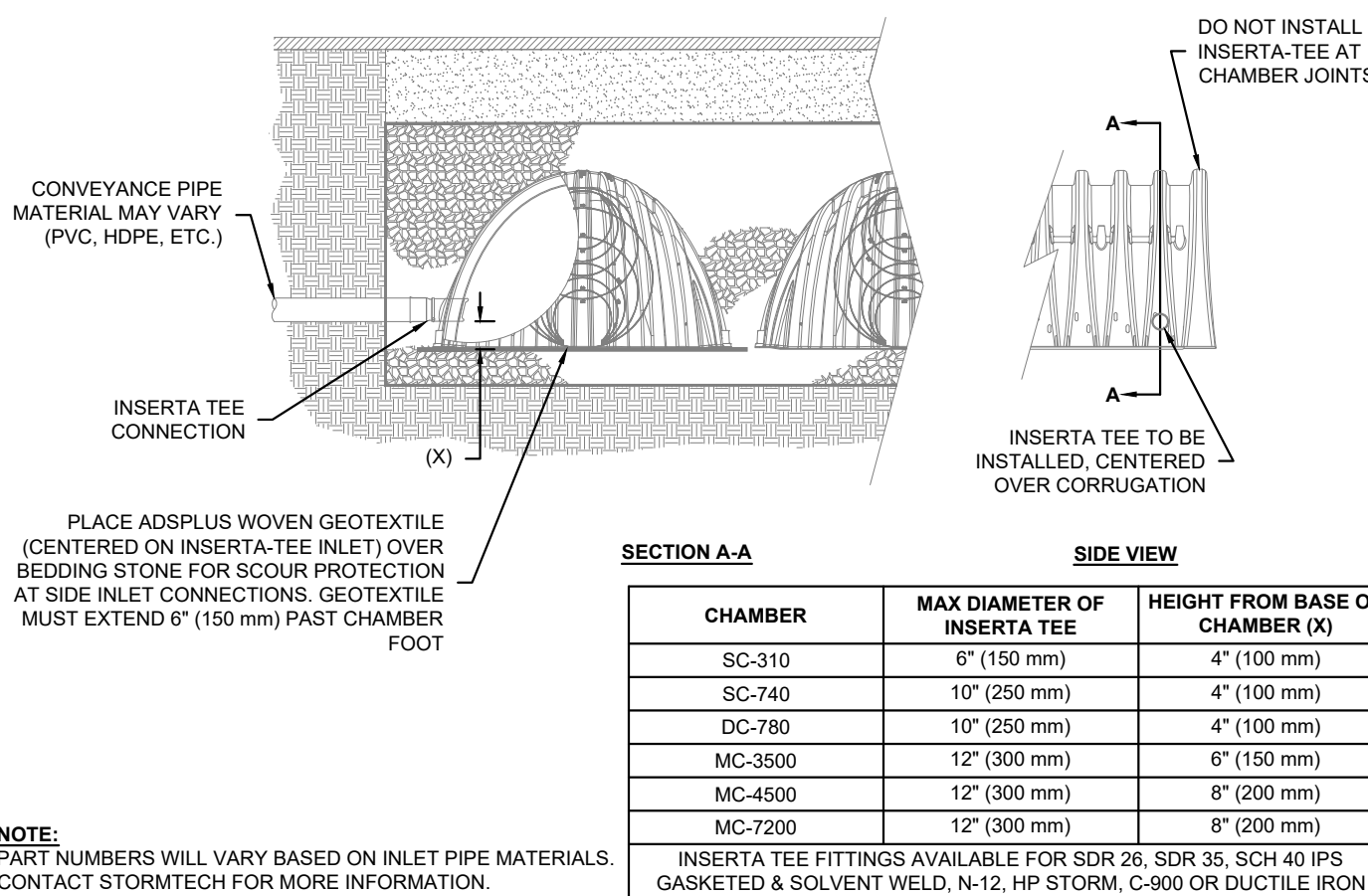
PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B" PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T" END CAPS WITH A PREFABRICATED WELDED STUB END WITH "V"

PART #	STUB	B	C
MC7200IEPP06T	6" (150 mm)	42.54" (1081 mm)	---
MC7200IEPP06B	---	---	0.86" (22 mm)
MC7200IEPP08T	8" (200 mm)	40.50" (1029 mm)	---
MC7200IEPP08B	---	---	1.01" (26 mm)
MC7200IEPP10T	10" (250 mm)	38.37" (975 mm)	---
MC7200IEPP10B	---	---	1.33" (34 mm)
MC7200IEPP12T	12" (300 mm)	35.69" (907 mm)	---
MC7200IEPP12B	---	---	1.55" (39 mm)
MC7200IEPP15T	15" (375 mm)	32.72" (831 mm)	---
MC7200IEPP15B	---	---	1.70" (43 mm)
MC7200IEPP18T	---	29.36" (746 mm)	---
MC7200IEPP18TW	18" (450 mm)	---	---
MC7200IEPP18B	---	---	1.97" (50 mm)
MC7200IEPP18BV	---	---	---
MC7200IEPP24T	24" (600 mm)	23.05" (585 mm)	---
MC7200IEPP24TW	---	---	---
MC7200IEPP24B	---	---	2.26" (57 mm)
MC7200IEPP24BW	---	---	---
MC7200IEPP36TW	30" (750 mm)	---	2.95" (75 mm)
MC7200IEPP36BW	36" (900 mm)	---	3.25" (83 mm)
MC7200IEPP42BW	42" (1050 mm)	---	3.55" (90 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL

CUSTOM PREFABRICATED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-7200 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

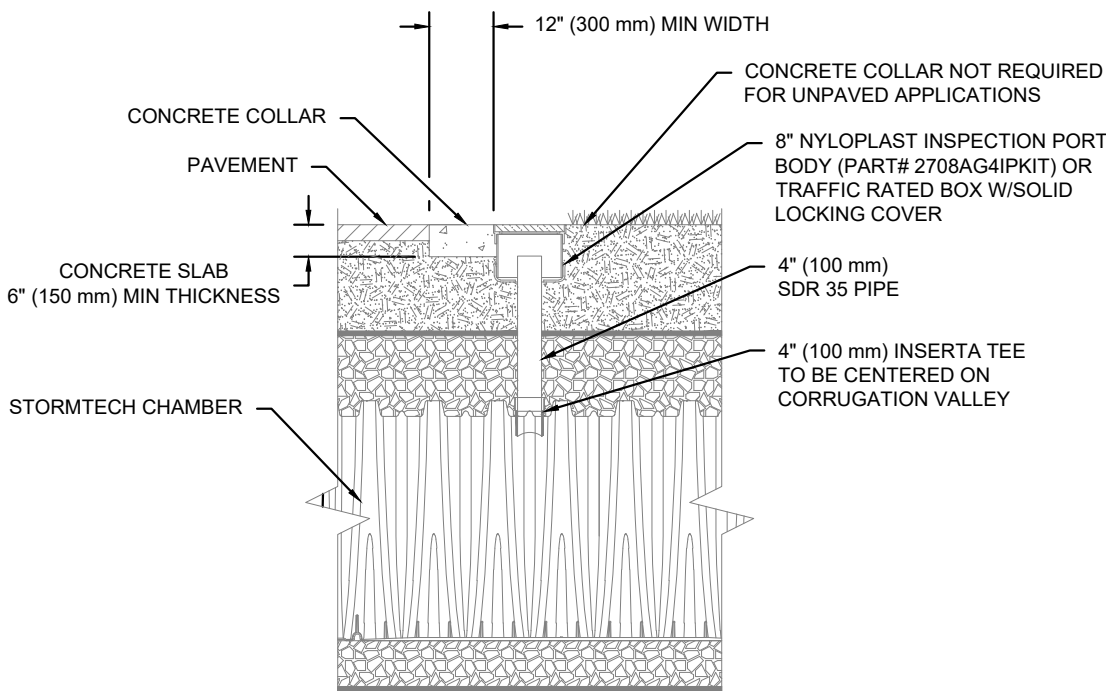
MC-7200 TECHNICAL SPECIFICATIONS



NOTE:

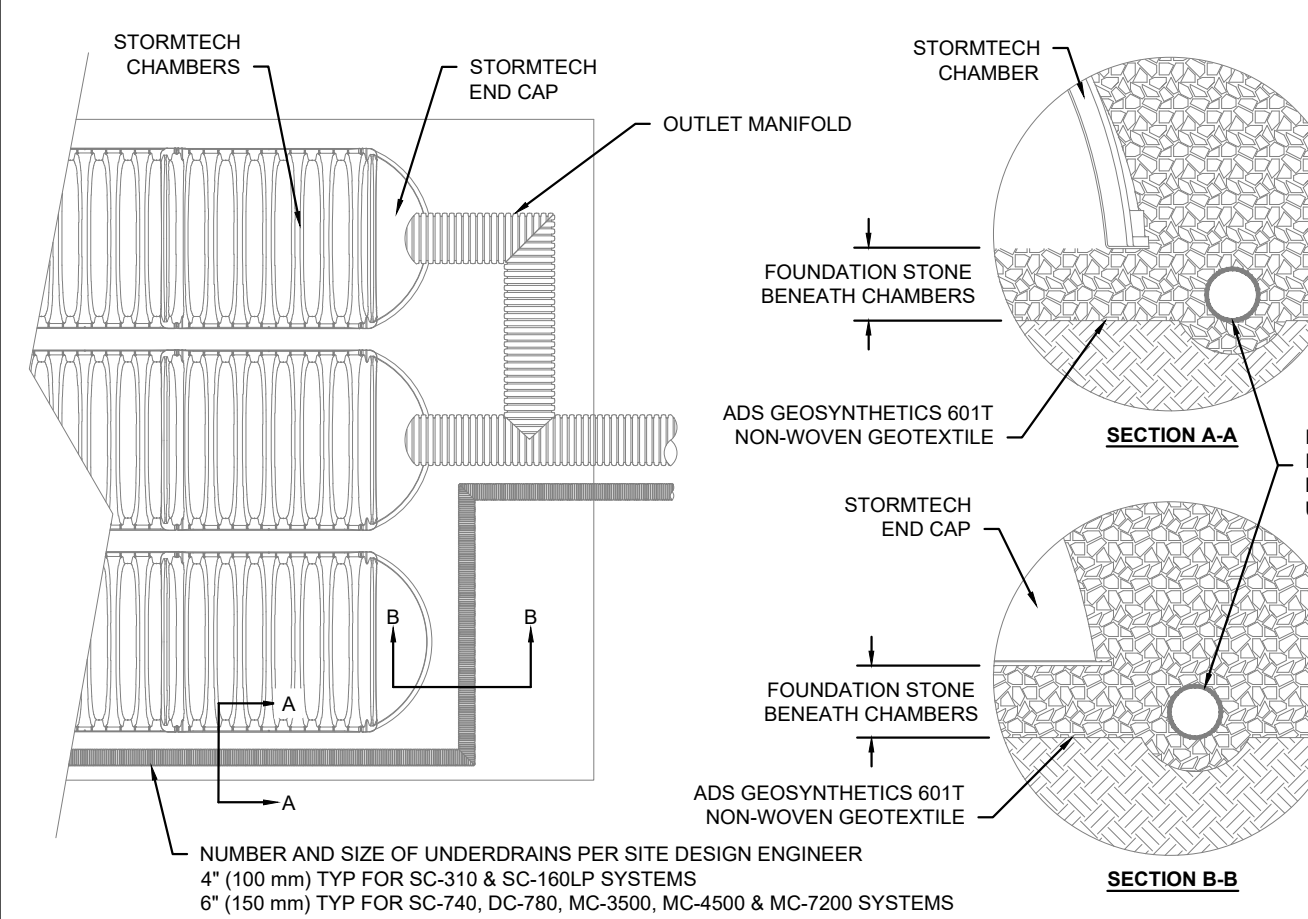
PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.

INSERTA-TEE SIDE INLET DETAIL

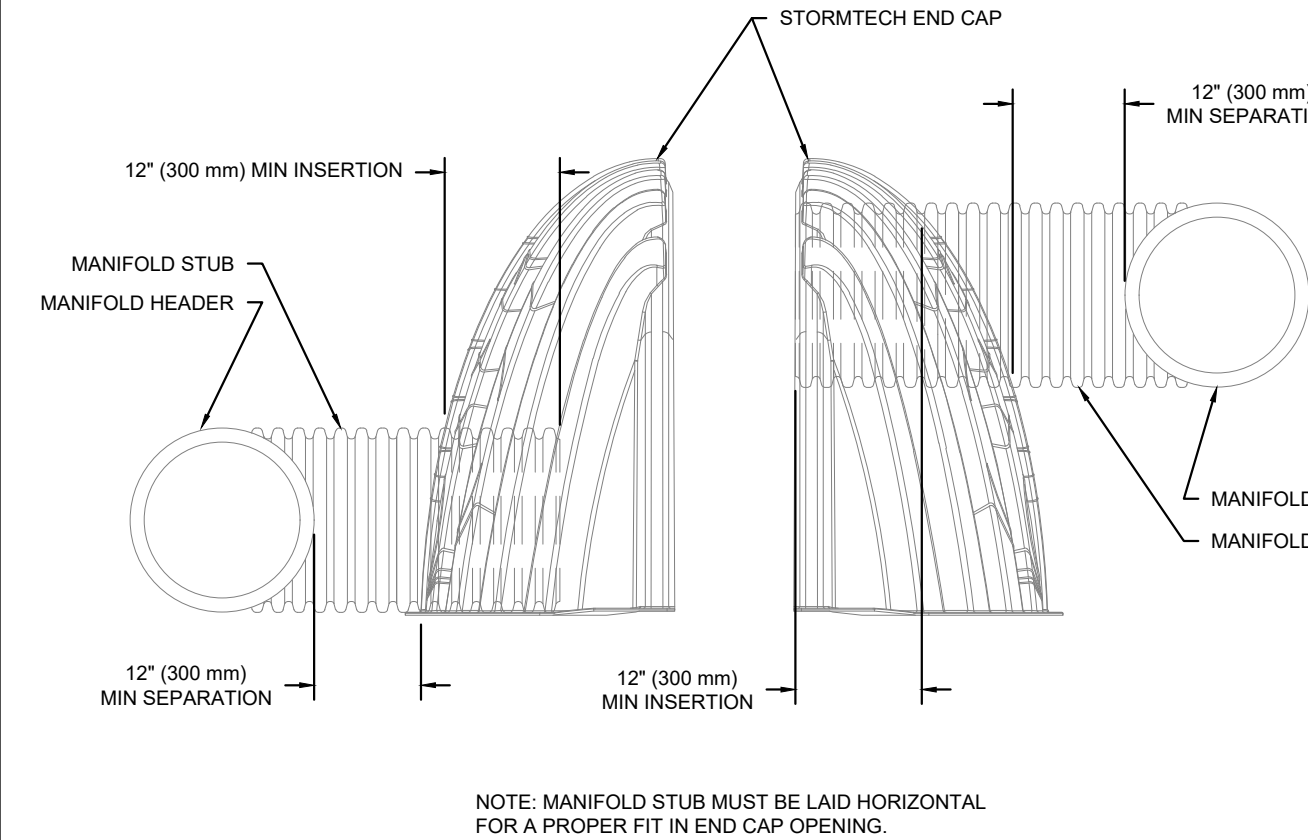


NOTE: INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.

4" PVC INSPECTION PORT DETAIL  
(MC SERIES CHAMBER)



UNDERDRAIN DETAIL

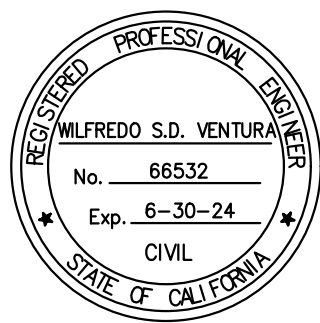


MC-SERIES END CAP INSERTION DETAIL

STORMTECH SYSTEM DETAIL

G6

NO.	REVISIONS	REVISED BY	APPROVED BY	DATE

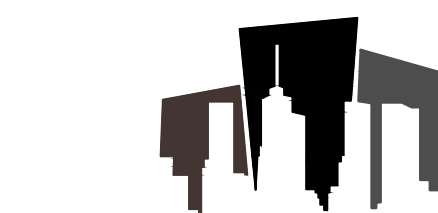


PROJECT ENGINEER DATE

CITY OF CERRITOS

VENTURA ENGINEERING INLAND, INC  
27393 YNEZ ROAD, SUITE 159  
TEMECULA, CALIFORNIA 92591  
PHONE: (951)252-7632  
WILFREDO@VENTURAENGINEERINGINLAND.COM

10/26/22  
DATE  
WILFREDO S.D. VENTURA  
RCE 66532, EXP. 6/30/24



Ventura Engineering Inland INC

A.P.N. 7010-016-054

CIVIL SHEET 6 OF 7



### STREET SWEEPING NOTE:

CONTRACTOR TO SWEEP THE STREET AFTER EVERY TRUCK DELIVERY AND AT THE END OF EACH WORK DAY FOLLOWING ALL STANDARD PRACTICES FOR WATERLESS STREET SWEEPING.

### SCHEMATIC NOTE:

THIS EROSION CONTROL PLAN IS SCHEMATIC IN NATURE ONLY AND CAN BE MODIFIED AS NEEDED BY THE CONTRACTOR DURING CONSTRUCTION AND WILL CONSENT OF THE CITY INSPECTOR.

### EROSION AND SEDIMENT CONTROL PLAN GENERAL NOTES:

1. IN CASE OF EMERGENCY, CALL (RESPONSIBLE PERSON) AT (24-HOUR TELEPHONE).
1. PLEASE FILL IN NAME AND NUMBER
- TOTAL DISTURBED AREA 12,458 SF WID # ----
- RISK LEVEL 1 2 3 (CIRCLE ONE AS DETERMINED BY STATE GENERAL PERMIT FOR SITES GREATER THAN 1 ACRE)
- A STAND-BY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (NOVEMBER 1 TO APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF EMERGENCY DEVICES WHEN RAIN IS IMMINENT.
- EROSION CONTROL DEVICES SHOWN ON THIS PLAN MAY BE REMOVED WHEN APPROVED BY THE BUILDING OFFICIAL IF THE GRADING OPERATION HAS PROCEEDED TO THE POINT WHERE THEY ARE NO LONGER REQUIRED.
- GRADED AREAS ADJACENT TO FILL SLOPES LOCATED AT THE SITE PERIMETER MUST DRAIN AWAY FROM THE TOP OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY. ALL LOOSE SOILS AND DEBRIS THAT MAY CREATE A POTENTIAL HAZARD TO OFF-SITE PROPERTY SHALL BE STABILIZED OR REMOVED FROM THE SITE ON A DAILY BASIS.
- ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM AND BE DISPOSED OF PROPERLY.
- A GUARD SHALL BE POSTED ON THE SITE WHENEVER THE DEPTH OF WATER IN ANY DEVICE EXCEEDS TWO FEET. THE DEVICE SHALL BE DRAINED OR PUMPED DRY WITHIN 24 HOURS AFTER EACH RAINSTORM. PUMPING AND DRAINING OF ALL BASINS AND DRAINAGE DEVICES MUST COMPLY WITH THE APPROPRIATE BMP FOR DEWATERING OPERATIONS.
- THE PLACEMENT OF ADDITIONAL DEVICES TO REDUCE EROSION DAMAGE AND CONTAIN POLLUTANTS WITHIN THE SITE IS LEFT TO THE DISCRETION OF THE FIELD ENGINEER. ADDITIONAL DEVICES AS NEEDED SHALL BE INSTALLED TO RETAIN SEDIMENTS AND OTHER POLLUTANTS ON SITE.
- DESILTING BASINS MAY NOT BE REMOVED OR MADE INOPERABLE BETWEEN NOVEMBER 1 AND APRIL 15 OF THE FOLLOWING YEAR WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL.
- STORM WATER POLLUTION AND EROSION CONTROL DEVICES ARE TO BE MODIFIED, AS NEEDED, AS THE PROJECT PROGRESSES. THE DESIGN AND PLACEMENT OF THESE DEVICES IS THE RESPONSIBILITY OF THE FIELD ENGINEER. PLANS REPRESENTING CHANGES MUST BE SUBMITTED FOR APPROVAL IF REQUESTED BY THE BUILDING OFFICIAL.
- EVERY EFFORT SHOULD BE MADE TO ELIMINATE THE DISCHARGE OF NON-STORM WATER FROM THE PROJECT SITES AT ALL TIMES.
- ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON-SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND.
- STOCKPILES OF EARTH AND OTHER CONSTRUCTION-RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
- FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOILS AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
- EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON-SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
- DEVELOPERS/CONTRACTORS ARE RESPONSIBLE TO INSPECT ALL EROSION CONTROL DEVICES AND BMPs ARE INSTALLED AND FUNCTIONING PROPERLY IF THERE IS A 50% OR GREATER PROBABILITY OF PREDICTED PRECIPITATION, AND AFTER ACTUAL PRECIPITATION. A CONSTRUCTION SITE INSPECTION CHECKLIST AND INSPECTION LOG SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES AND AVAILABLE FOR REVIEW BY THE BUILDING OFFICIAL. COPIES OF THE SELF-INSPECTION CHECK LIST AND INSPECTION LOGS ARE AVAILABLE UPON REQUEST.
- TRASH AND CONSTRUCTION-RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
- SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
- ANY SLOPES WITH DISTURBED SOILS OR DENUED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
- AS THE ENGINEER/QSD OF RECORD, I HAVE SELECTED APPROPRIATE BMPs TO EFFECTIVELY MINIMIZE THE NEGATIVE IMPACTS OF THIS PROJECTS CONSTRUCTION ACTIVITIES ON STORM WATER QUALITY. THE PROJECT OWNER AND CONTRACTOR ARE AWARE THAT THE SELECTED BMPs MUST BE INSTALLED, MONITORED, AND MAINTAINED TO ENSURE THEIR EFFECTIVENESS.

CIVIL ENGINEER/QSD SIGNATURE DATE

OWNER OR AUTHORIZED REPRESENTATIVE (PERMITEE) DATE

22. DEVELOPERS/CONTRACTORS ARE RESPONSIBLE TO INSPECT ALL EROSION CONTROL DEVICES AND BMPs ARE INSTALLED AND FUNCTIONING PROPERLY AS REQUIRED BY THE STATE CONSTRUCTION GENERAL PERMIT. A CONSTRUCTION SITE INSPECTION CHECKLIST AND INSPECTION LOG SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES AND AVAILABLE FOR REVIEW BY THE BUILDING OFFICIAL.
23. THE FOLLOWING BMPs FROM THE 2009 CONSTRUCTION BMP HANDBOOK/PORTAL MUST BE IMPLEMENTED FOR ALL CONSTRUCTION ACTIVITIES AS APPLICABLE. AS AN ALTERNATIVE, DETAILS FROM CALTRANS STORMWATER QUALITY HANDBOOKS, CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP) MANUAL MAY BE USED. ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY THE BUILDING OFFICIAL.

### OWNERS CERTIFICATE NOTE:

I CERTIFY THAT THIS WATER QUALITY DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ENSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE WATER QUALITY INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE INFORMATION SUBMITTED IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT SUBMITTING FALSE AND/OR INACCURATE INFORMATION, FAILING TO UPDATE THE ESCP TO REFLECT CURRENT CONDITIONS, OR FAILING TO PROPERLY AND/OR ADEQUATELY IMPLEMENT THE ESCP MAY RESULT IN REVOCATION OF GRADING AND/OR OTHER PERMITS OR OTHER SANCTIONS PROVIDED BY LAW.

IMPLEMENT THE ESCP MAY RESULT IN REVOCATION OF GRADING AND/OR OTHER PERMITS OR OTHER SANCTIONS PROVIDED BY LAW.

OWNER OR OWNER'S AGENT DATE

**WIND EROSION CONTROL**  
WE1 - WIND EROSION CONTROL  
TEMPORARY TRACKING CONTROL  
TC1 - STABILIZED CONSTRUCTION ENTRANCE EXIT  
TC2 - STABILIZED CONSTRUCTION ROADWAY  
TC3 - ENTRANCE/OUTLET TIRE WASH

**NON-STORMWATER MANAGEMENT**  
NS1 - WATER CONSERVATION PRACTICES  
NS2 - DEWATERING OPERATIONS  
NS3 - PAVING AND GRINDING OPERATIONS  
NS4 - TEMPORARY STREAM CROSSING  
NS5 - CLEAR WATER DIVERSION  
NS6 - ILLICIT CONNECTION/DISCHARGE  
NS7 - POTABLE WATER/IRRIGATION  
NS8 - VEHICLE AND EQUIPMENT CLEANING  
NS9 - VEHICLE AND EQUIPMENT FUELING  
NS10 - VEHICLE AND EQUIPMENT MAINTENANCE  
NS11 - PILE DRIVING OPERATIONS  
NS12 - CONCRETE CURING  
NS13 - CONCRETE FINISHING  
NS14 - MATERIAL AND EQUIPMENT USE  
NS15 - DEMOLITION ADJACENT TO WATER  
NS16 - TEMPORARY BATCH PLANTS

**TEMPORARY SEDIMENT CONTROL**  
SE1 - SILT FENCE  
SE2 - SEDIMENT BASIN  
SE3 - SEDIMENT TRAP  
SE4 - CHECK DAM  
SE5 - FIBER ROLLS  
SE6 - GRAVEL BAG BERM  
SE7 - STREET SWEEPING AND VACUUMING  
SE8 - SANDBAG BARRIER  
SE9 - STRAW BALE BARRIER  
SE10 - STORM DRAIN INLET PROTECTION  
SE11 - ACTIVE TREATMENT SYSTEMS  
SE12 - TEMPORARY SILT DIKE  
SE13 - COMPOST SOCKS & BERMS  
SE14 - BIOFILTER BAGS

**WASTE MANAGEMENT & MATERIAL POLLUTION CONTROL**  
WM1 - MATERIAL DELIVERY AND STORAGE  
WM2 - MATERIAL USE  
WM3 - STOCKPILE MANAGEMENT  
WM4 - SPILL PREVENTION AND CONTROL  
WM5 - SOLID WASTE MANAGEMENT  
WM6 - HAZARDOUS WASTE MANAGEMENT  
WM7 - CONTAMINATION SOIL MANAGEMENT  
WM8 - CONCRETE WASTE MANAGEMENT  
WM9 - SANITARY/SEPTIC WASTE MANAGEMENT  
WM10 - LIQUID WASTE MANAGEMENT

**EROSION CONTROL**  
EC1 - SCHEDULING  
EC2 - PRESERVATION OF EXISTING VEGETATION  
EC3 - HYDRAULIC MULCH  
EC4 - HYDROSEEDING  
EC5 - SOIL BINDERS  
EC6 - STRAW MULCH  
EC7 - GEOTEXTILES & MATS  
EC8 - WOOD MULCHING  
EC9 - EARTH DIKES AND DRAINAGE SWALES  
EC10 - VELOCITY DISSIPATION DEVICES  
EC11 - SLOPE DRAINS  
EC12 - STREAMBANK STABILIZATION  
EC13 - RESERVED  
EC14 - COMPOST BLANKETS  
EC15 - SOIL PREPARATION/ROUGHENING  
EC16 - NON-VEGETATED STABILIZATION

### EROSION CONTROL CONSTRUCTION NOTES

- | SYMBOL | QTY     |
|--------|---------|
| 1      | 892 L.F |
| 2      | 1 EA.   |
| 3      | 1 EA.   |
| 4      | 1 EA.   |
| 5      | 1 EA.   |
| 6      | 1 EA.   |
1. INSTALL DOUBLE ROW OF GRAVEL BAGS & INLET PROTECTION (SE-6 & SE-10 PER CASQA).
  2. INSTALL CONCRETE WASHOUT CONTAINER (WM-8 PER CASQA).
  3. ESTABLISH EQUIPMENT & MATERIAL STORAGE AREA PER CALTRANS WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BEST MANAGEMENT PRACTICES (WM-1 PER CASQA).
  4. ESTABLISH STOCKPILE MANAGEMENT AREA PER CALTRANS WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BEST MANAGEMENT PRACTICES (WM-5 PER CASQA).
  5. INSTALL STABILIZED CONSTRUCTION ENTRANCE (TC-1 PER CASQA).
  6. INSTALL PORTABLE TOILET (WM-9 PER CASQA).

### QSD CERTIFICATION:

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I HAVE COMPLIED WITH THE CRITERIA OF MWEL0 AND APPLIED THE REQUIREMENTS ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE GRADING DESIGN PLAN.

WILFREDO S.D. VENTURA, PE C 66532, QSD 21094  
EXPIRATION DATE: 06/30/24

VENTURA ENGINEERING INLAND, INC  
27393 YNEZ RD, SUITE 159  
TEMECULA, CALIFORNIA 92562  
TOLL FREE (800) 723-4224

### RE-VEGETATION NOTE:

ONCE CONSTRUCTION IS COMPLETE, RE-VEGETATE AREAS OUTSIDE THE GRADING ENVELOPE THAT WERE DISTURBED AS PART OF THE CONSTRUCTION PROCESS.

### CONSTRUCTION ENTRANCE NOTE:

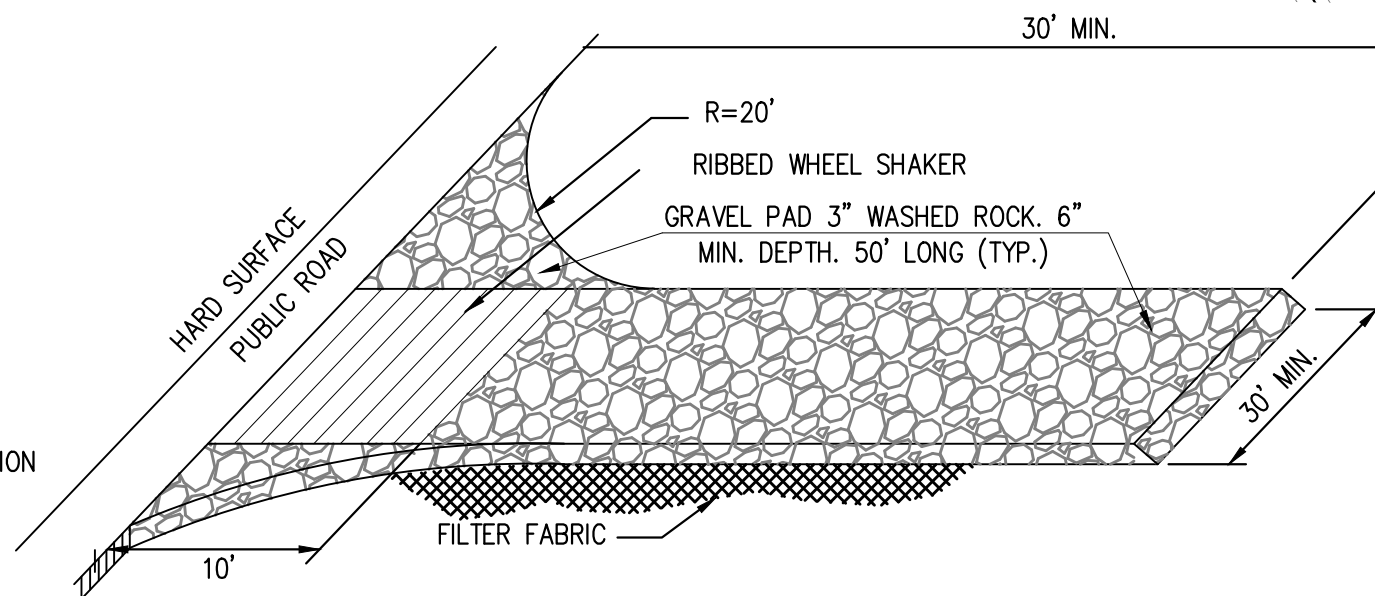
A STABILIZED CONSTRUCTION ENTRANCE IS TO BE USED AS LONG AS FEASIBLE. IT IS ANTICIPATED THAT THE ENTRANCE WILL BE REMOVED ONCE SITE EARTHWORK OPERATIONS, RETAINING WALLS ARE INSTALLED, AND SLABS HAVE BEEN POURED.

### EXISTING UTILITY NOTE:

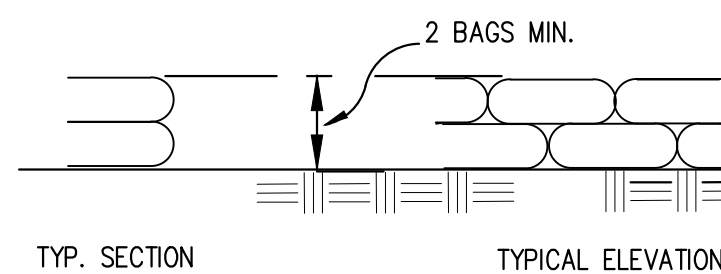
CONTRACTOR TO PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION ACTIVITIES.

### UNAUTHORIZED CHANGES & USES:

CAUTION: 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.



### STABILIZED CONSTRUCTION ENTRANCE:



### STREET GRAVEL BAGS DETAIL:

### PARCEL 3

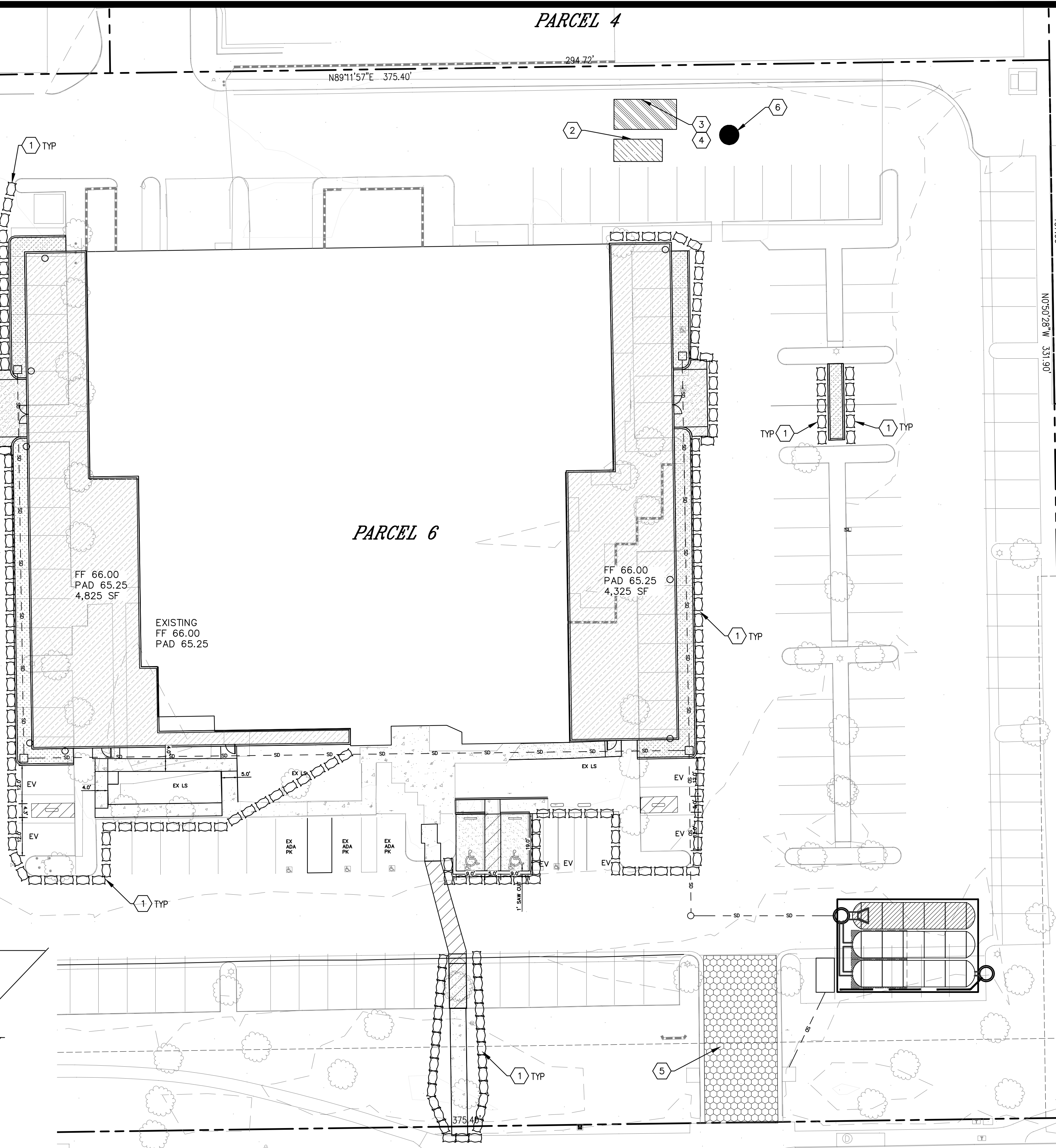
### SYMBOL

### QTY

- 892 L.F  
1 EA.  
1 EA.  
1 EA.  
1 EA.  
1 EA.

### PARCEL 4

### PARCEL 6



### EROSION CONTROL PLAN

G7

CITY OF CERRITOS

VENTURA ENGINEERING INLAND, INC  
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RCE 66532, EXP. 6/30/24

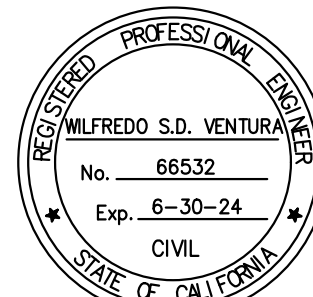
10/26/22

DATE

Ventura Engineering Inland INC

A.P.N. 7010-016-054

CIVIL SHEET 7 OF 7



PROJECT ENGINEER

DATE